



Air Quality Monitoring Network for August 2007

Prepared by
FOCUS
 AMBIENT AIR MONITORING

Airshed Zone Association – August 2007 PASZA Ambient Air Report	3
PASZA Monthly Continuous Data Summary	5
PASZA - Henry Pirker AQI Monthly Summary	11
PASZA - Henry Pirker Sulphur Dioxide Monthly Summary	12
PASZA - Henry Pirker Nitrogen Dioxide Monthly Summary	17
PASZA - Henry Pirker Nitric Oxide Monthly Summary	22
PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary	23
PASZA - Henry Pirker Ozone Monthly Summary	28
PASZA - Henry Pirker Ozone Eight Hour Average Summary	33
PASZA - Henry Pirker Carbon Monoxide Monthly Summary	34
PASZA - Henry Pirker Carbon Monoxide Eight Hour Average Summary	39
PASZA - Henry Pirker Total Hydrocarbons Monthly Summary	40
PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary	45
PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Monthly Summary	50
PASZA - Henry Pirker Relative Humidity Monthly Summary	55
PASZA - Henry Pirker Temperature Monthly Summary	57
PASZA - Henry Pirker Solar Radiation Monthly Summary	59
PASZA - Henry Pirker Scalar Wind Speed Monthly Summary	61
PASZA - Henry Pirker Vector Wind Speed Monthly Summary	62
PASZA - Henry Pirker Wind Direction Monthly Summary	63
PASZA - Henry Pirker Standard Deviation of Wind Direction Monthly Summary	64
PASZA - Evergreen Park Sulphur Dioxide Monthly Summary	67
PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary	72
PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Monthly Summary	77
PASZA - Evergreen Park Temperature Monthly Summary	82
PASZA - Evergreen Park Scalar Wind Speed Monthly Summary	84
PASZA - Evergreen Park Vector Wind Speed Monthly Summary	85
PASZA - Evergreen Park Wind Direction Monthly Summary	86
PASZA - Evergreen Park Standard Deviation of Wind Direction Monthly Summary	87
PASZA - Smoky Heights Sulphur Dioxide Monthly Summary	90
PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary	95
PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Monthly Summary	100
PASZA - Smoky Heights Temperature Monthly Summary	105
PASZA - Smoky Heights Scalar Wind Speed Monthly Summary	107
PASZA - Smoky Heights Vector Wind Speed Monthly Summary	108
PASZA - Smoky Heights Wind Direction Monthly Summary	109
PASZA - Smoky Heights Standard Deviation of Wind Direction Monthly Summary	110
PASZA - Beaverlodge AQI Monthly Summary	113
PASZA - Beaverlodge Sulphur Dioxide Monthly Summary	114
PASZA - Beaverlodge Nitrogen Dioxide Monthly Summary	119
PASZA - Beaverlodge Nitric Oxide Monthly Summary	124
PASZA - Beaverlodge Oxides of Nitrogen Monthly Summary	125
PASZA - Beaverlodge Ozone Monthly Summary	130
PASZA - Beaverlodge Ozone Eight Hour Average Summary	135
PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Monthly Summary	136
PASZA - Beaverlodge Relative Humidity Monthly Summary	141
PASZA - Beaverlodge Temperature Monthly Summary	143
PASZA - Beaverlodge Scalar Wind Speed Monthly Summary	145



PASZA - Beaverlodge Vector Wind Speed Monthly Summary	146
PASZA - Beaverlodge Wind Direction Monthly Summary	147
PASZA - Beaverlodge Standard Deviation of Wind Direction Monthly Summary	148
PASZA - Portable-Falher Sulphur Dioxide Monthly Summary	151
PASZA - Portable-Falher Nitrogen Dioxide Monthly Summary	156
PASZA - Portable-Falher Nitric Oxide Monthly Summary	161
PASZA - Portable-Falher Oxides of Nitrogen Monthly Summary	162
PASZA - Portable-Falher Ozone Monthly Summary	167
PASZA - Portable-Falher Ozone Eight Hour Average Summary	172
PASZA - Portable-Falher Total Reduced Sulphur Monthly Summary	173
PASZA - Portable-Falher Relative Humidity Monthly Summary	178
PASZA - Portable-Falher Temperature Monthly Summary	180
PASZA - Portable-Falher Scalar Wind Speed Monthly Summary	182
PASZA - Portable-Falher Vector Wind Speed Monthly Summary	183
PASZA - Portable-Falher Wind Direction Monthly Summary	184
PASZA - Portable-Falher Standard Deviation of Wind Direction Monthly Summary	185
PASZA - Valleyview Sulphur Dioxide Monthly Summary	188
PASZA - Valleyview Hydrogen Sulphide Monthly Summary	193
PASZA - Valleyview Relative Humidity Monthly Summary	198
PASZA - Valleyview Temperature Monthly Summary	200
PASZA - Valleyview Scalar Wind Speed Monthly Summary	202
PASZA - Valleyview Vector Wind Speed Monthly Summary	203
PASZA - Valleyview Wind Direction Monthly Summary	204
PASZA - Valleyview Standard Deviation of Wind Direction Monthly Summary	205
PASZA Passive Stations for August 2007	208
August 2007 Calibration Reports	218



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

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

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

A follow-up audit of the network by Alberta Environment was conducted on August 21st (Valleyview), August 22nd (Henry Pirker and Evergreen Park) and August 23rd (Beaverlodge, Falher and Valleyview). For specific questions regarding the audit results contact Michael Bisaga, PASZA Program Manager.

During the month of August the following events were noted:

Henry Pirker Station:

- ◆ All analyzers / sensors at the Henry Pirker station had an operational uptime greater than 90%.
- ◆ The AQI for the month resulted in 699 hours of Good readings.

Evergreen Park Station:

- ◆ All analyzers / sensors at the Evergreen Park station had an operational uptime greater than 90%.

Smoky Heights Station:

- ◆ The SO₂ TECO 43I was removed from service (to be sent back to factory for repairs) on August 8th and replaced with a 43C analyzer. The TECO 43C analyzer was installed and allowed to stabilize over night with a start-up calibration performed on August 9th.
- ◆ A total of six (6) hours were flagged invalid for all parameters due to power failures on August 1st and 14th.
- ◆ A total of five (5) hours were flagged invalid for all parameters due to communication and server errors. These issues are currently being addressed.
- ◆ 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.

Portable - Falher Station:

- ◆ On August 25th the temperature and relative humidity sensors failed, resulting in less than 90% operational uptime for the month of August. Several attempts were made to repair but they were sent back to factory for repair. Alberta Environment reference # 192650.
- ◆ Removal calibrations were performed on August 28th and 29th, and the station was moved to the Spirit River site on August 31st.
- ◆ All analyzers / sensors at the Falher station (with the exception of the temperature and relative humidity gauges) had an operational uptime greater than 90%.

Valleyview Station:

- ◆ Power failures resulted in a total of twenty-eight (28) hours of invalid data for SO₂ and H₂S parameter and twenty-six (26) hours of invalid data for the meteorological sensors.
- ◆ Note that on August 21st, 28th and 30th, there were several 30-second (instantaneous) H₂S readings greater than 10 ppb – however they did not exceed the one-hour average Alberta Environment Objective of 10 ppb.
- ◆ All analyzers / sensors at the Valleyview station had an operational uptime greater than 90%.

Passive Monitoring: 54 Stations throughout the PASZA zone:

Field notes during collection noted the following: all three samples (SO₂, O₃ and NO₂) from the Cadotte Lake School site were vandalized; subsequently there are no lab results for all three samples. There are no lab results for the SO₂ and O₃ samples from Beaverlodge; and the NO₂ sample from Grande Prairie I, because all three samples were found broken. There were six duplicate sites sampled in the month of August; Shaftesbury, Eaglesham, Jean Cote, McLennan, Bear Canyon 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 0.2 ppb to 0.7 ppb, with a mean of 0.3 ppb.
- Monthly average concentrations for NO₂ passives ranged from 0.0 ppb to 3.8 ppb, with a mean of 0.7 ppb.
- Monthly average concentrations for O₃ passives ranged from 12.0 ppb to 24.8 ppb, with a mean of 18.6 ppb.

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

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

Aug-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	0.2	0	0	13.7	Aug-03 20:00	13.7	WSW	2.0	Aug-03	100.0%
SO ₂ (ppb)	172	57	Evergreen Park	0.4	0	0	21.5	Aug-10 10:00	6.5	SSE	1.7	Aug-10	100.0%
SO ₂ (ppb)	172	57	Smoky Heights	0.2	0	0	5.4	Aug-01 05:00	20.5	W	1.1	Aug-01	96.1%
SO ₂ (ppb)	172	57	Beaverlodge	0.3	0	0	10.1	Aug-06 09:00	8.7	SW	0.9	Aug-03	100.0%
SO ₂ (ppb)	172	57	Portable-Falher	0.1	0	0	1.1	Aug-06 09:00	11.5	S	0.4	Aug-02	100.0%
SO ₂ (ppm)	172	57	Valleyview	0.44	0	0	15.92	Aug-01 01:00	11.4	WNW	3.05	Aug-01	96.2%
NO (ppb)			Henry Pirker	1.8	-	-	52.5	Aug-28 06:00	5.6	NW	5.5	Aug-28	100.0%
NO ₂ (ppb)	212	106	Henry Pirker	5.0	0	0	16.4	Aug-27 21:00	6.6	NW	7.9	Aug-29	100.0%
NO _x (ppb)			Henry Pirker	6.8	-	-	66.7	Aug-28 06:00	5.6	NW	12.9	Aug-27	100.0%
NO (ppb)			Beaverlodge	0.4	-	-	11.9	Aug-30 08:00	3.4	SW	1.8	Aug-30	100.0%
NO ₂ (ppb)	212	106	Beaverlodge	2.3	0	0	10.5	Aug-18 06:00	4.1	N	4.2	Aug-18	100.0%
NO _x (ppb)			Beaverlodge	2.7	-	-	17.2	Aug-22 08:00	1.1	SSE	5.4	Aug-30	100.0%
NO (ppb)			Portable-Falher	0.5	-	-	5.5	Aug-10 07:00	3.4	E	1.7	Aug-10	100.0%
NO ₂ (ppb)	212	106	Portable-Falher	1.6	0	0	8.8	Aug-02 22:00	4.8	SSE	2.6	Aug-02	100.0%
NO _x (ppb)			Portable-Falher	1.8	-	-	9.2	Aug-02 22:00	4.8	SSE	3.5	Aug-10	100.0%
O ₃ (ppb)	82		Henry Pirker	21.7	0	-	48.5	Aug-02 17:00	11.2	E	29.2	Aug-07	100.0%
O ₃ (ppb) - 8-hr		65	Henry Pirker			0					41.6	Aug-02	
O ₃ (ppb)	82		Beaverlodge	21.1	0	-	45.4	Aug-16 14:00	16.5	E	30.9	Aug-07	100.0%
O ₃ (ppb) - 8-hr		65	Beaverlodge			0					38.8	Aug-16	
O ₃ (ppb)	82		Portable-Falher	17.9	0	-	42.7	Aug-19 16:00	6.8	W	24.8	Aug-17	100.0%
O ₃ (ppb) - 8-hr		65	Portable-Falher			0					39.0	Aug-19	
CO (ppm)	13		Henry Pirker	0.11	0	-	0.3	Aug-22 08:00	5.7	SSW	0.2	Aug-30	100.0%
CO (ppm) - 8-hr		5	Henry Pirker			0					0.2	Aug-02	
THC (ppm)			Henry Pirker	1.97	-	-	2.7	Aug-02 12:00	7.7	W	2.2	Aug-02	100.0%
TRS (ppb)			Henry Pirker	0.3	-	-	1.0	Aug-10 09:00	6.8	ESE	0.4	Aug-24	100.0%
TRS (ppb)			Evergreen Park	0.4	-	-	2.5	Aug-24 07:00	3.8	S	0.6	Aug-10	100.0%
TRS (ppb)			Smoky Heights	0.3	-	-	1.3	Aug-20 03:00	13.9	WSW	0.5	Aug-02	98.5%
TRS (ppb)			Portable-Falher	0.5	-	-	2.0	Aug-10 06:00	4.7	E	0.7	Aug-10	100.0%
H ₂ S (ppb)	10	3	Valleyview	0.1	0	0	9.4	Aug-29 16:00	2.3	N	0.7	Aug-29	96.2%
PM _{2.5} (µg/m ³)		30 ^a	Henry Pirker	2.5	0	0	16.0	Aug-10 09:00	6.8	ESE	6.4	Aug-02	98.1%
PM _{2.5} (µg/m ³)		30 ^a	Evergreen Park	2.9	0	0	25.8	Aug-07 10:00	21.4	W	8.8	Aug-07	99.3%
PM _{2.5} (µg/m ³)		30 ^a	Smoky Heights	1.6	0	0	13.5	Aug-06 08:00	10.3	SSE	5.1	Aug-02	97.4%
PM _{2.5} (µg/m ³)		30 ^a	Beaverlodge	2.2	0	0	24.8	Aug-01 20:00	5.0	E	6.7	Aug-02	96.1%

PASZA Monthly Continuous Data Summary - continued

Aug-2007		Peace Airshed Zone Association					Maximum Recorded Values					
							1-hr			24-hr / 8-hr		
RH (%)		Henry Pirker	74.4	-	-	-	-	-	-	-	-	100.0%
RH (%)		Beaverlodge	72.5	-	-	-	-	-	-	-	-	100.0%
RH (%)		Portable-Falher	78.0	-	-	-	-	-	-	-	-	86.2%
RH (%)		Valleyview	77.4	-	-	-	-	-	-	-	-	96.5%
SR (W/m ²)		Henry Pirker	157.9	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Henry Pirker	13.8	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Evergreen Park	13.4	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Smoky Heights	13.2	-	-	-	-	-	-	-	-	98.5%
Temp (°C)		Beaverlodge	13.4	-	-	-	-	-	-	-	-	100.0%
Temp (°C)		Portable-Falher	14.0	-	-	-	-	-	-	-	-	86.2%
Temp (°C)		Valleyview	13.5	-	-	-	-	-	-	-	-	96.5%
WSPD v (km/hr)		Henry Pirker	9.9	-	-	30.9	Aug-20 10:00	30.9	WSW	17.9	Aug-20	100.0%
WSPD v (km/hr)		Evergreen Park	5.9	-	-	26.4	Aug-20 11:00	26.4	W	13.0	Aug-20	100.0%
WSPD v (km/hr)		Smoky Heights	2.2	-	-	17.1	Aug-03 03:00	17.1	WSW	22.3	Aug-20	98.5%
WSPD v (km/hr)		Beaverlodge	7.4	-	-	32.5	Aug-20 11:00	32.5	W	15.6	Aug-07	100.0%
WSPD v (km/hr)		Portable-Falher	8.6	-	-	28.5	Aug-17 16:00	28.5	E	16.4	Aug-17	99.1%
WSPD v (km/hr)		Valleyview	4.6	-	-	16.9	Aug-14 17:00	16.9	WNW	11.6	Aug-21	96.5%
WSPD s (km/hr)		Henry Pirker	10.8	-	-	31.2	Aug-20 10:00	31.2	WSW	19.0	Aug-20	100.0%
WSPD s (km/hr)		Evergreen Park	6.8	-	-	26.7	Aug-20 12:00	26.7	W	14.2	Aug-20	100.0%
WSPD s (km/hr)		Smoky Heights	10.2	-	-	36.2	Aug-20 14:00	36.2	W	23.0	Aug-20	98.5%
WSPD s (km/hr)		Beaverlodge	7.9	-	-	32.7	Aug-20 11:00	32.7	W	16.9	Aug-07	100.0%
WSPD s (km/hr)		Portable-Falher	9.1	-	-	28.7	Aug-17 16:00	28.7	E	16.9	Aug-17	99.1%
WSPD s (km/hr)		Valleyview	5.1	-	-	17.3	Aug-14 17:00	17.3	WNW	12.1	Aug-21	96.5%
WDIR		Henry Pirker	W	-	-	-	-	-	-	-	-	100.0%
WDIR		Evergreen Park	W	-	-	-	-	-	-	-	-	100.0%
WDIR		Smoky Heights	W	-	-	-	-	-	-	-	-	98.5%
WDIR		Beaverlodge	WNW	-	-	-	-	-	-	-	-	100.0%
WDIR		Portable-Falher	NNW	-	-	-	-	-	-	-	-	99.1%
WDIR		Valleyview	NW	-	-	-	-	-	-	-	-	96.5%

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 August 1st (NO_x and O₃) and August 2nd (SO₂, TRS, THC, CO and TEOM). A follow-up Alberta Environment audit was performed on the NO_x analyzer on August 22nd.

Parameter	Make	Model	Notes
SO ₂	TECO	43	No operational issues observed.
NO _x /NO/NO ₂	TECO	42C	No operational issues observed.
O ₃	API	400	No operational issues observed.
CO	TECO	48C	No operational issues observed.
THC	TEI	51-CLT	No operational issues observed.
TRS	TEI	42C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Eleven (11) 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 August 7th (SO₂, TRS and TEOM). A follow-up Alberta Environment audit was performed on the TEOM analyzer on August 22nd.

Parameter	Make	Model	Notes
SO ₂	API	100	No operational issues observed.
TRS	TEI	42C	No operational issues observed.
PM _{2.5}	R&P	1400AB	A power bump on August 16 th resulted in one (1) hour of invalid data. Four (4) 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 August 8th (TRS) and 9th (TEOM). Removal (TECO 43I) and installation (TECO 43C) calibrations were performed on August 8th and 9th for the SO₂ analyzers. Two power failures (Aug 1st and 14th) resulted in a total of six (6) hours of invalid data for all parameters. A total of five (5) hours were flagged invalid due to communication and server errors for all parameters. A follow-up Alberta Environment audit was performed on the TEOM analyzer on August 23rd.

Parameter	Make	Model	Notes
SO ₂	API	100A	On August 8 th and 9 th the TECO 43I analyzer was replaced with the TECO 43C analyzer (the 43I analyzer sent back to factory for repair). Seventeen (17) hours were attributed to maintenance while analyzer stabilized overnight. As noted above six hours attributed to power failures and five hours to communication errors.
TRS	TEI	42C	As noted above six hours attributed to power failures and five hours to communication error.
PM _{2.5}	R&P	1400AB	Six (6) hours were removed due to excessive baseline drift. The TEOM had a total eight (8) hours of invalid data due to power failures and five hours to communication error.
AT	Met One	083D	As noted above six hours attributed to power failures and five hours to communication and processing errors.
WS	Met One	010C	As noted above six hours attributed to power failures and five hours to communication errors .
WD	Met One	020C	As noted above six hours attributed to power failures and five hours to communication errors..

PASZA – Beaverlodge Station

General Station Issues

Routine monthly calibrations were performed on August 23rd (NO_x) and 24th (SO₂, O₃ and TEOM). A follow-up Alberta Environment audit was performed on the SO₂ analyzer on August 23rd.

Parameter	Make	Model	Notes
SO ₂	TECO	43CTL	No operational issues observed.
NO _x /NO/NO ₂	TECO	42C	No operational issues observed.
O ₃	API	400	No operational issues observed.
PM _{2.5}	R&P	1400AB	Twenty-nine (29) 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 – Falher (Portable) Station

General Station Issues

Final removal calibrations were performed on August 28th (NO_x) and August 29th (SO₂, TRS and O₃). The station was powered off on August 29th and was moved to the Spirit River Site on August 31st. A follow-up Alberta Environment audit was performed on the TRS analyzer on August 23rd.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NO _x /NO/NO ₂	TECO	43C	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		Total of five (5) hours was flagged for maintenance while attempting to repair the temperature and relative humidity sensors.
WD	Gill Met Pak 3		Total of five (5) hours was flagged for maintenance while attempting to repair the temperature and relative humidity sensors.

PASZA – Valleyview Station

General Station Issues

Routine monthly calibrations were performed on August 15th and 16th SO₂ and H₂S (SO₂ calibration was started on August 15th but cylinder ran out so it was completed on August 16th). Power failures resulted in twenty-eight (28) hours of invalid data for the SO₂ and H₂S analyzers and twenty-six (26) hours of invalid data for the meteorological sensors. A follow-up Alberta Environment audit was performed on the H₂S analyzer on August 1st.

Parameter	Make	Model	Notes
SO ₂	ML	332	As noted above twenty-eight hours attributed to power failures.
H ₂ S	TEI	43C	As noted above twenty-eight hours attributed to power failures.
AT	Gill Met Pak 3		As noted above twenty-six hours attributed to power failures.
RH	Gill Met Pak 3		As noted above twenty-six hours attributed to power failures.
WS	Gill Met Pak 3		As noted above twenty-six hours attributed to power failures.
WD	Gill Met Pak 3		As noted above twenty-six hours attributed to power failures.

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: August 1, 2007 to September 1, 2007

Alberta's Air Quality Index

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

Summary

Number of 1-hr Good Readings:	699
Number of 1-hr Fair Readings:	0
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

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

PASZA - Henry Pirker Sulphur Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

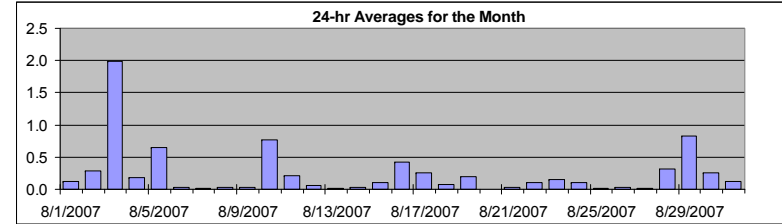
Sulphur Dioxide (SO₂)

Monitoring Dates: August 1, 2007 to September 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:	13.7 ppb	3-Aug	20:00	21:00
Maximum 24-hr Average:	2.0 ppb	3-Aug		



AIC Time:	32 hrs	Operational Time:	710 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.3	0.9	0.2	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 Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.1	1.0
2-Aug-07	0	0	0	0	0	A	0	C	C	A	1	1	0	0	0	0	0	1	0	0	1	1	0	0	0.3	1.0
3-Aug-07	0	0	0	0	0	A	1	1	0	4	5	3	2	1	0	0	0	0	0	1	14	8	3	1	2.0	13.7
4-Aug-07	1	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	0.8
5-Aug-07	0	0	0	A	0	1	1	1	1	1	2	1	2	1	1	1	0	0	1	1	0	0	0	0	0.6	2.0
6-Aug-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	0.3
7-Aug-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	0.3
8-Aug-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	0.4
9-Aug-07	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	0.2
10-Aug-07	0	1	0	0	0	0	0	1	1	2	2	3	3	1	1	1	1	0	0	0	0	A	0	0	0.8	2.9
11-Aug-07	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	A	1	0	0	0.2	1.3
12-Aug-07	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.7
13-Aug-07	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
14-Aug-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	0.0	0.2
15-Aug-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	0.1	0.5
16-Aug-07	0	0	0	0	0	0	0	0	0	1	1	1	2	3	1	A	1	0	0	0	0	0	0	0	0.4	2.5
17-Aug-07	0	0	0	0	0	0	0	0	0	0	0	1	1	1	A	1	1	0	0	0	0	0	0	0	0.3	0.9
18-Aug-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	0.1	1.0
19-Aug-07	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0.2	0.6
20-Aug-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	0.0
21-Aug-07	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	0.3
22-Aug-07	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
23-Aug-07	0	0	0	0	0	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
24-Aug-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	0.1	1.4
25-Aug-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
26-Aug-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	0.1
27-Aug-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	0.2
28-Aug-07	A	0	0	0	0	0	0	0	1	2	1	1	1	0	0	0	0	0	2	0	0	0	0	A	0.3	1.8
29-Aug-07	0	0	0	0	0	0	0	0	1	1	1	6	2	2	5	0	0	0	0	0	0	0	A	0	0.8	6.0
30-Aug-07	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	A	0	0	0.3	0.8
31-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	A	0	0	0	0.1	0.5
Hourly Avg	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.4	0.6	0.7	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.6	0.3	0.2	0.1		
Hourly Max	0.8	0.7	0.7	0.5	0.3	0.6	0.9	1.5	0.7	3.6	5.0	6.0	2.9	2.5	5.3	1.0	0.9	0.8	1.8	1.4	13.7	7.5	3.4	1.0		

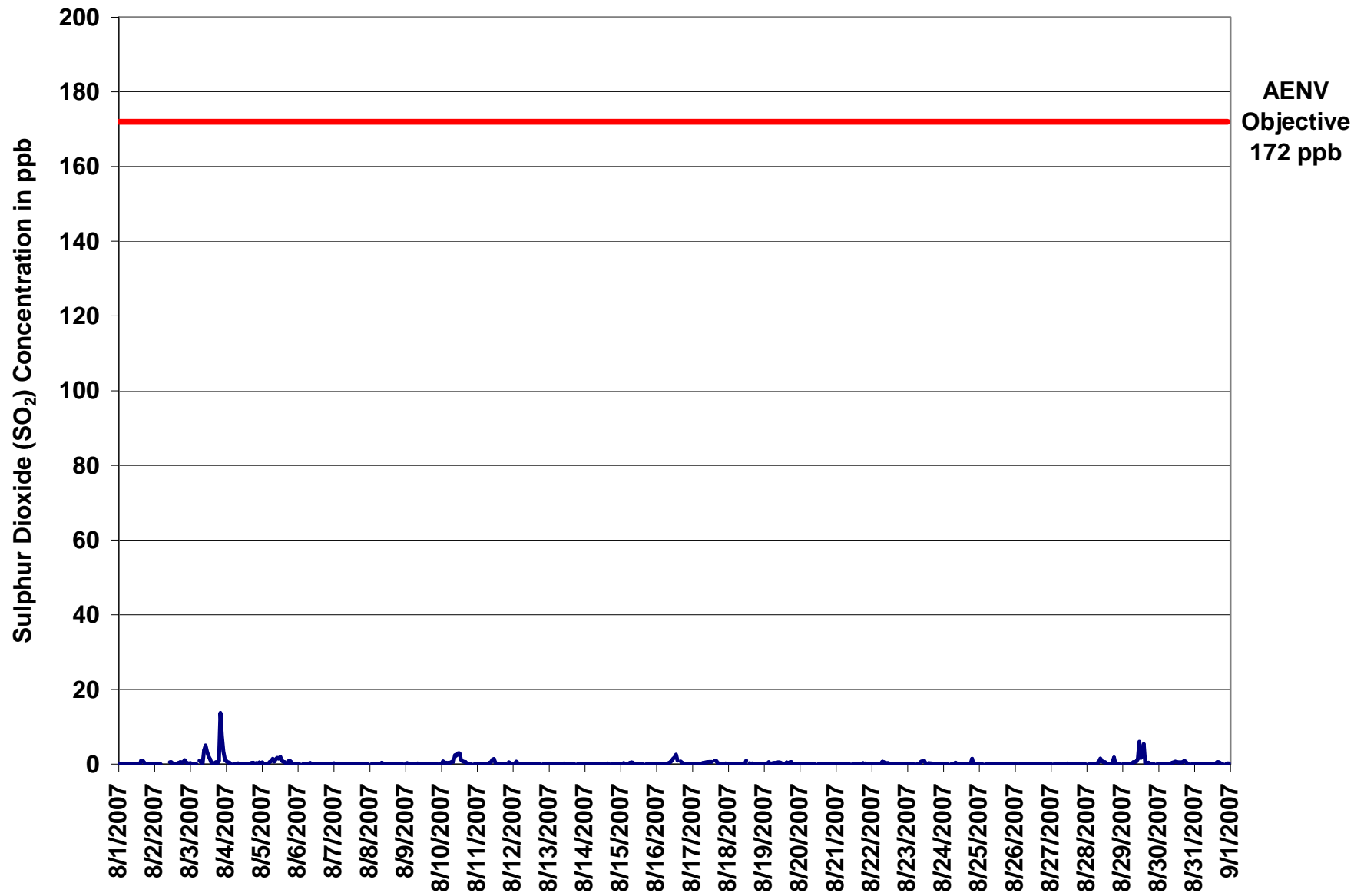


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

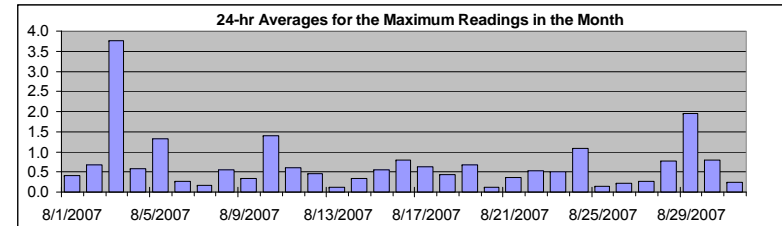
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

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

Summary

Maximum 1-hr Value:	21.4	ppb	3-Aug	20:00 21:00
Maximum 24-hr Value:	3.8	ppb	3-Aug	



AIC Time:	32 hrs	Operational Time:	710 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	8.2	2.0	0.5	0.5	0.1	0.0	0.0	0.7 ppb	0.5 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

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	24-hour Average	Daily Maximum
1-Aug-07	0	0	0	0	0	1	1	0	1	0	1	1	0	0	0	2	2	1	1	0	0	0	0	0	0.4	2.1
2-Aug-07	0	0	1	0	1	A	1	C	C	A	1	1	1	1	1	1	1	1	1	2	1	1	1	1	0.7	1.7
3-Aug-07	1	0	0	0	0	A	1	2	1	8	8	5	3	2	1	1	1	1	11	21	12	5	1	3.8	21.4	
4-Aug-07	1	1	1	0	A	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	0.6	1.0	
5-Aug-07	1	0	0	A	0	1	2	2	1	3	3	2	3	2	5	1	1	1	2	2	1	0	0	1.3	4.5	
6-Aug-07	0	0	A	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
7-Aug-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	0.5	
8-Aug-07	A	0	1	0	0	0	0	1	5	0	0	0	1	0	2	0	0	0	0	0	1	1	1	A	0.6	5.5
9-Aug-07	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.5	
10-Aug-07	0	1	1	1	1	0	0	1	1	3	4	6	4	2	1	1	1	0	0	0	0	A	0	1.4	5.6	
11-Aug-07	0	0	0	0	0	0	0	0	1	0	2	2	1	1	0	0	0	2	1	A	1	1	1	0.6	2.0	
12-Aug-07	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	2	1	1	1	A	0	0	1	0.5	2.0	
13-Aug-07	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0.1	0.5	
14-Aug-07	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	0.3	1.0	
15-Aug-07	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0	0	A	1	0	0	1	0	0	0.5	1.0	
16-Aug-07	0	0	0	0	0	0	0	0	0	1	1	2	2	4	2	A	1	0	0	0	0	0	0	0.8	3.5	
17-Aug-07	0	0	0	0	0	0	1	0	1	1	1	1	1	1	A	1	1	0	0	0	0	0	0	0.6	1.0	
18-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	2	A	0	0	0	0	0	0	0	0	0	0.4	2.0	
19-Aug-07	0	0	0	3	0	0	1	0	0	0	0	0	A	0	0	1	0	1	2	0	1	1	0	0.7	3.0	
20-Aug-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	
21-Aug-07	0	0	0	0	0	0	1	0	0	0	A	0	1	1	0	0	0	1	2	1	1	1	0	0.4	2.0	
22-Aug-07	0	0	0	1	0	0	1	3	1	1	1	1	1	1	0	1	1	0	1	1	0	0	0	0.5	2.5	
23-Aug-07	0	0	0	0	0	A	1	1	1	2	1	2	1	0	1	1	1	1	1	1	0	0	0	0.5	1.5	
24-Aug-07	0	0	0	1	A	0	2	0	2	1	0	1	0	0	0	0	0	1	1	16	1	1	0	1.1	16.0	
25-Aug-07	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
26-Aug-07	0	0	A	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0.2	1.1	
27-Aug-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.3	1.2	
28-Aug-07	A	0	0	1	0	0	1	1	1	2	1	1	1	0	0	0	0	1	3	1	0	0	0	A	0.8	2.9
29-Aug-07	0	0	0	0	0	0	1	1	1	1	2	9	5	9	10	1	0	1	0	0	0	A	0	2.0	9.6	
30-Aug-07	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	1	1	4	3	1	1	A	0	0.8	3.7	
31-Aug-07	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	A	0	0	0.2	1.1	
Hourly Avg	0.3	0.3	0.4	0.4	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.3	1.1	0.8	0.9	0.6	0.5	0.6	0.8	1.3	1.2	0.8	0.4	0.4		
Hourly Max	1.1	1.0	1.0	3.0	0.9	1.0	1.5	2.5	5.5	8.2	8.1	9.1	5.0	8.9	9.6	2.1	1.6	3.7	3.1	16.0	21.4	12.2	5.2	1.5		

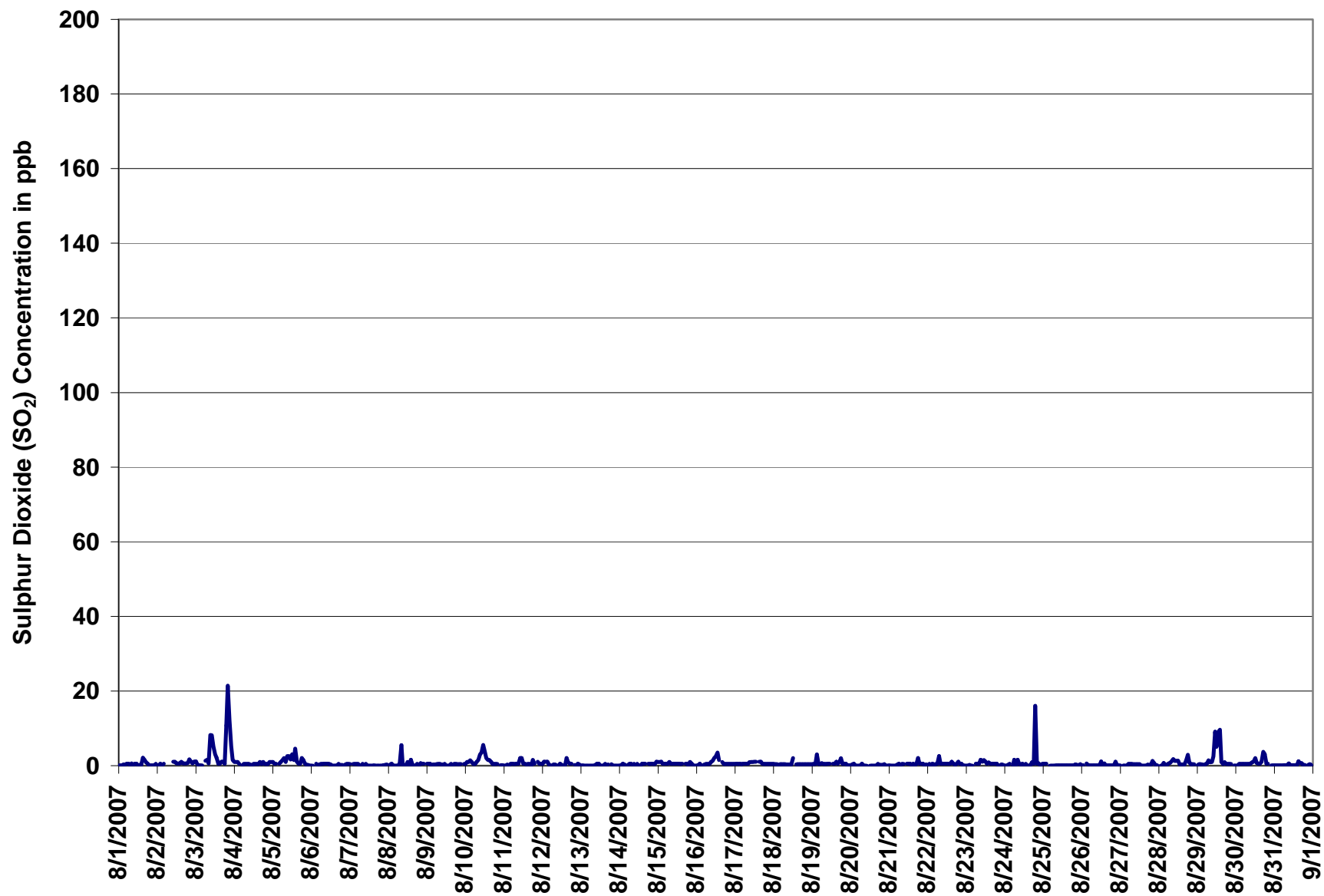
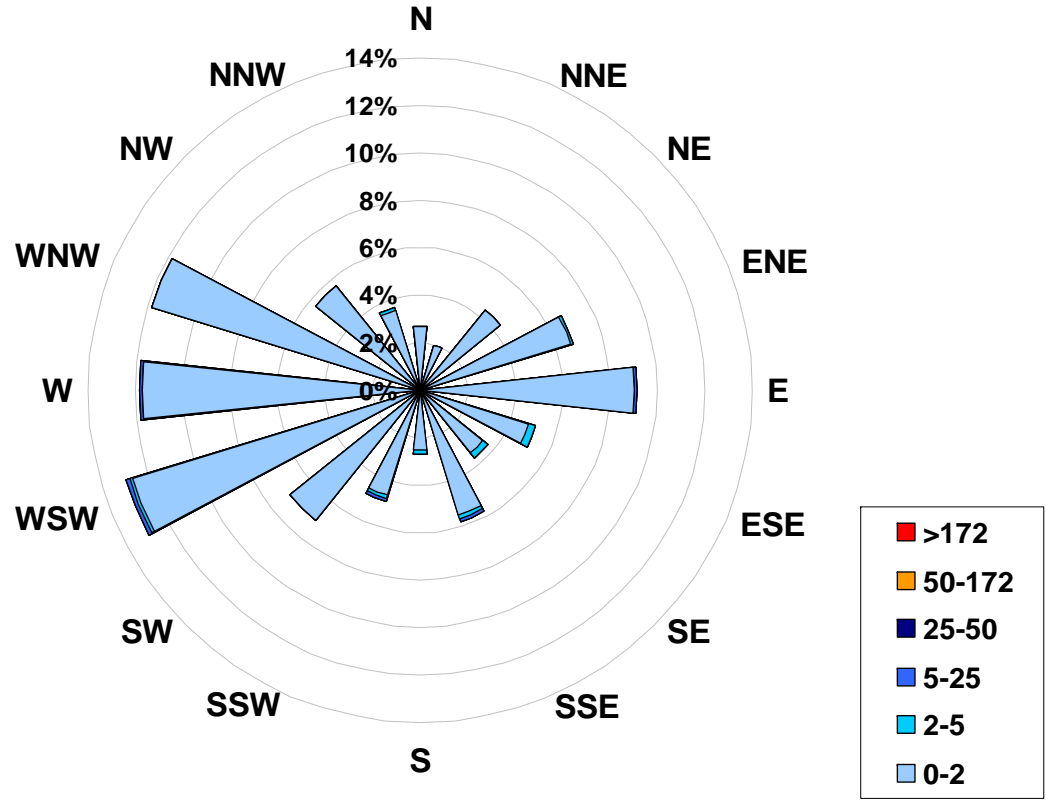


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			
Range		Frequency (hrs)	
0.0	< 2	695	
2	to 5	10	
5	to 25	5	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			710

PASZA - Henry Pirker Nitrogen Dioxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

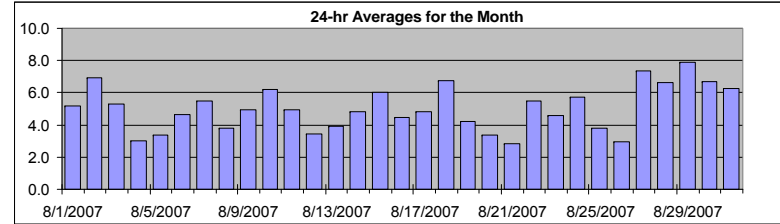
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

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

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

Number of 1-hr Exceedances:	0				
Number of 24-hr Exceedances:	0				
Maximum 1-hr Average:	16.4	ppb	27-Aug	21:00	22:00
Maximum 24-hr Average:	7.9	ppb	29-Aug		



AIC Time:	31 hrs	Operational Time:	704 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	14.2	11.2	6.7	4.1	2.7	1.6	1.1	5.0 ppb	4.1 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-Aug-07	3	3	3	3	4	9	8	5	4	3	4	C	C	C	C	C	6	4	4	4	7	9	9	8	5.2	9.4
2-Aug-07	10	8	9	5	10	A	16	12	9	12	8	7	4	3	3	3	3	3	3	5	7	11	6	3	6.9	15.6
3-Aug-07	3	2	3	2	3	A	15	11	7	5	10	10	7	7	3	3	2	3	3	5	6	5	4	3	5.3	15.2
4-Aug-07	3	2	2	2	A	5	4	3	3	2	2	2	2	1	1	1	1	2	2	2	5	9	5	6	3.0	9.4
5-Aug-07	4	3	2	A	6	5	3	3	4	3	2	2	2	2	1	2	2	1	3	2	3	4	10	8	3.4	10.5
6-Aug-07	7	5	A	8	7	6	6	3	4	4	3	2	2	2	2	2	2	2	3	5	8	10	7	7	4.7	9.9
7-Aug-07	9	A	11	8	10	10	5	4	4	4	3	3	3	2	2	2	2	2	3	4	10	15	6	3	5.5	14.7
8-Aug-07	A	5	2	2	2	2	5	6	4	3	4	4	5	3	4	5	2	4	4	4	4	6	4	A	3.8	5.6
9-Aug-07	5	8	4	3	3	4	8	8	6	5	4	2	3	4	4	3	2	4	3	3	7	9	A	8	4.9	9.3
10-Aug-07	6	7	6	6	7	11	11	10	12	15	9	3	3	2	1	2	2	3	4	6	5	A	8	6	6.2	15.2
11-Aug-07	8	4	4	5	6	11	10	8	8	5	3	3	3	2	2	2	3	2	3	4	A	8	6	5	4.9	10.8
12-Aug-07	3	3	2	2	1	2	2	2	2	3	3	5	3	3	3	5	6	6	5	A	7	5	4	3	3.4	7.3
13-Aug-07	2	2	2	2	3	6	7	4	5	5	3	3	3	2	1	1	2	2	A	6	8	9	7	6	3.9	9.4
14-Aug-07	6	6	6	5	4	4	7	7	4	3	3	3	2	2	2	3	3	A	7	5	5	7	8	7	4.8	8.4
15-Aug-07	8	10	11	9	9	10	11	12	7	5	3	3	2	1	2	2	A	6	4	4	6	6	4	4	6.0	11.8
16-Aug-07	4	4	3	3	8	13	10	6	3	2	3	3	3	4	3	A	6	4	3	3	4	4	4	2	4.5	13.3
17-Aug-07	2	2	2	2	3	4	8	6	4	3	3	3	3	A	7	10	7	7	4	5	5	8	12	4.8	12.0	
18-Aug-07	5	4	5	7	7	6	10	11	13	12	9	5	5	A	5	4	4	2	3	4	5	11	9	9	6.7	13.2
19-Aug-07	4	6	5	4	3	4	6	6	4	4	4	3	A	5	3	5	3	3	3	7	4	5	3	3	4.2	6.6
20-Aug-07	2	2	2	2	2	7	10	8	3	3	2	A	5	5	3	2	3	2	2	3	4	2	2	1	3.4	10.4
21-Aug-07	1	1	1	1	1	2	4	4	3	1	A	4	2	2	2	2	2	2	3	6	9	8	3	2	2.8	9.1
22-Aug-07	3	4	3	3	4	6	7	C	C	C	C	6	5	5	2	4	8	2	3	6	12	10	8	8	5.5	12.2
23-Aug-07	8	9	4	5	4	A	8	7	3	3	1	1	1	1	1	2	2	3	4	6	6	5	6	7	4.6	9.3
24-Aug-07	7	9	10	8	A	12	11	10	10	6	3	2	2	2	2	3	4	4	6	6	8	4	3	2	5.7	11.6
25-Aug-07	3	4	3	A	5	5	9	12	5	4	3	4	2	2	2	2	2	2	2	2	5	5	3	2	3.8	12.2
26-Aug-07	1	1	A	3	2	2	2	3	2	2	2	2	2	4	2	2	3	2	2	2	4	11	7	8	3.0	11.2
27-Aug-07	10	A	8	6	6	11	12	10	12	12	5	5	3	2	2	2	2	2	4	4	14	16	15	8	7.4	16.4
28-Aug-07	A	10	9	7	10	10	14	12	10	5	4	3	3	2	1	1	1	2	4	7	13	10	8	A	6.6	14.1
29-Aug-07	5	4	5	5	6	8	14	14	13	9	12	9	5	5	6	3	4	9	11	10	10	9	A	7	7.9	14.0
30-Aug-07	4	3	3	3	4	7	12	12	7	4	4	7	9	5	5	5	7	10	15	12	5	A	6	4	6.7	15.3
31-Aug-07	3	4	3	2	4	8	10	12	11	7	6	4	3	3	4	6	8	7	6	4	A	10	10	8	6.3	12.1
Hourly Avg	4.9	4.7	4.5	4.3	5.0	6.8	8.4	7.7	6.2	5.1	4.4	3.9	3.4	3.0	2.7	2.9	3.6	3.6	4.3	4.8	6.7	7.9	6.3	5.5		
Hourly Max	10.2	10.5	11.2	9.3	10.4	13.3	15.6	14.0	13.5	15.2	11.5	9.8	9.3	6.5	5.7	6.5	10.1	10.3	15.3	11.8	14.2	16.4	15.0	12.0		

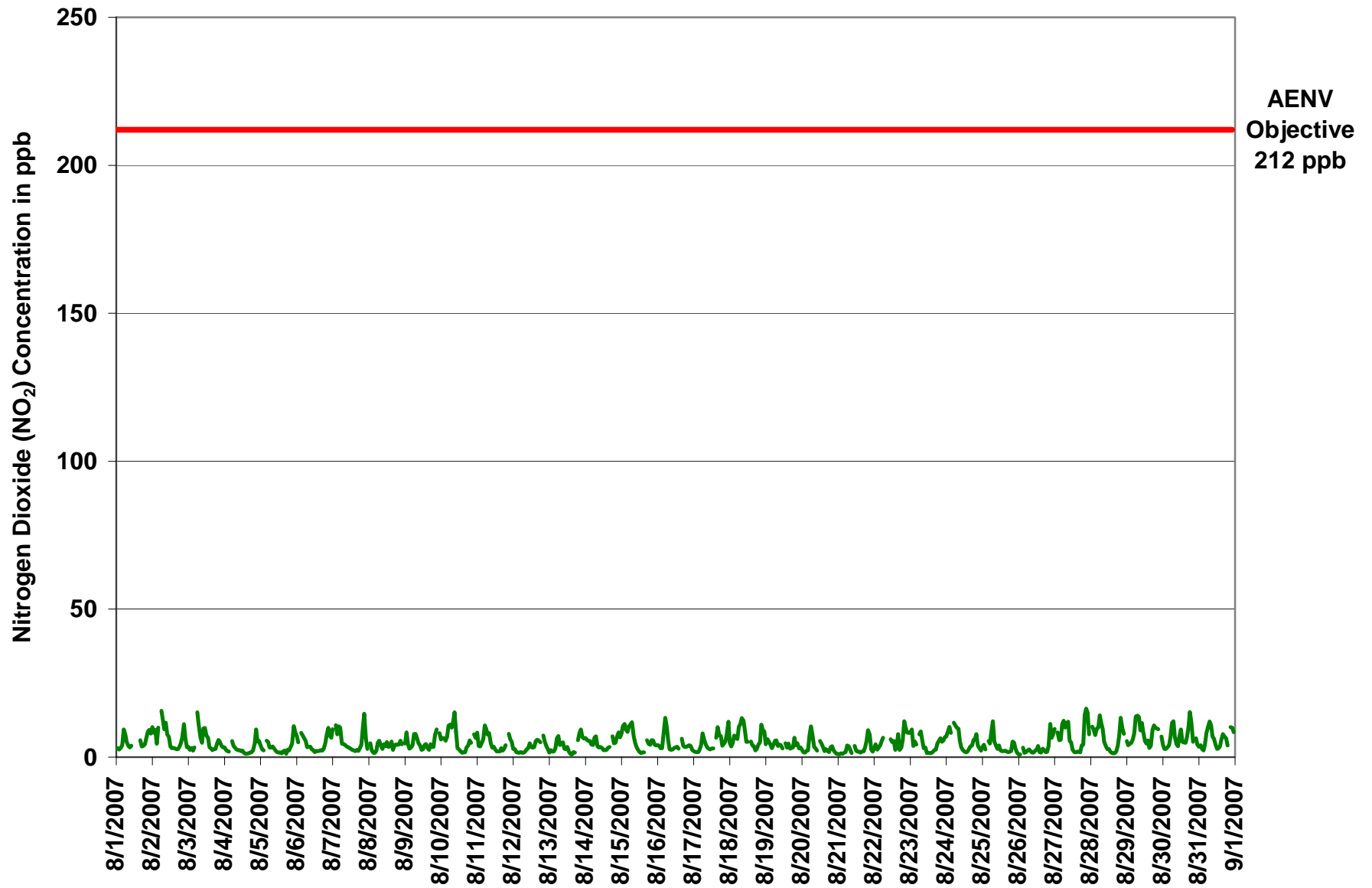


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

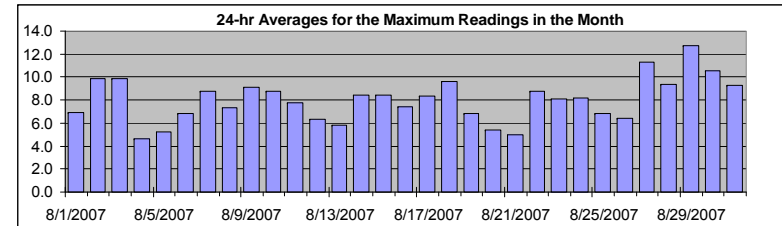
Nitrogen Dioxide (NO₂)

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

Summary

Maximum 1-hr Value:	45.5	ppb	29-Aug	7:00 8:00
Maximum 24-hr Value:	12.8	ppb	29-Aug	

AIC Time:	31 hrs	Operational Time:	704 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	21.2	16.3	10.8	6.9	4.4	2.5	2.0	8.0 ppb	6.9 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-Aug-07	3	4	4	4	7	11	11	7	5	5	5	C	C	C	C	8	5	6	8	8	10	12	10	7.0	12.0	
2-Aug-07	13	12	14	6	13	A	20	17	11	14	9	8	6	4	7	4	4	6	7	10	14	13	8	9.9	19.6	
3-Aug-07	7	4	5	4	4	A	21	22	11	30	18	16	11	12	5	5	4	4	3	9	9	10	5	5	9.9	30.0
4-Aug-07	5	5	2	2	A	9	4	4	4	3	3	3	3	2	2	3	2	2	2	5	8	13	9	8	4.7	13.5
5-Aug-07	7	3	3	A	9	7	4	4	5	4	3	2	2	2	2	4	4	1	4	3	7	7	15	14	5.2	15.2
6-Aug-07	10	7	A	12	8	7	7	4	4	5	4	4	2	2	4	4	4	4	5	7	12	12	13	6.8	12.5	
7-Aug-07	16	A	17	8	15	14	7	6	6	5	5	5	6	4	5	4	6	4	5	6	15	19	18	5	8.8	19.1
8-Aug-07	A	8	3	2	3	7	9	8	6	7	7	8	12	9	9	8	4	9	8	7	10	8	10	A	7.3	11.7
9-Aug-07	8	14	8	5	6	12	14	14	16	7	8	8	4	6	7	5	6	7	6	6	18	13	A	11	9.1	18.0
10-Aug-07	8	8	8	9	9	13	13	15	14	18	15	4	4	3	2	3	3	6	7	9	10	A	12	9	8.7	17.6
11-Aug-07	14	7	4	7	10	13	12	13	9	8	5	5	4	3	4	5	5	5	7	6	A	11	10	8	7.7	13.8
12-Aug-07	4	3	2	4	4	5	5	4	5	5	5	7	5	13	5	10	10	9	8	A	11	8	5	5	6.3	13.1
13-Aug-07	2	4	2	3	4	8	10	6	9	9	5	4	4	4	3	2	3	3	A	9	10	12	8	8	5.8	11.8
14-Aug-07	9	10	10	7	6	6	11	10	6	19	5	11	4	4	4	5	5	A	11	9	10	11	12	9	8.4	19.1
15-Aug-07	11	12	13	13	11	15	14	15	10	7	4	3	3	2	3	3	A	9	6	10	7	7	7	7	8.4	14.8
16-Aug-07	6	9	5	4	13	20	12	8	7	7	3	5	4	5	5	A	10	6	6	5	6	7	10	5	7.4	20.1
17-Aug-07	4	3	6	3	4	7	13	11	6	6	6	4	7	4	A	9	17	13	12	10	8	7	15	17	8.3	17.3
18-Aug-07	7	5	9	11	9	9	15	18	16	15	11	9	6	A	8	5	4	3	5	6	8	16	12	11	9.6	17.8
19-Aug-07	7	9	8	10	4	7	9	7	5	9	8	6	A	8	4	7	4	6	5	10	7	7	4	4	6.8	10.4
20-Aug-07	3	2	3	4	4	10	13	10	5	5	4	A	9	6	6	4	5	3	3	9	6	3	3	2	5.4	12.8
21-Aug-07	2	2	2	2	3	4	7	7	5	2	A	6	3	2	3	3	3	3	5	11	15	13	6	3	4.9	14.7
22-Aug-07	6	11	3	5	5	7	8	C	C	C	C	7	8	9	3	10	12	7	6	9	19	13	13	15	8.8	19.4
23-Aug-07	15	13	8	7	6	A	11	12	14	5	6	2	3	3	4	6	5	8	10	10	14	8	8	9	8.1	15.3
24-Aug-07	10	12	11	13	A	14	16	12	11	8	4	4	3	2	4	4	6	7	7	11	12	6	4	3	8.2	15.6
25-Aug-07	5	11	4	A	7	7	14	17	9	5	4	7	5	4	3	4	4	3	4	5	12	12	4	3	6.8	16.9
26-Aug-07	1	2	A	6	2	2	3	5	3	3	3	4	10	11	5	6	8	6	4	8	7	19	18	9	6.4	18.9
27-Aug-07	14	A	12	8	11	14	14	13	13	16	8	8	5	3	4	3	5	4	8	9	26	26	19	16	11.3	26.5
28-Aug-07	A	13	12	10	12	12	19	15	12	9	6	3	4	3	2	3	2	3	7	13	17	12	14	A	9.4	19.4
29-Aug-07	9	6	6	9	11	13	26	45	18	13	20	11	8	6	7	4	6	12	13	14	12	14	A	9	12.8	45.5
30-Aug-07	7	3	3	7	8	12	15	15	10	7	5	11	12	9	6	8	16	17	22	19	11	A	10	5	10.6	22.1
31-Aug-07	4	5	4	4	7	12	18	17	16	10	8	7	4	5	6	11	15	10	8	6	A	12	12	11	9.3	17.8
Hourly Avg	7.6	7.3	6.7	6.5	7.5	9.9	12.1	12.0	9.1	9.0	6.9	6.3	5.7	5.4	4.6	5.5	6.4	6.2	7.1	8.5	11.3	11.4	10.4	8.5		
Hourly Max	15.9	14.3	17.3	13.3	15.1	20.1	25.6	45.5	18.4	30.0	19.7	16.3	12.3	13.1	8.7	11.4	16.6	17.5	22.1	19.2	25.7	26.5	19.3	17.3		

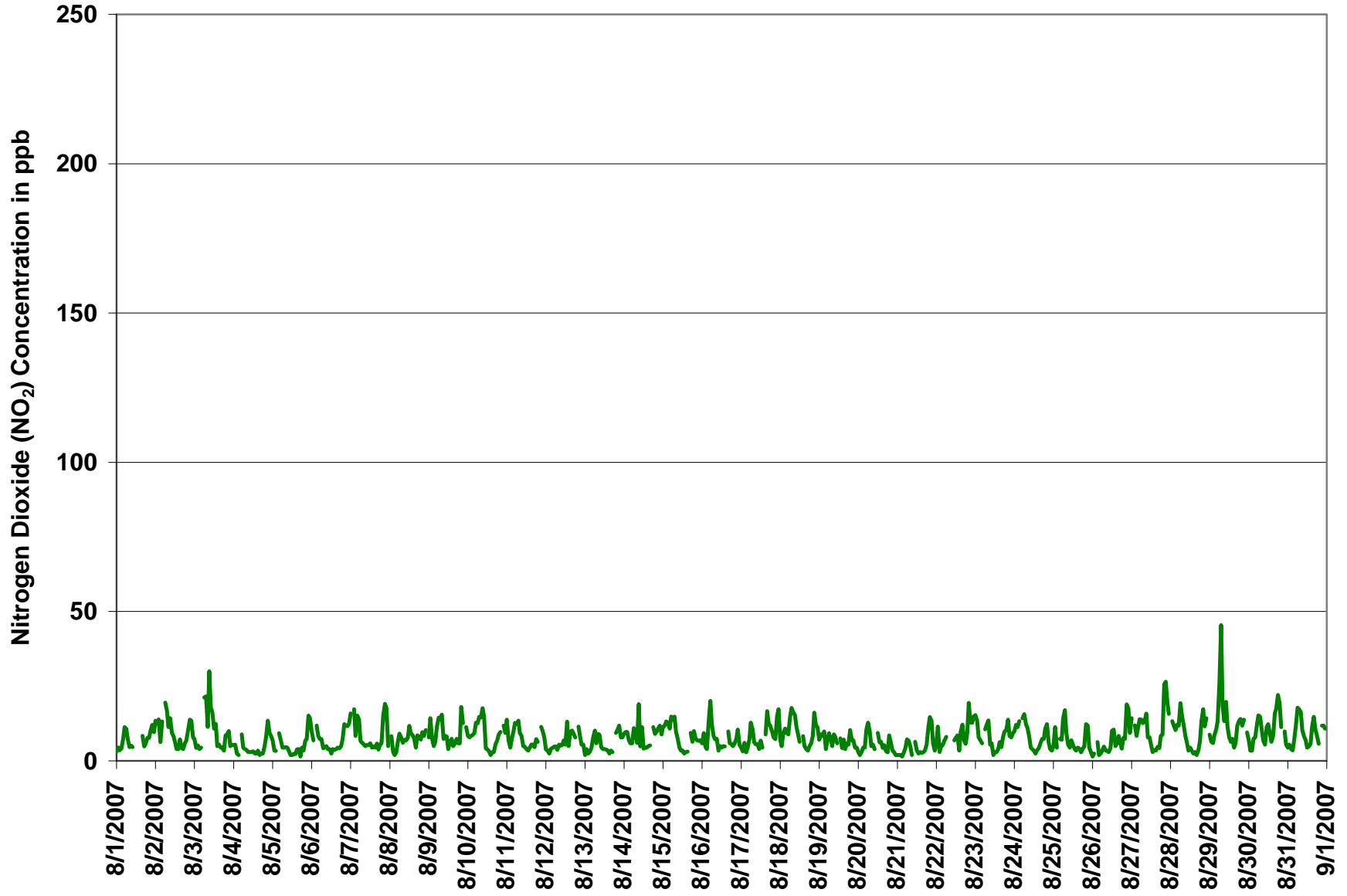
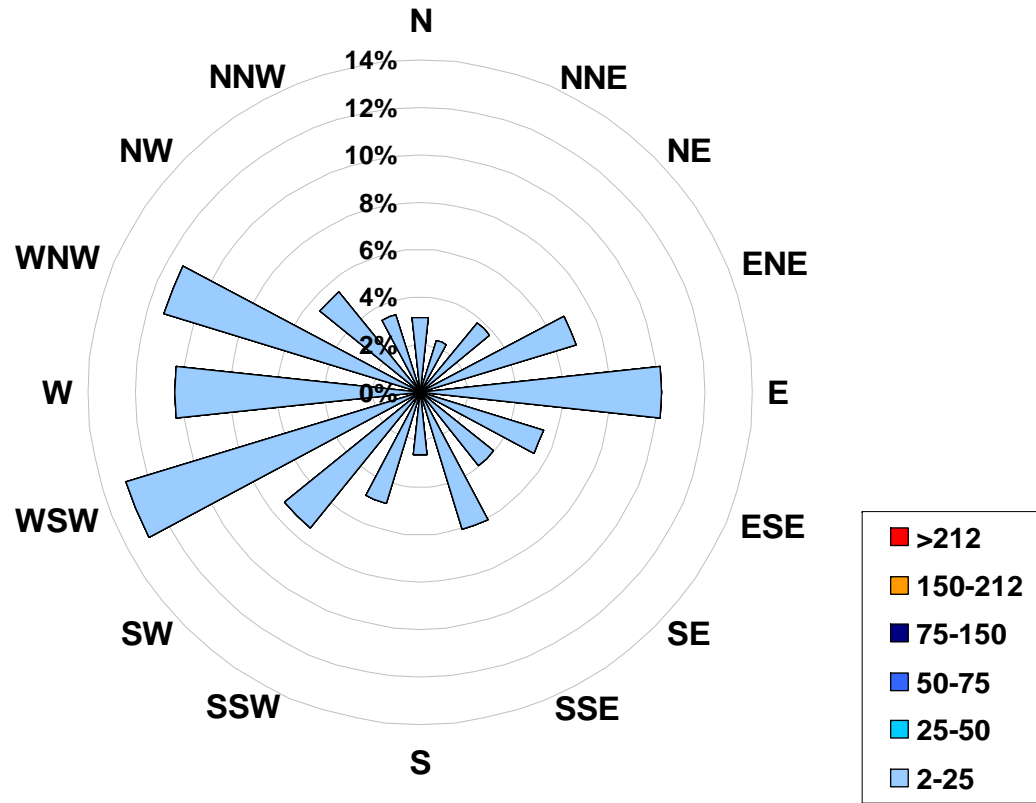


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of NO ₂ in ppb Range			Frequency (hrs)
2.0	<	25	701
25	to	50	2
50	to	75	1
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			704

PASZA - Henry Pirker Nitric Oxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

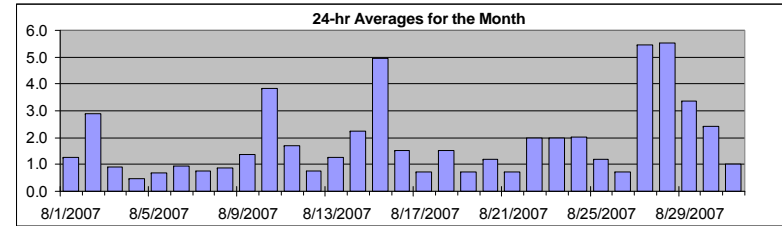
Nitric Oxide (NO)

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

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

Maximum 1-hr Average:	52.5	ppb	28-Aug	6:00 7:00
Maximum 24-hr Average:	5.5	ppb	28-Aug	

AIC Time:	31 hrs	Operational Time:	704 hrs					
Calibration Time:	9 hrs	AMD Operational Uptime:	100.0%					
Percentile 99	95	75	50	25	5	1	Average	Median
22.0	6.9	1.6	0.7	0.3	0.0	0.0	1.8 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	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-Aug-07	0	0	0	0	0	4	6	5	4	3	2	C	C	C	C	C	0	0	0	0	0	0	0	0	0	1.3	5.9
2-Aug-07	0	1	1	0	5	A	16	14	9	9	4	3	1	1	1	1	1	0	0	0	0	0	0	0	0	2.9	15.6
3-Aug-07	0	0	0	0	0	A	1	2	2	3	2	2	3	2	1	1	1	1	0	1	0	0	0	0	0	0.9	2.9
4-Aug-07	0	0	0	0	A	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0.5	0.9
5-Aug-07	1	0	0	A	0	1	1	2	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	3.3
6-Aug-07	0	0	A	0	0	1	4	3	4	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1.0	3.6
7-Aug-07	1	A	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0.8	1.4
8-Aug-07	A	0	0	0	0	1	2	2	2	1	1	1	2	1	1	1	1	1	1	0	0	0	0	A	0.9	1.9	
9-Aug-07	0	0	0	0	1	1	3	3	3	2	2	1	2	3	2	1	1	2	1	1	1	1	A	0	1.4	3.3	
10-Aug-07	0	0	1	0	1	4	14	20	21	15	6	1	1	1	0	0	1	1	0	0	0	A	0	0	3.8	21.3	
11-Aug-07	0	0	0	0	1	5	7	6	5	4	2	2	1	1	1	1	1	1	1	1	A	1	1	1	1.7	6.7	
12-Aug-07	0	0	0	0	0	1	0	1	1	1	1	2	1	2	1	1	1	1	1	A	1	1	0	0	0.8	1.6	
13-Aug-07	0	0	0	0	0	3	6	2	3	3	1	2	2	1	1	0	1	1	A	0	0	1	0	0	1.3	6.4	
14-Aug-07	1	2	2	1	1	1	7	10	4	4	3	2	2	1	1	2	2	A	2	1	0	1	2	1	2.2	10.2	
15-Aug-07	3	7	6	5	7	16	25	24	4	4	4	1	1	1	1	1	A	1	1	1	1	1	0	0	4.9	25.2	
16-Aug-07	0	0	0	0	1	6	7	5	2	2	2	1	1	1	1	A	1	1	1	1	1	1	1	0	1.5	7.3	
17-Aug-07	0	0	0	0	0	1	2	2	2	2	1	1	1	1	A	1	0	1	1	0	0	0	0	1	0.7	2.2	
18-Aug-07	0	0	0	1	0	1	2	4	5	6	5	4	3	A	1	0	0	0	0	0	0	0	0	0	1.5	6.5	
19-Aug-07	0	0	0	0	0	1	1	2	2	3	2	1	A	0	0	1	0	0	0	0	1	0	0	0	0.7	3.2	
20-Aug-07	0	0	0	0	0	2	6	5	2	2	1	A	2	1	1	1	1	1	1	1	1	0	0	0	1.2	5.5	
21-Aug-07	0	0	0	0	0	1	1	2	2	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	0.7	1.8	
22-Aug-07	0	2	0	1	1	3	16	C	C	C	C	4	3	3	1	1	2	1	1	1	1	0	0	0	2.0	15.5	
23-Aug-07	1	2	0	1	1	A	12	13	6	2	2	0	1	1	1	1	1	1	1	0	0	0	0	0	2.0	12.9	
24-Aug-07	0	0	1	1	A	2	6	7	11	5	3	2	1	1	1	1	1	1	1	1	1	0	0	0	2.0	11.1	
25-Aug-07	0	0	0	A	0	0	3	8	3	3	2	1	1	1	1	1	1	1	0	0	1	0	0	0	1.2	8.0	
26-Aug-07	0	0	A	0	0	0	0	1	1	1	1	1	2	4	1	1	1	1	0	0	0	1	1	0	0.7	3.5	
27-Aug-07	3	A	0	0	1	9	24	23	27	17	3	2	1	1	1	1	1	0	1	0	2	5	4	2	5.5	26.8	
28-Aug-07	A	0	1	1	2	10	52	22	16	6	3	1	1	1	0	0	0	0	0	0	1	1	0	A	5.5	52.5	
29-Aug-07	0	0	0	0	0	1	11	22	18	5	7	4	2	1	1	0	0	1	1	1	1	1	A	0	3.4	22.0	
30-Aug-07	0	0	0	1	1	2	5	9	5	2	3	4	4	1	1	1	5	3	3	3	0	A	0	0	2.4	9.5	
31-Aug-07	0	0	0	0	0	0	1	2	4	2	3	2	1	1	1	2	2	1	1	0	A	0	0	0	1.0	3.8	
Hourly Avg	0.4	0.6	0.5	0.5	0.9	2.8	7.8	7.4	5.7	3.8	2.4	1.8	1.5	1.2	0.8	0.8	1.0	0.8	0.7	0.6	0.6	0.6	0.4	0.3			
Hourly Max	2.9	7.2	6.1	4.6	7.0	15.7	52.5	23.5	26.8	16.6	7.5	4.1	3.6	3.5	2.3	1.9	4.8	3.0	3.4	3.3	2.4	4.8	3.8	1.5			

PASZA - Henry Pirker Oxides of Nitrogen Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

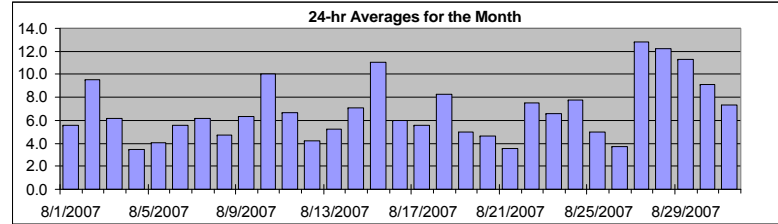
Oxides of Nitrogen (NO_x)

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

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

Maximum 1-hr Average:	66.7	ppb	28-Aug	6:00 7:00
Maximum 24-hr Average:	12.9	ppb	27-Aug	

AIC Time:	31 hrs	Operational Time:	704 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	33.3	17.8	8.1	5.0	3.3	1.9	1.4	6.8 ppb	5.0 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-Aug-07	2	2	2	2	3	12	12	8	6	5	5	C	C	C	C	C	5	3	4	4	6	8	9	7	5.6	12.3
2-Aug-07	10	9	9	4	15	A	31	26	18	21	11	9	4	3	3	3	3	3	3	5	7	11	6	3	9.5	30.8
3-Aug-07	3	2	3	2	3	A	16	12	8	8	11	12	10	9	4	3	3	3	3	5	6	5	4	4	6.2	16.2
4-Aug-07	3	3	2	2	A	6	4	4	3	3	3	3	3	2	2	2	2	2	2	3	5	10	6	6	3.5	9.9
5-Aug-07	5	3	3	A	6	6	4	6	7	5	3	2	2	2	2	2	3	1	3	3	4	5	11	9	4.1	10.6
6-Aug-07	7	5	A	8	8	7	9	6	7	6	4	3	2	3	3	3	3	3	3	5	8	10	7	7	5.5	9.9
7-Aug-07	10	A	11	8	11	11	5	5	5	5	5	4	4	3	3	3	3	3	4	5	10	15	7	3	6.2	15.1
8-Aug-07	A	5	2	2	2	3	6	7	5	4	6	5	7	5	5	6	3	5	5	5	6	5	A	A	4.7	7.4
9-Aug-07	5	9	5	3	4	5	11	11	9	7	6	4	4	7	7	4	3	6	4	4	8	10	A	8	6.3	11.2
10-Aug-07	6	7	7	6	8	15	25	30	33	30	15	4	3	2	2	2	2	4	4	6	5	A	8	7	10.0	33.3
11-Aug-07	8	4	4	5	7	15	16	14	13	8	5	5	4	3	3	3	4	3	3	5	A	9	7	6	6.6	16.3
12-Aug-07	3	3	2	2	2	2	2	2	3	4	4	6	5	5	5	7	7	7	6	A	8	6	4	3	4.2	7.8
13-Aug-07	2	3	2	2	3	9	14	7	8	8	4	4	6	3	2	1	2	2	A	6	9	10	7	7	5.2	13.6
14-Aug-07	7	7	7	7	5	6	14	17	8	8	6	5	4	4	4	5	5	A	9	5	5	8	10	8	7.1	17.3
15-Aug-07	11	18	17	14	16	26	36	35	11	9	7	4	3	2	2	2	A	7	5	6	7	7	5	4	11.0	36.3
16-Aug-07	5	4	3	3	9	20	18	11	5	4	4	4	4	4	4	A	7	5	4	4	5	5	4	3	6.0	19.8
17-Aug-07	2	2	2	2	3	5	10	7	6	5	4	3	4	4	A	7	11	8	8	4	5	5	8	13	5.6	12.7
18-Aug-07	5	4	5	8	7	7	12	15	18	19	14	9	8	A	6	4	4	3	3	5	5	11	9	9	8.3	18.8
19-Aug-07	5	6	6	4	3	5	7	8	6	8	6	4	A	5	4	5	3	3	4	7	4	5	3	3	5.0	7.6
20-Aug-07	3	2	2	2	2	9	16	13	6	5	3	A	7	6	4	3	4	3	2	4	4	2	2	1	4.6	15.9
21-Aug-07	1	1	1	1	2	2	5	6	4	2	A	5	3	3	3	2	3	3	4	7	10	9	3	2	3.6	10.3
22-Aug-07	3	6	3	4	5	9	22	C	C	C	C	10	8	8	3	5	10	3	4	7	13	10	9	9	7.5	22.1
23-Aug-07	9	11	4	6	5	A	20	22	12	5	2	2	2	2	2	2	3	3	5	6	7	5	6	7	6.6	21.6
24-Aug-07	7	9	11	9	A	14	17	17	21	10	6	4	3	2	3	4	5	5	7	7	8	4	3	2	7.8	20.8
25-Aug-07	4	4	3	A	6	5	11	20	8	7	4	5	3	3	3	3	3	2	2	2	6	5	3	2	5.0	20.2
26-Aug-07	1	1	A	3	2	2	3	3	3	2	2	3	5	7	3	2	4	3	2	2	4	12	7	8	3.7	12.2
27-Aug-07	12	A	9	6	7	20	37	33	38	29	8	7	4	2	2	3	2	2	5	4	17	21	19	9	12.9	38.3
28-Aug-07	A	11	10	8	12	20	67	34	25	11	7	4	4	3	2	2	2	2	4	8	14	10	8	A	12.2	66.7
29-Aug-07	6	4	5	5	6	9	24	36	31	14	19	12	8	6	7	4	4	10	12	11	10	10	A	7	11.3	36.0
30-Aug-07	4	3	3	4	5	9	17	22	12	7	6	11	13	7	6	6	12	13	19	15	6	A	6	4	9.1	21.6
31-Aug-07	4	4	3	2	4	8	11	14	15	9	9	6	4	4	5	8	10	8	7	4	A	10	10	9	7.3	14.6
Hourly Avg	5.3	5.2	5.0	4.7	5.8	9.5	16.2	15.0	11.8	8.9	6.7	5.6	4.9	4.1	3.5	3.7	4.5	4.3	5.0	5.4	7.3	8.5	6.7	5.8		
Hourly Max	12.2	17.7	17.4	14.0	15.5	26.3	66.7	36.0	38.3	29.8	19.0	12.3	12.9	8.6	6.7	7.6	11.7	13.4	18.7	15.1	16.6	21.2	18.8	12.7		

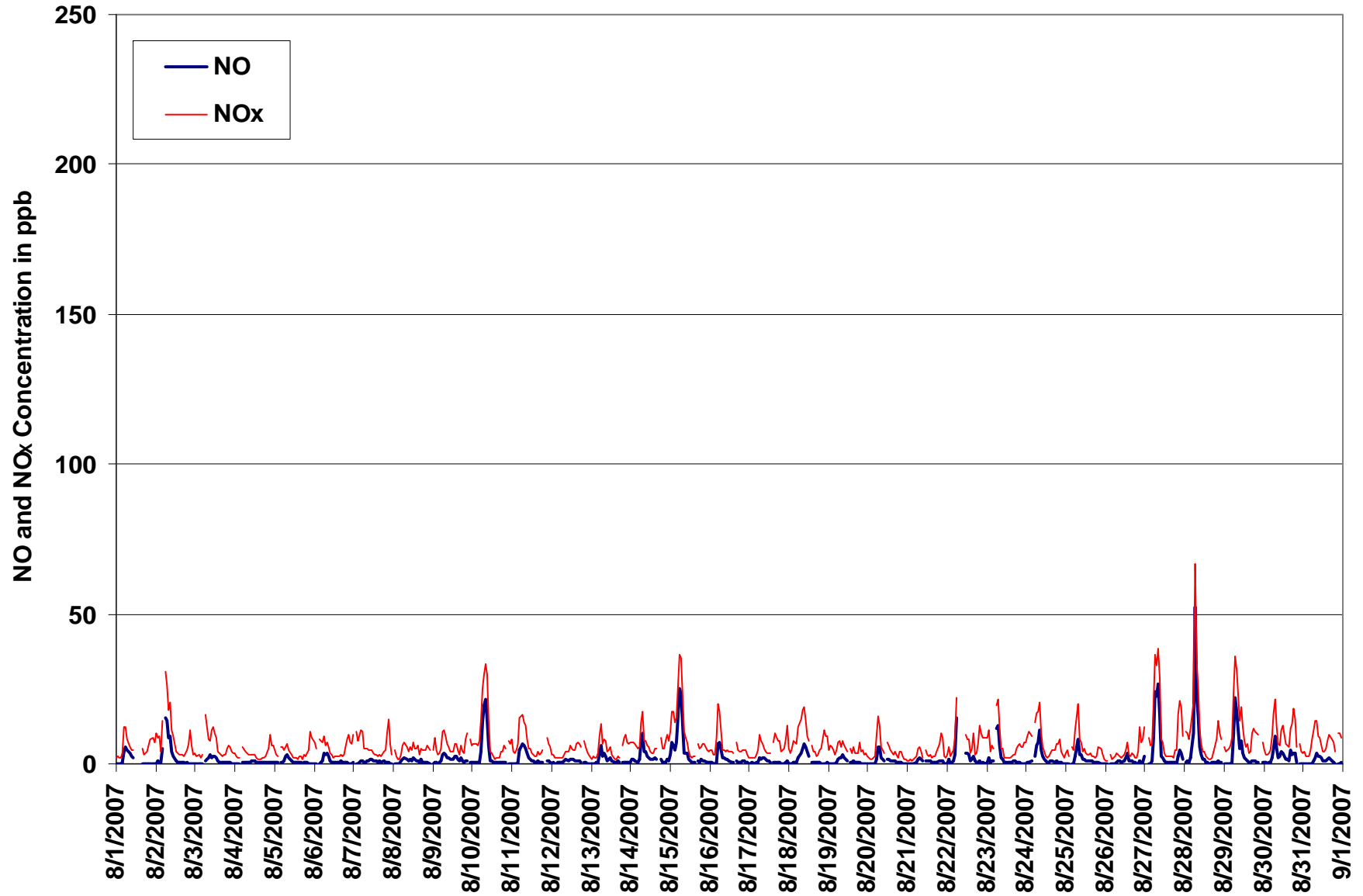


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

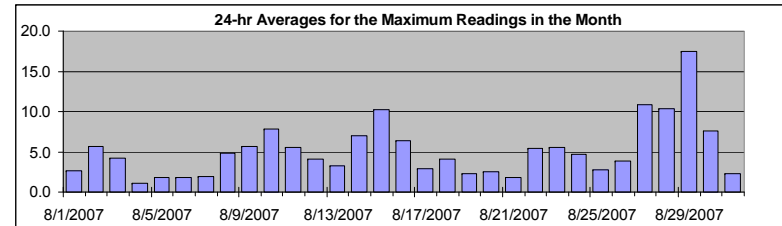
Nitric Oxide (NO)

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

Summary

Maximum 1-hr Value:	203.7	ppb	29-Aug	7:00 8:00
Maximum 24-hr Value:	17.5	ppb	29-Aug	

AIC Time:	31 hrs	Operational Time:	704 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	42.1	18.1	4.9	2.3	1.0	0.5	0.0	5.1 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	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Aug-07	0	0	1	0	2	11	9	8	5	6	3	C	C	C	C	1	0	2	1	1	1	1	0	2.7	10.6	
2-Aug-07	2	5	1	1	16	A	26	27	12	13	6	4	6	1	1	4	2	0	0	0	0	0	0	5.7	26.8	
3-Aug-07	0	2	0	2	0	A	2	8	15	33	5	6	6	5	1	1	1	1	1	1	2	0	0	4.2	32.8	
4-Aug-07	0	0	0	0	A	0	2	1	1	1	1	1	2	1	1	2	1	1	0	1	1	1	1	1.0	2.0	
5-Aug-07	1	1	1	A	0	1	2	4	6	4	3	2	0	0	4	1	1	0	1	0	2	1	0	1.8	5.7	
6-Aug-07	0	0	A	0	0	3	5	4	5	5	2	2	1	1	1	1	2	1	1	1	0	0	2	1.8	4.9	
7-Aug-07	2	A	0	0	4	3	1	1	3	2	3	3	3	2	2	1	2	1	1	1	2	1	1	2.0	4.3	
8-Aug-07	A	0	0	2	1	7	9	6	7	15	4	9	11	11	4	2	2	8	1	1	2	1	1	A	4.8	15.3
9-Aug-07	0	1	0	1	4	12	16	13	15	7	9	11	3	4	5	3	3	5	3	1	8	4	A	5.7	15.5	
10-Aug-07	1	0	2	3	2	10	23	43	43	23	13	2	1	1	1	1	1	1	1	1	3	A	1	7.8	43.4	
11-Aug-07	0	1	1	1	1	14	14	27	7	9	3	4	2	3	3	3	3	2	2	4	A	6	10	7	5.5	27.2
12-Aug-07	1	1	1	4	6	7	6	6	8	7	4	3	5	8	3	6	6	2	1	A	2	3	2	2	4.1	8.1
13-Aug-07	0	1	1	0	1	6	12	5	12	10	3	2	3	3	4	2	1	1	A	1	1	1	0	1	3.2	12.4
14-Aug-07	4	6	12	2	1	4	24	18	8	34	4	10	3	3	3	3	3	A	3	2	1	2	5	3	7.0	34.2
15-Aug-07	6	12	16	9	15	29	42	50	6	8	5	3	2	1	1	2	A	3	2	9	4	5	4	1	10.3	49.5
16-Aug-07	4	10	2	3	4	20	12	14	13	12	2	3	2	1	1	A	1	1	2	2	6	9	15	5	6.3	20.3
17-Aug-07	5	2	9	1	2	2	6	4	4	5	5	3	4	1	A	1	1	1	1	1	0	1	3	3	2.9	9.3
18-Aug-07	1	0	0	1	1	5	8	13	12	16	12	9	4	A	1	1	1	1	0	1	1	1	0	3	4.1	15.9
19-Aug-07	1	0	1	2	0	7	7	4	4	8	7	3	A	1	0	2	1	1	1	1	0	0	0	0	2.3	8.3
20-Aug-07	0	0	0	3	0	4	9	8	3	3	3	A	3	3	2	2	3	1	1	1	2	0	0	0	2.5	8.8
21-Aug-07	1	0	1	0	1	2	3	4	3	1	A	2	3	1	2	1	1	1	1	2	4	4	0	0	1.8	3.8
22-Aug-07	1	21	0	1	1	7	31	C	C	C	C	5	6	6	2	5	9	2	1	3	2	1	1	2	5.4	31.4
23-Aug-07	3	5	1	3	1	A	28	24	27	4	5	1	1	1	3	2	3	6	2	2	1	1	0	1	5.5	28.2
24-Aug-07	1	3	1	12	A	6	18	11	16	9	4	3	2	1	2	2	2	1	2	4	3	3	0	0	4.8	18.2
25-Aug-07	0	1	0	A	0	0	7	17	6	5	3	3	2	2	2	3	2	1	1	3	1	1	0	0	2.8	17.3
26-Aug-07	0	0	A	0	0	0	0	2	3	3	1	2	18	15	5	5	9	3	5	2	1	5	4	2	3.8	18.3
27-Aug-07	9	A	1	1	4	22	36	34	33	28	5	3	3	2	2	1	2	1	2	1	19	22	10	7	10.8	36.0
28-Aug-07	A	1	7	1	10	27	78	38	25	17	7	2	3	1	1	1	0	1	1	2	2	2	2	A	10.4	78.0
29-Aug-07	2	0	1	4	1	4	102	204	32	9	17	6	4	2	1	1	1	2	1	3	2	1	A	1	17.5	203.7
30-Aug-07	1	1	1	2	4	11	12	13	13	4	4	7	5	3	2	2	42	17	13	13	2	A	0	0	7.6	42.5
31-Aug-07	0	0	0	0	0	0	3	6	8	5	4	4	2	2	2	3	6	2	1	0	A	0	0	0	2.3	7.8
Hourly Avg	1.8	2.7	2.2	2.2	3.0	8.0	17.9	20.6	11.8	10.2	5.1	4.1	3.9	3.1	2.2	2.4	3.9	2.5	2.0	2.3	2.6	2.8	2.3	1.7		
Hourly Max	8.8	21.4	16.2	11.8	16.4	28.8	101.7	203.7	42.6	34.2	16.8	10.6	18.3	14.7	4.9	5.7	42.5	16.9	12.5	13.2	18.7	22.0	15.3	7.2		

Station: Henry Pirker
 Station Owner: PASZA

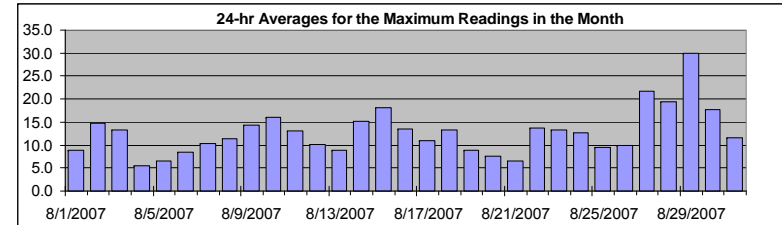
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

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

Summary

Maximum 1-hr Value:	245.3	ppb	29-Aug	7:00 8:00
Maximum 24-hr Value:	29.9	ppb	29-Aug	



AIC Time:	31 hrs	Operational Time:	704 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	55.6	34.2	14.7	9.3	6.3	3.4	2.2	12.7 ppb	9.3 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-Aug-07	3	4	3	3	8	21	18	14	8	9	7	C	C	C	C	C	9	5	7	8	8	10	12	9	8.8	20.5
2-Aug-07	15	16	15	6	29	A	45	43	22	25	15	12	8	5	5	11	6	4	6	7	10	14	14	8	14.8	44.7
3-Aug-07	8	6	5	5	4	A	23	29	18	58	22	22	16	17	6	7	6	6	4	10	10	12	5	6	13.3	58.0
4-Aug-07	5	6	2	2	A	9	6	4	5	4	4	4	5	3	4	5	3	3	3	5	9	15	10	10	5.6	14.9
5-Aug-07	8	4	4	A	9	8	6	8	10	8	5	4	3	2	3	5	5	2	5	4	8	8	15	16	6.6	16.2
6-Aug-07	10	7	A	12	9	10	11	8	9	10	6	6	3	5	5	5	6	5	6	8	13	12	12	14	8.4	13.6
7-Aug-07	17	A	17	9	19	16	8	7	7	7	8	8	9	7	6	6	8	5	7	7	17	19	18	5	10.3	19.4
8-Aug-07	A	8	3	3	4	13	18	12	13	15	11	16	23	18	13	9	6	17	9	8	11	9	11	A	11.4	22.7
9-Aug-07	8	15	8	6	9	24	30	25	30	14	17	19	7	9	12	7	9	13	9	7	22	16	A	12	14.2	30.3
10-Aug-07	10	8	10	11	10	22	35	58	57	37	28	6	5	5	2	4	4	7	8	10	11	A	12	10	16.0	58.0
11-Aug-07	14	7	4	8	11	25	26	41	17	17	7	8	6	6	7	9	9	7	10	10	A	17	20	15	13.0	40.7
12-Aug-07	4	5	4	8	10	12	11	9	13	12	8	10	9	21	7	15	16	11	10	A	13	10	6	7	10.1	20.8
13-Aug-07	2	5	3	4	5	14	22	11	20	18	8	6	7	6	7	4	5	4	A	10	11	13	8	9	8.9	22.0
14-Aug-07	13	15	22	9	7	10	35	28	14	53	9	21	7	7	7	8	8	A	15	11	11	13	17	11	15.3	53.4
15-Aug-07	17	21	29	21	23	42	56	64	15	16	10	5	6	4	4	5	A	12	8	19	10	12	11	7	18.1	64.2
16-Aug-07	10	19	7	7	17	40	24	21	20	19	6	8	6	6	6	A	11	7	7	7	12	16	26	11	13.6	40.4
17-Aug-07	9	5	15	3	5	10	19	14	10	10	6	11	6	A	10	18	13	13	11	8	8	17	20	10.9	19.7	
18-Aug-07	7	5	10	12	11	13	21	31	28	29	23	18	11	A	9	5	5	4	5	7	8	17	12	13	13.3	30.7
19-Aug-07	8	9	10	11	4	12	16	11	8	17	15	9	A	8	5	9	5	7	6	11	7	7	4	5	8.9	17.1
20-Aug-07	3	2	3	8	5	14	20	17	8	8	7	A	12	9	9	7	8	5	4	10	8	3	3	2	7.6	19.7
21-Aug-07	2	2	2	2	4	7	11	10	7	4	A	7	7	4	5	4	4	4	6	13	18	17	6	3	6.5	18.2
22-Aug-07	6	27	3	6	7	13	39	C	C	C	C	12	13	14	5	14	20	9	6	11	21	14	14	17	13.6	38.8
23-Aug-07	18	18	9	9	7	A	38	36	40	9	11	3	4	4	7	8	7	13	11	11	15	8	8	11	13.3	40.5
24-Aug-07	11	15	13	25	A	17	34	22	27	17	8	7	6	4	5	7	8	9	9	13	15	10	4	4	12.6	33.7
25-Aug-07	5	12	4	A	8	8	21	34	14	10	7	10	7	6	5	7	6	4	5	8	13	13	5	3	9.4	34.3
26-Aug-07	1	3	A	6	2	3	4	7	6	6	4	7	26	24	9	11	18	10	9	9	8	24	21	11	9.9	25.6
27-Aug-07	23	A	12	9	14	35	50	44	45	44	13	11	8	5	5	5	7	5	10	9	44	48	29	22	21.6	49.8
28-Aug-07	A	14	19	11	20	38	94	53	37	26	13	5	7	5	3	4	2	4	8	16	20	13	16	A	19.4	94.4
29-Aug-07	11	7	7	12	11	17	127	245	51	22	37	17	12	8	9	5	6	14	14	17	13	14	A	11	29.9	245.3
30-Aug-07	8	4	4	10	12	23	26	28	23	10	9	18	17	12	8	10	55	34	34	33	13	A	10	5	17.7	54.6
31-Aug-07	5	5	4	4	7	12	21	24	23	15	12	11	7	7	8	15	21	13	10	6	A	12	12	11	11.5	23.6
Hourly Avg	9.1	9.5	8.7	8.4	10.0	17.4	29.4	32.0	20.3	18.4	11.8	10.2	9.2	8.1	6.5	7.6	10.0	8.5	8.8	10.6	13.4	13.9	12.4	9.9		
Hourly Max	22.6	27.0	28.7	25.0	28.9	41.5	127.4	245.3	57.1	58.0	36.9	21.6	25.6	23.8	13.1	15.4	54.6	34.5	34.0	32.7	44.5	47.9	28.9	21.6		

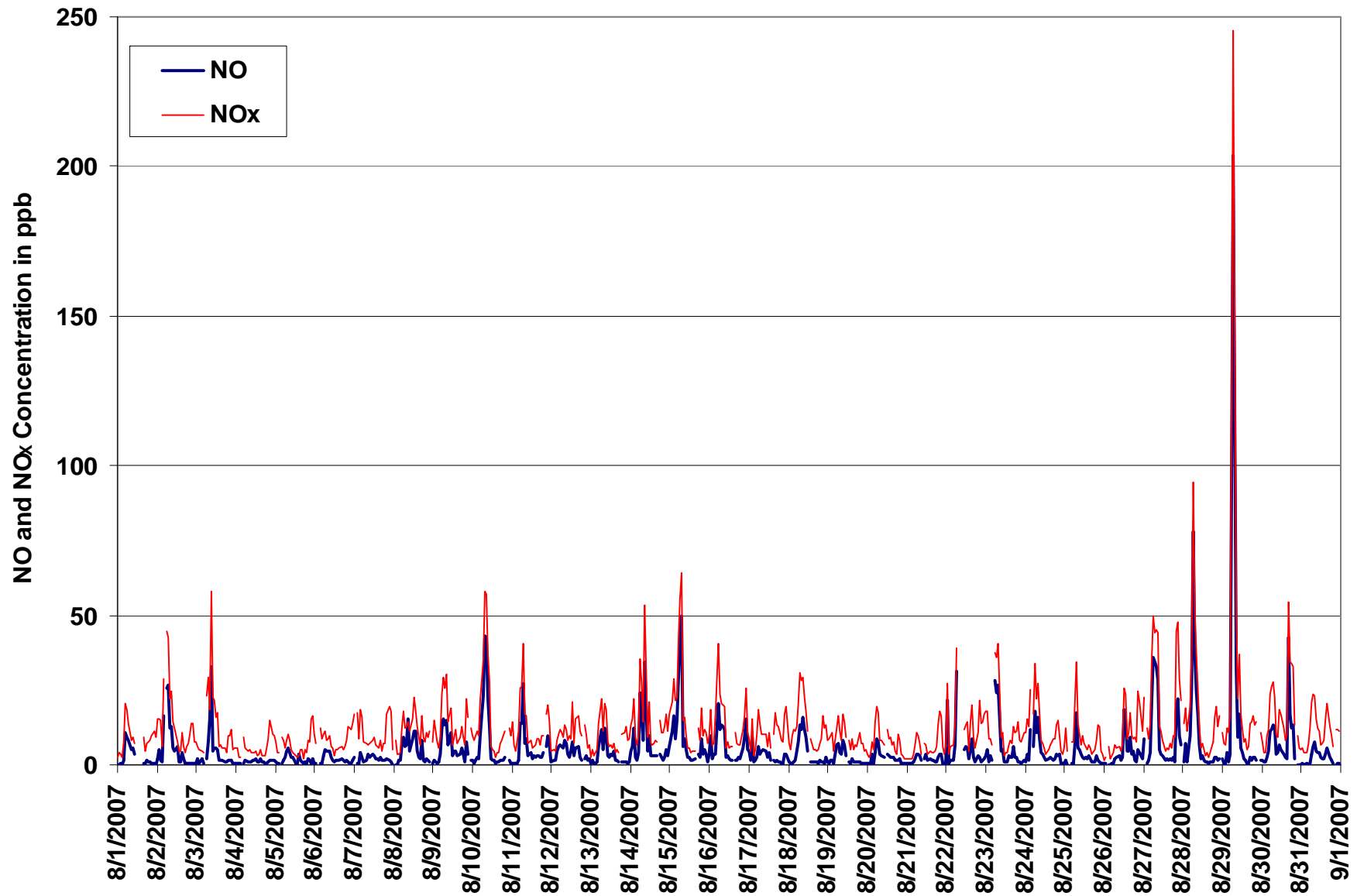


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Henry Pirker Ozone Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

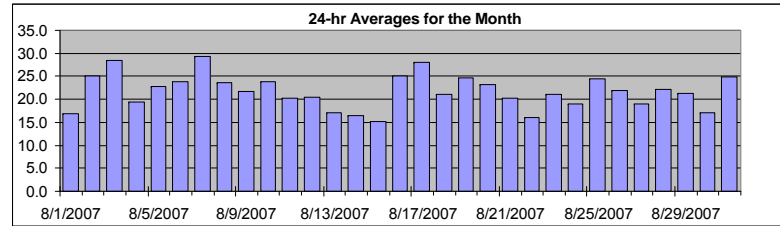
Ozone (O₃)

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

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	48.5 ppb	2-Aug	17:00 18:00
Maximum 24-hr Average:	29.2 ppb	7-Aug	

AIC Time:	32 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	43.2	38.4	28.2	21.4	14.8	6.1	4.1	21.7 ppb	21.4 ppb



Status Flag Characters

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

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Aug-07	12	11	11	11	10	5	7	10	13	14	16	21	25	28	33	C	C	C	A	28	23	20	20	20	16.9	33.3	
2-Aug-07	14	5	5	7	4	A	5	9	13	16	23	30	35	39	45	41	42	48	47	36	31	23	26	32	25.1	48.5	
3-Aug-07	33	29	28	34	38	A	17	18	22	30	28	21	16	28	39	39	42	35	33	32	27	22	22	21	28.4	41.9	
4-Aug-07	18	19	19	19	A	15	14	15	17	17	16	17	19	25	29	32	30	26	25	22	18	11	12	10	19.3	32.0	
5-Aug-07	11	13	12	A	11	9	9	10	11	17	25	29	31	36	34	34	32	33	30	28	32	32	23	21	22.8	36.1	
6-Aug-07	18	18	A	13	11	9	8	11	14	21	28	33	32	33	34	36	37	37	34	31	26	21	22	21	23.8	37.2	
7-Aug-07	15	A	11	10	10	20	36	35	32	32	34	34	36	38	40	41	39	39	38	35	26	19	25	26	29.2	41.0	
8-Aug-07	A	26	22	20	21	21	22	22	26	27	26	27	25	28	27	26	27	24	23	24	21	17	18	A	23.7	28.0	
9-Aug-07	20	13	11	13	18	16	14	14	16	18	19	23	24	26	28	32	35	32	34	32	24	20	A	20	21.7	35.0	
10-Aug-07	19	16	16	15	12	7	6	8	10	19	25	36	38	39	41	41	36	31	30	29	29	A	27	21	23.9	41.3	
11-Aug-07	16	19	17	13	9	5	6	8	12	17	23	28	28	31	32	33	31	31	29	25	A	18	17	16	20.2	33.0	
12-Aug-07	18	18	21	21	20	22	24	25	25	24	22	20	22	23	23	20	18	18	18	A	18	17	19	16	20.5	25.3	
13-Aug-07	15	15	14	13	10	6	5	11	14	16	20	22	24	25	26	27	28	28	A	25	18	12	12	10	17.0	27.8	
14-Aug-07	8	7	7	6	8	9	9	10	15	21	22	26	28	29	29	28	27	A	22	20	19	15	7	8	16.5	29.1	
15-Aug-07	5	3	4	4	3	3	3	6	12	11	13	19	26	29	29	29	A	31	27	21	19	17	19	20	15.3	30.5	
16-Aug-07	19	19	17	16	10	5	8	13	18	18	22	30	38	46	46	A	43	38	34	31	28	25	25	27	25.1	45.9	
17-Aug-07	29	27	26	27	24	22	18	20	21	24	28	34	39	42	A	46	35	31	32	32	31	25	20	12	28.0	45.7	
18-Aug-07	18	17	15	11	10	12	7	8	5	6	11	12	22	A	36	39	41	44	42	35	30	22	23	20	21.1	44.0	
19-Aug-07	24	19	16	16	17	13	8	10	13	18	25	31	A	42	41	42	41	40	34	22	27	24	24	21	24.7	42.0	
20-Aug-07	19	21	21	20	19	13	11	17	24	27	29	A	29	30	28	28	28	25	23	21	23	25	25	26	23.1	29.6	
21-Aug-07	25	24	23	23	22	21	17	15	16	17	A	19	20	20	21	25	24	24	20	19	14	13	23	19	20.3	25.4	
22-Aug-07	17	12	12	9	7	5	4	5	10	15	19	22	24	28	28	28	26	31	27	23	18	13	14	14	16.0	31.0	
23-Aug-07	10	7	7	6	6	A	3	5	13	20	26	31	33	35	35	35	34	33	30	25	25	26	23	17	21.1	35.1	
24-Aug-07	12	10	7	10	A	5	6	8	9	13	17	21	27	28	29	28	27	28	25	24	20	25	27	30	19.0	30.5	
25-Aug-07	27	26	25	A	22	20	15	14	18	17	26	27	30	34	34	31	33	34	32	25	22	18	16	16	24.4	34.0	
26-Aug-07	15	15	A	19	20	19	18	19	20	20	20	19	19	23	28	32	32	34	32	30	27	17	16	11	21.9	33.6	
27-Aug-07	8	A	12	9	8	4	4	6	7	12	24	25	31	34	35	35	35	36	33	32	18	12	6	9	18.9	35.8	
28-Aug-07	A	11	9	9	7	4	5	8	11	17	23	28	30	36	40	40	41	41	36	28	19	22	22	A	22.1	41.2	
29-Aug-07	27	26	23	21	15	16	8	9	12	17	21	24	31	35	34	33	30	25	20	19	15	16	A	15	21.3	35.1	
30-Aug-07	15	15	15	14	13	10	8	7	11	17	19	19	20	23	21	22	20	18	10	10	23	A	32	28	17.0	32.4	
31-Aug-07	25	23	25	25	26	20	18	18	20	24	27	31	36	36	34	31	27	26	26	24	A	19	15	14	24.8	36.3	
Hourly Avg	17.6	16.7	15.6	14.8	14.2	12.0	11.0	12.6	15.2	18.6	22.4	25.2	27.8	31.5	32.6	32.9	32.5	31.7	29.2	26.3	23.2	19.6	19.9	18.7			
Hourly Max	32.7	29.4	27.9	33.9	37.7	22.1	35.7	34.5	32.3	32.3	33.6	36.0	38.6	45.9	45.9	45.7	43.3	48.5	46.8	36.0	31.8	32.4	32.4	31.8			

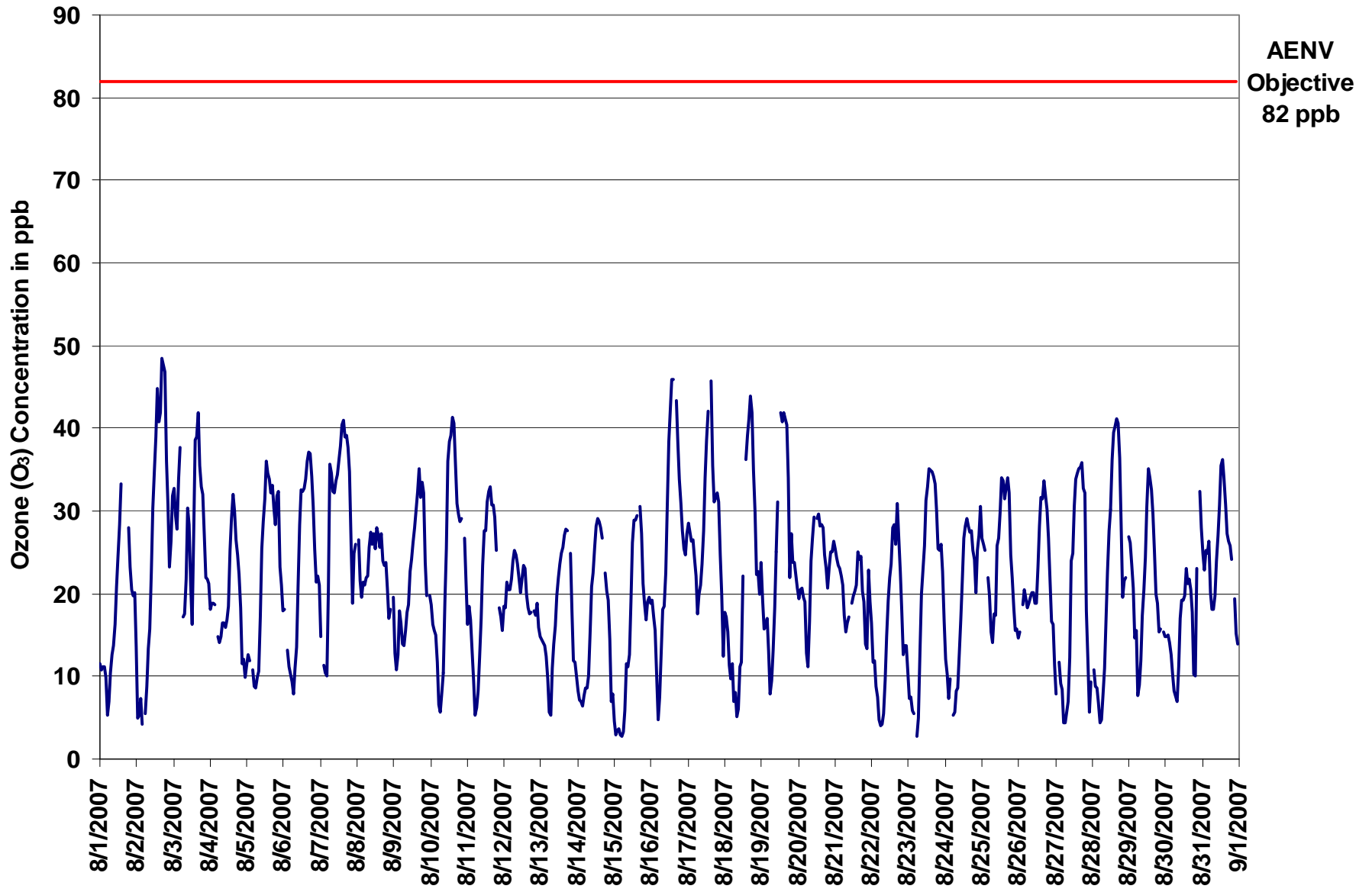


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

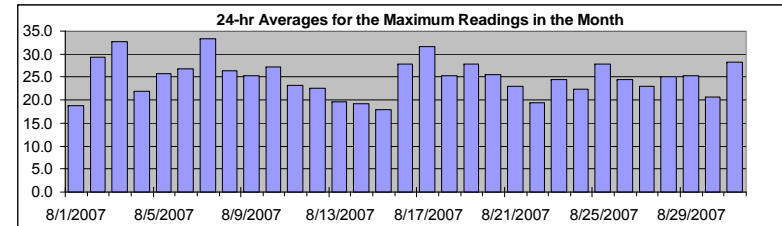
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

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

Summary

Maximum 1-hr Value:	55.4	ppb	2-Aug	17:00 18:00
Maximum 24-hr Value:	33.3	ppb	7-Aug	



AIC Time:	32 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	47.6	41.6	31.3	24.8	17.8	9.2	5.5	24.9 ppb	24.8 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Aug-07	12	12	12	12	11	8	9	13	13	15	18	24	27	32	36	C	C	C	A	31	26	22	22	22	18.9	35.8
2-Aug-07	20	7	8	10	10	A	8	12	16	19	27	34	38	44	48	44	48	55	52	40	36	29	31	39	29.3	55.4
3-Aug-07	37	32	30	40	42	A	22	20	31	34	34	29	20	35	42	43	46	40	36	36	31	26	24	24	32.8	46.1
4-Aug-07	20	21	20	20	A	16	16	17	18	18	18	18	24	28	32	34	32	31	28	26	22	17	15	12	21.8	34.0
5-Aug-07	13	13	13	A	11	10	9	11	13	24	30	31	36	38	36	36	35	35	35	30	40	36	27	28	25.7	39.6
6-Aug-07	23	24	A	16	15	11	10	14	16	25	32	34	34	37	35	38	39	39	36	33	32	26	25	24	26.8	39.3
7-Aug-07	22	A	15	14	12	39	39	37	34	34	36	37	38	41	43	43	41	41	41	38	33	29	30	28	33.3	43.1
8-Aug-07	A	28	25	21	23	22	24	25	28	30	29	30	29	31	31	28	30	29	27	25	25	20	21	A	26.5	31.3
9-Aug-07	22	21	13	21	20	19	18	17	21	21	23	25	25	29	31	37	37	34	36	35	29	22	A	22	25.2	37.4
10-Aug-07	21	17	18	17	15	11	8	9	13	25	31	38	41	41	43	43	40	34	37	37	31	A	30	27	27.2	42.8
11-Aug-07	22	21	19	16	12	11	12	12	16	22	27	29	30	34	34	36	33	33	32	28	A	21	19	18	23.3	35.8
12-Aug-07	19	22	22	22	21	23	26	26	26	26	23	22	24	25	25	23	22	21	20	A	20	20	20	20	22.5	25.9
13-Aug-07	17	17	20	19	11	8	7	15	17	20	22	24	25	27	27	29	30	29	A	27	23	13	13	13	19.6	29.6
14-Aug-07	10	9	9	8	9	11	12	15	19	22	26	28	30	31	30	30	29	A	25	23	22	19	10	12	19.2	30.5
15-Aug-07	12	4	7	6	4	3	4	13	14	13	16	24	29	31	30	31	A	33	31	23	21	18	21	21	17.8	33.3
16-Aug-07	21	21	18	17	16	8	11	17	20	20	27	35	44	49	48	A	46	42	37	33	29	27	26	28	27.8	48.8
17-Aug-07	29	28	27	27	26	24	20	23	23	26	31	38	41	46	A	49	44	38	37	37	35	29	29	19	31.6	48.8
18-Aug-07	20	19	20	13	12	15	10	12	8	10	17	17	32	A	42	42	44	48	46	42	34	28	26	23	25.2	47.9
19-Aug-07	26	23	18	19	19	16	10	12	16	24	28	36	A	44	44	44	44	43	42	27	31	27	25	22	27.8	44.3
20-Aug-07	21	22	23	22	21	17	13	21	28	30	31	A	31	32	30	31	31	26	25	23	25	26	26	28	25.4	31.6
21-Aug-07	27	25	24	24	23	22	20	17	18	18	A	20	20	22	24	27	26	27	24	24	19	25	27	21	23.0	27.3
22-Aug-07	19	15	13	10	9	7	5	6	7	13	18	21	25	29	30	32	32	34	31	27	26	15	20	19	19.4	34.3
23-Aug-07	14	13	10	8	7	A	4	7	17	25	31	34	35	38	38	38	37	36	35	31	30	28	26	22	24.4	37.8
24-Aug-07	14	14	12	14	A	12	8	11	10	17	21	26	30	30	31	30	30	30	27	27	26	28	31	32	22.3	31.9
25-Aug-07	30	31	28	A	24	23	23	22	22	20	30	30	34	36	35	34	35	36	34	30	26	22	18	17	27.8	36.3
26-Aug-07	16	16	A	20	22	21	21	21	21	21	21	20	23	26	32	34	34	36	34	33	32	23	19	16	24.4	35.6
27-Aug-07	14	A	13	10	10	5	5	7	10	19	30	28	35	36	36	37	37	38	38	37	31	25	12	13	23.0	38.4
28-Aug-07	A	13	10	10	9	5	6	10	14	22	29	29	35	39	42	42	42	42	41	36	22	24	27	A	25.0	42.4
29-Aug-07	28	28	25	23	20	21	12	16	18	20	25	28	34	37	38	35	34	31	24	25	21	21	A	19	25.3	37.7
30-Aug-07	16	16	16	16	14	13	11	9	17	19	21	21	23	27	24	25	23	25	18	19	34	A	37	30	20.6	36.9
31-Aug-07	27	26	28	28	30	26	23	24	25	26	30	36	38	39	37	34	33	30	29	26	A	21	17	17	28.3	39.0
Hourly Avg	20.4	19.2	17.8	17.4	16.5	15.4	13.7	15.8	18.4	21.9	26.1	28.3	31.0	34.5	35.2	35.5	35.7	35.2	33.0	30.4	28.0	23.6	23.3	21.9		
Hourly Max	36.9	31.7	30.2	39.6	41.6	39.2	38.7	36.6	34.1	34.1	35.9	37.9	44.3	48.8	48.1	48.8	47.7	55.4	52.0	42.5	39.6	35.8	36.9	39.0		

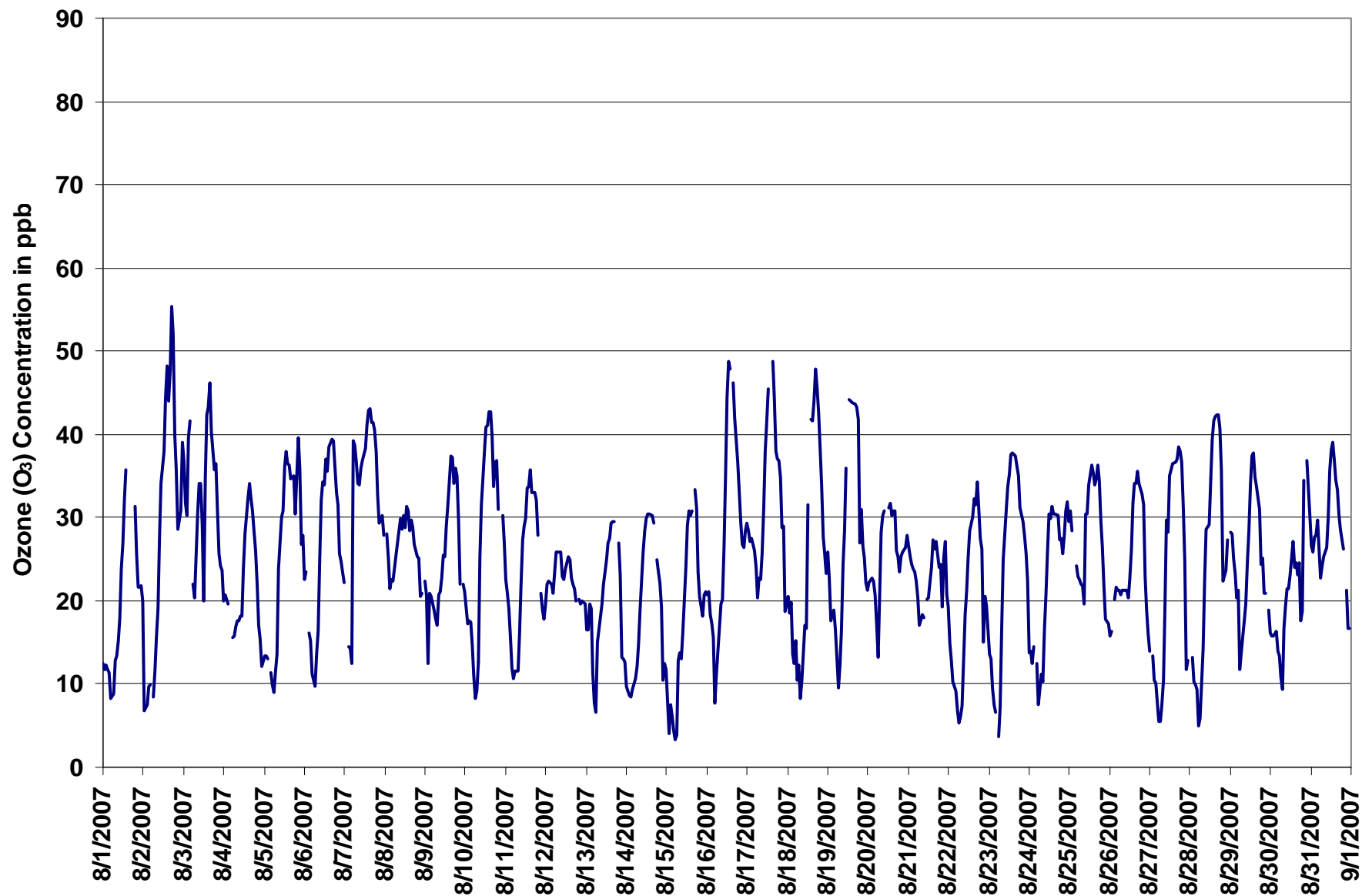
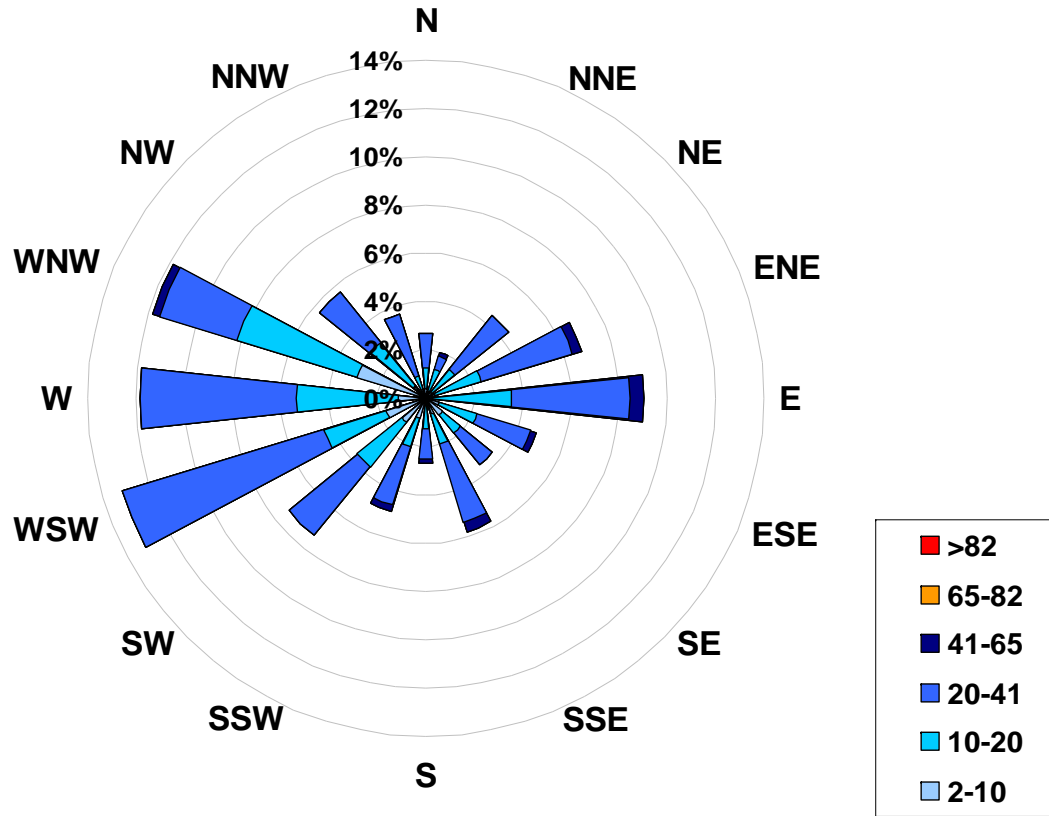


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	< 10		91
10	to 20		228
20	to 41		372
41	to 65		18
65	to 82		0
	> 82		0
Total Non-Zero Values			709

PASZA - Henry Pirker Ozone Eight Hour Average Summary

Station: Henry Pirker
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

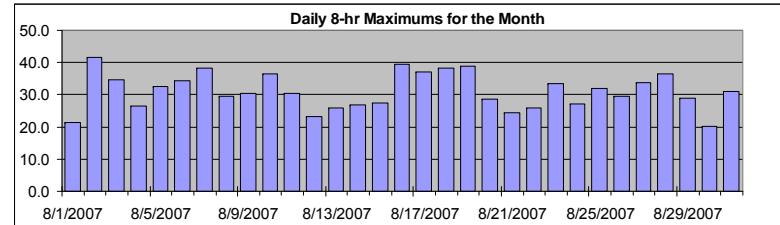
Ozone (O₃)

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

Objective Limit: Alberta Environment: 8-hr 65 ppb

Summary

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	41.6	ppb	2-Aug	19:00	20:00		



Percentile	99	95	75	50	25	5	1
	38.3	35.0	26.7	21.7	15.9	8.7	6.7

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																								Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
1-Aug-07	13	13	12	12	11	11	10	10	10	10	11	12	14	17	20	21	N	N	N	N	N	N	N	N	21.4
2-Aug-07	N	19	17	14	12	11	9	7	7	9	11	14	19	21	26	30	34	38	41	42	41	39	37	36	41.6
3-Aug-07	34	32	30	29	30	31	30	28	26	27	27	25	22	23	25	28	30	31	32	33	34	34	32	29	34.5
4-Aug-07	26	24	23	21	20	19	18	17	17	16	16	16	16	17	19	21	23	24	25	26	26	24	22	19	26.4
5-Aug-07	17	15	14	12	11	11	11	11	10	11	13	15	18	21	24	27	30	32	33	32	33	32	31	29	32.5
6-Aug-07	27	25	25	23	20	16	14	13	12	12	14	17	19	22	26	29	32	34	34	34	33	32	30	29	34.5
7-Aug-07	26	24	21	18	16	16	18	20	22	23	26	29	32	35	35	36	37	38	38	38	37	35	33	31	38.3
8-Aug-07	30	28	26	23	23	23	23	22	22	23	23	24	25	25	26	27	27	26	26	26	25	24	23	22	29.6
9-Aug-07	21	19	18	16	16	16	15	15	14	15	16	17	18	19	21	23	26	27	29	30	30	30	30	28	30.4
10-Aug-07	26	23	21	18	17	15	14	12	11	11	13	15	19	23	27	31	34	36	37	36	34	34	32	29	36.5
11-Aug-07	26	24	23	20	17	16	13	12	11	11	12	14	16	19	22	26	28	30	30	30	30	29	26	24	30.4
12-Aug-07	22	20	19	19	19	19	20	21	22	23	23	23	23	23	23	22	22	21	20	20	20	19	18	18	23.1
13-Aug-07	17	17	16	16	15	13	12	11	11	11	12	13	15	17	20	22	23	25	25	26	25	23	21	19	25.9
14-Aug-07	16	13	12	10	9	8	8	8	9	11	12	15	17	20	23	25	26	27	27	26	25	23	20	17	27.0
15-Aug-07	14	12	10	8	6	4	4	4	5	6	7	9	12	15	18	21	22	25	27	27	26	25	23	22	27.5
16-Aug-07	22	20	19	18	17	16	14	13	13	13	14	16	19	24	29	31	35	38	39	40	38	35	32	31	39.5
17-Aug-07	30	28	27	27	26	26	25	24	23	23	23	24	26	28	30	33	35	36	37	37	36	33	31	27	36.9
18-Aug-07	25	23	21	19	16	14	13	12	11	9	9	10	10	14	19	24	29	34	37	38	36	34	32		38.2
19-Aug-07	30	27	24	21	20	18	17	15	14	14	15	17	17	21	26	30	34	37	39	37	36	34	32	29	38.7
20-Aug-07	26	24	22	22	21	20	18	17	18	19	20	20	21	24	26	28	28	28	27	26	26	25	25	25	28.5
21-Aug-07	24	24	24	24	24	24	23	22	20	19	19	18	18	18	18	20	21	22	22	22	21	20	20	20	24.5
22-Aug-07	19	17	16	15	14	13	11	9	7	7	7	9	11	13	16	19	21	24	26	26	24	22	21	26.0	
23-Aug-07	19	16	13	11	10	9	8	6	7	8	11	15	19	21	25	28	31	33	33	33	32	31	29	27	33.3
24-Aug-07	24	21	18	16	15	12	10	8	8	8	10	11	13	16	19	21	24	26	27	27	26	26	26	26	27.1
25-Aug-07	26	26	26	26	26	25	24	21	20	19	19	20	21	23	25	27	29	31	32	32	31	29	26	24	31.8
26-Aug-07	22	20	18	17	17	17	17	18	19	19	19	19	20	21	23	24	26	27	29	30	29	27	25		29.6
27-Aug-07	22	20	17	14	12	10	8	7	7	8	9	11	14	18	22	25	29	32	33	34	32	30	26	23	33.8
28-Aug-07	21	17	14	11	9	8	8	7	8	9	10	13	16	20	24	28	32	35	37	37	35	33	31	30	36.6
29-Aug-07	28	26	24	23	22	21	19	18	16	15	15	15	17	20	23	26	28	29	29	28	26	24	22	20	29.0
30-Aug-07	18	16	16	15	15	14	13	12	12	12	12	13	14	16	17	19	20	20	19	18	18	18	19	20	20.3
31-Aug-07	21	22	24	26	26	26	24	23	22	22	22	23	24	26	28	30	31	31	31	30	29	27	24	22	30.9

Hourly Max	34.5	32.1	29.7	29.5	30.4	31.4	30.1	28.0	26.5	26.6	26.7	29.1	32.4	34.6	35.2	36.0	36.9	37.8	40.9	41.6	41.0	39.1	36.7	35.6
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PASZA - Henry Pirker Carbon Monoxide Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

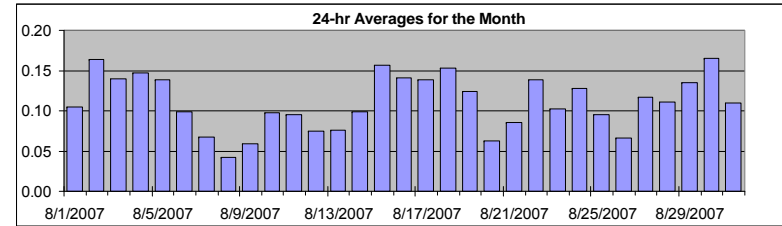
Carbon Monoxide (CO)

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

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

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	0.3	ppm	22-Aug	8:00 9:00
Maximum 24-hr Value:	0.2	ppm	30-Aug	

AIC Time:	32 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.3	0.2	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-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10	0.15
2-Aug-07	0.1	0.1	0.1	0.1	0.1	A	0.2	0.1	0.1	0.1	0.1	C	C	C	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.14	0.19	
3-Aug-07	0.2	0.2	0.2	0.1	0.1	A	0.2	0.2	0.2	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	0.1	0.1	0.14	0.19	
4-Aug-07	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.15	0.22	
5-Aug-07	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.14	0.20	
6-Aug-07	0.2	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	0.2	0.1	0.1	0.10	0.19	
7-Aug-07	0.1	A	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.07	0.13	
8-Aug-07	A	0.1	0.1	0.0	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.04	0.07	
9-Aug-07	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	A	0.1	0.06	0.13	
10-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	A	0.1	0.1	0.10	0.24	
11-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.1	0.10	0.16	
12-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.07	0.12	
13-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.08	0.14	
14-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.2	0.2	0.2	0.10	0.18	
15-Aug-07	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.3	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	0.2	0.2	0.1	0.1	0.16	0.29	
16-Aug-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.14	0.21	
17-Aug-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	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.14	0.21	
18-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.15	0.24	
19-Aug-07	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	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	0.12	0.16	
20-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.06	0.11	
21-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.09	0.13	
22-Aug-07	0.1	0.1	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	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.14	0.34	
23-Aug-07	0.1	0.1	0.1	0.1	0.1	A	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10	0.19	
24-Aug-07	0.1	0.1	0.2	0.1	A	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.13	0.17	
25-Aug-07	0.1	0.1	0.1	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10	0.17	
26-Aug-07	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.07	0.13	
27-Aug-07	0.1	A	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.12	0.27	
28-Aug-07	A	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	A	0.11	0.28	
29-Aug-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	A	0.1	0.14	0.32	
30-Aug-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	A	0.1	0.1	0.16	0.29	
31-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.2	0.2	0.1	0.11	0.16	
Hourly Avg	0.11	0.10	0.09	0.08	0.09	0.11	0.14	0.15	0.13	0.12	0.11	0.11	0.10	0.09	0.09	0.09	0.10	0.10	0.11	0.12	0.13	0.14	0.13	0.12				
Hourly Max	0.22	0.18	0.17	0.14	0.15	0.21	0.28	0.34	0.34	0.24	0.18	0.17	0.20	0.17	0.15	0.17	0.22	0.22	0.27	0.23	0.24	0.27	0.25	0.22				

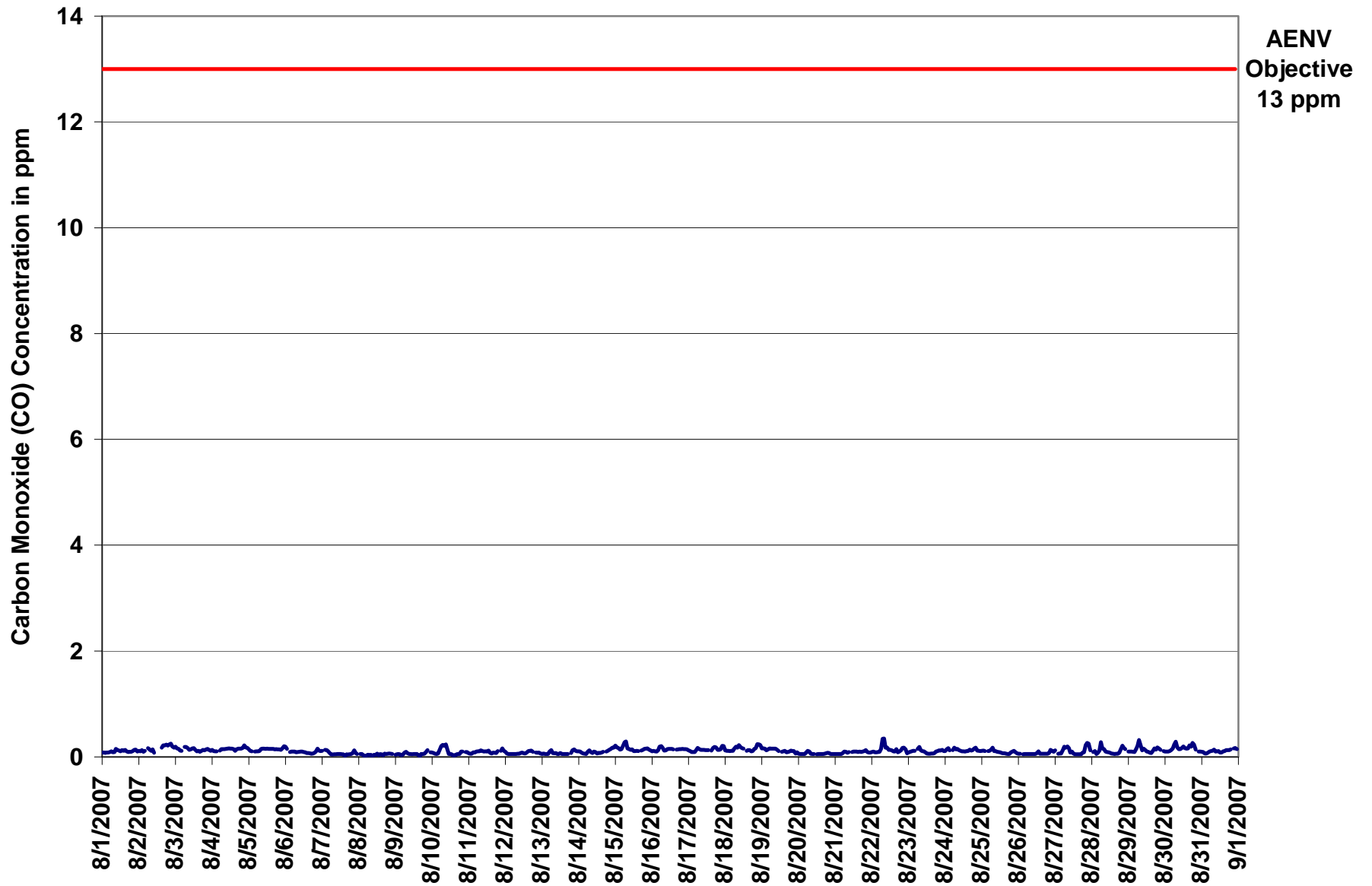


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

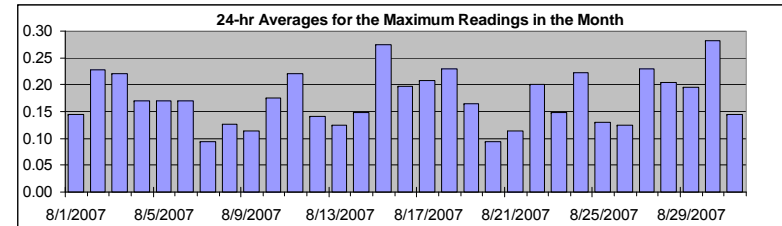
Carbon Monoxide (CO)

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

Summary

Maximum 1-hr Value:	1.2	ppm	11-Aug	22:00 23:00
Maximum 24-hr Value:	0.3	ppm	30-Aug	

AIC Time:	32 hrs	Operational Time:	709 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.6	0.4	0.2	0.2	0.1	0.1	0.1	0.2 ppm	0.2 ppm



Status Flag Characters

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

Day Mountain Standard Time

Hour Start 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-Aug-07	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.14	0.27
2-Aug-07	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.1	0.2	0.1	C	C	C	A	0.5	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.23	0.46
3-Aug-07	0.2	0.2	0.2	0.1	0.2	A	0.2	0.4	0.4	0.6	0.2	0.3	0.4	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.63
4-Aug-07	0.2	0.2	0.1	0.1	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.17	0.26
5-Aug-07	0.2	0.2	0.1	A	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.17	0.38
6-Aug-07	0.2	0.2	A	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.17	0.52
7-Aug-07	0.2	A	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.09	0.21
8-Aug-07	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.4	0.2	0.1	0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.1	A	0.1	0.13	0.40
9-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6	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	A	0.1	0.11	0.57
10-Aug-07	0.2	0.1	0.1	0.1	0.3	0.2	0.3	0.7	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	A	0.1	0.2	0.18	0.65
11-Aug-07	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.8	0.2	0.1	0.2	0.1	0.1	0.2	A	0.2	1.2	0.22	1.22
12-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	A	0.1	0.2	0.2	0.1	0.14	0.40
13-Aug-07	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.2	0.1	0.1	0.12	0.21
14-Aug-07	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.2	0.3	0.3	0.15	0.32
15-Aug-07	0.4	0.3	0.4	0.2	0.2	0.9	0.4	0.5	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.28	0.86
16-Aug-07	0.1	0.2	0.2	0.1	0.2	0.4	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.20	0.36
17-Aug-07	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.1	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.3	0.21	0.63
18-Aug-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.3	0.3	0.2	A	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.23	0.50
19-Aug-07	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.16	0.30
20-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	A	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	0.09	0.16
21-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.11	0.29
22-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.5	0.3	0.2	0.2	0.2	0.3	0.1	0.2	0.2	0.1	0.1	0.2	0.3	0.2	0.2	0.1	0.20	0.53
23-Aug-07	0.1	0.1	0.1	0.2	0.1	A	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.1	0.15	0.26
24-Aug-07	0.2	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.5	0.3	0.2	0.1	0.1	0.5	0.2	0.5	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.22	0.47
25-Aug-07	0.2	0.2	0.1	A	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.13	0.21
26-Aug-07	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	0.3	0.1	0.1	0.1	0.3	0.1	0.2	0.2	0.2	0.2	0.1	0.12	0.31
27-Aug-07	0.3	A	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.7	0.6	0.6	0.4	0.23	0.71
28-Aug-07	A	0.1	0.7	0.1	0.2	0.5	0.5	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	A	0.20	0.70
29-Aug-07	0.1	0.2	0.2	0.1	0.1	0.4	0.3	0.5	0.3	0.1	0.3	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	A	0.1	0.1	0.20	0.50
30-Aug-07	0.1	0.1	0.1	0.2	0.2	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.5	0.2	1.0	0.2	0.4	0.4	0.2	A	0.1	0.1	0.28	0.97
31-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.3	0.15	0.26
Hourly Avg	0.15	0.14	0.15	0.11	0.13	0.22	0.21	0.25	0.20	0.20	0.17	0.17	0.16	0.16	0.16	0.14	0.17	0.15	0.15	0.18	0.20	0.21	0.24	0.17		
Hourly Max	0.41	0.35	0.70	0.21	0.31	0.86	0.46	0.65	0.49	0.63	0.40	0.40	0.52	0.84	0.52	0.46	0.97	0.31	0.36	0.36	0.71	0.61	1.22	0.44		

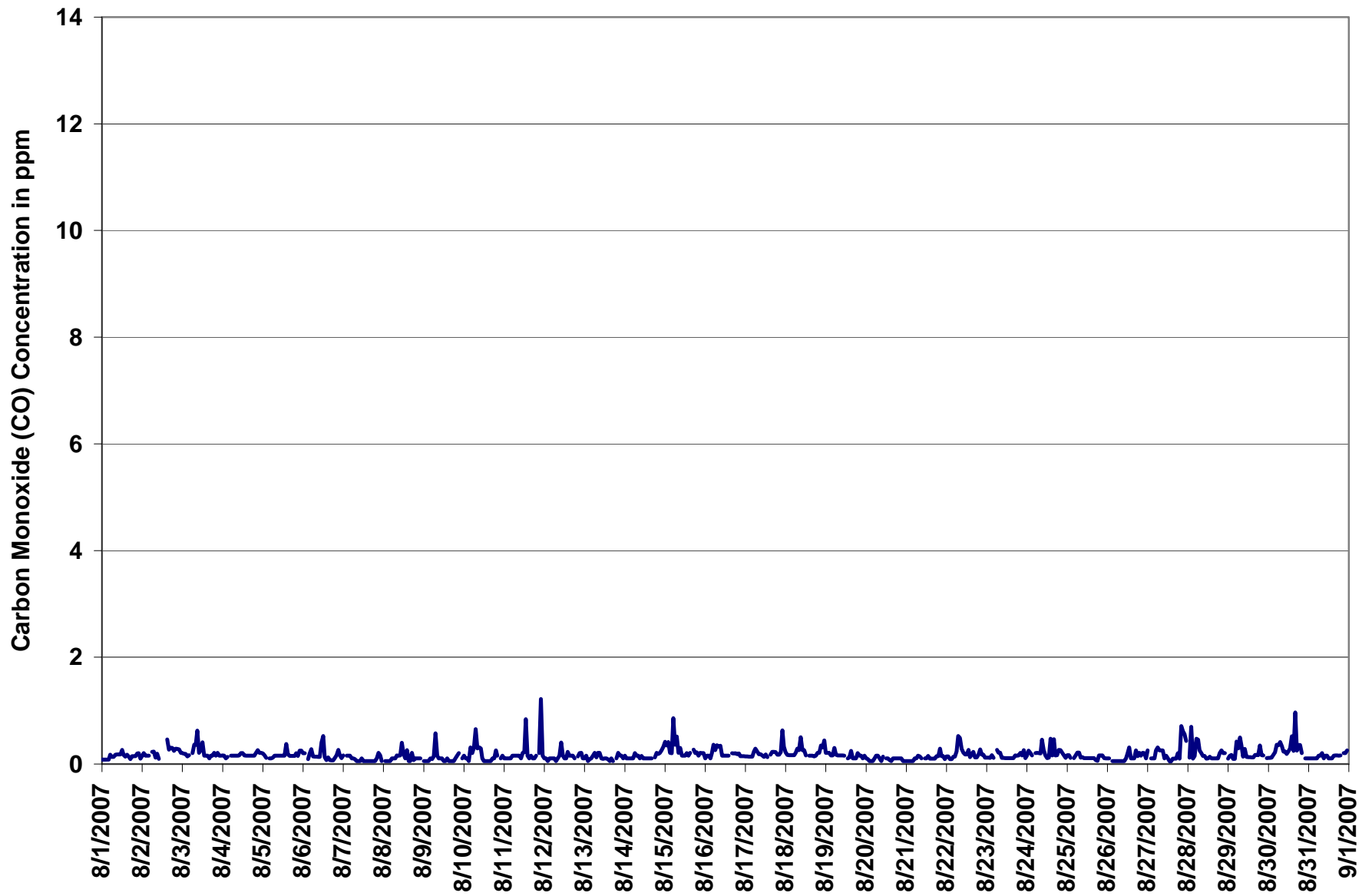
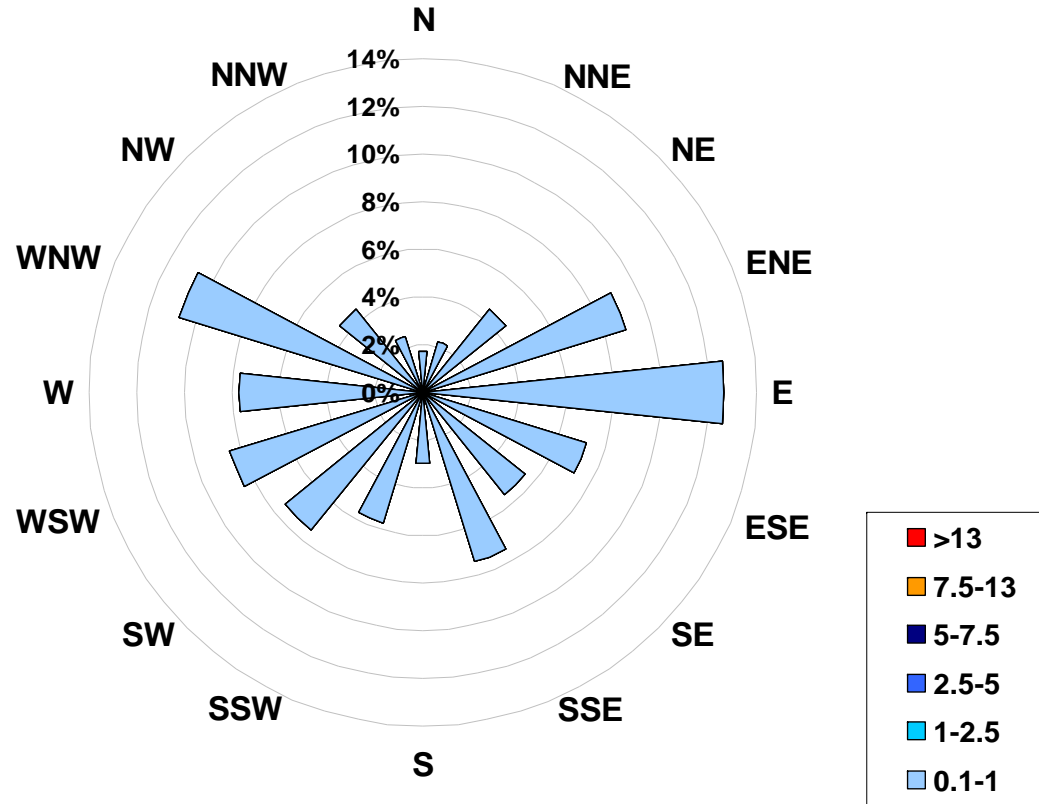


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	< 1		709
1	to 2.5		0
2.5	to 5		0
5	to 7.5		0
7.5	to 13		0
	> 13		0
Total Non-Zero Values			709

PASZA - Henry Pirker Carbon Monoxide Eight Hour Average Summary

Station: Henry Pirker
 Station Owner: PASZA

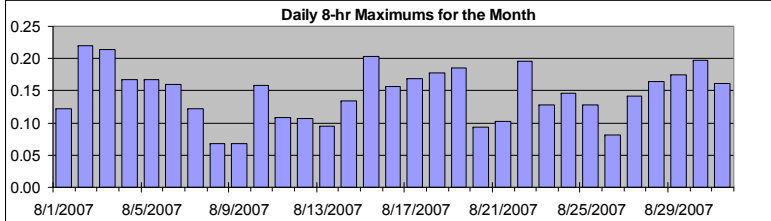
EIGHT HOUR RUNNING AVERAGE TABLE

Carbon Monoxide (CO)

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

Objective Limit: Alberta Environment: 8-hr 5 ppm

Number of 8-hr Exceedances:	0				
Maximum 8-hr Average:	0.2	ppm	2-Aug	21:00 22:00	



Percentile	99	95	75	50	25	5	1
	0.2	0.2	0.1	0.1	0.1	0.1	0.0

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																								Daily Maximum		
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		23:00 0:00	
1-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12
2-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N	N	N	N	N	N	N	N	N	N	0.2	0.2	0.2	0.2	0.22
3-Aug-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.21
4-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.17
5-Aug-07	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17
6-Aug-07	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16
7-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.12
8-Aug-07	0.1	0.1	0.1	0.1	0.1	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	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.07	
9-Aug-07	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.07
10-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	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	0.16
11-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11
12-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11
13-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.09
14-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13
15-Aug-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.20
16-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16
17-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.17
18-Aug-07	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.18
19-Aug-07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.19
20-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.09
21-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
22-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.20
23-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13
24-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15
25-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13
26-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.08
27-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.14
28-Aug-07	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16
29-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17
30-Aug-07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
31-Aug-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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.16
Hourly Max	0.21	0.21	0.20	0.19	0.18	0.17	0.19	0.20	0.20	0.19	0.19	0.19	0.19	0.20	0.19	0.16	0.17	0.18	0.19	0.20	0.19	0.22	0.22	0.22	0.22		

PASZA - Henry Pirker Total Hydrocarbons Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

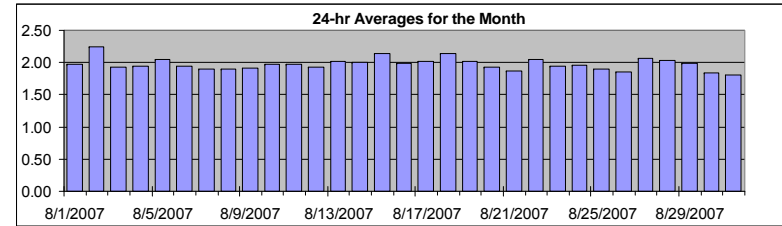
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

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

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

Maximum 1-hr Average:	2.7	ppm	2-Aug	12:00 13:00
Maximum 24-hr Value:	2.2	ppm	2-Aug	



AIC Time:	31 hrs	Operational Time:	710 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.5	2.3	2.0	1.9	1.9	1.8	1.7	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	0:00		
1-Aug-07	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	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	1.9	2.0	2.0	2.0	1.98	2.05
2-Aug-07	2.1	2.3	2.3	2.3	2.5	A	2.4	2.3	2.2	C	C	C	2.7	2.6	2.6	2.5	2.3	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.24	2.65
3-Aug-07	2.0	2.0	1.9	1.9	1.8	A	1.9	1.9	2.0	1.8	2.0	2.0	2.1	2.0	1.9	1.9	1.8	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.93	2.05
4-Aug-07	2.0	2.0	1.9	1.9	A	1.9	1.9	2.0	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.8	1.8	1.9	2.0	2.0	2.0	2.1	2.1	2.2	1.95	2.21	
5-Aug-07	2.4	2.5	2.6	A	2.1	2.0	2.0	2.1	2.1	2.0	1.9	1.9	2.0	1.9	1.9	1.9	2.0	1.9	2.0	1.9	1.9	2.0	2.0	2.1	2.05	2.55	
6-Aug-07	2.4	2.2	A	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.9	2.1	2.4	1.95	2.44	
7-Aug-07	2.2	A	2.4	2.6	2.3	2.0	1.8	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.0	1.9	1.90	2.62	
8-Aug-07	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	2.0	2.0	A	1.90	1.98	
9-Aug-07	1.9	2.0	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	A	2.0	1.92	2.08
10-Aug-07	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.1	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	A	1.9	1.9	1.98	2.21	
11-Aug-07	2.0	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	2.0	1.97	2.16	
12-Aug-07	2.0	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	A	1.9	2.0	2.0	2.0	1.93	2.02	
13-Aug-07	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	A	2.0	2.1	2.1	2.1	2.2	2.02	2.23	
14-Aug-07	2.2	2.2	2.1	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	2.0	2.0	2.1	2.2	2.00	2.22	
15-Aug-07	2.5	2.5	2.5	2.4	2.5	2.5	2.4	2.4	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.14	2.53	
16-Aug-07	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.99	2.08	
17-Aug-07	1.9	2.0	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.1	2.1	2.2	2.1	2.0	2.1	2.1	2.2	2.02	2.25	
18-Aug-07	2.3	2.2	2.3	2.3	2.4	2.2	2.3	2.3	2.3	2.4	2.2	2.1	2.1	A	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.1	2.1	2.14	2.43
19-Aug-07	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	A	1.9	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.02	2.15	
20-Aug-07	2.0	2.0	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.92	2.02	
21-Aug-07	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.8	1.9	1.8	1.9	1.8	1.8	1.9	1.8	1.8	1.87	1.92	
22-Aug-07	1.9	1.9	1.8	1.9	1.9	1.9	2.0	2.1	2.4	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.1	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.04	2.42	
23-Aug-07	2.1	2.1	2.0	2.1	2.1	A	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	2.0	1.9	1.9	2.0	1.95	2.11
24-Aug-07	2.2	2.2	2.2	2.2	A	2.1	2.1	1.9	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.95	2.23	
25-Aug-07	2.0	2.0	1.9	A	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.8	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.90	2.01	
26-Aug-07	2.0	1.9	A	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	1.8	1.8	1.9	2.2	1.85	2.16
27-Aug-07	2.5	A	2.0	2.1	2.1	2.1	2.2	2.3	2.3	2.3	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2	2.3	2.2	2.06	2.45
28-Aug-07	A	2.3	2.2	2.3	2.2	2.2	2.3	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	A	2.03	2.29
29-Aug-07	2.0	2.0	1.9	1.9	2.0	2.0	2.1	2.3	2.1	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	2.0	1.9	1.9	2.1	A	1.8	1.98	2.25	
30-Aug-07	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.7	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.1	1.9	A	1.7	1.8	1.84	2.11
31-Aug-07	1.8	1.8	1.7	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	A	1.9	2.0	2.0	1.81	1.96
Hourly Avg	2.07	2.06	2.05	2.04	2.03	2.00	2.03	2.02	2.00	1.95	1.93	1.93	1.94	1.93	1.92	1.91	1.90	1.90	1.91	1.93	1.95	1.99	1.99	2.01			
Hourly Max	2.46	2.53	2.55	2.62	2.53	2.50	2.42	2.42	2.42	2.37	2.24	2.19	2.65	2.60	2.57	2.52	2.30	2.24	2.15	2.09	2.13	2.21	2.28	2.36			

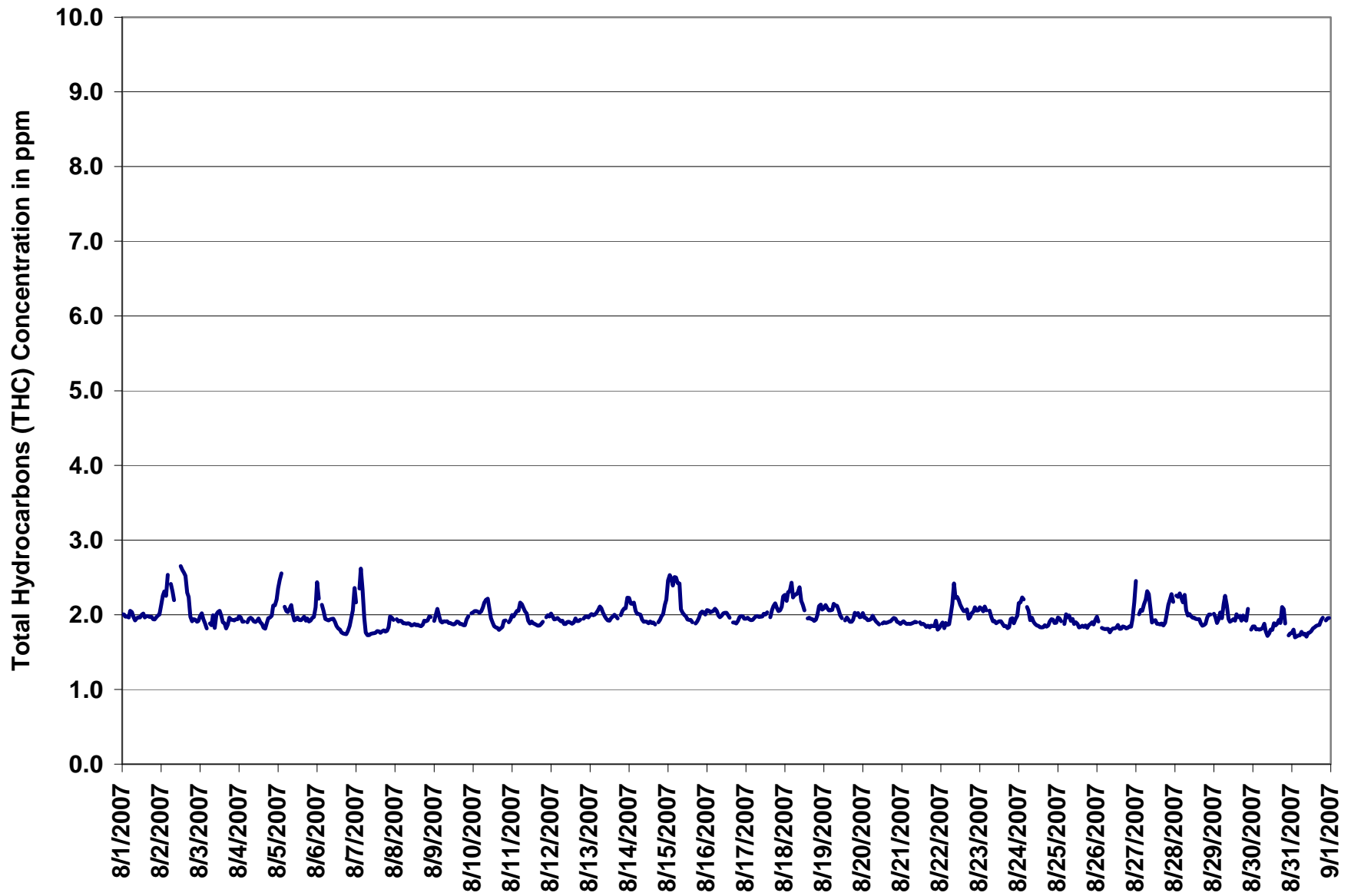


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

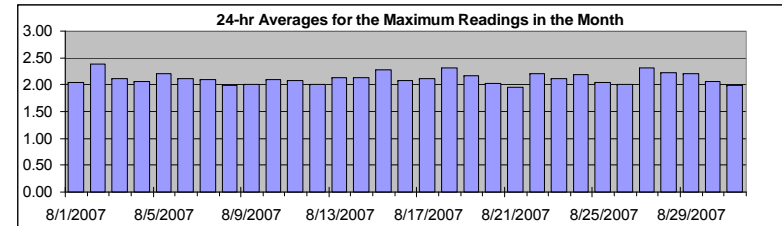
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Total Hydrocarbons (THC)

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

Summary

Maximum 1-hr Value:	3.4	ppm	30-Aug	18:00 19:00
Maximum 24-hr Value:	2.4	ppm	2-Aug	



AIC Time:	31 hrs	Operational Time:	710 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.9	2.6	2.2	2.1	2.0	1.9	1.8	2.1 ppm	2.1 ppm

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Aug-07	2.1	2.1	2.1	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.04	2.15
2-Aug-07	2.3	2.3	2.4	2.4	2.7	A	2.5	2.5	2.3	C	C	C	2.7	2.7	2.7	2.7	2.5	2.4	2.1	2.0	2.1	2.0	2.1	2.1	2.38	2.75
3-Aug-07	2.1	2.1	2.1	2.0	1.9	A	2.0	2.0	2.8	3.0	2.1	2.2	2.2	2.1	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.11	2.95
4-Aug-07	2.1	2.1	2.0	2.0	A	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.1	2.4	2.2	2.4	2.05	2.42
5-Aug-07	2.6	2.7	2.7	A	2.3	2.2	2.2	2.2	2.2	2.2	2.0	2.0	2.1	2.0	2.0	2.0	2.1	2.0	2.1	2.0	2.0	2.3	2.2	2.6	2.20	2.71
6-Aug-07	2.9	2.5	A	2.4	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.9	2.0	2.2	2.5	2.7	2.12	2.89	
7-Aug-07	2.9	A	2.8	3.2	2.8	2.1	1.9	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	1.9	2.2	2.2	2.0	2.09	3.18
8-Aug-07	A	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	1.9	1.9	2.0	1.9	2.0	2.0	1.9	1.9	2.1	2.0	2.0	2.1	2.1	A	1.98	2.08
9-Aug-07	2.0	2.1	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	2.1	2.1	A	2.1	2.00	2.15
10-Aug-07	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.3	2.7	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9	2.0	2.0	A	2.0	2.0	2.09	2.68
11-Aug-07	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.3	2.4	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	A	2.0	2.0	2.1	2.08	2.38
12-Aug-07	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	1.9	2.0	2.2	2.0	2.0	2.0	A	2.0	2.1	2.1	2.0	2.01	2.17
13-Aug-07	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.2	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	A	2.3	2.3	2.2	2.2	2.5	2.13	2.47
14-Aug-07	2.4	2.2	2.3	2.3	2.3	2.1	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.1	2.1	2.1	2.3	2.6	2.13	2.59
15-Aug-07	2.8	2.8	2.7	2.7	2.8	2.7	2.6	2.6	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.28	2.82
16-Aug-07	2.2	2.1	2.1	2.4	2.1	2.2	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	A	2.0	2.0	1.9	2.0	2.1	2.1	2.0	2.0	2.09	2.38
17-Aug-07	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	A	2.1	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.4	2.11	2.36
18-Aug-07	2.3	2.3	2.6	2.5	3.2	2.3	2.4	2.4	2.4	2.5	2.4	2.3	2.2	A	2.1	2.0	2.0	2.0	2.0	2.0	2.2	2.3	2.4	2.2	2.31	3.17
19-Aug-07	2.2	2.2	2.2	2.2	2.1	2.2	2.3	2.2	2.3	2.2	2.1	2.0	A	2.0	2.2	2.0	2.1	2.1	2.2	2.6	2.2	2.3	2.1	2.1	2.17	2.55
20-Aug-07	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.0	1.9	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	1.9	2.02	2.13
21-Aug-07	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.1	1.9	1.9	1.96	2.12
22-Aug-07	1.9	2.1	1.9	2.0	1.9	1.9	2.2	2.3	2.7	2.4	2.4	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.4	2.2	2.2	2.20	2.74
23-Aug-07	2.2	2.2	2.3	2.3	2.2	A	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.1	2.1	2.4	2.2	2.12	2.42
24-Aug-07	2.6	2.7	2.6	3.1	A	2.5	2.3	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.19	3.14
25-Aug-07	2.1	2.1	2.1	A	2.0	2.2	2.1	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.05	2.21
26-Aug-07	2.1	2.1	A	2.0	1.9	2.0	2.0	1.9	1.9	1.9	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.7	2.01	2.71
27-Aug-07	2.9	A	2.2	2.2	2.2	2.3	2.4	3.3	2.7	2.3	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.7	2.4	2.6	2.5	2.3	2.32	3.32
28-Aug-07	A	2.7	2.4	2.5	2.8	2.3	2.5	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.0	2.1	2.0	2.1	2.1	2.1	A	2.23	2.79
29-Aug-07	2.2	2.1	2.0	2.1	2.2	2.1	2.7	2.6	2.5	2.1	2.1	2.1	2.1	2.0	2.3	2.2	2.3	2.2	2.3	2.1	2.0	2.7	A	1.9	2.21	2.70
30-Aug-07	2.0	2.0	1.9	2.0	1.9	1.9	2.0	2.0	1.9	1.8	1.9	2.0	2.0	2.0	2.0	2.2	2.3	2.1	3.4	2.4	2.0	A	1.9	1.9	2.06	3.44
31-Aug-07	1.9	2.2	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.2	A	2.1	2.3	2.2	1.98	2.26
Hourly Avg	2.26	2.22	2.20	2.22	2.20	2.13	2.17	2.19	2.15	2.11	2.04	2.03	2.05	2.03	2.03	2.03	2.03	2.01	2.08	2.10	2.08	2.17	2.15	2.19		
Hourly Max	2.89	2.82	2.77	3.18	3.17	2.69	2.70	3.32	2.77	2.95	2.42	2.31	2.75	2.75	2.71	2.72	2.49	2.42	3.44	2.74	2.45	2.65	2.50	2.73		

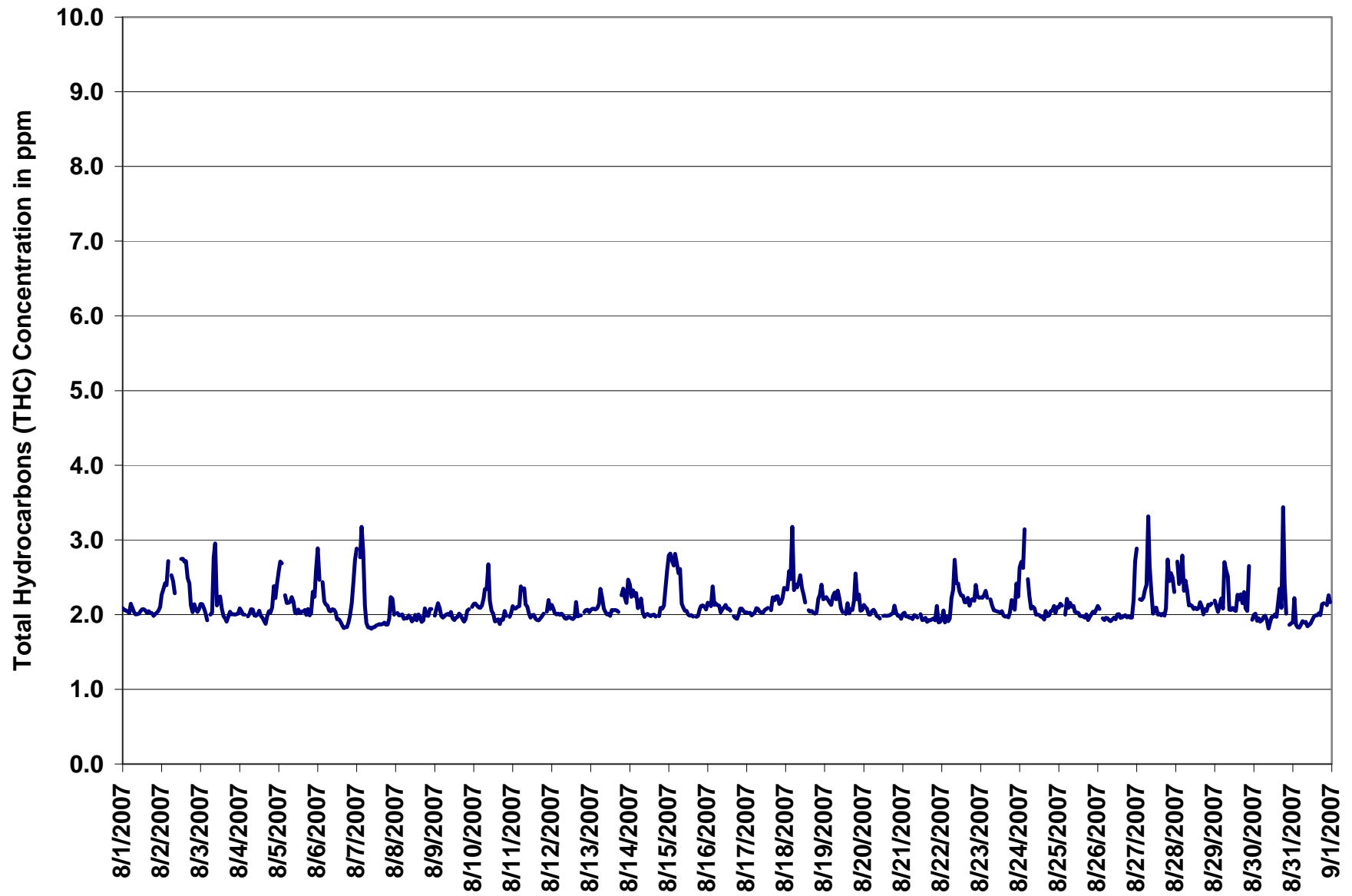
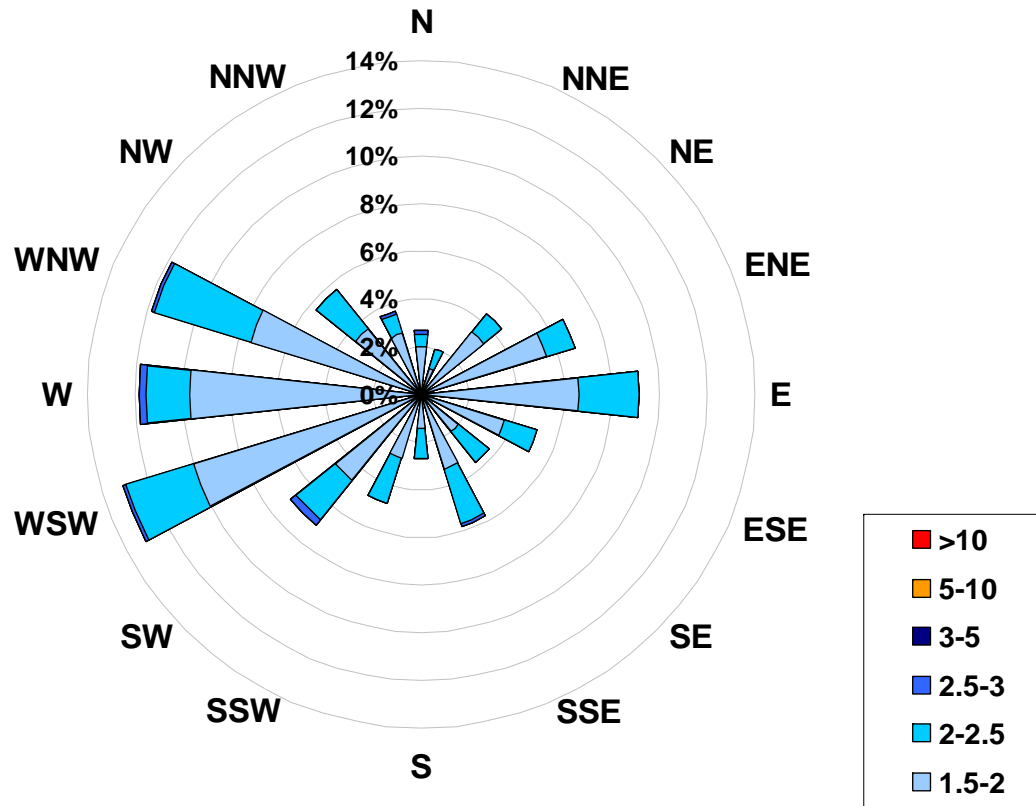


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	<	2	493
2	to	2.5	206
2.5	to	3	9
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			710

PASZA - Henry Pirker Total Reduced Sulphur Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

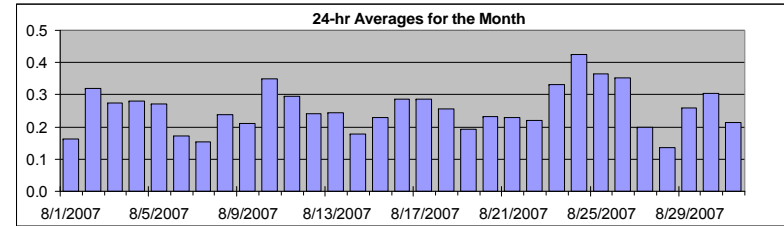
Total Reduced Sulphur (TRS)

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

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

Maximum 1-hr Average:	1.0	ppb	10-Aug	9:00 10:00
Maximum 24-hr Value:	0.4	ppb	24-Aug	

AIC Time:	32 hrs	Operational Time:	705 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.7	0.5	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-Aug-07	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	0.3
2-Aug-07	0	0	0	0	1	A	1	0	0	0	0	0	0	0	C	C	C	C	A	0	0	0	0	0	0	0.3	0.6
3-Aug-07	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
4-Aug-07	0	0	0	0	A	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
5-Aug-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	0.3	0.4
6-Aug-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	0.2	0.4
7-Aug-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	0.2	0.3
8-Aug-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	0.2	0.3
9-Aug-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	0.2	0.3
10-Aug-07	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	1.0
11-Aug-07	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.6
12-Aug-07	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	0.4
13-Aug-07	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	0.3
14-Aug-07	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	0.3
15-Aug-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	0	0.2	0.5
16-Aug-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	0.3	0.4
17-Aug-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	0.3	0.4
18-Aug-07	0	0	0	1	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
19-Aug-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	0.2	0.3
20-Aug-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	0.2	0.3
21-Aug-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	0.2	0.3
22-Aug-07	0	0	0	0	0	0	1	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
23-Aug-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.3	0.5
24-Aug-07	0	0	1	1	A	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7
25-Aug-07	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	0.4	0.6
26-Aug-07	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0.4	0.5
27-Aug-07	0	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
28-Aug-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	0.1	0.5
29-Aug-07	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.7
30-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	A	0	0	0.3	0.5
31-Aug-07	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	0.3
Hourly Avg	0.3	0.3	0.3	0.3	0.3	0.3	0.4	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	0.2	0.2	0.2	0.2
Hourly Max	0.5	0.4	0.6	0.6	0.5	0.7	0.7	0.7	0.7	1.0	0.8	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.4	

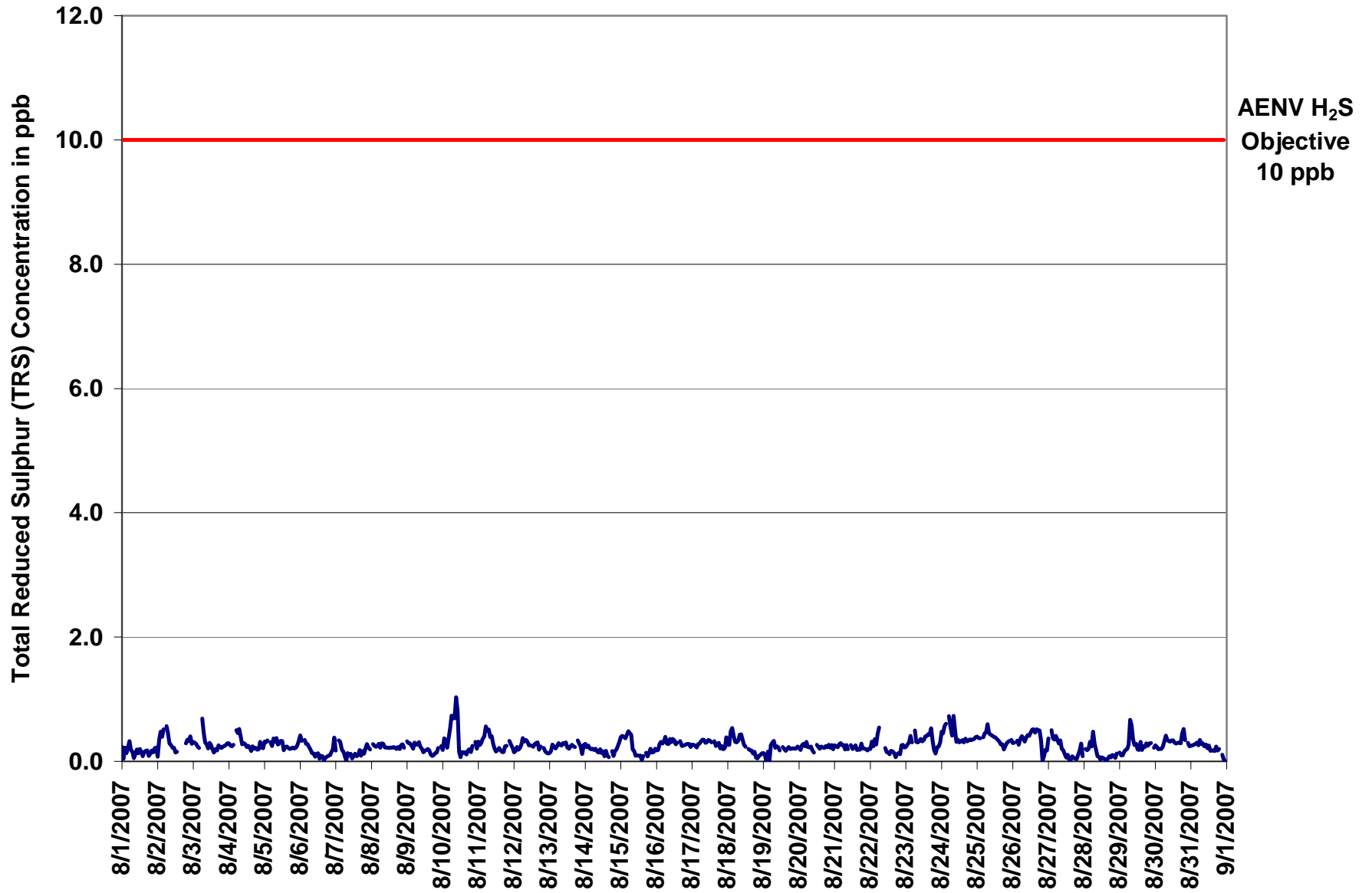


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

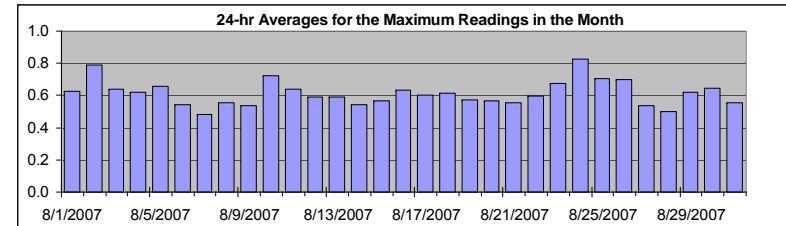
Total Reduced Sulphur (TRS)

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

Summary

Maximum 1-hr Value:	1.7	ppb	5-Aug	14:00 15:00
Maximum 24-hr Value:	0.8	ppb	24-Aug	

AIC Time:	32 hrs	Operational Time:	705 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	0.9	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-Aug-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	0.6	0.8	
2-Aug-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	C	C	C	C	A	1	1	1	1	1	0.8	1.1	
3-Aug-07	1	1	1	1	1	A	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.1	
4-Aug-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0.6	1.0	
5-Aug-07	1	1	1	A	1	1	1	1	1	1	1	1	1	0	2	1	1	0	1	1	1	1	1	1	0.7	1.7	
6-Aug-07	1	1	A	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	0.5	0.9	
7-Aug-07	0	A	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0.5	0.8	
8-Aug-07	A	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	A	0.6	0.6	
9-Aug-07	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	0	1	0	0	1	A	0	0.5	0.8	
10-Aug-07	1	1	1	1	1	1	1	1	1	1	2	1	0	0	0	0	0	1	1	0	1	A	1	1	0.7	1.5	
11-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	1	1	A	1	1	0	0.6	1.0	
12-Aug-07	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0	0	0.6	0.7	
13-Aug-07	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	A	1	1	1	1	1	0.6	0.7	
14-Aug-07	1	1	1	1	0	1	1	1	0	0	1	1	0	0	0	0	0	A	1	0	1	1	1	1	0.5	0.8	
15-Aug-07	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	A	1	0	0	1	1	1	0	0	0.6	0.9	
16-Aug-07	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.6	0.8	
17-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0	1	1	0.6	0.7	
18-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	0	0	1	0	0	0	0	0	0	0.6	1.1	
19-Aug-07	0	1	0	1	0	1	1	1	1	0	1	1	A	0	1	0	1	1	1	1	1	1	1	1	0.6	1.0	
20-Aug-07	0	0	1	1	1	1	1	1	0	1	0	A	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7	
21-Aug-07	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0	1	1	0	1	1	1	1	0.6	0.7	
22-Aug-07	1	1	1	1	1	1	1	C	C	C	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0.6	1.1	
23-Aug-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0.7	1.0	
24-Aug-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.5	
25-Aug-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	
26-Aug-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0.7	0.9	
27-Aug-07	1	A	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0.5	0.8	
28-Aug-07	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	A	0.5	0.8	
29-Aug-07	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	A	1	0.6	1.2	
30-Aug-07	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0	0.6	1.1
31-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0	1	A	0	0	0	0.6	0.8	
Hourly Avg	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6		
Hourly Max	0.8	0.9	1.1	1.5	1.1	1.2	1.3	1.2	1.5	1.3	1.5	0.9	0.8	0.9	1.7	1.0	0.9	1.0	1.1	1.1	0.8	1.0	1.0	0.9			

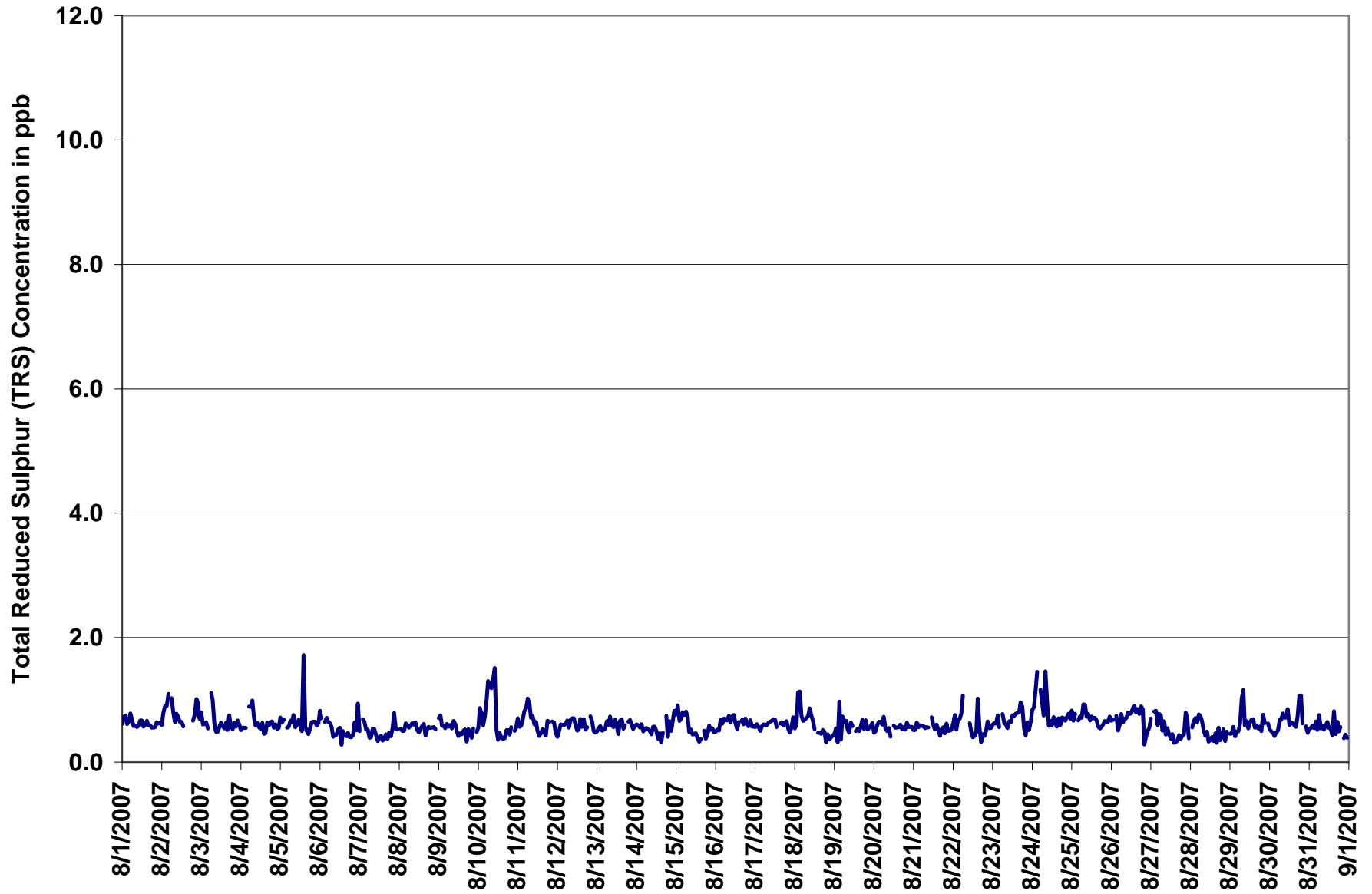
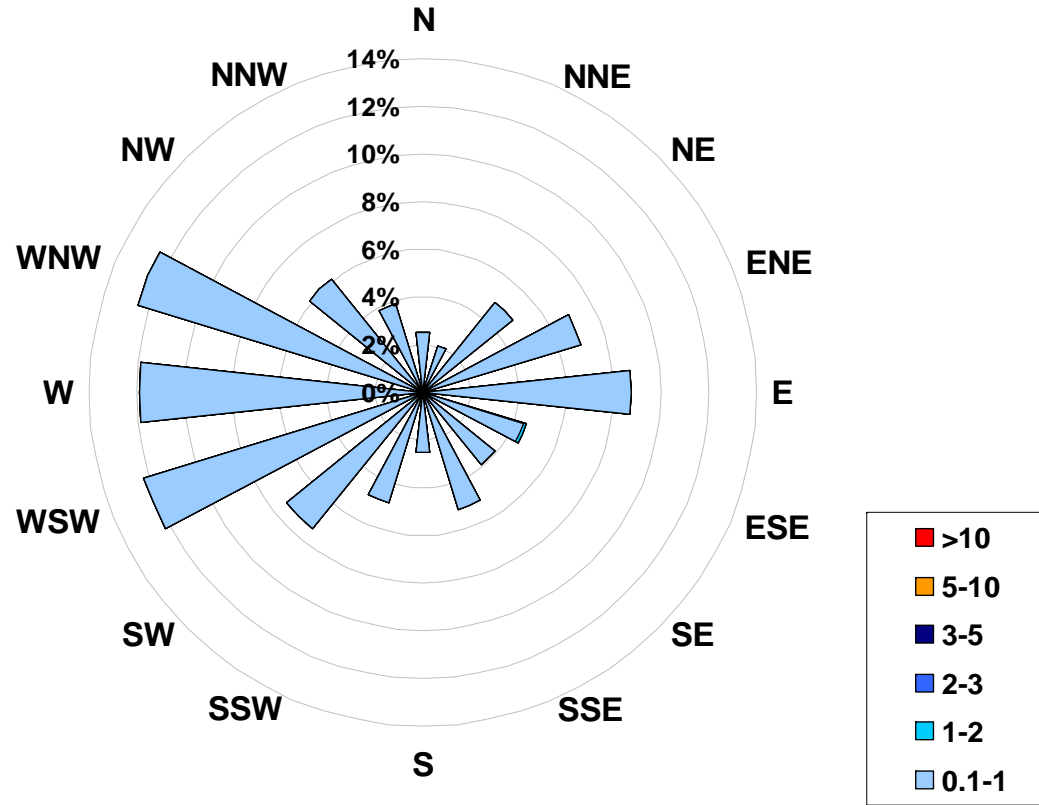


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	704
1	to	2	1
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			705

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

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

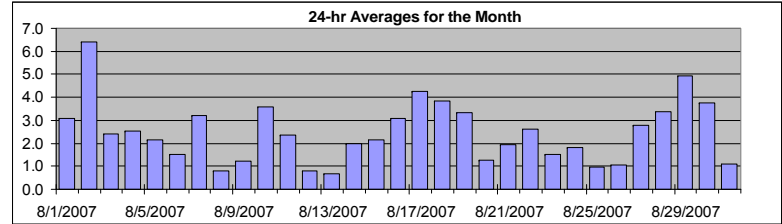
Particulate Matter (PM_{2.5})

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

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	16.0 µg/m ³ 10-Aug 9:00 10:00
Maximum 24-hr Value:	6.4 µg/m ³ 2-Aug

AIC Time:	0 hrs	Operational Time:	730 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	98.5%
Percentile	99	95	75
	10.6	6.6	3.5
	50	25	5
	1.9	0.8	0.0
	1	0.0	0.0
	Average / Median		2.5
	2 µg/m ³		2.1 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00	0:00
1-Aug-07	1:00	1	0	0	1	0	1	4	2	3	5	4	1	1	3	3	6	4	4	5	7	6	4	4	4	3.1	6.9	
2-Aug-07	2:00	7	8	6	1	4	5	10	10	9	14	13	11	4	9	9	0	C	C	C	0	3	5	4	5	6.4	13.7	
3-Aug-07	3:00	3	0	3	1	0	5	5	4	1	2	4	4	4	1	1	1	4	2	1	4	5	2	1	2.4	5.0		
4-Aug-07	4:00	2	1	1	1	1	2	3	3	3	5	4	5	2	2	2	1	4	4	1	2	3	4	1	2.5	4.6		
5-Aug-07	5:00	1	0	0	1	1	D	2	D	3	4	5	4	4	2	3	D	2	1	2	3	2	D	D	D	2.2	4.5	
6-Aug-07	6:00	4	0	0	0	0	0	0	D	2	1	1	1	2	0	1	0	0	2	2	3	3	3	4	4	1.5	4.5	
7-Aug-07	7:00	4	5	5	5	5	4	1	2	2	2	2	2	1	2	1	2	4	4	3	4	5	6	6	3	3.2	5.8	
8-Aug-07	8:00	2	2	1	0	0	0	0	1	1	0	1	0	2	0	1	1	1	1	1	1	1	1	0	0.8	2.4		
9-Aug-07	9:00	0	0	0	0	0	0	0	1	1	1	0	1	0	0	2	0	0	2	2	2	3	6	5	3	1.2	5.6	
10-Aug-07	10:00	3	3	2	2	2	4	7	8	16	10	1	1	1	0	1	2	2	5	4	3	2	D	1	3.6	16.0		
11-Aug-07	11:00	0	1	1	1	2	3	3	3	3	4	3	3	3	2	1	2	2	2	2	5	4	3	3	1	2.3	4.8	
12-Aug-07	12:00	0	0	0	0	1	0	0	0	0	0	0	1	1	0	2	2	2	2	2	2	1	1	0	2	0.8	2.4	
13-Aug-07	13:00	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	1	1	2	4	2	2	1	0.7	4.0	
14-Aug-07	14:00	1	0	1	0	0	0	1	2	2	1	1	1	1	1	2	2	3	3	4	6	4	4	3	4	2.0	6.0	
15-Aug-07	15:00	3	3	4	2	2	3	4	5	2	3	3	2	0	0	3	1	1	2	2	2	2	1	1	0	2.2	5.2	
16-Aug-07	16:00	0	0	0	1	1	2	3	3	2	4	5	6	5	6	4	4	4	5	4	3	2	3	3	4	3.1	5.9	
17-Aug-07	17:00	3	2	1	1	1	3	4	4	4	5	5	5	5	4	3	6	13	9	10	3	3	2	3	2	4.3	13.5	
18-Aug-07	18:00	2	0	0	2	1	3	1	3	4	3	2	5	8	5	5	6	5	3	3	4	5	9	7	6	3.8	8.7	
19-Aug-07	19:00	3	2	4	5	3	4	4	4	6	6	6	4	2	1	4	3	2	4	D	3	4	4	3	0	1	3.3	5.9
20-Aug-07	20:00	1	1	0	0	1	1	2	2	1	1	1	1	1	1	3	1	1	5	3	1	0	0	1	2	1.2	5.0	
21-Aug-07	21:00	1	0	0	1	2	2	2	1	2	3	3	2	2	3	3	2	2	3	3	1	2	2	1	2	1.9	3.5	
22-Aug-07	22:00	1	1	1	2	3	2	3	6	6	4	3	3	2	3	2	1	2	0	3	4	2	6	2	1	2.6	6.3	
23-Aug-07	23:00	1	2	2	2	1	1	2	2	3	2	1	0	0	0	0	0	2	2	3	4	3	0	2	1	1.5	3.8	
24-Aug-07	24:00	2	2	3	1	2	0	2	1	4	2	1	2	1	1	0	0	1	2	2	5	5	1	1	2	1.8	5.2	
25-Aug-07	25:00	1	2	1	2	2	0	2	2	2	1	0	0	0	0	0	0	0	0	1	4	1	2	1	0	1.0	4.1	
26-Aug-07	26:00	0	0	0	0	0	0	0	0	0	1	0	1	2	1	1	2	2	2	1	2	2	4	3	2	1.1	3.5	
27-Aug-07	27:00	1	1	1	1	1	2	3	3	7	5	2	4	1	0	0	0	1	1	4	3	5	8	8	5	2.8	8.1	
28-Aug-07	28:00	8	0	1	1	2	3	8	6	6	5	4	3	3	2	1	1	1	2	2	4	6	5	3	2	3.4	8.5	
29-Aug-07	29:00	1	2	2	2	3	2	6	13	11	7	9	10	8	5	10	4	5	4	4	3	3	1	1	1	4.9	13.3	
30-Aug-07	30:00	0	1	0	0	2	1	2	4	3	3	5	7	7	7	5	6	5	10	11	6	0	D	0	0	3.7	10.8	
31-Aug-07	31:00	0	0	0	0	0	0	0	1	2	1	2	0	0	0	1	1	2	2	4	4	2	2	3	D	1.1	4.0	
Hourly Avg		1.9	1.3	1.3	1.2	1.3	1.7	2.6	3.4	3.3	3.5	3.3	2.9	2.4	2.1	2.4	1.8	2.5	2.9	3.2	3.1	3.0	3.2	2.6	2.1			
Hourly Max		8.5	8.0	5.7	5.1	4.5	5.5	9.9	13.3	11.5	16.0	12.9	10.7	8.3	8.7	10.3	6.5	13.5	9.6	10.8	6.9	6.4	8.7	8.0	5.7			

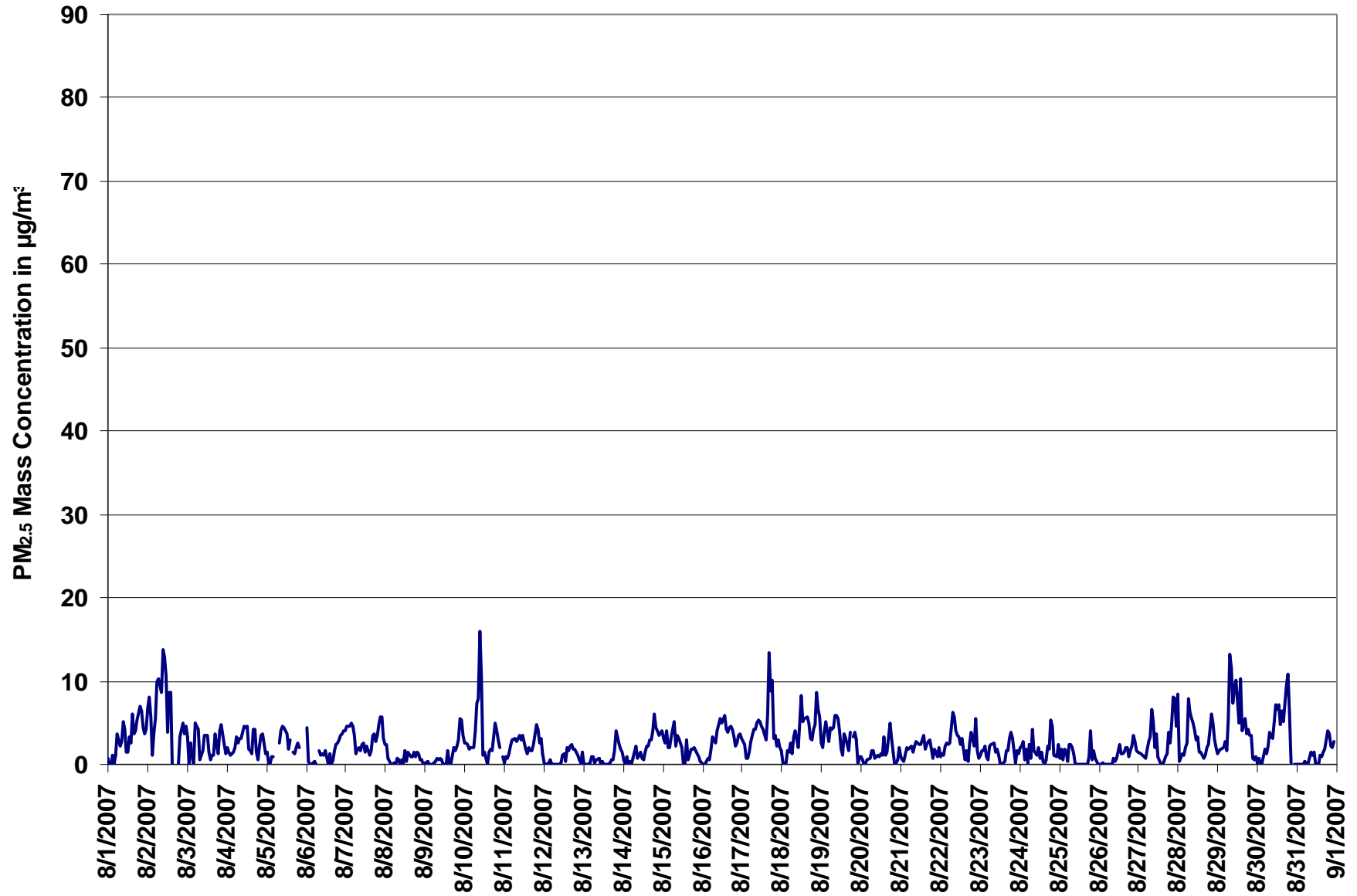


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

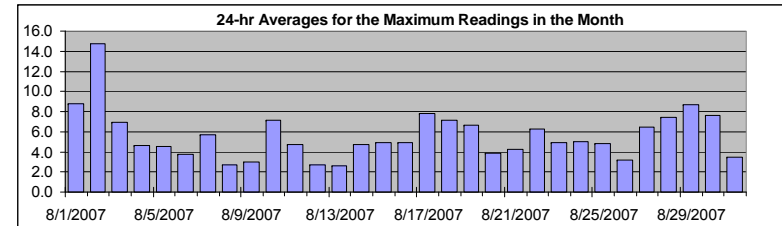
Particulate Matter (PM_{2.5})

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

Summary

Maximum 1-hr Average:	29.4	µg/m ³	28-Aug	0:00 1:00
Maximum 24-hr Value:	14.7	µg/m ³	2-Aug	

AIC Time:	0 hrs	Operational Time:	739 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	22.5	13.8	6.7	4.6	3.1	1.7	1.1	5.6	5 µg/m ³



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Aug-07	4	3	2	5	3	4	7	5	7	10	10	10	14	15	17	16	12	17	9	12	9	8	5	5	8.8	17.4
2-Aug-07	21	19	18	9	8	10	13	14	17	23	24	22	21	18	25	12	C	C	C	3	6	8	7	12	14.7	24.6
3-Aug-07	10	5	24	16	3	10	8	9	2	3	7	6	6	3	5	5	8	5	6	4	6	7	4	3	6.9	23.6
4-Aug-07	3	4	3	2	3	5	5	4	5	5	7	6	7	5	5	4	6	6	4	3	5	5	7	3	4.6	6.8
5-Aug-07	3	2	1	2	2	3	5	5	4	6	8	6	7	4	6	5	3	4	4	4	7	3	7	7	4.5	7.5
6-Aug-07	7	3	0	1	2	2	2	3	3	5	4	4	4	4	4	3	3	4	4	6	5	5	6	5	3.7	6.8
7-Aug-07	8	6	7	7	6	6	5	4	5	4	5	5	4	6	3	5	6	6	5	5	7	10	9	6	5.7	10.2
8-Aug-07	4	4	2	1	1	3	1	2	4	2	2	2	4	2	4	3	3	3	4	4	3	3	2	1	2.7	4.2
9-Aug-07	2	2	2	2	1	1	2	2	2	2	2	2	2	2	4	3	3	4	4	5	4	7	7	5	3.0	7.5
10-Aug-07	5	5	4	4	3	4	6	12	12	24	20	3	4	3	3	5	3	14	9	9	8	D	3	7.1	23.9	
11-Aug-07	3	2	3	3	4	5	5	6	5	6	7	5	4	5	3	5	3	4	8	6	7	5	5	3	4.7	8.2
12-Aug-07	2	1	1	2	2	2	1	1	1	2	2	4	3	2	3	3	4	5	4	5	4	4	3	5	2.7	4.9
13-Aug-07	3	2	2	1	2	2	3	3	2	3	1	2	3	2	3	1	2	2	2	4	5	4	4	3	2.6	5.4
14-Aug-07	3	1	2	1	3	3	2	5	4	4	3	4	2	4	4	4	5	6	8	11	10	6	6	9	4.7	11.3
15-Aug-07	8	5	7	6	4	5	7	9	4	6	5	5	2	4	7	3	3	4	7	7	3	3	2	2	4.9	9.0
16-Aug-07	1	1	2	2	2	4	4	5	5	6	7	8	6	8	7	6	7	7	6	5	4	4	6	7	4.9	8.4
17-Aug-07	6	5	3	4	3	4	6	6	5	7	8	8	7	6	8	10	23	23	14	8	7	5	5	6	7.8	23.0
18-Aug-07	4	2	3	3	4	7	5	6	10	6	5	11	13	9	9	8	7	8	6	7	8	13	9	9	7.1	13.0
19-Aug-07	4	5	7	9	4	6	5	7	8	8	9	8	7	5	9	10	8	12	D	7	7	6	1	2	6.7	11.7
20-Aug-07	3	2	3	3	2	3	4	4	3	4	3	4	5	5	7	4	9	8	5	3	2	2	3	4	3.8	9.3
21-Aug-07	3	3	2	3	4	4	4	3	4	4	5	4	5	5	6	5	5	5	7	3	4	5	5	5	4.2	6.7
22-Aug-07	3	3	3	4	4	4	5	9	9	6	6	6	7	6	5	5	7	7	6	14	12	11	6	4	6.3	14.3
23-Aug-07	3	3	5	4	3	2	4	6	7	5	7	6	4	5	4	6	6	6	6	6	6	2	5	3	4.9	7.4
24-Aug-07	4	4	5	3	6	2	4	3	9	8	4	4	4	4	3	3	6	6	5	9	9	3	3	8	5.0	9.1
25-Aug-07	7	7	4	4	3	2	9	9	6	4	3	5	2	2	3	5	4	2	5	15	5	4	3	3	4.8	14.8
26-Aug-07	2	2	2	3	1	3	2	2	2	2	3	3	5	4	4	3	4	4	2	3	4	7	5	3	3.2	6.7
27-Aug-07	3	3	3	2	2	3	5	10	11	9	7	5	4	4	4	3	5	4	10	9	11	16	10	12	6.5	15.7
28-Aug-07	29	2	4	3	4	6	12	12	8	7	10	6	8	6	6	6	6	5	5	7	8	7	5	5	7.4	29.4
29-Aug-07	3	3	3	4	6	4	13	17	17	12	16	14	14	12	14	8	11	9	8	7	5	3	3	3	8.7	17.5
30-Aug-07	2	3	3	3	4	3	5	6	8	6	11	13	14	11	9	12	8	16	18	16	7	0	2	2	7.6	18.3
31-Aug-07	2	2	2	1	1	2	3	3	4	3	5	4	1	3	4	5	5	5	9	6	3	4	5	4	3.5	9.4
Hourly Avg	5.3	3.7	4.3	3.8	3.3	4.0	5.2	6.2	6.3	6.5	6.9	6.3	6.2	5.6	6.4	5.7	6.2	6.6	6.8	6.9	6.2	5.7	5.0	4.9		
Hourly Max	29.4	18.9	23.6	16.3	8.3	10.2	13.5	17.3	17.5	23.9	23.7	21.8	20.7	18.0	24.6	15.9	22.9	23.0	18.3	16.3	11.9	15.7	10.5	12.2		

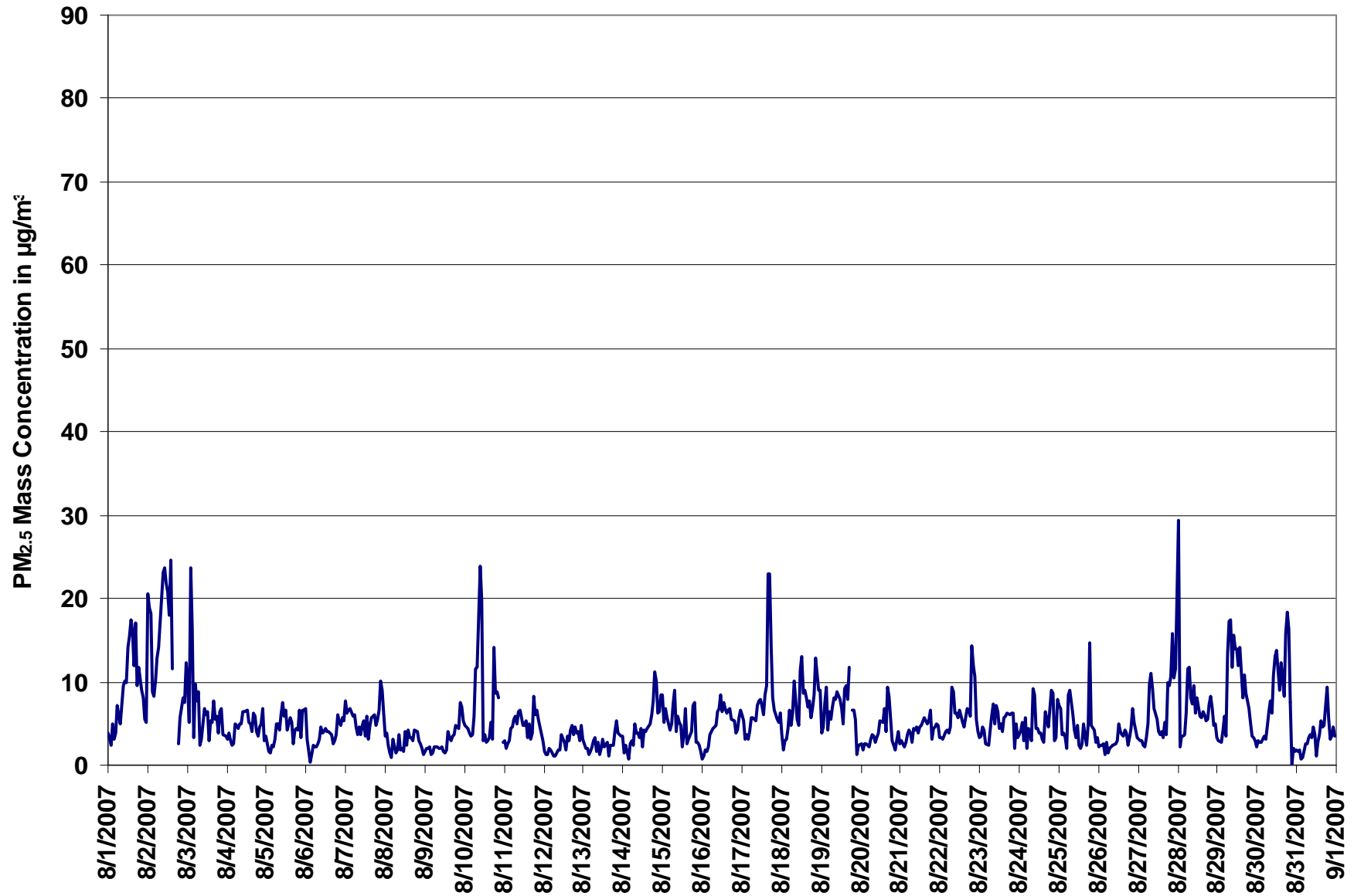
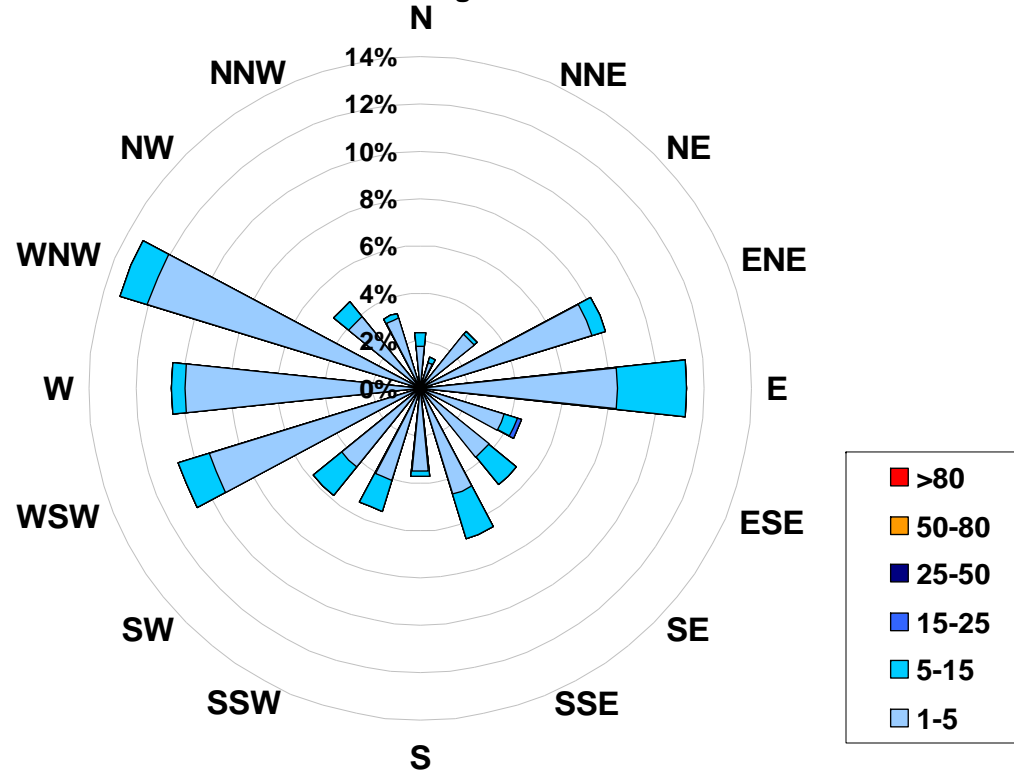


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 August 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	648
5	to	15	81
15	to	25	1
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			730

PASZA - Henry Pirker Relative Humidity Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

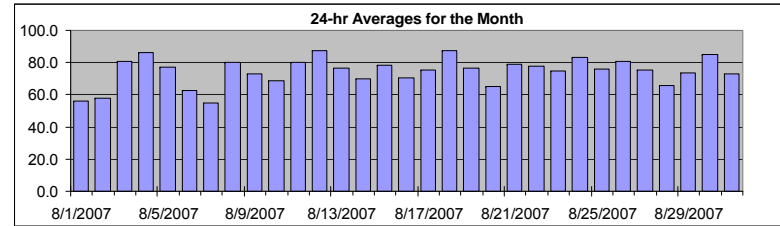
HOURLY AVERAGE TABLE

Relative Humidity (RH)

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

Summary

Maximum 1-hr Average:	95.9 %	19-Aug	5:00 6:00
Maximum 24-hr Value:	87.4 %	12-Aug	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	95.4	94.0	88.5	78.2	62.7	42.2	34.6	74.4 %	78.2 %

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-Aug-07	73	75	76	76	79	81	75	65	61	59	52	47	44	38	36	35	33	35	37	44	51	55	57	60	56.0	80.7
2-Aug-07	69	83	82	87	88	88	81	70	64	56	57	49	40	36	34	30	33	36	39	40	49	54	58	65	58.0	88.4
3-Aug-07	85	84	82	85	84	91	91	90	86	75	73	79	85	77	69	65	57	74	78	77	81	86	88	89	80.4	91.1
4-Aug-07	90	89	90	91	94	94	93	93	91	91	94	92	91	79	71	61	66	75	77	80	86	91	93	93	86.0	93.6
5-Aug-07	93	92	92	92	91	91	90	84	84	78	69	69	64	57	59	63	68	61	66	68	70	74	84	89	77.0	93.1
6-Aug-07	92	93	93	93	94	92	86	80	76	68	60	54	49	42	36	34	33	34	37	42	46	53	57	63	62.8	93.8
7-Aug-07	69	78	80	83	78	64	51	49	52	51	49	46	43	41	37	36	38	38	37	41	50	57	65	78	54.7	83.3
8-Aug-07	82	85	84	82	80	79	79	79	78	75	75	74	77	74	73	72	72	80	80	83	90	90	91	88	80.1	91.0
9-Aug-07	87	89	91	90	85	86	90	89	87	84	82	72	66	57	58	48	44	50	48	55	65	73	77	80	73.0	91.2
10-Aug-07	82	84	87	88	90	92	89	80	70	65	59	46	43	39	34	35	39	43	53	80	86	87	89	91	68.9	91.6
11-Aug-07	92	93	94	94	94	94	93	91	87	85	75	68	71	64	63	60	62	62	64	71	86	87	88	89	80.3	94.3
12-Aug-07	90	89	85	85	88	90	89	88	87	85	85	83	85	86	86	89	89	90	91	92	87	86	85	88	87.4	91.6
13-Aug-07	90	88	88	89	91	90	89	86	83	78	75	68	62	62	61	59	56	58	60	63	71	83	89	91	76.3	91.3
14-Aug-07	92	94	95	94	92	88	81	76	72	61	56	49	43	42	42	42	45	45	49	66	83	86	92	94	69.9	94.5
15-Aug-07	95	95	95	94	94	93	93	90	87	88	84	78	66	59	60	56	55	58	63	70	75	79	79	79	78.5	95.5
16-Aug-07	80	80	84	87	89	91	85	78	75	73	70	65	61	58	54	51	50	53	57	62	67	72	76	76	70.6	90.9
17-Aug-07	74	73	75	75	77	80	84	81	77	71	67	62	59	57	53	53	63	90	86	87	87	90	90	92	75.1	92.0
18-Aug-07	93	94	94	94	93	93	95	95	95	95	94	92	88	83	76	72	69	68	73	80	85	89	89	90	87.1	95.1
19-Aug-07	91	92	94	95	96	96	96	95	93	82	73	65	59	55	64	60	54	58	58	63	72	77	69	75	76.3	95.9
20-Aug-07	78	77	75	76	76	79	77	69	60	55	49	48	46	45	51	51	51	64	75	80	71	69	69	75	65.3	80.4
21-Aug-07	86	83	80	79	85	87	90	88	85	83	81	79	77	76	74	68	68	67	72	74	75	78	78	87	79.2	90.0
22-Aug-07	87	91	92	92	93	94	94	92	86	80	72	68	62	61	60	60	62	58	66	71	73	84	83	84	77.8	94.4
23-Aug-07	87	90	92	94	94	95	95	93	82	73	68	61	56	52	50	49	48	50	59	71	81	84	85	92	75.0	94.7
24-Aug-07	92	93	94	95	95	95	96	95	95	93	86	78	72	68	65	63	62	64	68	76	84	88	89	90	83.1	95.5
25-Aug-07	94	94	93	95	96	95	95	85	82	78	66	67	62	55	50	49	51	49	52	75	77	82	86	87	75.7	95.8
26-Aug-07	88	88	86	83	81	82	81	79	79	77	77	77	80	81	74	73	76	75	74	76	79	85	91	92	80.6	92.3
27-Aug-07	94	94	93	93	93	92	91	85	76	71	70	64	56	52	52	51	50	55	59	69	74	87	89	89	75.0	93.6
28-Aug-07	90	89	91	94	92	92	90	77	71	69	63	56	50	45	43	42	40	41	42	48	58	64	68	66	65.9	93.6
29-Aug-07	67	69	72	75	81	79	84	82	70	67	56	57	54	51	55	62	73	75	83	88	91	90	91	93	73.6	92.8
30-Aug-07	93	94	93	91	92	92	89	86	86	82	75	71	71	74	78	78	78	80	88	92	90	87	89	90	85.0	93.8
31-Aug-07	91	90	86	88	83	85	84	80	78	73	68	63	52	50	52	53	55	55	57	70	79	83	85	83	72.7	91.2
Hourly Avg	86.1	87.1	87.5	88.0	88.3	88.5	86.9	83.1	79.5	75.1	70.4	66.2	62.7	58.7	57.0	55.6	56.2	59.2	62.8	69.2	74.7	78.5	81.1	83.8		
Hourly Max	95.2	95.5	95.0	95.2	95.8	95.9	95.6	95.5	95.3	95.1	93.6	92.2	91.1	85.9	85.6	88.6	88.6	90.4	90.8	92.0	91.3	90.8	92.6	93.7		

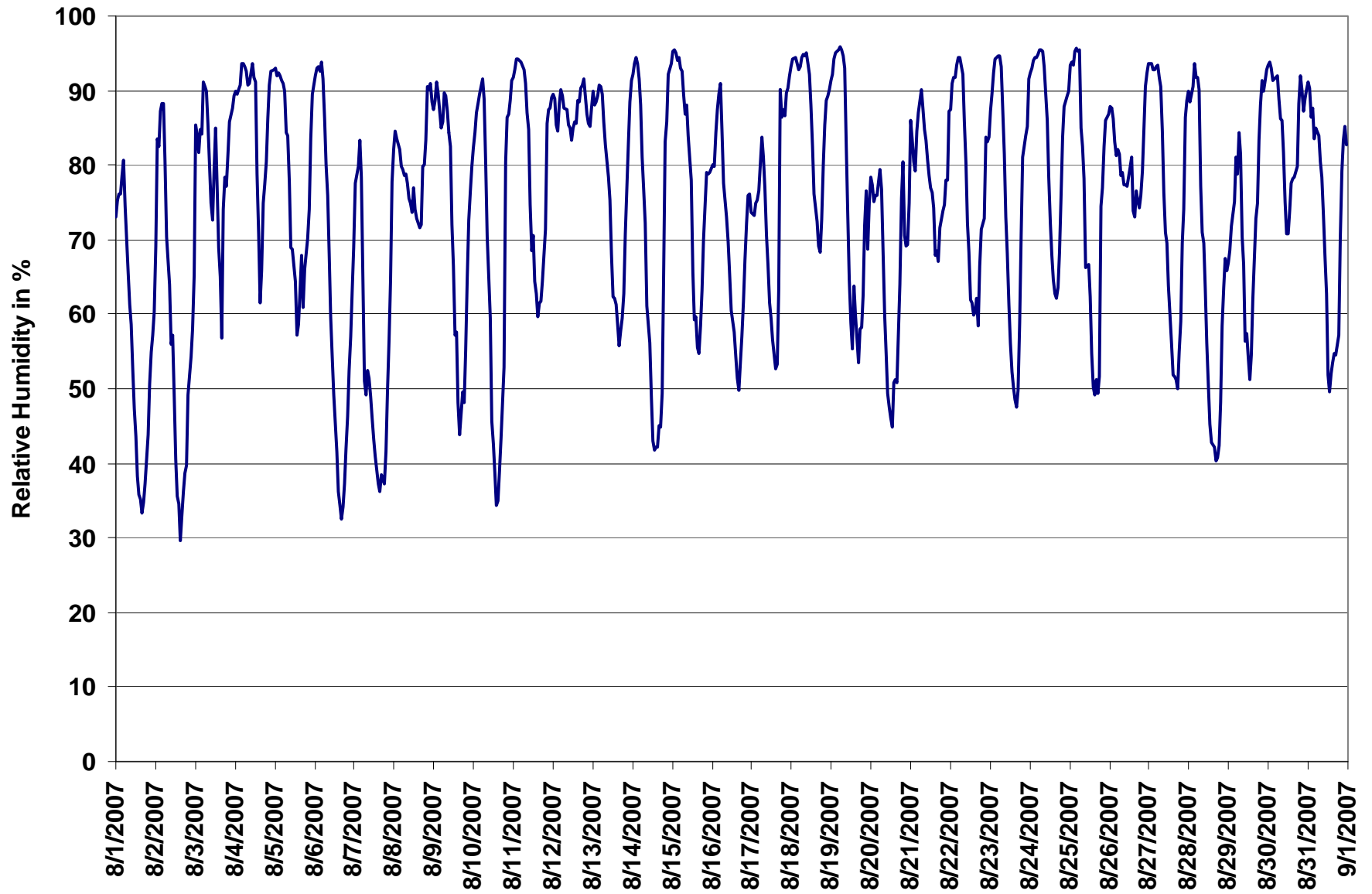


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

PASZA - Henry Pirker Temperature Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

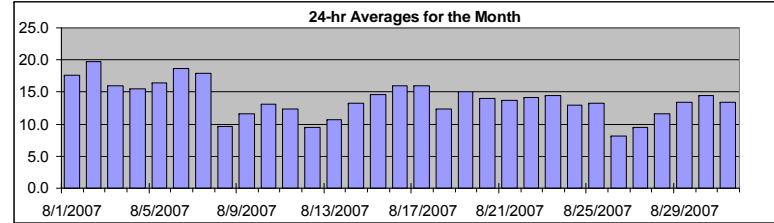
HOURLY AVERAGE TABLE

Ambient Temperature (T)

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

Summary

Maximum 1-hr Average:	27.7 °C	2-Aug	14:00 15:00
Maximum 24-hr Value:	19.7 °C	2-Aug	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	26.4	21.8	17.0	13.3	10.4	7.7	4.7	13.8 °C	13.3 °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	0:00		
1-Aug-07	11	10	10	10	9	8	11	14	15	18	20	22	23	24	25	25	25	24	24	22	21	19	18	17	17.7	25.0	
2-Aug-07	15	12	13	11	11	10	13	16	18	21	21	24	26	27	28	27	27	27	26	24	21	20	19	18	19.7	27.7	
3-Aug-07	16	15	16	14	14	13	14	14	15	17	17	16	16	17	18	20	21	18	17	16	15	15	14	13	15.9	21.2	
4-Aug-07	13	14	14	14	13	13	14	14	14	14	14	14	15	16	18	20	22	21	19	17	16	15	14	13	15.5	21.8	
5-Aug-07	12	12	12	12	12	11	12	14	15	17	20	20	21	23	23	21	19	22	19	19	17	15	14	13	16.4	22.9	
6-Aug-07	12	12	11	11	10	10	11	13	15	17	20	22	24	26	27	27	27	26	25	23	22	20	19	17	18.7	27.1	
7-Aug-07	16	15	14	13	14	16	18	18	18	18	19	21	21	22	23	23	22	22	21	20	18	16	13	11	18.0	22.9	
8-Aug-07	10	10	11	10	9	9	8	8	9	9	9	9	10	10	11	11	12	10	10	10	9	8	9	9	9.6	11.6	
9-Aug-07	9	9	9	9	9	9	8	8	8	9	9	10	12	14	16	15	17	16	17	15	13	11	10	10	11.6	17.2	
10-Aug-07	9	9	8	8	7	7	8	10	13	15	16	17	19	20	21	21	20	18	16	12	11	11	10	10	13.2	20.8	
11-Aug-07	10	9	8	8	8	8	9	10	11	12	14	15	15	16	16	16	16	16	15	15	13	12	12	12	12.3	16.4	
12-Aug-07	11	11	10	10	9	9	8	8	8	9	9	9	10	9	10	10	10	10	10	10	10	9	9	9	9.4	11.2	
13-Aug-07	8	8	8	8	8	8	8	8	9	10	10	12	13	13	14	14	15	15	14	13	12	10	8	8	10.6	15.2	
14-Aug-07	7	6	6	5	6	6	7	9	12	15	16	18	19	19	20	20	20	20	20	17	14	14	12	12	13.3	20.3	
15-Aug-07	11	11	11	11	10	10	11	12	13	13	15	16	18	18	20	20	20	20	18	17	16	14	13	13	14.6	20.5	
16-Aug-07	12	11	10	10	9	9	11	13	14	16	17	19	20	21	22	23	23	22	22	20	18	16	15	15	16.0	23.1	
17-Aug-07	15	15	14	14	13	13	12	13	15	17	19	20	21	21	23	22	20	16	16	15	14	13	12	11	16.0	22.6	
18-Aug-07	10	9	9	9	9	9	10	10	10	11	12	11	13	14	16	16	17	17	16	15	14	13	13	13	12.4	17.3	
19-Aug-07	12	12	12	11	11	11	11	11	12	15	17	19	20	20	18	19	20	19	18	17	15	14	14	13	15.1	20.0	
20-Aug-07	12	11	12	11	11	10	11	13	15	16	17	17	18	18	17	18	17	15	13	13	13	13	13	13	14.0	17.8	
21-Aug-07	11	12	12	12	12	12	11	11	12	13	14	14	15	15	16	17	17	17	16	15	14	13	13	12	13.7	17.2	
22-Aug-07	12	11	11	11	11	11	11	12	13	14	16	16	18	18	19	17	16	17	16	15	14	13	13	12	14.1	18.9	
23-Aug-07	11	11	11	11	11	10	10	11	14	16	17	18	19	19	19	20	20	19	17	15	13	12	12	11	14.5	20.0	
24-Aug-07	11	11	10	9	9	8	8	8	9	10	12	14	16	18	18	18	18	18	17	15	14	13	13	12	12.9	18.3	
25-Aug-07	12	11	11	11	11	10	10	13	13	14	16	15	16	18	18	18	16	16	15	12	11	10	9	9	13.2	18.2	
26-Aug-07	7	8	8	8	8	7	8	8	8	9	9	10	10	9	10	10	9	9	9	8	8	7	5	5	8.2	10.4	
27-Aug-07	4	5	5	5	5	5	5	5	8	11	11	12	13	14	16	15	16	15	14	13	10	9	7	6	9.5	15.8	
28-Aug-07	5	5	4	4	4	3	3	8	10	12	13	15	17	18	19	19	19	18	17	16	14	13	11	11	11.6	18.8	
29-Aug-07	11	11	11	10	9	9	9	10	13	14	17	17	18	19	18	17	15	15	14	14	13	13	13	13	13.4	19.4	
30-Aug-07	12	12	12	12	12	12	12	13	14	14	17	18	18	18	17	17	17	17	16	15	14	13	12	12	14.4	18.2	
31-Aug-07	12	11	11	11	11	10	11	12	13	14	17	18	18	17	17	17	17	17	16	15	13	12	11	10	13.5	17.6	
Hourly Avg	11.0	10.6	10.4	10.1	9.8	9.6	10.0	11.2	12.4	13.8	15.1	16.2	17.1	18.0	18.4	18.6	18.4	17.8	16.9	15.5	14.1	13.1	12.3	11.6			
Hourly Max	16.2	15.4	15.6	14.5	14.1	15.9	18.0	18.3	17.9	20.7	20.9	23.8	25.5	27.1	27.7	26.9	27.4	26.7	25.7	23.7	21.6	20.1	19.3	18.2			

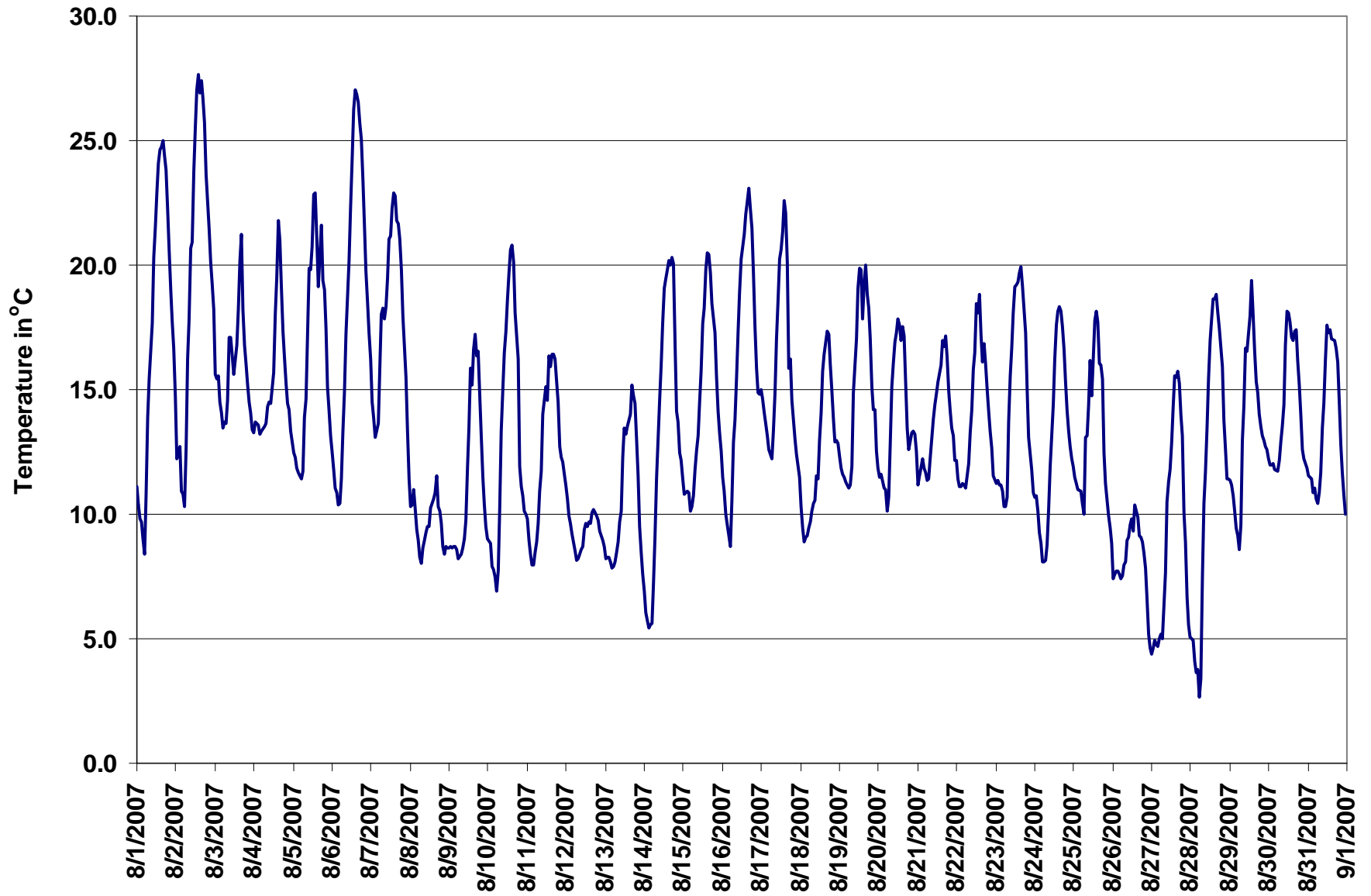


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

PASZA - Henry Pirker Solar Radiation Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

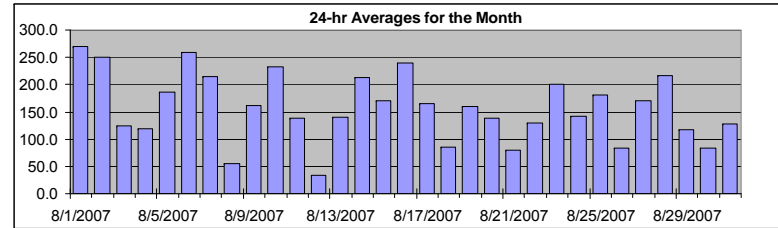
Solar Radiation (SR)

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

Summary

Maximum 1-hr Average:	716.9	W/m ²	1-Aug	12:00 13:00
Maximum 24-hr Value:	270.0	W/m ²	1-Aug	

AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	689.2	604.5	278.1	49.1	0.0	0.0	0.0	157.9 W/m ²	49.1 W/m ²



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Aug-07	0	0	0	0	1	13	127	232	399	522	615	681	717	715	667	595	479	366	240	87	26	0	0	0	270.0	716.9	
2-Aug-07	0	0	0	0	0	11	127	225	380	418	508	677	712	710	589	507	467	383	203	82	11	0	0	0	250.5	712.3	
3-Aug-07	0	0	0	0	0	2	17	32	191	337	156	103	143	283	427	407	471	225	107	59	15	0	0	0	123.9	471.2	
4-Aug-07	0	0	0	0	0	3	13	35	84	36	87	138	222	445	468	600	362	204	99	48	13	0	0	0	119.0	599.9	
5-Aug-07	0	0	0	0	0	7	68	182	226	402	440	363	484	637	571	270	212	366	125	96	34	0	0	0	186.8	637.1	
6-Aug-07	0	0	0	0	0	9	120	206	369	496	592	659	696	696	665	586	484	355	203	85	14	0	0	0	259.7	695.8	
7-Aug-07	0	0	0	0	0	14	84	98	140	308	392	611	532	699	639	531	401	369	234	97	15	0	0	0	215.2	699.4	
8-Aug-07	0	0	0	0	0	5	50	68	148	115	100	101	100	170	117	77	172	49	44	15	8	0	0	0	55.8	172.2	
9-Aug-07	0	0	0	0	0	2	13	35	59	83	143	297	448	672	445	555	463	327	226	82	10	0	0	0	160.8	671.7	
10-Aug-07	0	0	0	0	0	9	92	214	349	484	585	659	700	605	680	607	478	97	32	3	2	0	0	0	233.1	699.8	
11-Aug-07	0	0	0	0	0	4	33	70	144	282	483	367	273	586	285	267	245	191	89	15	3	0	0	0	139.0	586.1	
12-Aug-07	0	0	0	0	0	2	18	40	56	50	54	87	114	121	82	55	48	47	31	18	3	0	0	0	34.4	121.1	
13-Aug-07	0	0	0	0	0	2	23	56	108	143	176	341	443	286	396	337	458	329	215	66	6	0	0	0	141.1	458.1	
14-Aug-07	0	0	0	0	0	5	101	189	354	471	408	570	652	626	520	458	274	270	164	31	2	0	0	0	212.3	651.5	
15-Aug-07	0	0	0	0	0	2	26	65	105	190	346	310	528	422	645	548	447	271	102	73	6	0	0	0	170.3	644.6	
16-Aug-07	0	0	0	0	0	4	88	182	337	459	558	627	661	659	622	548	444	319	187	56	5	0	0	0	239.8	660.8	
17-Aug-07	0	0	0	0	0	2	28	144	262	438	539	629	452	475	613	284	20	36	36	17	4	0	0	0	165.8	628.8	
18-Aug-07	0	0	0	0	0	0	4	5	5	27	95	151	294	206	339	247	217	300	104	54	6	0	0	0	85.6	339.2	
19-Aug-07	0	0	0	0	0	1	15	49	143	366	459	550	632	315	220	423	351	184	117	24	1	0	0	0	160.5	632.4	
20-Aug-07	0	0	0	0	0	3	60	189	347	393	392	356	426	263	239	296	195	89	42	15	0	0	0	0	137.6	426.2	
21-Aug-07	0	0	0	0	0	0	8	51	78	106	143	163	228	224	241	261	203	151	52	13	2	0	0	0	80.2	261.4	
22-Aug-07	0	0	0	0	0	1	19	77	128	210	317	328	544	339	399	170	191	241	120	19	1	0	0	0	129.4	543.7	
23-Aug-07	0	0	0	0	0	2	13	58	263	411	489	627	586	657	521	446	423	239	62	6	0	0	0	0	200.1	656.8	
24-Aug-07	0	0	0	0	1	3	26	75	130	203	374	539	581	495	368	287	197	82	31	4	0	0	0	0	141.5	580.9	
25-Aug-07	0	0	0	0	0	1	46	185	262	405	425	199	557	582	554	420	304	292	111	12	0	0	0	0	181.5	582.5	
26-Aug-07	0	0	0	0	0	1	28	67	119	191	118	129	180	233	394	247	129	104	60	13	0	0	0	0	83.9	394.2	
27-Aug-07	0	0	0	0	0	1	19	64	159	277	285	288	505	621	615	483	410	262	83	31	1	0	0	0	171.0	620.7	
28-Aug-07	0	0	0	0	0	1	47	162	297	418	521	592	624	630	575	511	389	270	130	29	0	0	0	0	216.5	630.2	
29-Aug-07	0	0	0	0	0	1	19	98	227	238	362	298	549	489	200	149	90	70	32	11	0	0	0	0	118.0	548.9	
30-Aug-07	0	0	0	0	0	0	22	62	106	189	441	319	193	161	167	120	140	49	17	3	0	0	0	0	82.9	440.6	
31-Aug-07	0	0	0	0	0	0	18	62	148	211	287	524	558	398	307	197	144	104	84	36	1	0	0	0	128.3	557.7	
Hourly Avg	0.0	0.0	0.0	0.0	0.1	3.6	44.3	105.7	197.5	286.4	351.3	396.2	462.4	465.2	437.7	370.5	300.3	214.2	109.1	38.7	6.1	0.0	0.0	0.0			
Hourly Max	0.0	0.0	0.0	0.0	0.9	14.1	127.1	231.6	399.0	521.5	615.3	680.6	716.9	715.2	679.6	606.7	484.3	383.0	240.0	96.8	33.9	0.5	0.0	0.0			

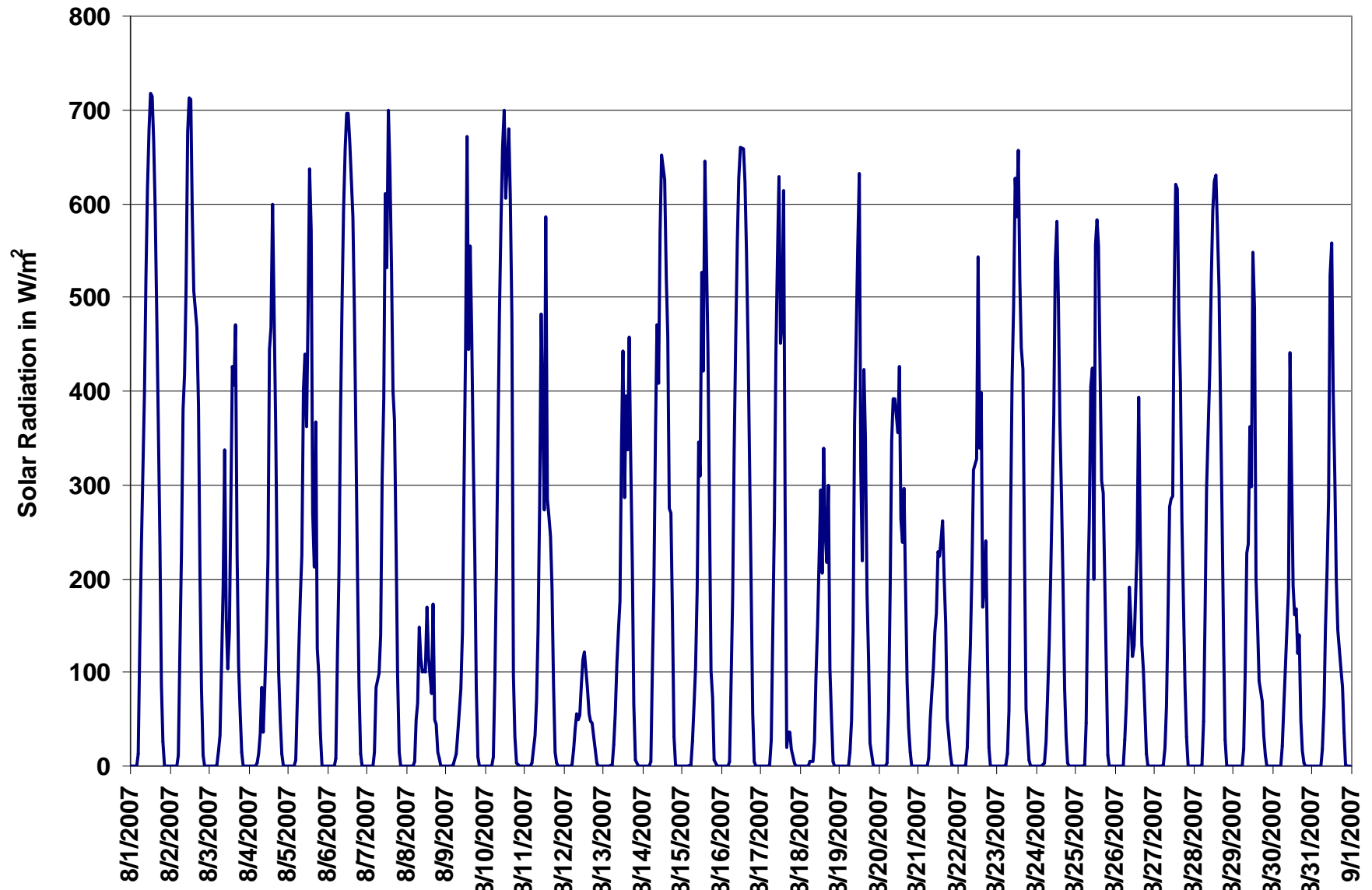


Figure 19. PASZA - Henry Pirker Solar Radiation 1-hr Average Monthly Trend

PASZA - Henry Pirker Scalar Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

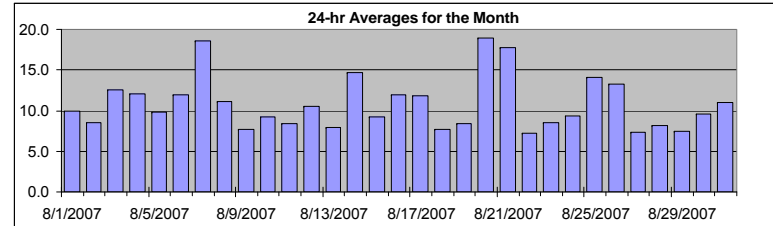
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	31.2	km/hr	20-Aug	10:00 11:00
Maximum 24-hr Value:	19.0	km/hr	20-Aug	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	28.3	21.7	12.4	9.4	7.4	6.0	5.3	10.8 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 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-Aug-07	13	11	10	9	10	8	10	12	13	11	8	9	9	8	8	9	10	11	10	13	11	9	8	8	10.0	13.2
2-Aug-07	6	7	7	7	7	7	7	7	8	7	9	7	8	8	8	10	10	11	10	13	10	10	10	11	8.6	13.4
3-Aug-07	11	16	12	20	10	10	10	12	13	10	7	10	10	13	13	11	14	16	15	15	14	13	14	13	12.5	19.6
4-Aug-07	11	11	12	12	13	12	11	12	15	17	16	15	15	14	11	10	13	15	13	10	7	7	9	7	12.0	16.6
5-Aug-07	8	10	10	11	11	11	11	10	10	9	8	9	8	8	11	15	10	9	15	12	12	7	6	6	9.8	14.8
6-Aug-07	6	6	6	7	6	8	8	10	9	11	11	13	13	15	17	22	24	24	20	16	11	9	8	8	12.0	24.0
7-Aug-07	8	8	7	7	9	15	24	29	27	27	27	24	24	21	22	24	24	27	24	19	14	9	12	11	18.5	29.2
8-Aug-07	12	13	16	16	17	17	17	14	13	11	11	9	9	9	8	7	8	10	9	8	9	8	8	8	11.1	16.7
9-Aug-07	8	8	7	5	6	6	7	7	8	8	7	6	7	8	8	8	8	9	8	10	11	8	10	9	7.7	10.5
10-Aug-07	8	7	8	8	7	6	7	6	6	7	9	12	11	9	8	9	12	13	16	11	14	11	10	6	9.2	15.5
11-Aug-07	10	9	9	6	6	6	7	7	6	9	7	7	9	10	10	9	10	11	12	9	9	9	8	7	8.5	12.2
12-Aug-07	10	12	12	13	13	11	12	13	12	13	11	11	13	17	14	9	5	6	7	7	8	8	8	7	10.5	16.5
13-Aug-07	8	7	7	7	6	7	7	8	8	7	6	6	6	9	10	10	9	9	10	10	9	8	8	7	7.9	10.5
14-Aug-07	7	7	7	7	10	10	12	10	13	16	22	25	29	28	26	24	21	21	16	11	9	7	6	5	14.7	29.3
15-Aug-07	6	7	6	6	5	6	5	6	8	10	11	11	11	12	12	11	13	13	12	11	10	10	9	9	9.2	12.8
16-Aug-07	8	8	7	6	6	6	7	9	11	10	10	12	14	15	17	18	17	19	18	16	14	13	11	14	12.0	18.6
17-Aug-07	12	12	12	12	10	10	9	12	10	12	11	11	12	12	13	15	13	17	15	17	10	8	7	9	11.8	17.1
18-Aug-07	8	7	7	6	7	7	9	7	8	7	9	10	9	8	7	6	6	8	10	10	9	6	6	7	7.7	10.4
19-Aug-07	6	6	8	6	7	7	7	8	9	8	8	8	8	7	10	8	8	9	10	9	13	9	12	9	8.4	13.0
20-Aug-07	10	11	12	9	9	10	12	15	20	25	31	29	28	29	24	22	26	19	17	16	19	20	20	22	19.0	31.2
21-Aug-07	20	21	22	21	22	22	19	19	20	20	22	23	23	21	18	20	17	14	11	12	11	11	10	8	17.7	23.0
22-Aug-07	7	7	7	7	6	6	6	5	6	6	6	7	6	8	8	11	9	9	8	9	8	6	7	7	7.2	10.7
23-Aug-07	7	6	6	7	6	7	7	6	7	8	9	9	12	13	13	11	9	10	10	11	8	8	7	6	8.5	13.1
24-Aug-07	5	5	5	5	7	6	6	7	6	7	9	10	13	12	13	13	14	13	13	11	9	12	13	10	9.4	13.7
25-Aug-07	12	9	7	8	10	9	7	6	10	10	17	18	17	18	24	28	30	29	24	12	10	8	7	10	14.1	30.1
26-Aug-07	12	15	14	16	17	12	12	15	18	17	16	14	15	17	19	18	15	14	11	7	7	7	7	6	13.3	19.0
27-Aug-07	7	6	5	6	6	7	7	7	5	6	7	8	10	10	11	11	11	10	8	5	5	7	5	7	7.3	11.4
28-Aug-07	7	6	7	6	7	7	6	7	7	8	9	9	8	9	10	9	9	10	9	9	10	10	10	8	8.2	9.9
29-Aug-07	8	7	7	6	6	6	6	6	6	7	7	9	9	9	10	10	7	6	6	7	8	7	7	10	7.4	10.2
30-Aug-07	10	11	11	11	8	7	8	7	9	10	9	7	7	9	10	10	8	9	8	11	15	14	10	10	9.6	15.1
31-Aug-07	10	9	9	7	9	7	8	9	12	12	14	16	20	20	16	14	11	10	10	9	8	8	7	8	11.0	20.3
1-hr Average	9.0	9.3	9.2	9.1	9.0	8.9	9.4	10.0	10.7	11.1	11.7	12.0	12.7	13.1	13.2	13.2	12.9	13.1	12.5	11.2	10.3	9.4	9.0	8.9		
Hourly Max	19.7	21.4	21.6	21.4	21.9	21.7	23.6	29.2	26.7	27.2	31.2	29.3	29.3	29.0	26.5	27.8	30.1	29.0	24.3	19.3	19.2	20.0	20.3	21.8		

PASZA - Henry Pirker Vector Wind Speed Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

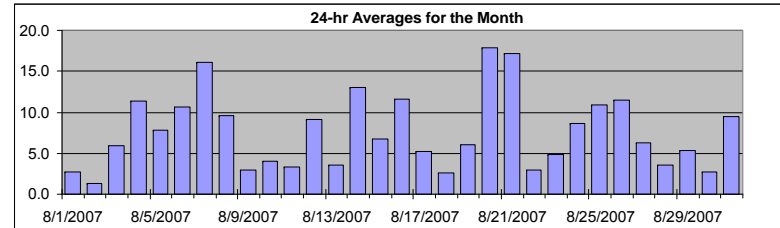
HOURLY AVERAGE TABLE

Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	30.9	km/hr	20-Aug	10:00 11:00
Maximum 24-hr Value:	17.9	km/hr	20-Aug	



Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	28.0	21.6	11.9	8.7	6.4	3.7	2.6	9.7 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-Aug-07	12	11	10	9	10	8	10	12	13	11	6	8	6	4	4	4	7	8	12	13	11	9	8	8		2.7	12.9	
2-Aug-07	4	6	4	6	7	6	7	7	7	6	8	5	3	7	6	9	5	10	10	13	9	10	9	8		1.3	12.6	
3-Aug-07	4	15	3	10	7	10	9	9	12	5	6	8	10	13	13	6	13	16	15	15	14	13	14	13		5.9	15.7	
4-Aug-07	11	11	12	12	13	12	11	12	15	16	16	15	14	14	10	9	13	15	13	9	6	6	8	7		11.4	16.5	
5-Aug-07	8	10	9	11	10	11	11	9	9	7	7	8	7	6	10	13	10	9	14	11	4	6	4	6		7.8	14.3	
6-Aug-07	5	6	6	7	6	7	8	9	9	10	10	12	12	14	16	22	24	23	19	16	11	9	7	7		10.6	23.7	
7-Aug-07	7	8	7	7	9	15	23	29	27	27	27	24	24	21	22	23	24	26	24	19	14	9	11	11		16.0	29.1	
8-Aug-07	12	13	16	16	16	17	16	14	13	10	9	8	9	8	7	4	7	10	7	6	8	7	8	8		9.6	16.6	
9-Aug-07	8	8	6	4	6	6	7	7	7	8	5	3	4	6	3	3	3	7	6	9	10	8	9	9		3.0	10.4	
10-Aug-07	8	7	8	7	7	6	6	4	3	5	8	10	10	7	5	7	11	13	2	8	13	10	5	4		4.1	13.4	
11-Aug-07	9	9	9	5	5	5	7	6	4	9	5	3	9	9	8	7	9	10	12	8	8	8	7	7		3.3	11.9	
12-Aug-07	10	12	12	13	12	11	12	13	12	13	11	10	13	16	13	8	2	6	6	7	8	8	7	7		9.1	16.3	
13-Aug-07	8	7	5	6	6	6	7	8	8	5	5	4	4	7	10	9	8	7	9	10	8	8	8	7		3.6	10.0	
14-Aug-07	7	7	6	7	9	9	11	10	12	16	22	25	29	28	26	24	21	21	16	10	9	6	5	3		13.0	28.9	
15-Aug-07	4	6	4	4	2	5	4	5	8	10	10	10	10	12	11	10	12	12	12	11	10	10	10	9		6.8	12.4	
16-Aug-07	8	8	7	5	6	6	6	8	11	10	10	11	13	15	17	17	17	18	18	16	14	13	11	14		11.6	18.3	
17-Aug-07	12	12	12	12	10	10	9	11	10	11	11	10	12	11	13	14	10	15	13	16	10	8	7	9		5.2	16.4	
18-Aug-07	7	7	7	6	6	2	6	5	4	2	4	9	9	6	6	1	3	7	10	10	8	5	5	7		2.6	10.2	
19-Aug-07	6	4	7	6	7	6	7	8	9	7	6	6	5	3	10	3	6	8	7	9	13	9	12	9		6.0	12.8	
20-Aug-07	9	11	11	7	9	10	12	15	20	25	31	29	28	29	23	22	25	18	17	15	19	20	20	22		17.9	30.9	
21-Aug-07	20	21	21	21	22	22	19	18	20	20	21	23	23	21	18	20	16	14	11	12	11	11	9	7		17.1	22.8	
22-Aug-07	7	6	6	6	5	5	5	3	5	5	4	4	3	5	6	10	7	9	7	5	5	4	6	7		2.9	10.2	
23-Aug-07	7	5	3	4	6	7	6	6	6	8	8	7	11	12	11	9	4	8	9	6	4	8	5	3		4.9	12.4	
24-Aug-07	3	3	5	4	6	6	5	7	5	5	8	9	12	11	12	13	13	13	13	10	9	12	13	7		8.7	13.4	
25-Aug-07	4	6	7	7	10	8	6	6	10	9	16	18	17	17	23	27	30	29	24	12	10	8	7	10		10.9	29.9	
26-Aug-07	11	15	14	16	17	12	12	15	17	16	15	13	14	17	19	18	14	14	11	7	7	6	6	5		11.4	18.7	
27-Aug-07	6	6	4	5	4	6	6	5	3	4	3	7	10	9	9	10	10	9	7	4	3	3	3	7		6.3	9.9	
28-Aug-07	4	5	7	6	7	6	4	6	7	8	8	7	5	8	8	8	7	5	9	9	9	10	10	8		3.6	9.8	
29-Aug-07	8	7	7	3	2	5	6	6	5	6	9	8	7	9	10	7	5	6	7	6	7	6	6	10		5.3	10.1	
30-Aug-07	10	11	11	11	7	7	7	7	8	10	8	3	4	8	10	8	6	7	4	9	14	14	10	10		2.8	14.4	
31-Aug-07	10	9	7	4	9	7	8	9	11	11	14	15	20	20	15	14	11	10	10	9	8	8	6	8		9.4	20.0	
1-hr Vector	2.1	2.8	2.2	3.8	3.3	3.3	3.4	4.1	4.0	3.6	4.5	5.4	4.8	4.4	4.0	3.9	4.2	3.8	3.3	2.3	1.4	0.3	0.5	1.8				
Hourly Max	19.6	21.3	21.5	21.3	21.8	21.7	23.3	29.1	26.6	27.1	30.9	29.0	28.9	28.7	26.1	27.4	29.9	28.7	24.2	19.1	19.1	19.9	20.2	21.6				

PASZA - Henry Pirker Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	351.5	326.2	277.9	228.2	107.0	45.6	9.6	260 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		
1-Aug-07	259	263	274	259	273	282	277	267	247	240	232	220	238	203	149	137	114	107	80	83	85	85	92	100	216	SW
2-Aug-07	357	300	354	287	280	226	237	255	234	221	206	219	280	246	287	350	18	89	108	125	137	118	88	146	212	SSW
3-Aug-07	132	334	118	248	112	156	133	268	320	326	196	209	169	172	166	199	281	301	287	269	257	260	248	251	240	WSW
4-Aug-07	250	279	277	281	285	286	289	285	280	284	293	297	307	324	310	298	280	284	280	290	271	229	249	236	284	WNW
5-Aug-07	240	242	233	239	241	245	247	265	252	251	254	267	269	246	269	312	314	270	238	223	290	103	156	156	253	WSW
6-Aug-07	184	221	225	246	282	252	201	211	194	186	202	207	203	225	229	253	249	250	246	253	239	214	166	150	227	SW
7-Aug-07	140	145	157	166	212	240	261	249	245	252	261	265	262	270	273	275	273	269	261	253	254	260	322	317	258	WSW
8-Aug-07	314	306	307	323	330	335	347	349	353	338	347	350	336	325	297	265	278	300	217	258	274	301	291	309	318	NW
9-Aug-07	292	293	305	345	50	27	64	69	75	63	55	115	202	199	149	243	316	358	68	88	85	91	97	100	66	ENE
10-Aug-07	95	97	98	108	100	105	134	194	141	118	115	139	154	188	200	163	108	95	202	5	343	332	25	276	121	ESE
11-Aug-07	270	289	327	300	282	302	243	289	145	170	153	93	55	60	54	56	57	59	68	47	7	53	21	36	33	NNE
12-Aug-07	33	28	34	46	41	40	44	46	44	47	39	22	1	357	1	26	31	303	301	310	8	0	4	303	20	NNE
13-Aug-07	301	317	322	315	311	313	308	309	321	11	105	215	157	266	281	270	230	230	206	193	185	156	159	172	255	WSW
14-Aug-07	163	152	197	225	236	269	227	226	232	248	232	237	244	244	255	257	265	264	271	295	309	308	291	287	249	WSW
15-Aug-07	190	349	358	287	230	345	136	44	81	88	109	97	102	87	66	71	83	71	66	48	48	65	68	67	72	ENE
16-Aug-07	54	36	26	38	28	31	39	61	79	78	81	80	65	74	75	77	79	71	64	58	52	54	56	68	64	ENE
17-Aug-07	65	69	60	68	75	70	71	79	69	76	83	82	75	57	67	81	196	308	259	293	312	318	288	279	53	NE
18-Aug-07	292	295	287	228	284	147	300	8	145	68	181	203	145	133	158	104	192	117	98	88	102	160	136	64	143	SE
19-Aug-07	44	108	113	82	122	134	127	131	164	169	183	221	199	163	163	146	171	140	219	229	189	197	239	217	170	S
20-Aug-07	218	221	243	286	237	217	226	235	244	246	251	248	250	246	270	281	272	298	295	269	256	244	253	258	255	WSW
21-Aug-07	254	255	257	257	260	264	268	267	274	283	291	287	292	294	296	292	292	294	285	270	265	287	287	291	277	W
22-Aug-07	287	307	307	302	328	284	292	250	209	197	225	198	244	312	334	344	22	84	142	291	91	162	288	274	289	WNW
23-Aug-07	289	293	278	280	300	313	298	309	280	256	266	279	283	295	312	298	320	337	70	165	40	90	100	239	297	WNW
24-Aug-07	342	110	96	102	82	152	149	116	106	84	99	104	98	104	92	86	80	82	73	78	87	91	106	109	95	E
25-Aug-07	54	149	161	190	218	263	285	225	202	196	244	247	250	240	245	259	261	251	248	318	310	295	304	281	250	WSW
26-Aug-07	283	274	277	279	276	279	277	266	268	260	273	272	313	338	333	337	353	341	331	332	335	319	302	289	298	WNW
27-Aug-07	255	252	184	284	255	209	218	237	226	243	249	233	226	217	245	224	254	265	293	236	173	317	284	298	245	WSW
28-Aug-07	277	269	286	258	257	280	306	236	232	201	187	165	163	173	179	160	165	133	121	92	97	100	97	79	172	S
29-Aug-07	73	78	87	95	88	87	141	154	283	334	34	93	124	135	165	162	159	90	143	77	100	120	117	104	110	ESE
30-Aug-07	96	103	99	107	95	39	58	65	67	78	100	196	360	82	99	112	85	291	219	247	268	264	227	219	107	ESE
31-Aug-07	213	194	235	268	246	242	238	252	238	260	253	238	243	245	232	219	218	206	182	156	155	145	155	233	226	SW
Hourly Avg	272	280	279	274	273	274	263	263	247	249	237	234	247	250	260	269	271	291	244	274	296	244	250	245		

PASZA - Henry Pirker Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	80.5	66.2	33.9	18.0	10.5	6.2	5.2

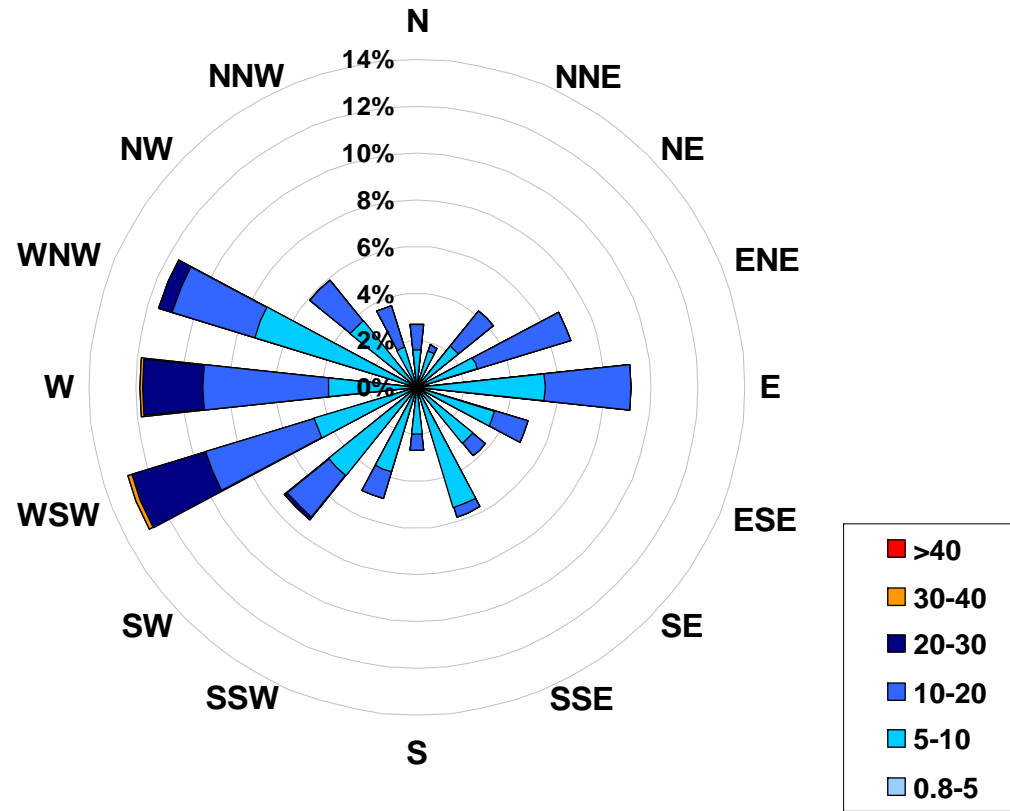
Status Flag Characters

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

Day Mountain Standard Time

Hour Start	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-Aug-07	25	16	14	17	5	11	6	12	14	16	39	49	70	77	80	43	36	17	10	8	6	10	7			79.7	
2-Aug-07	52	29	53	29	12	20	18	21	16	40	21	53	75	33	50	32	66	23	21	19	19	14	15	51		74.6	
3-Aug-07	81	15	73	62	55	17	28	47	12	81	31	38	10	16	13	56	20	8	9	10	7	12	6	7		81.2	
4-Aug-07	14	6	6	6	6	5	5	6	5	7	8	6	14	13	25	27	16	8	6	11	31	29	22	22		31.4	
5-Aug-07	17	14	11	13	8	8	12	18	19	37	36	21	21	51	29	30	22	18	15	12	81	43	61	15		80.9	
6-Aug-07	43	13	20	24	21	25	20	16	18	20	17	19	18	19	18	11	9	8	6	8	17	15	19	14		43.1	
7-Aug-07	15	7	9	19	6	19	11	5	5	7	6	7	8	10	9	9	6	7	7	8	7	8	26	8		26.1	
8-Aug-07	6	8	8	9	7	7	10	12	15	26	31	28	21	28	38	54	23	13	36	45	13	18	12	12		53.6	
9-Aug-07	8	9	13	35	18	18	25	16	18	18	50	67	60	47	77	73	78	45	41	20	7	7	5	6		77.8	
10-Aug-07	6	8	6	19	13	17	31	49	67	50	37	28	35	51	61	44	39	13	83	46	10	29	60	54		83.2	
11-Aug-07	19	8	16	49	38	37	28	30	48	25	50	70	17	31	37	35	25	20	13	16	31	27	24	18		70.4	
12-Aug-07	13	12	10	8	9	12	11	11	13	10	11	15	13	9	11	15	69	25	17	14	20	12	24	27		69.4	
13-Aug-07	11	17	34	20	8	9	10	12	15	37	43	57	58	37	24	27	31	40	25	11	16	5	5	13		58.4	
14-Aug-07	10	12	41	22	28	31	17	17	19	18	10	9	9	9	10	10	8	8	10	18	23	30	39	67		66.9	
15-Aug-07	46	23	74	57	74	47	57	27	20	16	19	18	19	16	20	22	20	15	13	11	9	10	7	9		74.5	
16-Aug-07	10	15	13	39	15	15	15	18	15	20	24	23	15	16	14	13	13	11	9	8	8	7	10	8		38.9	
17-Aug-07	10	10	10	10	9	10	9	11	17	19	20	22	22	23	17	18	44	29	32	18	15	22	22	15		43.5	
18-Aug-07	10	19	26	26	36	91	69	51	71	80	77	36	21	32	40	96	66	37	16	12	27	36	22	20		96.0	
19-Aug-07	23	50	30	25	21	28	17	14	17	35	37	50	61	77	18	72	49	39	45	19	11	15	9	10		76.7	
20-Aug-07	8	8	34	41	15	11	7	9	7	9	8	7	7	9	12	10	12	7	8	9	6	6	5	6		41.4	
21-Aug-07	7	7	5	6	5	5	6	7	5	6	6	7	7	7	7	8	9	7	7	9	12	15	18	19		19.3	
22-Aug-07	23	40	20	28	35	24	26	53	34	46	66	59	66	62	49	24	37	21	31	63	73	62	27	16		73.3	
23-Aug-07	21	31	62	54	20	8	14	17	25	21	35	41	24	20	33	39	72	42	30	55	68	16	54	65		71.7	
24-Aug-07	55	60	34	40	14	16	29	20	34	52	29	22	20	24	18	15	12	9	10	19	14	8	7	60		60.2	
25-Aug-07	80	42	19	20	17	15	26	32	16	22	18	8	12	14	12	11	7	8	12	9	8	10	16	11		80.2	
26-Aug-07	9	6	6	7	4	7	11	8	8	11	9	14	22	9	10	8	15	11	14	19	9	14	18	33		32.8	
27-Aug-07	35	28	40	36	53	15	17	43	61	45	69	49	23	23	34	33	25	24	34	41	57	81	57	24		80.8	
28-Aug-07	56	31	16	28	21	31	55	20	23	17	31	42	59	39	44	46	40	61	20	8	6	6	6	12		61.0	
29-Aug-07	11	17	16	63	78	48	18	29	38	37	37	21	36	42	18	7	15	37	24	16	17	31	42	8		78.1	
30-Aug-07	7	7	9	11	27	18	12	13	18	12	24	68	66	31	16	34	60	38	83	39	18	12	16	11		83.2	
31-Aug-07	13	13	48	65	14	19	13	25	17	17	12	12	10	10	16	13	12	12	13	7	7	8	41	31		64.9	
Hourly Max	81	60	74	65	78	91	69	53	71	81	77	70	75	77	77	96	78	61	83	63	81	81	61	67			

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



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	5
5	to	10	421
10	to	20	266
20	to	30	50
30	to	40	2
	>	40	0
Total Non-Zero Values			744

PASZA – Evergreen Park Station

Monthly Summary Tables, Graphs and Roses

PASZA - Evergreen Park Sulphur Dioxide Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

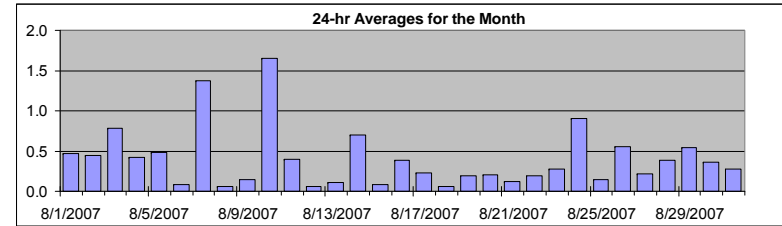
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: August 1, 2007 to September 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:	21.5 ppb	10-Aug	10:00	11:00
Maximum 24-hr Average:	1.7 ppb	10-Aug		



AIC Time:	33 hrs	Operational Time:	709 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	4.3	1.6	0.3	0.1	0.0	0.0	0.0	0.4 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-Aug-07	0	A	0	0	0	0	0	0	0	2	1	0	0	0	1	1	2	1	0	0	0	0	0	0	0.5	1.9
2-Aug-07	A	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	1	1	0	A	0.4	2.0
3-Aug-07	1	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	2	4	2	1	A	2	0.8	4.3	
4-Aug-07	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.4	2.2	
5-Aug-07	0	0	0	0	0	0	0	0	1	1	2	1	1	1	1	0	0	0	1	1	A	0	0	0.5	1.8	
6-Aug-07	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.6	
7-Aug-07	0	0	0	0	0	0	3	10	2	3	8	C	C	A	1	0	0	1	0	0	0	0	0	1.4	10.2	
8-Aug-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
9-Aug-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0.1	0.9	
10-Aug-07	0	0	0	0	A	0	0	0	0	4	22	6	2	1	0	0	1	0	0	0	0	0	0	1.7	21.5	
11-Aug-07	0	0	0	A	0	0	0	0	0	1	4	1	1	0	0	0	0	0	0	0	0	0	0	0.4	3.8	
12-Aug-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	
13-Aug-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.1	0.6	
14-Aug-07	A	0	0	0	0	0	0	0	0	0	0	1	0	0	3	3	2	3	1	0	0	0	0	0.7	3.3	
15-Aug-07	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	0.1	
16-Aug-07	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	1	0	0	0	0	A	0	0.4	2.1	
17-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	A	0	0	0.2	0.6	
18-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.2	
19-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	A	0	0	0	0	0.2	1.4	
20-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	A	0	0	0	0	0	0	0.2	1.7	
21-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.1	0.2	
22-Aug-07	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0.2	1.1	
23-Aug-07	0	0	0	0	0	A	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	1.3	
24-Aug-07	0	0	0	0	A	0	1	11	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	10.7	
25-Aug-07	0	0	0	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.1	0.8	
26-Aug-07	0	0	A	0	0	0	1	2	1	3	3	1	1	0	0	0	0	0	0	0	0	0	0	0.5	3.3	
27-Aug-07	0	A	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0.2	1.1	
28-Aug-07	A	0	0	0	0	0	0	0	1	2	1	1	0	0	0	0	1	1	0	0	0	0	0	0.4	1.6	
29-Aug-07	0	0	0	0	0	0	0	0	0	0	1	2	5	2	0	0	0	0	0	0	0	A	0	0.5	5.5	
30-Aug-07	0	0	1	0	0	0	0	0	0	0	1	2	1	1	0	0	0	0	0	0	0	A	0	0.4	2.0	
31-Aug-07	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	A	0	0	0.3	2.4	
Hourly Avg	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.9	0.6	0.7	1.7	0.8	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.1		
Hourly Max	2.2	1.8	1.1	0.7	0.4	0.3	2.7	10.7	6.7	3.7	21.5	6.3	2.2	5.5	3.3	3.3	2.2	3.2	1.9	4.3	2.1	1.3	0.4	1.6		

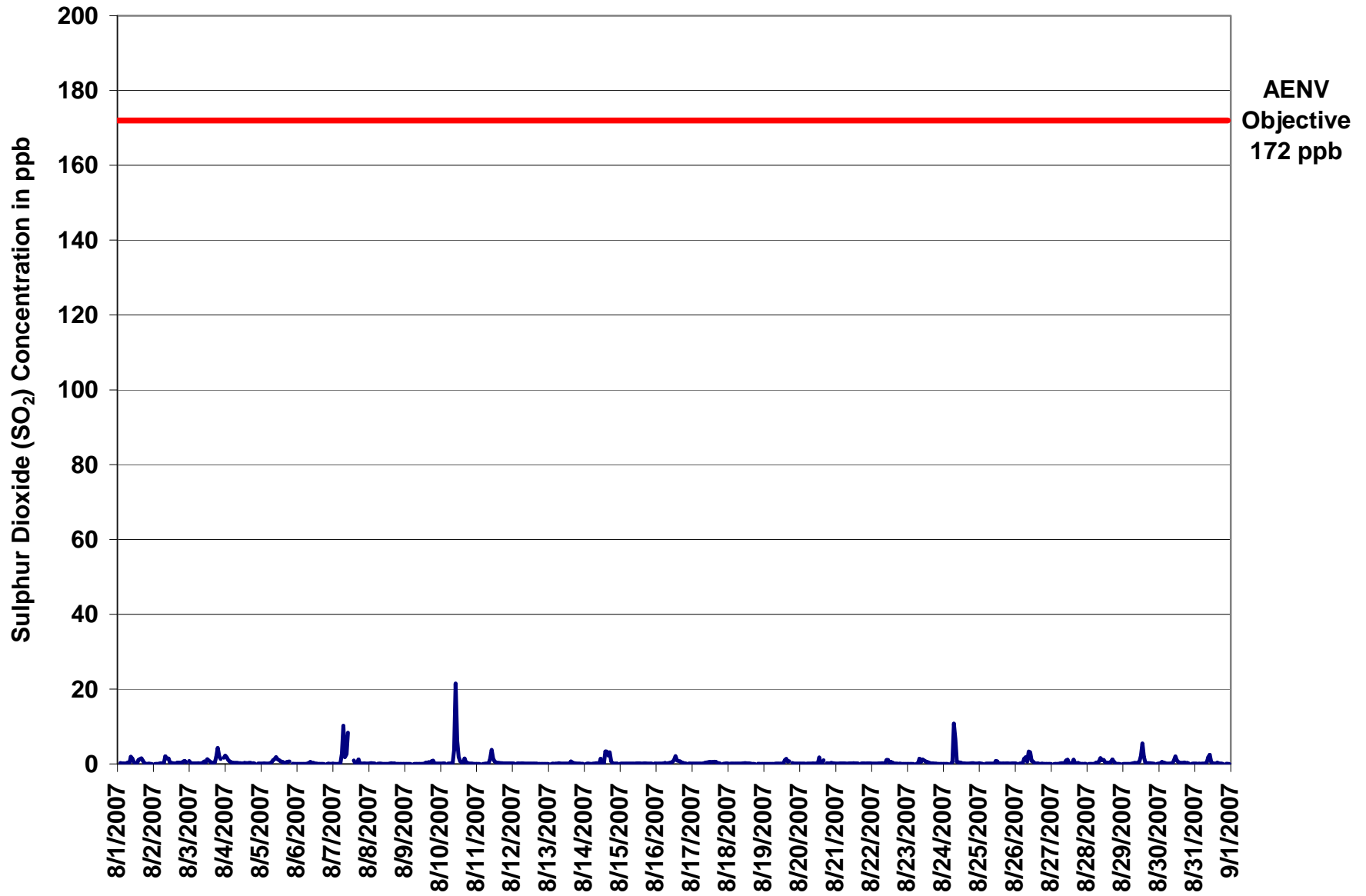


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

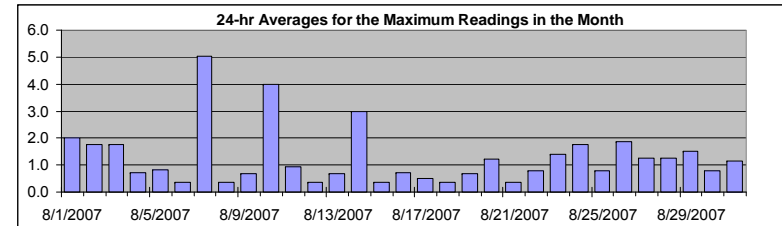
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

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

Summary

Maximum 1-hr Value:	40.2	ppb	10-Aug	10:00 11:00
Maximum 24-hr Value:	5.0	ppb	7-Aug	



AIC Time:	33 hrs	Operational Time:	709 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	14.1	6.4	0.6	0.4	0.3	0.2	0.2	1.2 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-Aug-07	0	A	1	0	1	0	1	1	3	9	10	5	0	0	2	3	2	2	5	0	0	0	0	0	2.0	9.8
2-Aug-07	A	0	0	0	0	0	0	1	9	8	7	1	1	1	0	0	1	1	1	1	2	4	1	A	1.7	8.5
3-Aug-07	2	1	0	0	0	0	0	1	0	1	1	1	2	2	1	1	0	1	7	11	4	3	A	2	1.8	11.4
4-Aug-07	3	2	2	1	1	1	0	0	1	0	0	0	0	1	0	1	1	1	0	0	1	A	0	0	0.7	2.7
5-Aug-07	0	0	0	0	0	0	1	1	1	2	2	1	1	1	1	1	1	1	1	A	0	0	0	0	0.8	2.3
6-Aug-07	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0.3	0.8
7-Aug-07	0	0	0	0	0	3	12	19	17	16	17	C	C	A	6	1	3	8	0	0	0	0	0	0	5.0	18.7
8-Aug-07	0	0	1	1	0	A	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0.4	0.8
9-Aug-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	2	3	2	2	1	1	1	0	0	0	0.7	2.8
10-Aug-07	0	0	0	0	A	0	0	0	1	18	40	17	3	2	1	1	3	1	1	0	0	0	0	0	4.0	40.2
11-Aug-07	0	0	0	A	0	0	1	0	0	4	6	2	1	1	1	1	1	0	0	0	0	0	0	0	0.9	6.4
12-Aug-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4	0.5
13-Aug-07	0	A	0	0	0	0	0	1	0	0	0	0	0	0	6	3	1	0	0	0	0	1	0	0	0.7	5.5
14-Aug-07	A	0	1	0	0	0	0	0	2	0	0	6	0	0	13	12	9	12	6	0	0	0	0	A	3.0	12.6
15-Aug-07	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.5
16-Aug-07	0	0	0	0	0	0	0	0	0	1	1	1	1	3	2	1	1	1	0	0	0	A	0	0	0.7	2.7
17-Aug-07	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	A	0	0	0	0	0.5	0.9
18-Aug-07	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0.4	0.7
19-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	1	1	A	1	0	0	0	0	0	0.7	3.6
20-Aug-07	1	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	A	0	0	0	1	0	0	1.2	10.2
21-Aug-07	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	A	0	0	0	0	0	0	0	0.4	0.6
22-Aug-07	0	0	0	0	0	0	0	0	0	1	3	4	1	4	1	0	0	0	0	1	0	0	0	0	0.8	4.1
23-Aug-07	0	0	0	0	0	A	0	1	11	1	5	4	4	1	1	0	0	0	0	0	0	0	0	0	1.4	10.9
24-Aug-07	0	0	0	0	A	1	5	14	12	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1.7	14.3
25-Aug-07	1	0	0	A	0	0	0	0	0	0	0	7	3	0	0	0	0	0	0	0	0	0	0	0	0.8	6.5
26-Aug-07	0	0	A	0	0	0	3	5	3	8	11	5	3	1	0	0	0	0	0	0	0	0	0	0	1.9	10.7
27-Aug-07	0	A	0	0	0	0	0	1	1	1	3	7	1	0	4	5	2	0	2	0	0	0	0	0	1.3	7.0
28-Aug-07	A	0	0	0	0	0	1	3	3	6	2	2	1	0	1	0	3	2	2	0	0	0	0	A	1.3	5.7
29-Aug-07	0	0	0	0	0	0	0	1	1	1	1	2	10	10	5	1	0	0	0	0	0	A	0	0	1.5	10.3
30-Aug-07	0	0	1	1	1	0	0	0	0	0	2	3	2	1	1	1	1	1	0	0	0	A	0	0	0.8	3.3
31-Aug-07	0	0	0	0	0	0	0	1	2	9	7	2	1	0	0	1	0	0	0	0	A	0	0	0	1.2	9.0
Hourly Avg	0.5	0.4	0.4	0.4	0.3	0.4	1.0	1.8	2.3	2.9	4.0	2.5	1.3	1.4	1.6	1.5	1.6	1.3	1.1	0.8	0.5	0.5	0.3	0.4		
Hourly Max	2.7	2.1	1.5	0.9	0.8	2.6	12.1	18.7	16.6	18.3	40.2	16.7	10.0	10.3	12.6	12.3	10.2	11.7	6.9	11.4	3.6	3.5	1.4	2.1		

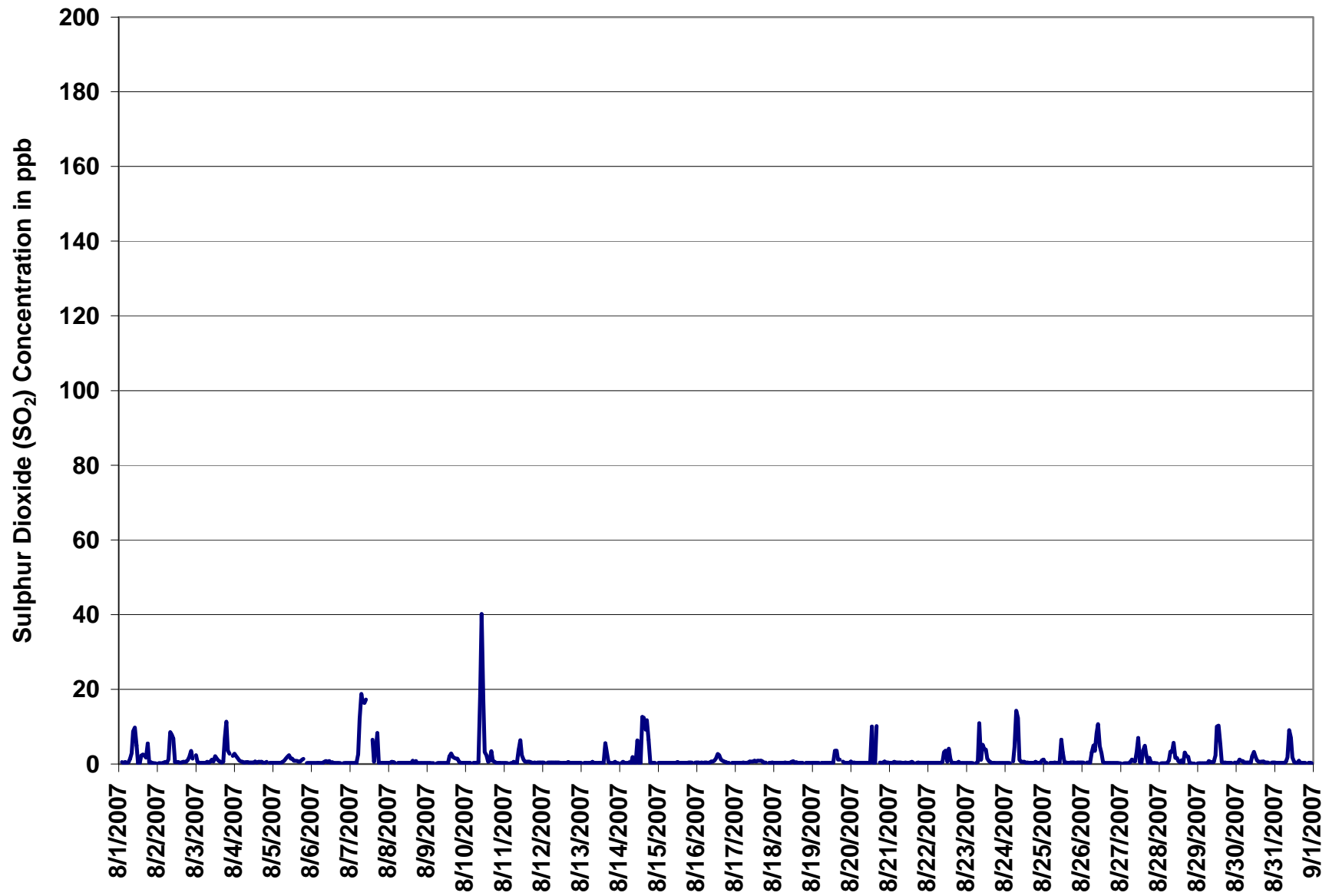
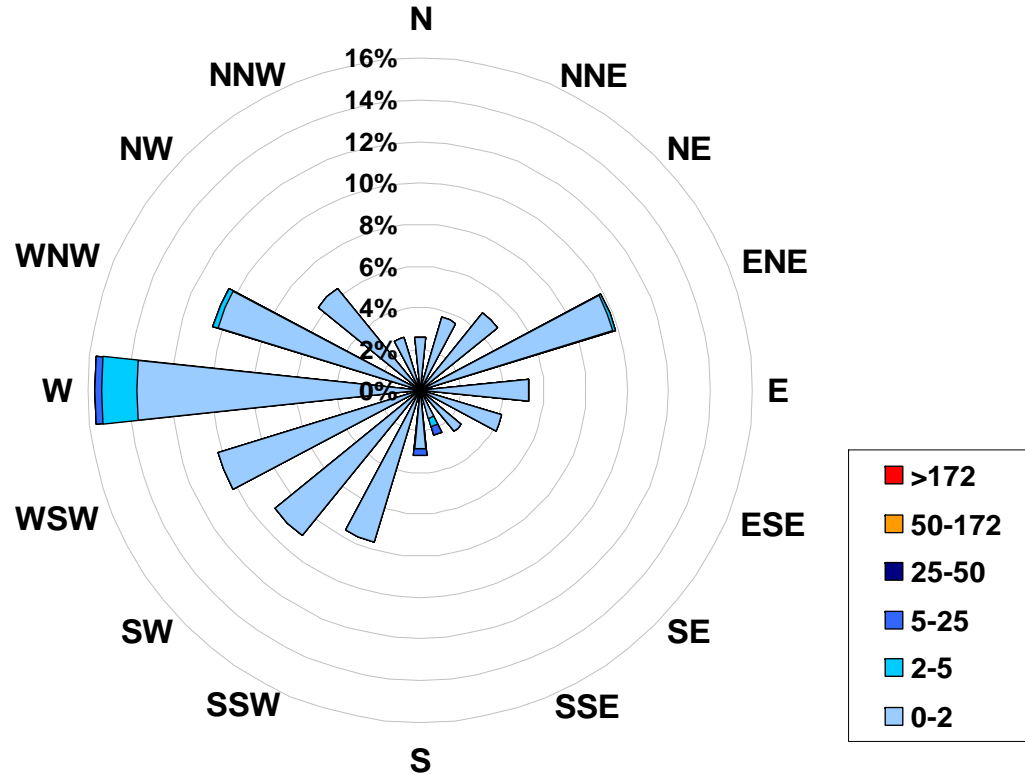


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb Range			Frequency (hrs)
0.0	<	2	684
2	to	5	18
5	to	25	7
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			709

PASZA - Evergreen Park Total Reduced Sulphur Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

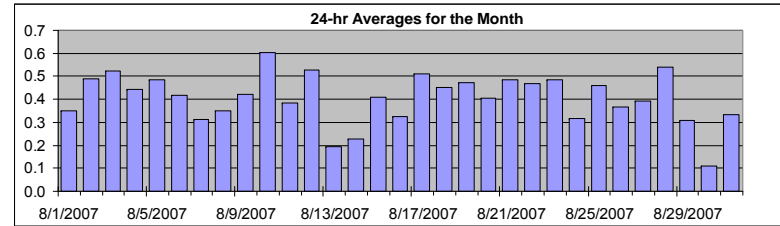
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

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

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

Maximum 1-hr Average:	2.5	ppb	24-Aug	7:00 8:00
Maximum 24-hr Value:	0.6	ppb	10-Aug	



AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.0	0.7	0.5	0.4	0.3	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			23:00 0:00	
1-Aug-07	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
2-Aug-07	A	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	A	0.5	0.9	
3-Aug-07	1	1	0	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.5	1.1	
4-Aug-07	0	1	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	1	A	0	0	0.4	0.9	
5-Aug-07	0	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	A	1	1	1	0.5	0.8	
6-Aug-07	1	1	1	0	0	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0	A	0	0	0	0	0.4	0.6	
7-Aug-07	0	0	0	0	0	0	0	1	0	0	1	1	C	C	C	A	0	1	0	0	0	0	0	0	0	0.3	1.0	
8-Aug-07	1	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.3	0.8	
9-Aug-07	0	0	0	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0.4	0.6	
10-Aug-07	0	0	0	0	A	0	1	1	0	0	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0.6	2.5	
11-Aug-07	0	1	1	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0.4	1.0	
12-Aug-07	0	0	A	1	1	1	1	1	0	1	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	0.5	0.8	
13-Aug-07	1	A	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
14-Aug-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	0.2	0.5	
15-Aug-07	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.7	
16-Aug-07	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	1	1	0.3	0.6
17-Aug-07	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	A	0	0	0	0	0.5	0.7	
18-Aug-07	0	0	0	0	0	0	1	1	0	1	1	0	0	0	1	1	0	0	0	0	A	1	1	0	1	0.5	0.7	
19-Aug-07	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	A	1	0	0	0	0	0	0.5	0.8	
20-Aug-07	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.4	0.6	
21-Aug-07	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	A	1	1	1	1	0	0	1	0.5	0.7	
22-Aug-07	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.5	1.2	
23-Aug-07	0	0	0	0	0	A	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0.5	0.8	
24-Aug-07	0	0	0	0	A	1	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.5	
25-Aug-07	0	0	0	A	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0.5	1.1	
26-Aug-07	1	0	A	0	0	1	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
27-Aug-07	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6	
28-Aug-07	A	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	A	0	0.5	0.8	
29-Aug-07	0	0	0	0	0	0	0	1	0	0	1	0	0	1	1	1	0	1	0	0	0	0	A	0	0	0.3	0.8	
30-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	0.1	0.6	
31-Aug-07	0	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	0.7	
Hourly Avg	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4		
Hourly Max	1.1	1.0	0.7	0.9	1.2	0.9	0.9	2.5	2.0	0.8	2.5	1.0	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.8	0.9	0.7	1.0	1.1			

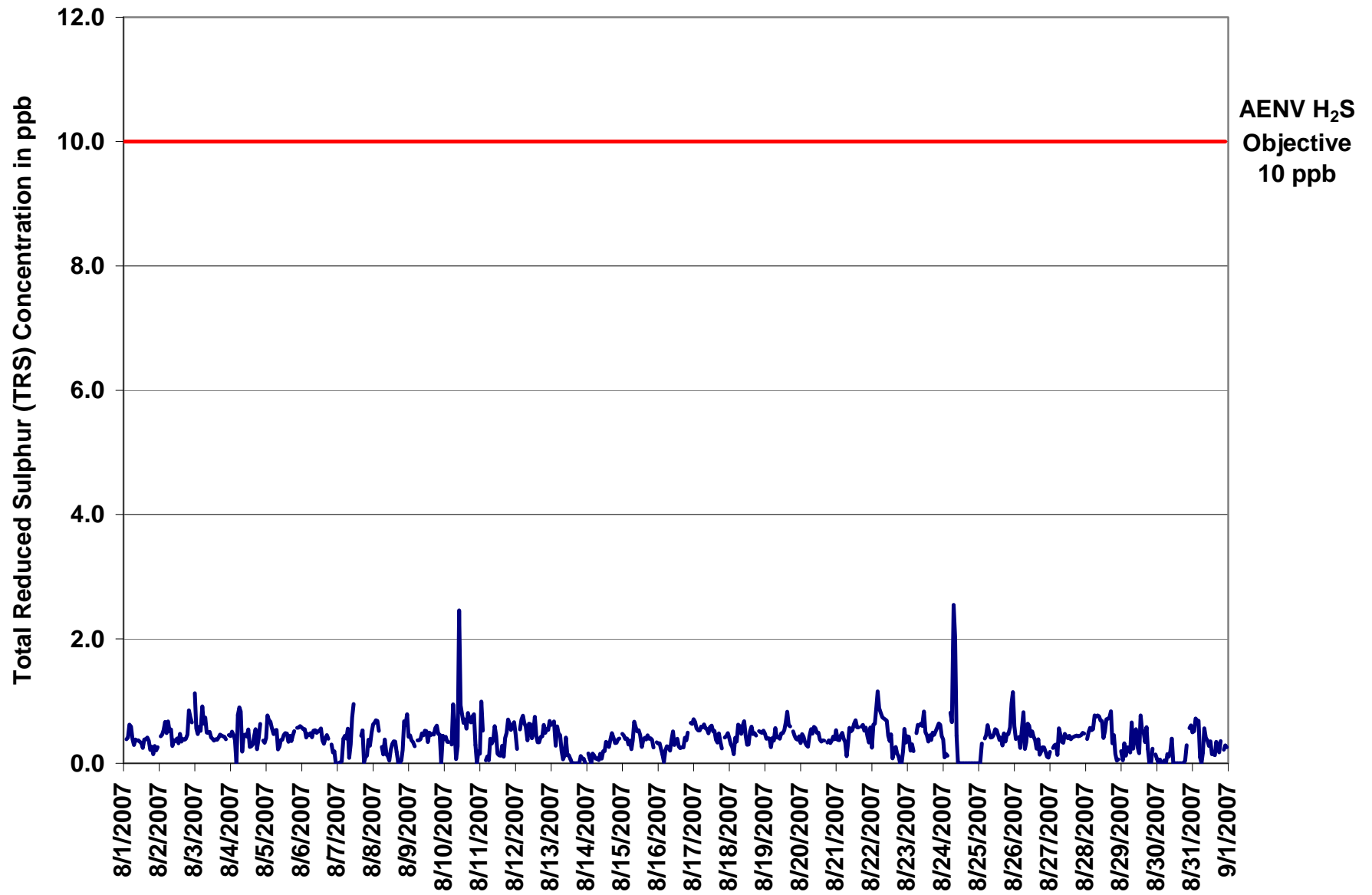


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

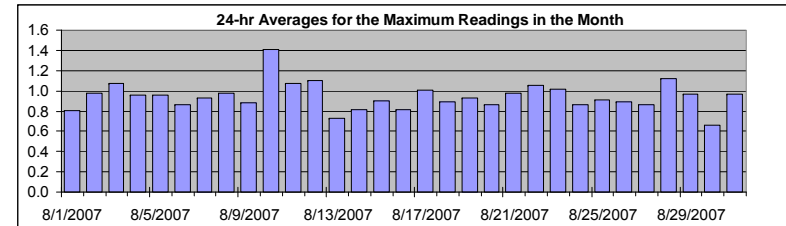
Total Reduced Sulphur (TRS)

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

Summary

Maximum 1-hr Value:	5.2	ppb	10-Aug	10:00 11:00
Maximum 24-hr Value:	1.4	ppb	10-Aug	

AIC Time:	33 hrs	Operational Time:	708 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.0	1.4	1.1	0.9	0.8	0.5	0.2	0.9 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-Aug-07		A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0	
2-Aug-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	A	1.0	1.3
3-Aug-07	2	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.1	1.8	
4-Aug-07	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.0	1.4	
5-Aug-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	1.0	1.2	
6-Aug-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	0.9	1.1	
7-Aug-07	0	1	1	1	1	1	1	2	1	1	2	2	C	C	C	A	1	1	1	1	1	1	1	1	0.9	2.0	
8-Aug-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1.0	1.7	
9-Aug-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0.9	1.1	
10-Aug-07	1	1	1	1	A	1	3	2	1	1	5	3	1	1	1	1	1	1	1	1	1	1	1	1	1.4	5.2	
11-Aug-07	1	1	1	A	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.5	
12-Aug-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	1.1	1.4	
13-Aug-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	1	1	1	1	0.7	1.5	
14-Aug-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	0.8	1.1	
15-Aug-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	0.9	1.1	
16-Aug-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	0.8	1.1	
17-Aug-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	1.0	1.3	
18-Aug-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	0.9	1.3	
19-Aug-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	1.4	
20-Aug-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	0.9	1.0	
21-Aug-07	1	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	1.4	
22-Aug-07	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1.0	1.6	
23-Aug-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	1.0	1.4	
24-Aug-07	1	1	1	1	A	2	2	3	3	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.9	3.4	
25-Aug-07	0	0	1	A	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	0.9	1.6	
26-Aug-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	0.9	1.7	
27-Aug-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	0.9	1.2	
28-Aug-07	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1.1	2.0	
29-Aug-07	1	0	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	A	1	1.0	1.6	
30-Aug-07	0	1	1	1	0	0	1	1	1	1	1	1	0	0	0	1	1	0	0	1	1	A	1	1	0.7	1.2	
31-Aug-07	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.0	1.3	
Hourly Avg	0.9	0.9	0.9	0.9	0.9	1.0	1.1	1.2	1.0	1.0	1.2	1.0	0.9	0.9	0.8	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9		
Hourly Max	1.8	1.5	1.5	1.7	1.6	2.0	2.5	3.4	3.0	1.5	5.2	2.6	1.2	1.6	1.4	1.4	1.4	1.3	1.2	1.4	1.3	1.3	1.6	1.7			

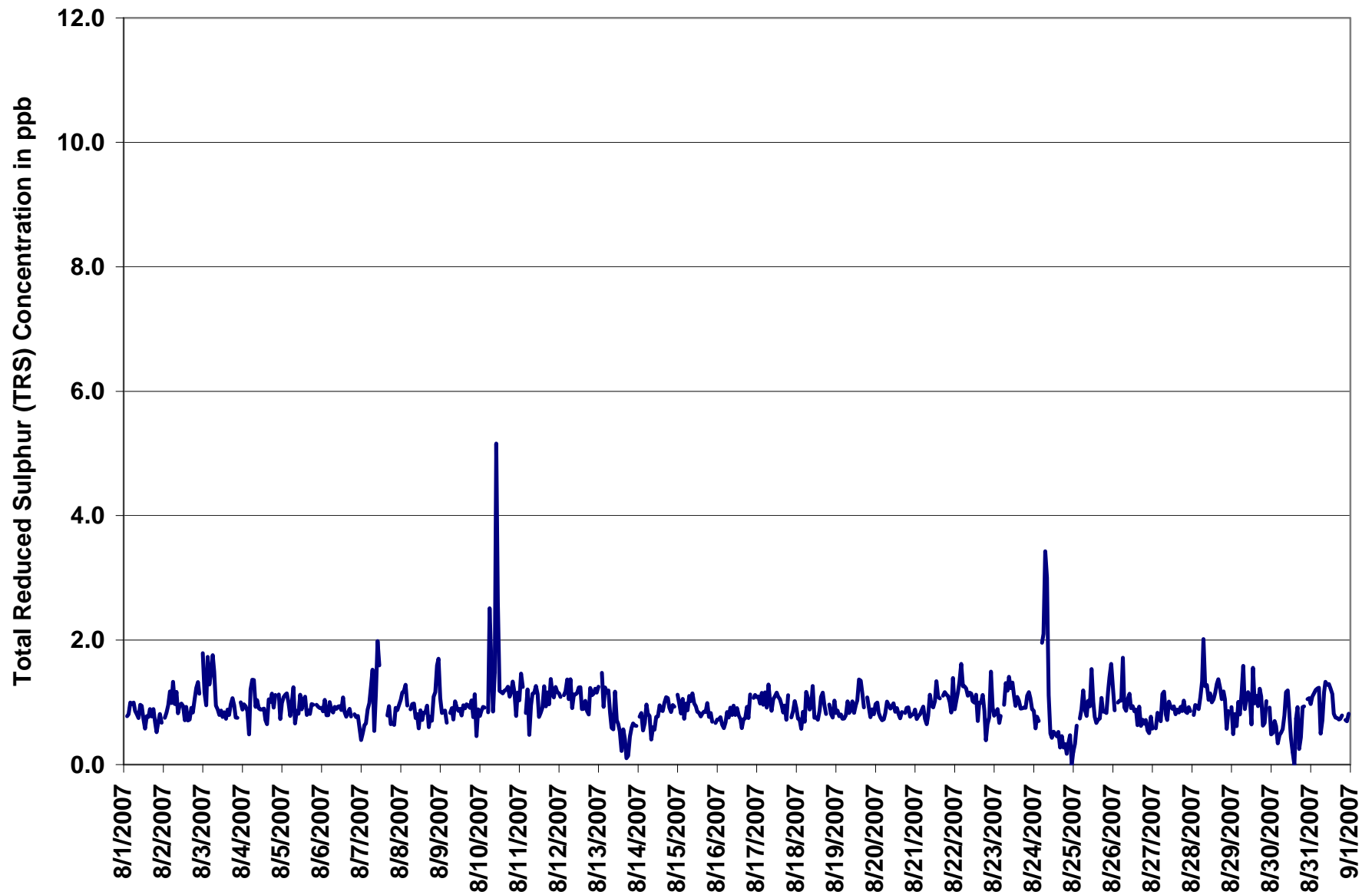
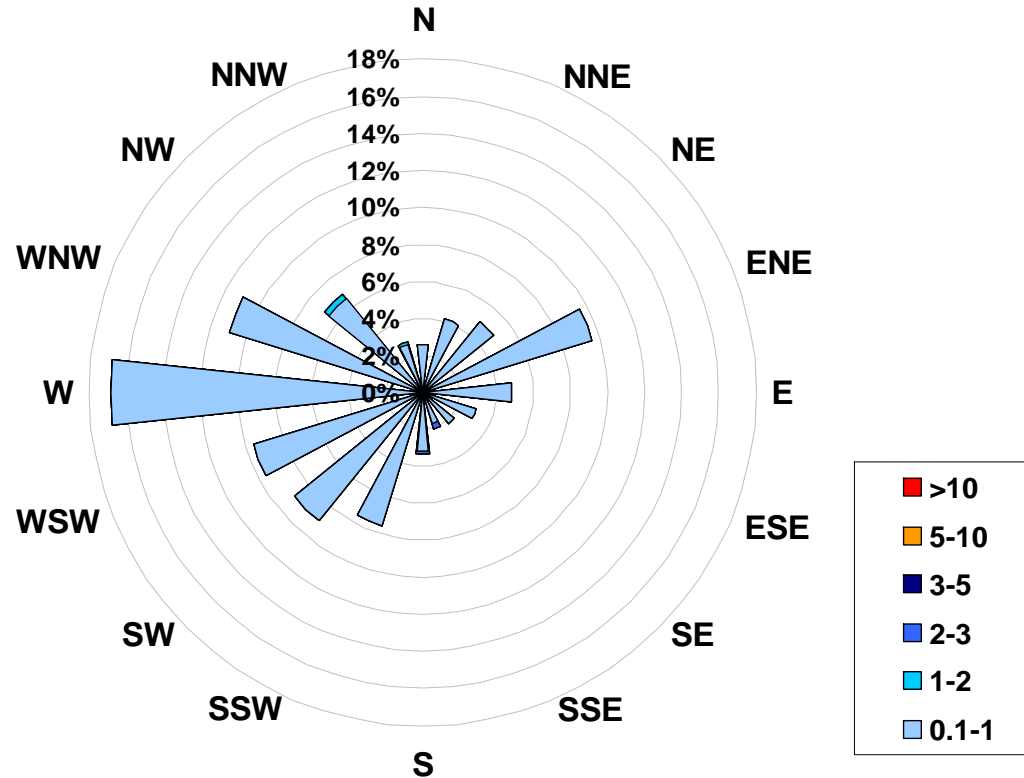


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			
Range			Frequency (hrs)
0.1	<	1	702
1	to	2	3
2	to	3	3
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			708

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

Station: Evergreen Park
 Station Owner: PASZA

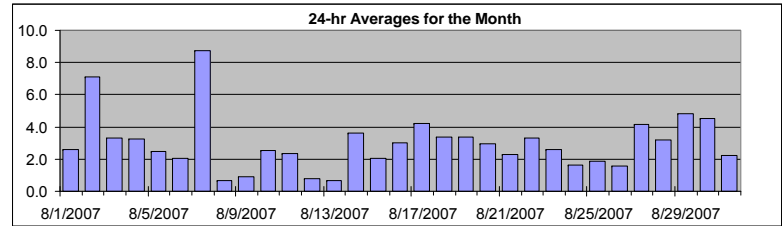
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

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

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	25.8 µg/m ³ 7-Aug 10:00 11:00
Maximum 24-hr Value:	8.8 µg/m ³ 7-Aug



AIC Time:	0 hrs	Operational Time:	734 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.3%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	13.1	8.6	4.0	2.2	0.8	0.0	0.0	2.9 2 µg/m ³	2.5 µg/m ³

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Aug-07	1	0	1	1	0	1	3	4	6	8	6	4	1	0	1	1	3	2	3	2	6	2	3	2	2.6	7.8
2-Aug-07	10	11	7	6	5	7	10	11	15	13	12	6	4	5	1	3	5	4	7	4	7	3	6	7	7.1	14.8
3-Aug-07	8	0	7	1	1	4	4	5	3	2	5	3	2	5	2	2	0	8	4	4	3	3	2	2	3.3	8.4
4-Aug-07	3	3	3	3	4	3	3	4	5	4	6	4	6	4	1	2	3	5	3	2	3	2	2	2	3.2	6.5
5-Aug-07	1	1	0	0	0	3	5	4	2	4	5	5	4	0	2	2	5	2	2	3	3	0	3	2	2.5	5.5
6-Aug-07	1	0	0	0	0	3	9	1	1	2	3	0	1	0	1	1	0	4	2	5	4	3	4	3	2.0	8.6
7-Aug-07	3	3	4	3	5	D	10	20	6	8	26	7	C	C	C	C	17	16	6	5	7	10	6	4	8.8	25.8
8-Aug-07	3	2	1	0	0	0	0	0	1	0	0	0	0	1	0	2	1	2	1	1	1	0	0	1	0.7	3.1
9-Aug-07	1	0	0	0	0	0	0	0	0	0	0	1	5	0	2	1	1	2	2	2	2	2	1	1	0.9	5.0
10-Aug-07	1	1	1	3	2	1	4	4	4	7	9	0	0	0	0	1	2	2	6	6	4	2	0	1	2.6	8.7
11-Aug-07	1	0	0	1	2	2	3	4	4	4	7	4	3	2	2	2	2	2	2	3	2	2	2	1	2.3	7.2
12-Aug-07	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	2	3	1	2	2	1	1	1	0	0.8	2.6
13-Aug-07	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	2	0	0	1	0	1	3	1	1	0.6	3.4
14-Aug-07	0	0	2	0	0	0	3	4	1	0	1	6	2	5	11	9	8	12	3	4	5	3	4	3	3.6	12.2
15-Aug-07	2	2	2	2	3	4	4	5	5	4	3	1	0	0	3	1	1	1	2	2	2	1	0	0	2.1	5.2
16-Aug-07	P	0	0	0	0	1	6	5	1	3	4	6	5	6	4	4	3	4	5	3	3	2	2	2	3.0	6.3
17-Aug-07	3	3	3	1	2	3	3	4	4	5	5	6	5	4	3	6	13	8	9	3	2	3	2	3	4.2	13.1
18-Aug-07	0	3	2	2	2	1	2	1	4	2	4	5	6	6	6	6	4	4	4	3	4	4	3	4	3.4	6.5
19-Aug-07	2	2	4	4	4	4	4	6	6	5	5	4	4	5	1	0	4	4	3	3	3	1	1	1	3.4	6.1
20-Aug-07	0	0	0	1	0	0	1	1	1	2	6	7	7	9	4	5	8	7	5	2	0	1	1	2	2.9	9.0
21-Aug-07	1	0	0	1	2	3	2	3	3	4	3	3	3	3	3	2	3	3	2	3	2	2	3	1	2.3	3.6
22-Aug-07	2	0	3	3	2	3	4	8	7	2	4	5	C	5	3	5	0	2	3	5	3	4	3	0	3.3	7.8
23-Aug-07	1	2	1	2	2	2	4	7	13	4	3	2	1	0	1	5	3	3	2	3	3	0	0	0	2.6	12.9
24-Aug-07	0	1	0	0	0	3	3	5	6	2	0	1	2	1	0	0	0	2	1	4	3	1	0	3	1.6	5.6
25-Aug-07	4	2	1	2	2	1	2	3	2	2	1	2	3	0	1	4	1	2	1	4	2	0	2	0	1.8	4.4
26-Aug-07	0	0	0	0	0	0	4	4	1	8	7	0	3	1	0	1	1	2	1	2	2	0	0	0	1.6	8.5
27-Aug-07	1	2	2	2	1	1	4	6	13	3	6	6	1	0	2	7	5	1	10	4	4	9	6	4	4.2	12.7
28-Aug-07	4	1	2	4	2	2	10	15	9	9	1	2	1	1	1	1	1	1	2	4	0	1	0	2	3.2	14.8
29-Aug-07	3	3	2	3	2	2	4	11	14	8	13	10	4	8	7	5	5	5	4	1	2	1	0	0	4.8	13.8
30-Aug-07	0	0	1	2	1	1	2	3	3	3	5	6	9	6	5	4	6	12	13	11	D	D	D	0	4.5	13.0
31-Aug-07	0	0	0	0	0	1	1	2	6	11	11	1	0	0	2	8	1	4	2	1	0	0	0	1	2.3	11.4
Hourly Avg	1.9	1.4	1.6	1.5	1.5	1.9	3.7	4.8	4.7	4.1	5.2	3.5	2.9	2.7	2.5	3.1	3.5	4.1	3.5	3.3	2.8	2.3	1.9	1.8		
Hourly Max	10.3	10.9	7.0	6.3	5.4	6.8	10.3	19.5	14.8	13.0	25.8	9.8	8.9	9.0	11.2	8.9	17.1	15.7	13.0	10.6	7.1	9.9	6.1	7.4		

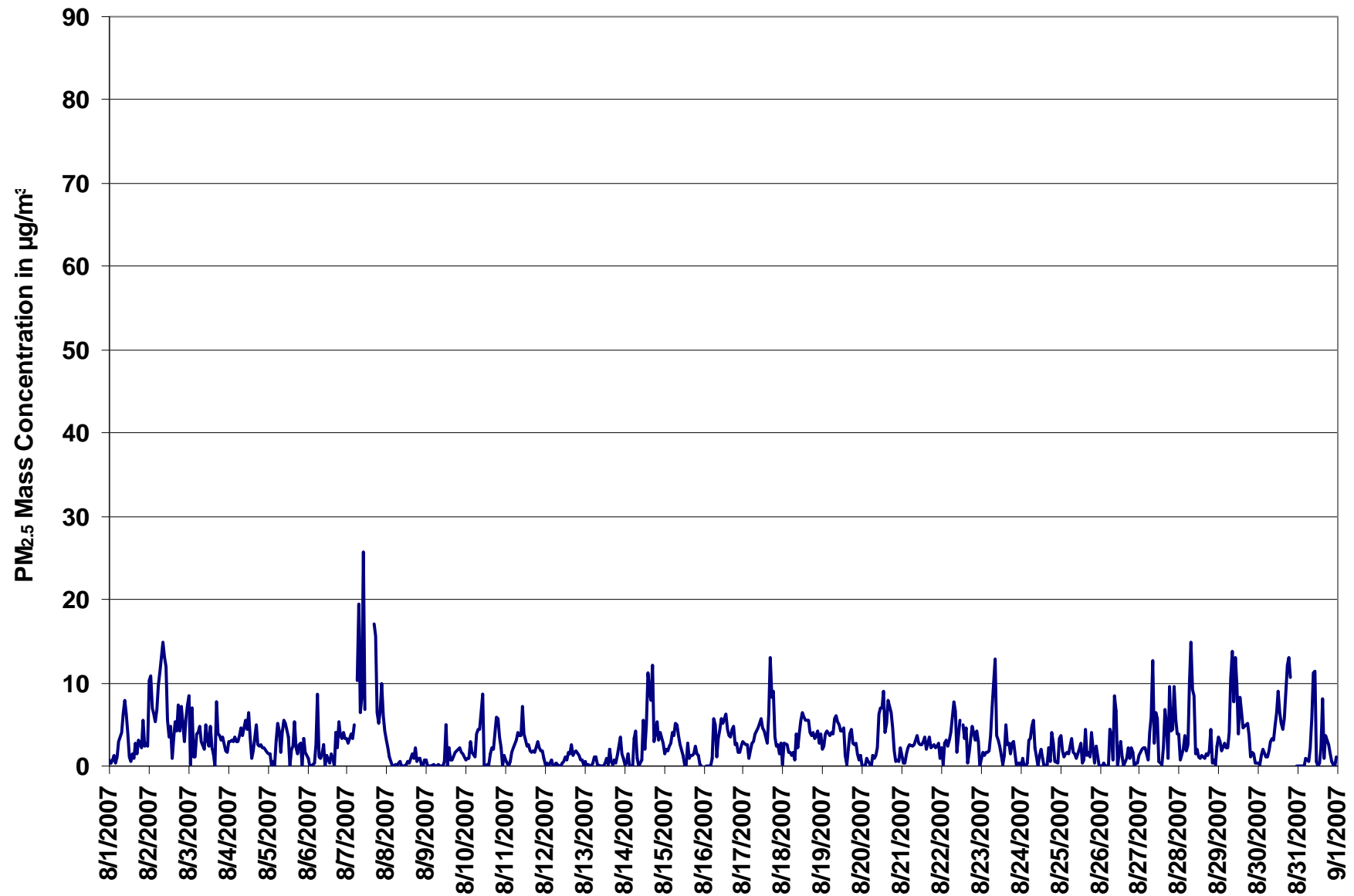


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park
 Station Owner: PASZA

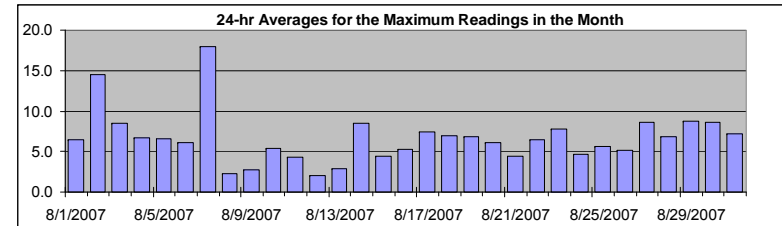
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

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

Summary

Maximum 1-hr Average:	43.1	µg/m ³	2-Aug	0:00 1:00
Maximum 24-hr Value:	17.9	µg/m ³	7-Aug	



AIC Time:	0 hrs	Operational Time:	734 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	99.3%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	30.0	17.7	8.3	4.9	3.2	1.3	0.6	6.6	5 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-Aug-07	3	1	2	3	1	3	5	7	10	14	16	12	4	4	5	8	9	4	10	5	10	8	5	5	6.5	16.3
2-Aug-07	43	22	11	9	8	13	14	15	20	19	20	13	10	10	10	8	10	11	17	11	16	8	14	13	14.5	43.1
3-Aug-07	13	5	25	9	5	8	9	9	8	9	10	8	6	11	8	6	4	19	7	7	5	4	3	3	8.5	25.1
4-Aug-07	4	5	5	4	5	5	5	6	7	6	7	8	11	11	10	9	10	10	7	5	5	6	5	6	6.7	11.5
5-Aug-07	5	4	1	3	2	7	10	7	5	8	9	9	8	6	9	10	12	8	7	6	8	4	6	3	6.6	11.9
6-Aug-07	4	0	1	2	2	5	21	5	4	4	6	3	7	5	5	7	3	11	6	9	10	13	7	5	6.1	20.9
7-Aug-07	5	4	6	5	8	D	31	28	32	31	41	35	C	C	C	C	22	33	9	8	10	18	11	7	17.9	40.6
8-Aug-07	5	4	3	2	0	1	1	2	3	1	1	2	2	3	2	3	2	4	2	3	3	2	1	2	2.3	4.8
9-Aug-07	2	1	1	1	2	1	2	1	1	1	1	3	14	2	6	5	3	4	3	4	4	3	2	2	2.8	13.9
10-Aug-07	2	2	2	4	3	3	7	7	7	9	13	5	3	3	3	4	5	15	11	5	5	3	4	5.4	15.3	
11-Aug-07	2	2	2	2	4	4	6	6	5	7	10	6	5	6	4	3	4	4	3	4	4	5	3	3	4.4	9.6
12-Aug-07	2	1	1	2	2	1	1	3	1	1	1	1	3	2	3	3	4	3	3	3	3	2	1	2	2.0	3.8
13-Aug-07	2	2	1	1	1	1	3	3	2	2	2	1	3	2	2	12	4	2	2	4	4	5	5	3	2.9	12.5
14-Aug-07	2	1	4	1	1	2	10	8	4	4	3	11	6	7	29	24	18	25	8	9	8	7	6	5	8.5	28.7
15-Aug-07	4	4	4	6	5	5	6	7	8	6	7	5	3	4	6	3	4	3	3	5	3	3	2	1	4.4	8.4
16-Aug-07	P	1	1	1	1	2	10	13	3	5	7	8	7	8	7	5	6	9	7	4	5	3	4	4	5.3	12.5
17-Aug-07	6	5	5	2	4	4	5	5	6	6	8	9	6	8	6	13	19	18	18	9	4	5	4	5	7.4	18.9
18-Aug-07	3	8	4	4	5	4	6	10	11	5	8	8	10	10	9	13	8	7	6	5	6	6	5	6	6.9	12.6
19-Aug-07	4	5	6	7	5	6	6	7	12	10	8	7	7	13	12	5	7	8	8	7	5	4	2	3	6.8	12.7
20-Aug-07	3	1	1	3	2	2	5	2	4	6	12	12	10	18	10	11	15	8	6	4	2	3	3	4	6.1	18.0
21-Aug-07	3	2	2	4	4	5	4	4	5	6	4	5	5	6	5	5	5	5	6	7	5	5	4	4	4.5	7.2
22-Aug-07	3	2	4	4	3	5	5	10	11	5	11	13	C	7	6	8	5	5	8	10	6	6	7	3	6.5	13.5
23-Aug-07	3	4	3	3	4	4	5	10	33	11	10	13	10	8	6	9	7	12	4	7	8	3	4	4	7.7	33.0
24-Aug-07	2	3	1	1	2	6	6	7	9	6	3	5	5	5	4	2	4	4	3	11	9	2	3	10	4.7	10.5
25-Aug-07	10	4	4	3	3	4	5	14	6	5	5	5	9	4	6	9	6	5	3	8	3	2	6	4	5.6	14.0
26-Aug-07	2	1	1	2	2	1	10	11	5	25	18	5	8	3	3	2	3	4	3	4	4	0	2	2	5.1	24.9
27-Aug-07	3	5	5	5	5	4	6	9	24	7	11	19	3	4	9	13	10	3	20	9	7	15	7	5	8.7	24.1
28-Aug-07	6	3	3	6	3	5	18	20	19	19	6	4	4	5	6	4	6	5	5	10	2	3	1	4	6.8	19.6
29-Aug-07	5	5	4	4	4	4	7	15	17	14	18	17	14	14	12	11	12	9	6	3	4	4	3	3	8.7	17.7
30-Aug-07	2	2	4	4	4	4	5	6	5	7	9	9	12	12	9	9	10	25	23	19	D	D	0	0	8.6	24.8
31-Aug-07	2	1	0	3	1	4	3	5	16	27	28	5	3	5	8	25	7	8	7	4	2	2	1	4	7.2	27.9
Hourly Avg	5.1	3.6	3.8	3.5	3.3	4.1	7.6	8.4	9.9	9.2	10.0	8.7	6.8	6.9	7.4	8.3	7.8	9.1	7.6	7.0	5.7	5.2	4.3	4.2		
Hourly Max	43.1	22.4	25.1	8.9	8.3	12.7	31.0	27.6	33.0	30.6	40.6	34.8	13.9	18.0	28.7	25.3	22.0	33.3	23.3	19.3	16.1	17.7	13.6	13.3		

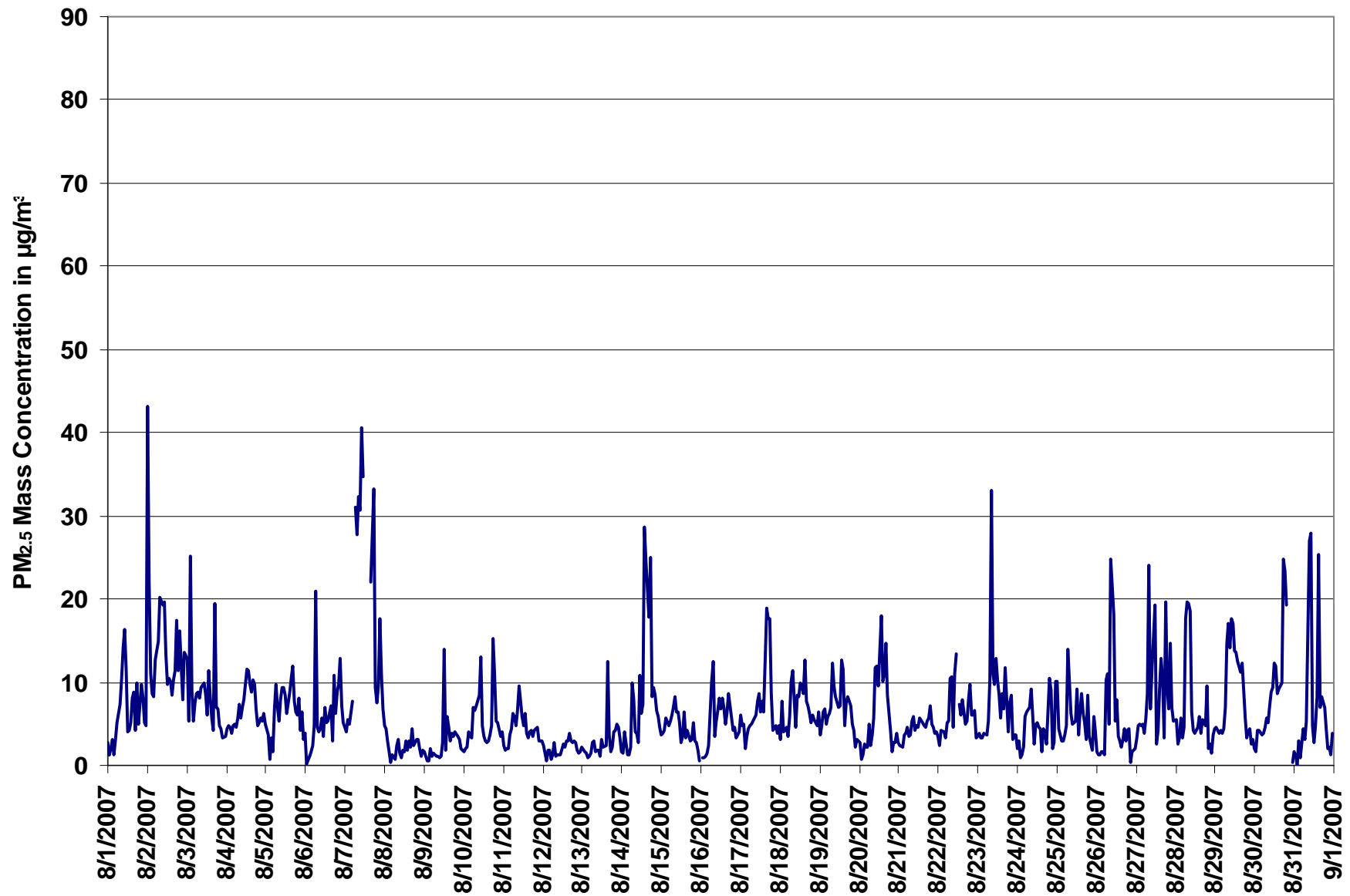
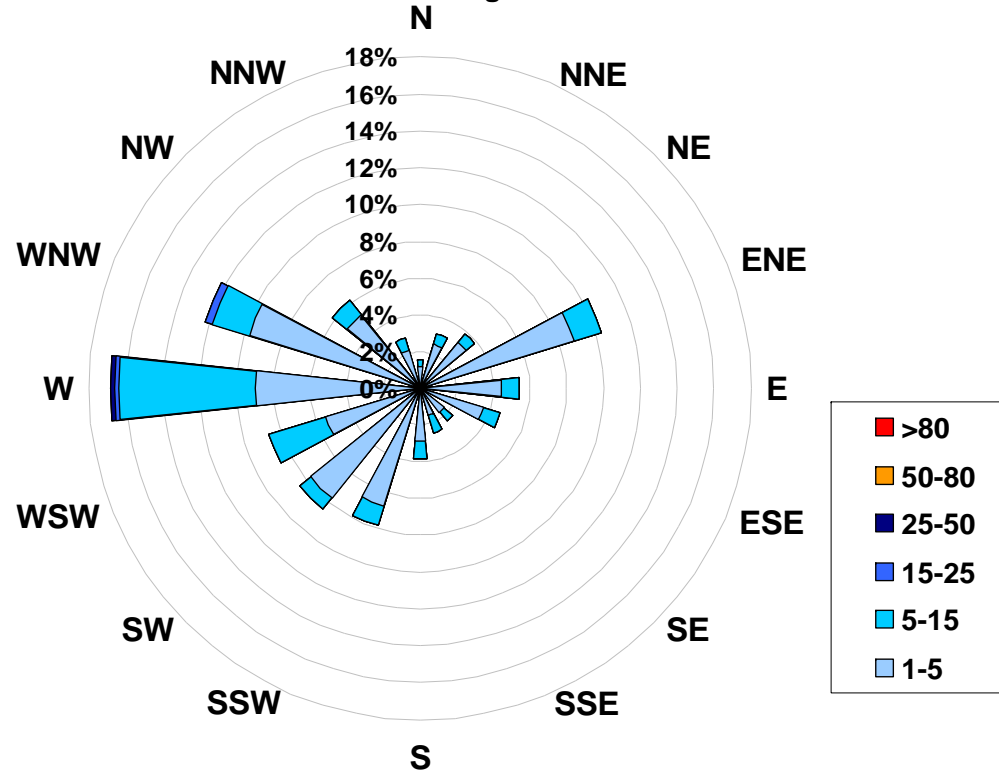


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 August 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	605
5	to	15	125
15	to	25	3
25	to	50	1
50	to	80	0
	>	80	0
Total Non-Zero Values			734

PASZA - Evergreen Park Temperature Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

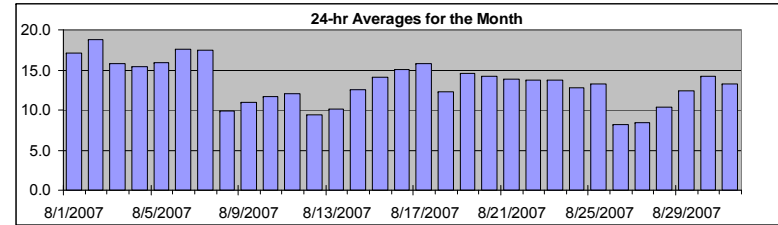
HOURLY AVERAGE TABLE

Ambient Temperature (T)

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

Summary

Maximum 1-hr Average:	27.6 °C	2-Aug	16:00 17:00
Maximum 24-hr Value:	18.8 °C	2-Aug	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	26.3	21.9	16.7	12.8	10.1	6.0	3.2	13.4 °C	12.8 °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-Aug-07	12	11	11	10	10	9	11	13	15	17	19	21	22	23	24	25	25	25	25	23	19	15	13	12	17.1	25.1	
2-Aug-07	11	11	11	11	11	11	12	15	17	19	21	23	24	26	27	27	28	27	24	23	20	19	18	17	18.8	27.6	
3-Aug-07	15	15	15	15	14	14	13	14	14	17	17	16	15	16	18	20	20	19	18	16	15	15	14	14	15.7	20.2	
4-Aug-07	14	14	14	14	14	14	14	14	15	15	15	15	15	15	18	19	20	21	19	18	17	16	14	13	12	15.5	20.6
5-Aug-07	12	12	12	11	11	11	12	14	15	16	18	19	20	22	22	20	19	20	20	19	18	15	13	12	16.0	21.8	
6-Aug-07	11	10	9	8	8	8	9	12	14	17	19	22	24	26	26	27	27	26	26	25	21	17	15	13	17.6	27.0	
7-Aug-07	12	11	11	11	11	15	19	19	18	19	20	21	22	22	23	23	22	22	21	20	18	14	12	12	17.5	22.9	
8-Aug-07	11	11	12	11	10	9	9	8	9	9	10	10	10	10	10	11	11	11	10	10	10	9	9	9	9.9	11.6	
9-Aug-07	9	9	9	9	8	8	8	9	9	9	10	12	12	14	15	16	16	17	17	16	11	8	7	5	11.0	17.0	
10-Aug-07	5	4	3	4	5	4	5	7	11	14	16	18	18	19	20	20	21	18	16	11	11	11	10	10	11.7	20.6	
11-Aug-07	10	9	7	7	7	7	8	10	10	11	13	14	16	16	15	17	17	16	15	14	13	12	12	12	12.1	17.0	
12-Aug-07	11	11	10	10	9	9	8	8	9	9	9	9	9	9	10	10	10	10	10	10	10	9	9	9	9.4	11.3	
13-Aug-07	9	9	9	8	8	8	8	9	9	10	10	11	12	12	13	13	13	14	14	14	10	8	7	6	10.1	14.4	
14-Aug-07	5	4	4	3	2	1	3	7	11	14	16	18	19	20	20	20	21	21	21	18	15	13	12	12	12.5	21.1	
15-Aug-07	10	9	9	9	9	9	10	11	12	13	15	16	18	20	21	21	21	20	18	18	15	13	12	10	14.1	20.8	
16-Aug-07	9	8	8	7	6	6	7	11	13	15	17	19	21	22	23	23	23	23	22	20	17	16	14	14	15.1	23.1	
17-Aug-07	14	14	13	13	12	11	11	13	15	17	19	20	22	21	23	22	20	17	16	15	14	13	11	11	15.8	22.5	
18-Aug-07	10	9	10	10	10	10	10	10	10	10	11	12	13	14	15	16	17	17	16	15	13	12	12	12	12.3	17.0	
19-Aug-07	12	11	11	11	11	11	11	11	12	15	16	18	19	19	17	19	19	19	19	16	14	13	13	12	14.6	19.3	
20-Aug-07	12	12	12	10	9	8	10	13	15	16	18	18	18	18	18	18	18	18	17	15	13	13	13	14	13	14.2	18.4
21-Aug-07	11	12	12	12	12	11	11	11	12	13	14	15	15	16	16	17	17	17	17	15	14	14	13	13	13.8	17.4	
22-Aug-07	13	11	10	11	11	11	11	12	13	14	15	16	17	18	18	18	14	17	15	15	14	13	12	12	13.7	18.4	
23-Aug-07	10	10	11	11	11	10	11	11	12	13	15	17	18	18	18	18	19	19	16	14	12	12	11	11	13.7	19.0	
24-Aug-07	10	10	9	8	7	7	8	9	9	11	12	15	17	18	19	19	18	17	16	15	14	13	13	12	12.8	18.9	
25-Aug-07	12	12	11	11	11	11	11	12	12	13	15	15	16	18	18	18	17	17	16	14	12	9	9	9	13.3	18.2	
26-Aug-07	8	8	8	8	8	8	8	8	8	9	10	10	10	10	9	10	10	9	9	9	8	6	4	3	8.2	10.1	
27-Aug-07	2	2	3	4	5	4	5	5	7	9	10	11	12	13	14	14	15	15	15	13	8	7	5	4	8.5	15.1	
28-Aug-07	4	3	3	4	4	4	4	6	8	11	13	15	16	17	18	19	19	19	19	14	10	8	7	6	10.4	19.1	
29-Aug-07	8	8	8	8	8	7	6	9	12	13	16	17	18	19	18	17	16	15	14	13	13	12	12	12	12.4	18.6	
30-Aug-07	12	12	11	12	12	11	11	12	13	14	16	17	17	17	17	17	18	17	16	16	14	13	13	12	14.2	17.6	
31-Aug-07	12	11	12	11	10	10	10	11	12	13	15	16	18	18	18	17	17	16	16	15	13	11	9	8	13.3	18.0	
Hourly Avg	10.3	9.8	9.6	9.4	9.1	9.0	9.5	10.8	12.1	13.4	14.8	15.9	16.9	17.7	18.1	18.4	18.3	18.0	17.1	15.7	13.7	12.1	11.3	10.7			
Hourly Max	15.2	15.0	14.8	14.6	13.6	15.4	19.3	18.9	18.4	19.4	20.7	23.5	24.3	26.1	26.7	27.0	27.6	27.0	25.6	24.8	21.2	18.7	17.9	17.1			

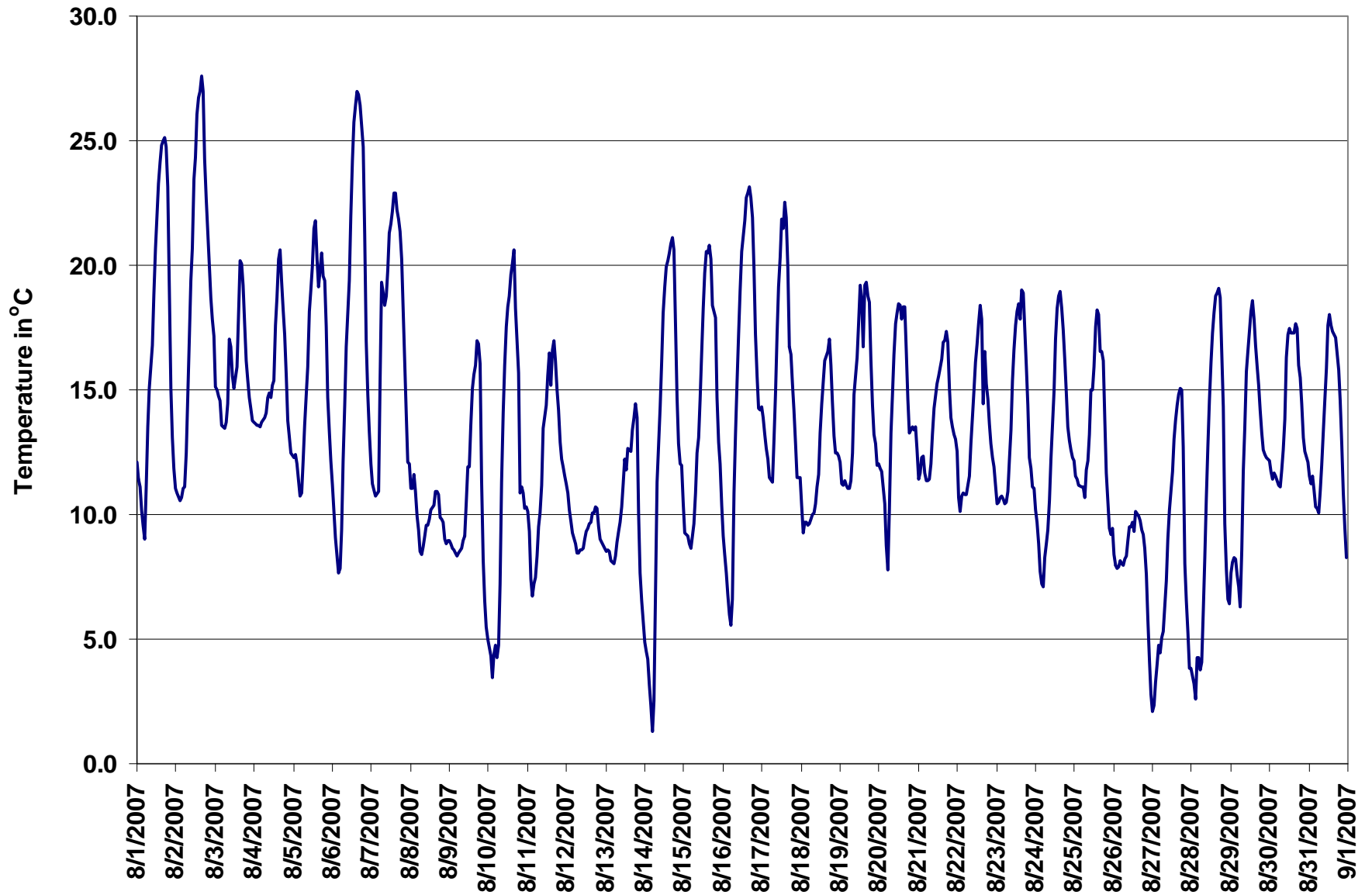


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend

PASZA - Evergreen Park Sclar Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

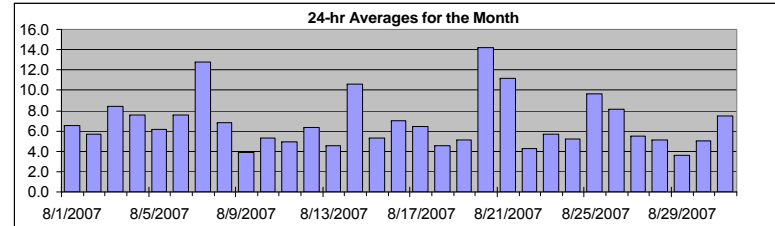
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	26.7	km/hr	20-Aug	12:00 13:00
Maximum 24-hr Value:	14.2	km/hr	20-Aug	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	21.8	15.3	8.1	5.7	3.8	2.7	2.2	6.8 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 Sclar 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-Aug-07	12	8	7	5	6	5	7	9	11	11	6	7	8	6	7	6	6	7	7	5	4	2	2	2	6.5	11.6
2-Aug-07	3	3	3	4	5	5	7	8	8	5	7	5	7	5	7	7	6	7	7	5	5	4	5	11	5.7	10.9
3-Aug-07	8	9	11	10	6	5	6	7	5	4	5	7	8	9	9	9	10	9	12	12	11	9	11	9	8.4	12.0
4-Aug-07	9	9	8	8	7	7	8	9	9	10	11	10	8	8	8	6	9	10	8	6	3	4	4	5	7.6	10.8
5-Aug-07	4	6	5	6	4	4	5	8	8	8	6	7	6	6	9	8	4	8	11	9	6	4	3	3	6.2	11.0
6-Aug-07	4	2	2	2	3	5	5	6	6	7	9	10	12	13	12	14	18	15	13	7	6	3	4	3	7.6	17.8
7-Aug-07	3	2	2	3	3	13	18	21	22	21	21	18	17	17	16	16	18	20	18	16	9	3	5	5	12.8	21.7
8-Aug-07	5	8	12	13	12	9	10	9	8	8	6	6	6	3	3	4	4	7	6	4	6	5	5	4	6.8	12.9
9-Aug-07	4	4	3	3	3	3	3	3	4	4	5	5	4	5	6	5	5	5	4	3	2	2	3	3.9	6.5	
10-Aug-07	3	2	3	3	3	3	3	4	4	4	7	7	6	8	6	7	8	6	10	6	7	6	6	5	5.3	9.9
11-Aug-07	5	3	3	2	4	3	3	5	5	6	5	5	7	8	7	8	6	7	5	4	5	4	3	6	4.9	7.8
12-Aug-07	7	7	6	9	8	8	8	8	8	8	8	8	9	11	10	5	3	3	3	3	4	2	3	3	6.3	10.6
13-Aug-07	4	3	4	4	2	2	3	2	3	4	4	4	4	8	7	7	6	7	6	6	5	5	5	3	4.5	7.9
14-Aug-07	3	4	5	3	2	3	2	5	7	20	24	22	24	22	22	19	20	14	12	6	5	3	4	3	10.6	24.5
15-Aug-07	4	4	2	4	3	3	4	2	4	4	6	7	8	8	9	9	9	8	6	6	5	5	4	3	5.3	9.4
16-Aug-07	3	3	3	3	3	2	3	4	5	6	7	9	9	10	9	11	12	11	12	10	9	9	8	7	7.0	12.0
17-Aug-07	6	5	6	5	5	4	3	5	5	6	7	7	7	7	9	6	11	11	11	10	6	5	4	5	6.4	10.6
18-Aug-07	4	4	6	5	5	5	7	5	5	3	7	7	5	4	4	4	4	4	4	5	4	3	3	3	4.6	7.3
19-Aug-07	3	3	3	3	3	3	3	4	6	4	5	7	6	4	6	4	5	6	6	8	10	6	7	7	5.1	10.4
20-Aug-07	7	10	9	7	3	3	11	13	15	18	25	27	27	22	18	17	20	13	11	9	12	13	14	15	14.2	26.7
21-Aug-07	14	14	15	16	15	14	14	11	13	12	12	14	15	13	12	12	12	9	6	6	5	5	4	4	11.2	15.6
22-Aug-07	4	3	4	4	3	4	3	3	4	4	4	4	4	6	6	7	6	6	5	4	5	3	4	4	4.3	7.1
23-Aug-07	3	4	4	5	3	3	4	4	5	7	7	7	10	10	11	9	8	5	6	7	4	4	5	3	5.7	11.2
24-Aug-07	3	3	3	3	3	3	3	4	4	4	5	7	7	7	7	8	9	6	6	5	5	7	7	5	5.2	8.9
25-Aug-07	7	5	7	6	7	5	6	6	8	8	11	12	12	12	18	21	21	19	18	9	3	3	4	5	9.7	21.0
26-Aug-07	6	7	8	7	7	9	10	12	13	13	12	11	11	10	10	10	9	7	6	4	3	3	3	5	8.1	13.0
27-Aug-07	3	3	4	3	5	4	7	5	4	7	6	7	9	8	9	10	9	8	7	4	2	4	3	3	5.5	9.7
28-Aug-07	5	3	3	5	6	5	6	6	7	5	6	6	7	7	6	6	6	6	5	5	2	3	2	3	5.1	7.3
29-Aug-07	3	3	3	2	3	3	3	4	4	4	5	5	6	5	5	3	3	3	3	3	3	3	3	4	3.6	6.3
30-Aug-07	4	3	4	4	4	4	3	5	5	4	4	4	4	5	5	4	4	6	5	8	9	8	6	6	5.0	9.4
31-Aug-07	4	5	10	5	4	4	4	6	9	9	9	10	12	15	14	11	9	7	7	7	7	5	4	3	7.5	14.9
1-hr Average	5.0	4.9	5.5	5.2	4.8	4.9	5.8	6.5	7.2	7.7	8.5	8.8	9.1	9.1	9.3	8.9	9.0	8.3	7.9	6.6	5.6	4.7	4.7	4.9		
Hourly Max	13.6	14.3	15.4	15.6	15.1	14.2	18.1	21.1	21.7	20.5	25.3	26.7	26.7	22.3	21.9	21.0	20.5	20.2	18.1	16.2	12.2	13.3	13.7	15.1		

PASZA - Evergreen Park Vector Wind Speed Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

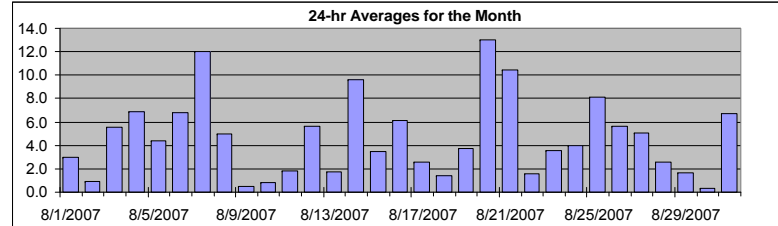
HOURLY AVERAGE TABLE

Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	26.4	km/hr	20-Aug	11:00 12:00
Maximum 24-hr Value:	13.0	km/hr	20-Aug	



Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	21.5	15.2	7.6	4.9	2.8	1.3	0.6	7.1 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			
1-Aug-07	12	8	7	5	5	5	6	9	11	11	5	5	6	3	5	3	4	4	6	7	4	1	1	1		3.0	11.5	
2-Aug-07	3	2	0	4	5	5	6	8	8	4	6	1	6	3	5	6	6	6	5	4	3	3	2	9		0.9	8.9	
3-Aug-07	2	8	6	5	4	4	5	6	4	2	4	7	8	9	9	9	9	9	10	11	10	9	11	9		5.6	11.1	
4-Aug-07	8	9	8	8	6	7	8	8	9	10	11	10	7	7	8	4	8	10	8	6	3	4	3	4		6.9	10.6	
5-Aug-07	4	6	5	5	4	4	5	7	7	7	6	6	5	5	8	4	2	7	11	9	3	2	1	1		4.4	10.7	
6-Aug-07	3	2	2	1	3	5	5	5	7	8	10	11	13	12	14	18	15	13	7	5	2	4	3		6.8	17.5		
7-Aug-07	1	1	1	2	2	13	18	21	22	20	21	17	16	16	15	15	17	20	18	16	9	2	3	4		12.0	21.5	
8-Aug-07	5	8	11	13	12	8	10	9	7	7	5	5	5	2	1	3	4	6	5	4	5	5	5	4		5.0	12.6	
9-Aug-07	3	3	2	2	2	2	2	2	3	3	4	3	0	3	4	2	1	2	4	4	3	1	2	1		0.5	4.4	
10-Aug-07	2	1	1	1	2	1	2	4	3	3	5	6	5	7	2	5	4	6	4	6	7	6	1	4		0.8	7.1	
11-Aug-07	5	3	2	1	3	2	1	3	4	5	1	4	6	6	6	7	6	6	5	3	4	3	1	5		1.8	7.0	
12-Aug-07	6	6	6	9	8	8	8	8	8	8	7	8	9	10	9	5	2	3	2	2	4	1	2	3		5.7	10.5	
13-Aug-07	3	3	4	4	1	1	3	2	3	4	4	2	1	8	4	6	6	6	6	6	5	5	5	3		1.7	7.6	
14-Aug-07	2	4	5	3	1	2	2	5	6	20	23	21	24	22	21	18	20	14	11	6	4	0	1	2		9.6	24.1	
15-Aug-07	3	0	2	3	1	1	2	1	3	3	6	7	6	7	9	9	9	7	6	6	5	5	4	3		3.5	9.1	
16-Aug-07	3	3	2	2	1	2	1	4	5	5	6	8	8	9	8	11	11	10	11	10	9	9	8	7		6.2	11.4	
17-Aug-07	6	5	6	5	5	3	3	5	4	5	5	6	5	5	8	5	10	10	10	9	5	2	3	4		2.5	10.3	
18-Aug-07	4	4	5	5	4	3	5	1	2	2	6	5	3	1	2	3	4	2	4	5	1	2	2	3		1.4	6.0	
19-Aug-07	1	2	2	3	2	2	1	3	6	3	4	5	4	3	5	2	4	5	6	7	10	6	6	7		3.8	10.0	
20-Aug-07	7	10	8	6	2	2	10	13	14	18	25	26	26	22	18	17	20	12	11	9	12	13	14	15		13.0	26.4	
21-Aug-07	14	14	15	15	15	14	13	11	13	12	12	14	14	13	11	12	12	9	6	5	5	5	4	4		10.5	15.4	
22-Aug-07	4	2	4	4	2	3	3	2	3	3	3	2	2	3	3	6	5	5	1	2	4	1	3	3		1.5	6.4	
23-Aug-07	2	2	2	4	2	3	3	4	4	6	6	6	8	10	10	9	7	2	6	5	2	2	4	2		3.6	9.6	
24-Aug-07	0	1	1	2	1	2	1	3	1	2	5	6	6	6	7	7	8	6	6	4	4	6	7	2		4.0	8.5	
25-Aug-07	1	4	6	6	7	4	5	5	8	7	10	11	12	11	18	20	20	19	18	7	3	2	3	5		8.1	20.4	
26-Aug-07	6	7	8	7	7	9	9	12	12	12	12	10	10	9	9	10	9	6	5	3	3	2	2	4		5.7	12.4	
27-Aug-07	2	3	3	2	5	4	6	4	3	7	6	7	8	7	7	9	8	7	6	2	2	1	1	2		5.1	8.8	
28-Aug-07	5	2	3	5	6	4	6	5	7	5	6	5	4	5	3	4	4	5	5	4	1	3	2	3		2.6	7.1	
29-Aug-07	3	2	2	1	0	1	2	3	4	2	3	3	5	4	4	3	2	3	2	3	3	1	1	4		1.6	4.6	
30-Aug-07	4	3	3	3	3	3	3	3	5	5	4	2	3	2	4	4	3	3	6	2	7	9	8	6	6		0.3	9.0
31-Aug-07	3	5	10	3	1	3	3	6	8	9	9	10	12	14	13	11	9	6	6	7	6	5	4	3		6.7	14.4	
1-hr Vector	1.8	2.3	2.7	2.4	2.1	2.4	2.7	3.4	3.6	3.8	4.1	3.6	3.9	3.1	3.7	3.0	3.2	2.8	3.1	1.9	1.0	1.2	1.3	1.8				
Hourly Max	13.5	14.1	15.2	15.4	15.0	14.0	17.6	20.9	21.5	20.2	24.9	26.4	26.3	21.9	21.5	20.4	20.1	19.8	17.7	16.1	12.1	13.1	13.6	14.9				

PASZA - Evergreen Park Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	351.2	321.3	275.7	227.2	104.3	35.0	11.7	272 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		
1-Aug-07	256	277	276	303	311	315	291	283	282	282	279	292	201	201	213	185	119	125	92	105	81	199	10	356	263	W
2-Aug-07	28	288	18	263	265	262	270	276	269	241	258	359	339	46	18	28	51	58	178	129	180	146	116	184	282	WNW
3-Aug-07	330	27	209	283	165	197	175	282	335	310	272	214	210	214	203	204	269	305	291	277	282	283	278	275	261	W
4-Aug-07	279	283	281	284	292	304	308	296	280	297	314	323	325	343	335	295	307	308	307	298	264	225	224	236	298	WNW
5-Aug-07	256	260	246	237	232	263	266	299	277	277	257	291	295	351	288	29	43	300	257	246	329	171	199	178	275	W
6-Aug-07	221	215	221	266	216	200	197	216	197	200	205	219	226	253	248	272	264	268	257	259	236	200	195	202	237	WSW
7-Aug-07	90	349	219	237	246	271	280	271	271	273	273	281	284	288	280	286	287	283	282	267	258	228	334	356	278	W
8-Aug-07	330	317	334	347	358	22	33	27	28	17	45	11	19	54	352	260	303	253	245	307	289	310	303	312	346	NNW
9-Aug-07	234	244	233	227	158	160	99	98	98	74	82	28	295	213	263	259	320	235	110	113	91	358	247	17	203	SSW
10-Aug-07	47	1	56	33	67	38	209	215	159	160	162	164	194	216	278	230	175	89	275	34	5	17	64	248	179	S
11-Aug-07	302	310	219	209	221	227	310	296	210	209	152	85	82	103	60	61	69	79	77	66	57	87	63	62	82	E
12-Aug-07	64	54	65	67	68	65	69	66	62	65	55	40	39	38	41	48	24	13	317	276	56	21	1	327	50	NE
13-Aug-07	336	299	328	44	272	235	311	49	69	41	64	130	76	219	244	272	238	239	229	228	200	198	196	206	237	WSW
14-Aug-07	229	210	207	201	227	213	221	208	241	254	253	259	265	270	269	280	267	274	270	314	352	218	286	224	261	W
15-Aug-07	217	222	272	214	279	298	100	66	71	89	114	109	102	130	58	54	60	74	72	66	65	66	79	68	83	E
16-Aug-07	61	42	309	307	350	333	344	67	91	65	51	60	70	73	82	89	89	84	78	75	72	72	73	74	70	ENE
17-Aug-07	75	67	65	79	79	66	56	82	64	89	105	58	87	68	68	99	249	336	270	331	336	296	233	290	46	NE
18-Aug-07	237	267	271	279	282	170	319	211	208	30	234	215	158	132	144	100	123	136	127	101	31	190	50	87	194	SSW
19-Aug-07	34	225	39	76	143	182	157	197	203	221	207	214	250	159	169	273	121	175	218	206	218	218	217	210	201	SSW
20-Aug-07	238	230	238	216	116	187	237	252	254	262	269	262	269	273	277	285	278	302	328	289	264	258	263	269	266	W
21-Aug-07	264	268	272	275	272	274	285	282	284	286	308	311	314	314	321	323	323	321	300	283	258	273	293	284	292	WNW
22-Aug-07	259	2	273	311	305	262	248	231	242	224	237	130	321	273	241	50	74	81	202	298	158	254	318	288	265	W
23-Aug-07	261	208	251	215	286	282	307	271	256	278	258	298	301	321	304	252	284	41	115	246	78	60	210	292	279	W
24-Aug-07	210	244	54	54	217	205	120	172	162	72	58	113	122	120	115	97	87	88	81	93	78	109	128	160	110	ESE
25-Aug-07	76	191	218	215	235	284	284	260	228	235	249	257	260	278	273	277	285	279	267	304	358	314	297	315	268	W
26-Aug-07	321	291	263	287	288	263	272	276	275	282	277	257	294	16	8	15	25	27	2	17	22	269	259	234	301	WNW
27-Aug-07	248	228	228	290	226	246	256	252	283	249	246	256	266	275	278	269	274	315	253	190	236	245	255	213	259	W
28-Aug-07	240	244	302	291	267	287	263	271	258	260	218	209	204	215	178	159	194	142	121	91	80	124	42	73	219	SW
29-Aug-07	67	39	101	342	254	323	160	214	321	31	87	108	162	183	190	174	175	123	116	69	116	144	77	125	127	SE
30-Aug-07	113	127	109	131	75	40	67	75	78	73	174	280	65	87	119	106	57	292	266	262	297	298	249	233	77	ENE
31-Aug-07	217	215	238	260	310	255	215	232	251	260	265	247	259	257	263	253	236	219	194	192	193	200	199	279	242	WSW
Hourly Avg	276	272	262	279	273	269	277	269	263	272	259	265	272	272	280	288	286	302	265	278	296	241	254	251		

PASZA - Evergreen Park Standard Deviation of Wind Direction Monthly Summary

Station: Evergreen Park
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

--

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	90.2	79.6	49.1	27.9	16.3	9.8	6.7

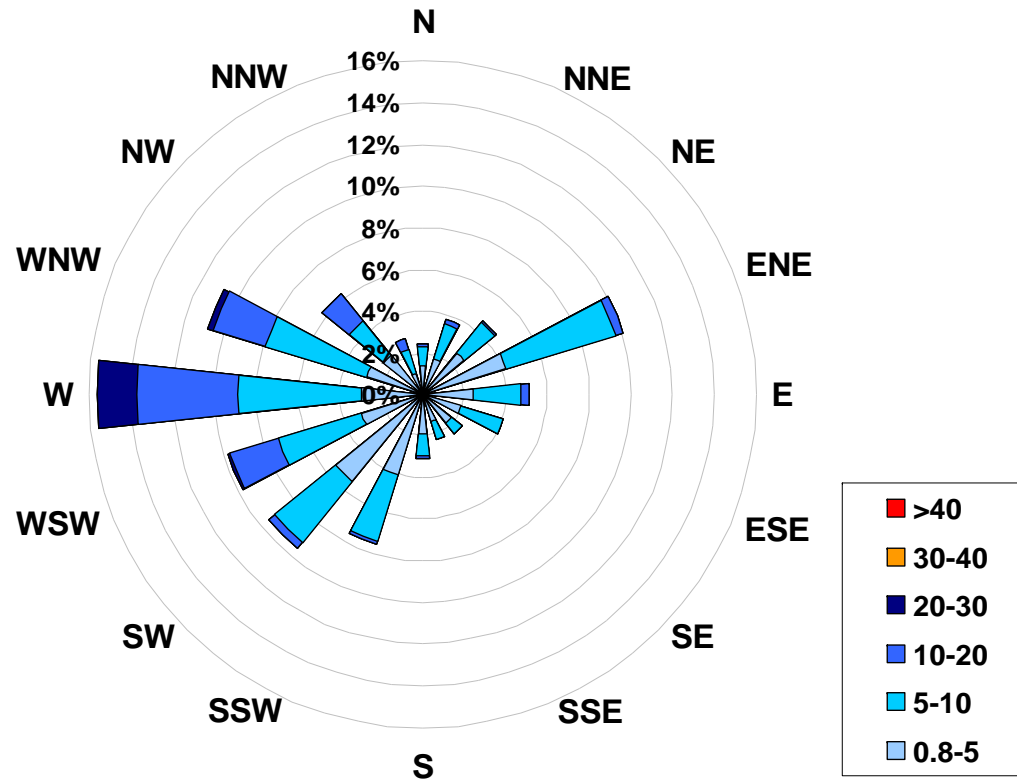
Status Flag Characters

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-Aug-07	6	21	16	22	15	17	20	15	13	21	36	58	47	72	59	73	66	57	39	12	25	68	79	38		79.2	
2-Aug-07	25	44	87	30	16	14	16	18	20	48	33	85	29	71	46	33	32	35	62	47	50	36	65	48		86.6	
3-Aug-07	90	27	76	89	53	67	37	33	40	71	33	12	13	21	16	23	27	24	30	18	13	12	11	12		89.9	
4-Aug-07	12	10	10	11	17	16	13	13	12	18	12	14	33	25	32	63	23	19	19	16	37	24	22	20		62.7	
5-Aug-07	13	11	18	15	38	22	16	29	20	20	29	35	43	44	31	64	64	25	13	11	62	75	90	72		90.4	
6-Aug-07	44	22	46	50	22	5	7	23	18	14	19	17	22	18	14	13	10	13	9	16	13	64	19	31		64.0	
7-Aug-07	88	61	78	60	45	12	14	8	8	10	10	15	17	15	16	18	13	12	11	7	12	65	62	30		87.7	
8-Aug-07	17	13	14	13	21	18	15	19	21	24	31	34	33	62	86	46	24	22	16	21	26	17	10	12		85.9	
9-Aug-07	34	30	52	54	66	56	39	54	35	39	47	66	96	75	56	86	81	80	37	32	36	70	51	61		96.2	
10-Aug-07	37	77	62	80	55	61	72	26	61	60	42	43	47	32	70	54	63	17	92	27	25	29	87	34		91.6	
11-Aug-07	15	33	84	84	25	68	83	48	30	22	87	51	25	47	31	29	32	27	19	29	20	45	80	18		86.6	
12-Aug-07	18	16	27	14	16	12	17	15	18	16	20	12	10	10	11	25	37	31	49	42	32	56	45	22		55.6	
13-Aug-07	30	15	32	21	47	60	27	28	31	32	36	69	97	17	53	35	31	30	18	12	4	4	6	24		96.9	
14-Aug-07	45	17	15	14	66	24	22	18	38	9	7	13	10	11	11	14	10	13	10	32	51	95	78	69		95.2	
15-Aug-07	64	86	49	43	72	79	74	82	34	36	35	26	39	34	22	19	22	26	19	20	11	10	19	13		86.1	
16-Aug-07	14	28	44	40	69	34	61	34	40	46	34	28	31	29	31	21	18	22	18	15	14	12	13	15		68.7	
17-Aug-07	27	16	15	21	16	21	36	27	35	45	45	36	59	49	23	47	14	32	24	24	27	71	48	53		70.8	
18-Aug-07	18	18	22	17	35	65	51	87	86	70	52	53	52	87	60	57	40	75	24	20	86	52	76	36		87.4	
19-Aug-07	74	44	39	23	57	58	76	57	25	49	48	50	50	55	39	79	47	25	25	18	18	11	14	8		78.9	
20-Aug-07	9	7	10	42	63	70	17	6	11	12	11	9	10	10	12	13	11	26	15	16	7	9	7	9		69.8	
21-Aug-07	7	9	8	10	7	10	9	12	10	12	14	14	15	15	17	15	17	16	22	21	13	26	31	27		31.1	
22-Aug-07	23	51	17	20	40	24	17	30	24	45	49	73	61	66	75	28	42	25	89	56	49	74	42	37		89.0	
23-Aug-07	49	71	59	31	62	31	29	19	28	35	48	48	36	23	33	24	28	66	12	63	53	53	30	51		71.3	
24-Aug-07	94	79	74	72	78	46	68	38	72	58	36	42	45	36	27	23	17	16	13	56	45	19	21	71		94.5	
25-Aug-07	90	28	14	14	14	50	20	30	21	25	18	12	13	22	15	15	12	11	9	46	42	52	35	19		89.9	
26-Aug-07	14	26	11	20	16	11	10	12	13	22	14	22	27	21	19	18	16	26	31	26	17	63	47	32		62.6	
27-Aug-07	33	23	19	37	12	19	11	30	42	20	15	24	22	35	42	28	28	21	27	67	24	84	61	69		83.6	
28-Aug-07	18	53	32	20	10	28	20	24	16	30	32	42	58	48	76	56	75	41	20	12	64	25	50	17		76.1	
29-Aug-07	21	44	63	69	96	81	65	72	30	63	67	66	53	47	41	43	54	21	42	30	56	94	80	33		95.7	
30-Aug-07	24	38	37	51	52	17	23	22	20	35	77	59	54	43	35	81	48	25	78	27	17	17	14	10		80.8	
31-Aug-07	48	13	9	80	85	43	55	15	12	12	15	18	16	15	12	12	10	13	9	10	8	6	33	41		85.4	
Hourly Max	94	86	87	89	96	81	83	87	86	71	87	85	97	87	86	86	81	80	92	67	86	95	90	72			

1-hr Average Wind Rose (in km/hr) Located at the Evergreen Park Site for August 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	304
5	to	10	319
10	to	20	104
20	to	30	17
30	to	40	0
	>	40	0
Total Non-Zero Values			744

PASZA – Smoky Heights Station

Monthly Summary Tables, Graphs and Roses

PASZA - Smoky Heights Sulphur Dioxide Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

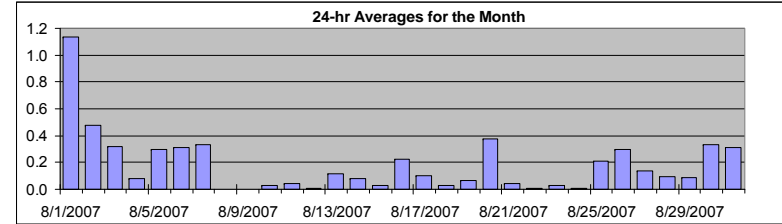
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: August 1, 2007 to September 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:	5.4	ppb	1-Aug	5:00 6:00
Maximum 24-hr Average:	1.1	ppb	1-Aug	



AIC Time:	31 hrs	Operational Time:	677 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	96.1%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.3	0.8	0.2	0.1	0.0	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 Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Aug-07	1	3	P	2	3	5	3	A	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1.1	5.4
2-Aug-07	0	0	0	0	0	0	A	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.5	1.4	
3-Aug-07	0	0	0	0	0	A	0	0	0	0	0	N	1	1	1	0	1	1	0	0	0	0	0	0.3	1.1	
4-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
5-Aug-07	0	0	0	A	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0.3	1.0	
6-Aug-07	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	3	0	0.3	2.9	
7-Aug-07	0	A	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.5	
8-Aug-07	A	0	0	0	0	0	0	0			C	C	C	C	M	M	M	M	M	M	M	M	M	N	0.2	
9-Aug-07	M	M	M	M	M	M	M	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	N	0.0	
10-Aug-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	0.1	
11-Aug-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	
12-Aug-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	0.1	
13-Aug-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.1	0.5	
14-Aug-07	0	A	0	0	0	0	0	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
15-Aug-07	0	0	0	N	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	
16-Aug-07	0	0	A	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0.2	1.9	
17-Aug-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	0.4	
18-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.0	0.1	
19-Aug-07	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	0.2	
20-Aug-07	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	4.0	
21-Aug-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	0.3	
22-Aug-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	0.1	
23-Aug-07	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	
24-Aug-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	0.1	
25-Aug-07	0	0	0	0	A	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.2	1.9	
26-Aug-07	0	0	0	A	0	0	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.1	
27-Aug-07	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7	
28-Aug-07	0	A	0	0	0	0	0	0	0	0	0	N	N	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
29-Aug-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	0.2	
30-Aug-07	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0	A	0.3	1.5	
31-Aug-07	0	0	0	0	0	0	0	1	0	3	1	1	0	0	0	0	0	0	0	0	0	A	0	0.3	2.6	
Hourly Avg	0.1	0.2	0.1	0.3	0.2	0.3	0.2	0.3	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1		
Hourly Max	1.4	3.3	0.4	4.0	3.1	5.4	2.9	2.1	1.7	2.6	1.4	1.9	1.1	1.0	0.8	0.7	0.6	0.6	0.4	0.6	1.3	2.9	0.4	1.5		

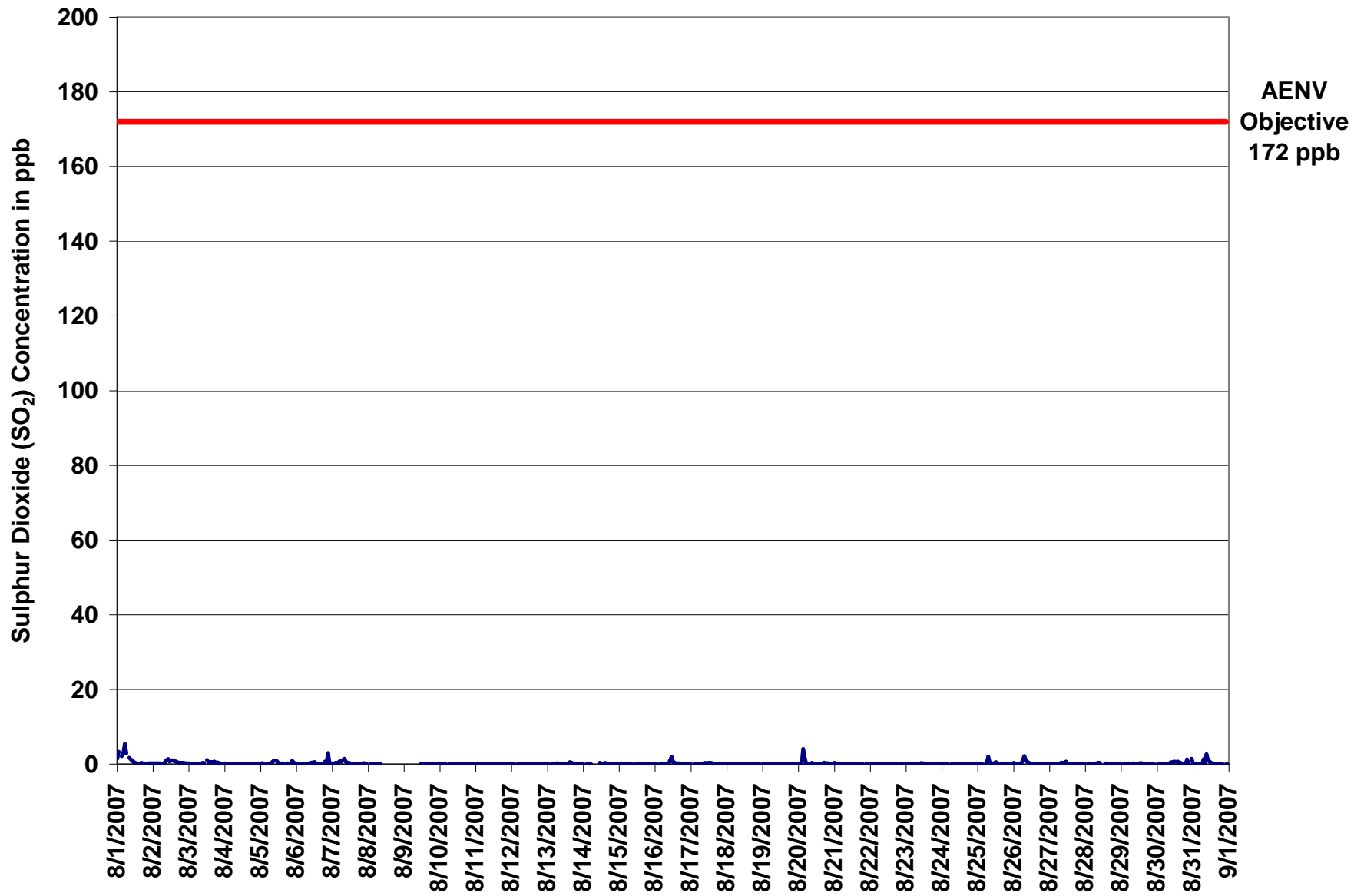


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

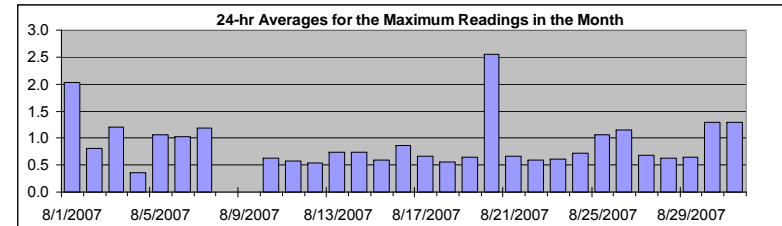
Sulphur Dioxide (SO₂)

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

Summary

Maximum 1-hr Value:	26.3	ppb	20-Aug	3:00 4:00
Maximum 24-hr Value:	2.5	ppb	20-Aug	

AIC Time:	31 hrs	Operational Time:	677 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	96.1%						
Percentile	99	95	75	50	25	5	1	Average	Median
	8.4	2.0	0.8	0.6	0.5	0.3	0.3	0.9 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-Aug-07	3	4	P	4	6	9	6	A	3	2	1	1	1	0	1	0	1	0	0	0	0	1	1	2.0	9.0	
2-Aug-07	0	0	0	0	0	0	0	A	1	1	2	2	1	1	1	1	1	1	1	1	1	0	0	0.8	2.2	
3-Aug-07	0	0	0	1	0	A	0	0	0	1	1	N	4	1	1	1	1	1	10	1	1	0	0	1.2	10.3	
4-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4	
5-Aug-07	1	1	0	A	0	0	1	0	1	2	1	10	0	0	0	0	0	0	0	0	0	2	1	0	1.1	10.2
6-Aug-07	0	0	A	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	3	0	10	1	0	1.0	10.1	
7-Aug-07	1	A	1	1	1	2	2	6	6	2	1	1	1	0	0	0	0	0	0	0	0	1	0	1.2	6.2	
8-Aug-07	A	0	0	0	0	0	0	0	2		C	C	C	C	M	M	M	M	M	M	M	M	M	N	2.1	
9-Aug-07	M	M	M	M	M	M	M	C	C	C	A	1	1	0	1	1	1	2	1	0	1	1	1	N	1.7	
10-Aug-07	1	1	0	0	1	A	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	0.6	0.9	
11-Aug-07	0	1	1	0	A	1	0	1	0	1	0	1	0	1	0	0	1	0	0	0	0	1	0	0.6	0.8	
12-Aug-07	0	1	0	A	0	0	0	0	1	0	1	1	1	1	0	1	1	1	0	1	0	0	0	0.5	0.8	
13-Aug-07	1	0	A	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0.7	1.3	
14-Aug-07	1	A	0	1	0	0	P	P	P	P	P	1	1	0	2	2	1	1	1	1	0	1	1	0.7	1.6	
15-Aug-07	1	1	1	N	0	1	1	1	1	N	0	1	1	1	1	1	0	0	0	1	1	1	1	0.6	0.7	
16-Aug-07	0	1	A	1	1	1	1	1	1	1	2	3	1	1	1	1	1	1	1	1	1	1	1	0.9	2.8	
17-Aug-07	1	A	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0.7	1.0	
18-Aug-07	A	1	0	0	0	1	1	0	1	1	1	0	1	1	1	0	0	0	0	1	1	1	1	A	0.6	0.8
19-Aug-07	1	0	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	A	0.6	0.8	
20-Aug-07	1	1	1	26	15	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	A	1	2.5	26.3	
21-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	A	1	1	0.7	1.0	
22-Aug-07	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0	0	0.6	0.9	
23-Aug-07	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	0.6	1.0	
24-Aug-07	4	1	0	1	1	A	0	0	0	1	1	1	0	1	1	1	0	1	1	1	1	1	0	0.7	4.0	
25-Aug-07	1	1	0	1	A	0	3	3	1	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1.1	3.2	
26-Aug-07	1	1	1	A	1	1	4	4	3	2	1	1	1	1	1	1	1	1	1	1	0	1	0	1.1	4.1	
27-Aug-07	1	1	A	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	0.7	1.5	
28-Aug-07	0	A	1	0	0	0	0	1	1	1	1	N	N	1	1	1	1	1	1	1	1	1	1	0.6	1.0	
29-Aug-07	A	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	1.1
30-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	1	A	8	1.3	8.2
31-Aug-07	1	1	1	1	1	1	1	10	1	4	2	2	2	1	1	1	1	1	1	1	1	A	1	1	1.3	9.6
Hourly Avg	0.8	0.7	0.5	1.7	1.3	0.9	1.0	1.3	1.1	1.1	0.9	1.2	0.9	0.7	0.7	0.7	0.6	0.6	0.6	1.0	0.7	1.0	0.6	0.8		
Hourly Max	4.0	4.0	0.8	26.3	15.3	9.0	6.5	9.6	6.2	4.1	2.2	10.2	3.8	1.4	1.6	1.6	1.2	1.7	0.9	10.3	3.9	10.1	1.2	8.2		

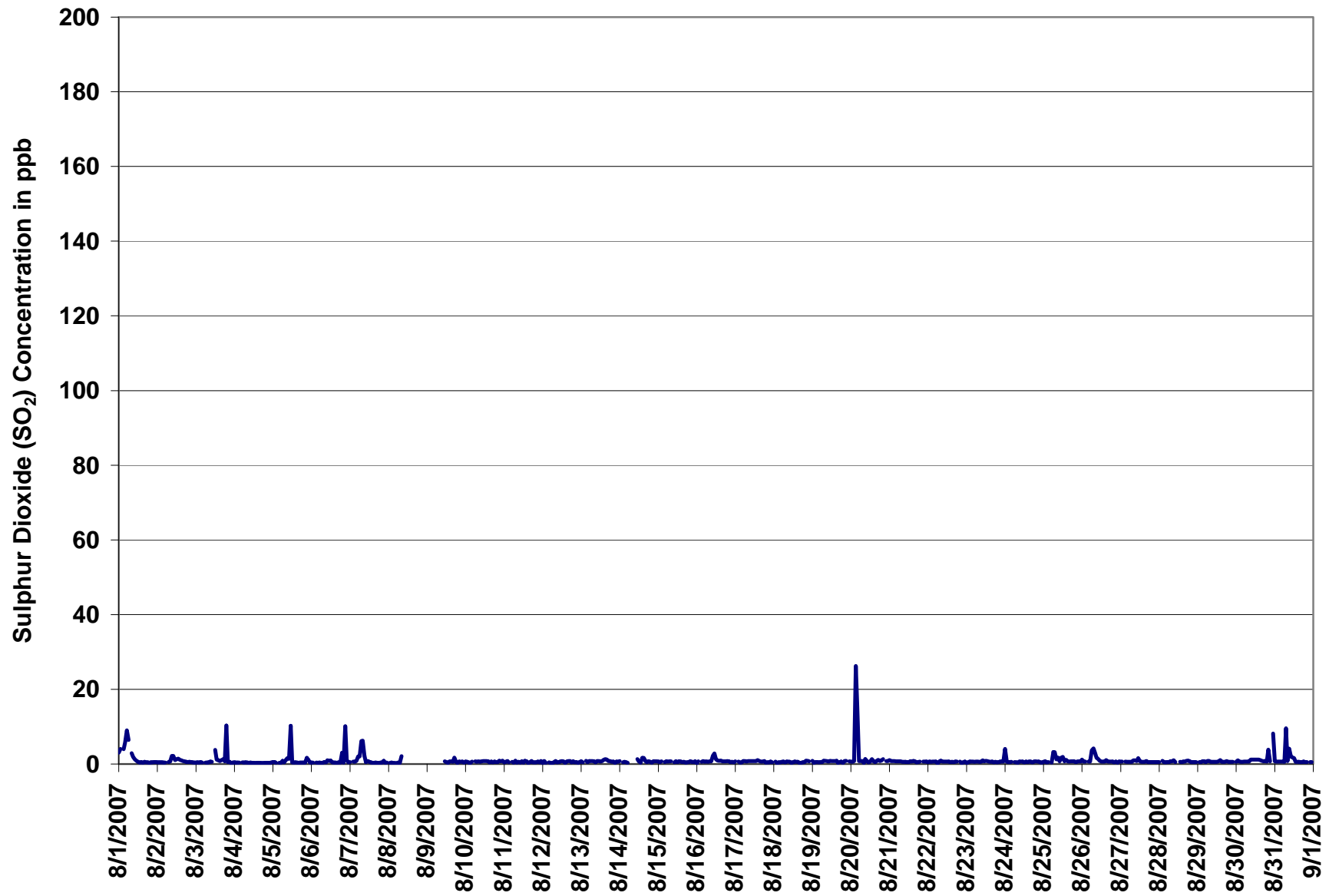
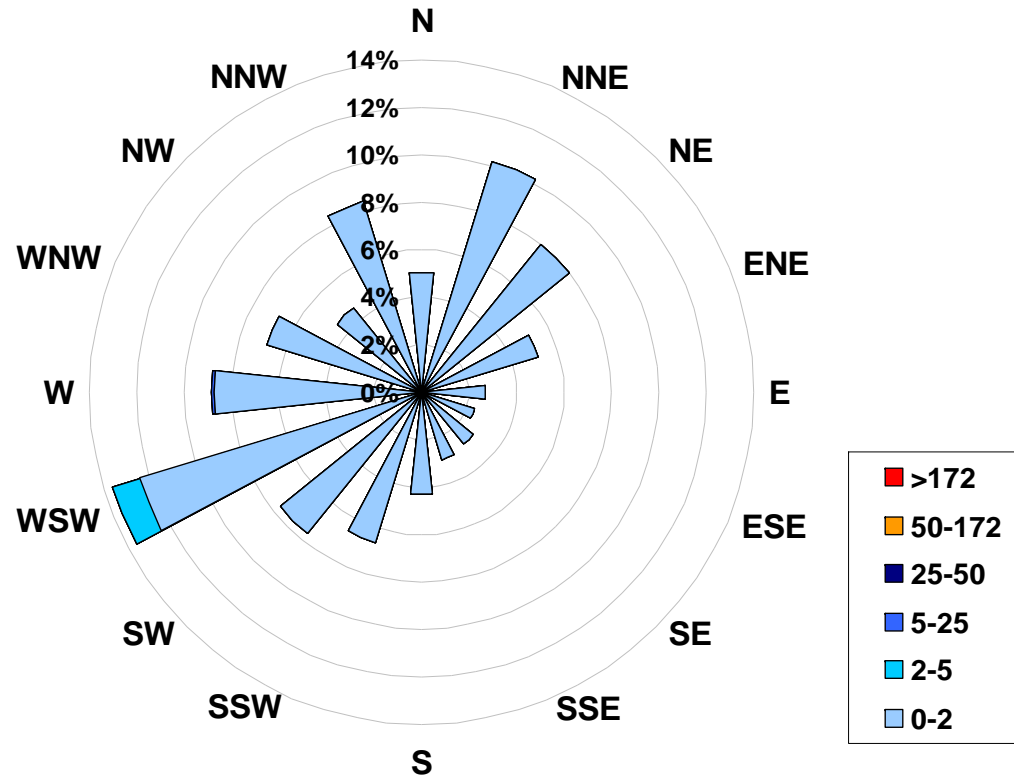


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	668
2	to	5	8
5	to	25	1
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			677

PASZA - Smoky Heights Total Reduced Sulphur Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

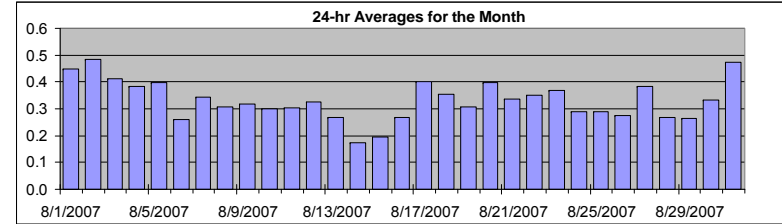
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

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

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

Maximum 1-hr Average:	1.3	ppb	20-Aug	3:00 4:00
Maximum 24-hr Value:	0.5	ppb	2-Aug	



AIC Time:	32 hrs	Operational Time:	695 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	98.5%						
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	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Aug-07	1	1	P	1	1	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	0.6	
2-Aug-07	1	0	0	1	0	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.5	0.9	
3-Aug-07	1	0	1	1	0	A	0	1	0	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
4-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	0.8	
5-Aug-07	1	1	1	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7	
6-Aug-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	0.3	0.5	
7-Aug-07	0	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7	
8-Aug-07	A	0	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	1	0	0	0	0.3	0.5	
9-Aug-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	0.3	0.4	
10-Aug-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	0.3	0.5	
11-Aug-07	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
12-Aug-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	0.3	0.5	
13-Aug-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	0.3	0.4	
14-Aug-07	0	A	0	0	0	0	0	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
15-Aug-07	0	0	0	N	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
16-Aug-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	0.3	0.4	
17-Aug-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	0.4	0.5	
18-Aug-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	0.4	0.5	
19-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.5	
20-Aug-07	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.4	1.3	
21-Aug-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	0.3	0.4	
22-Aug-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	0.3	0.5	
23-Aug-07	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
24-Aug-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	0.3	0.4	
25-Aug-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	0.3	0.4	
26-Aug-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	0.3	0.3	
27-Aug-07	0	0	A	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7	
28-Aug-07	0	A	0	0	0	0	0	0	0	0	0	N	N	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
29-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	0.3	0.6	
30-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	A	1	0.3	1.0
31-Aug-07	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	1	0	0	0	1	A	1	1	0.5	0.8	
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	0.4	0.4	0.4	0.4			
Hourly Max	0.7	0.5	0.7	1.3	0.7	0.8	0.7	0.7	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	1.0	0.9	0.6	0.8			

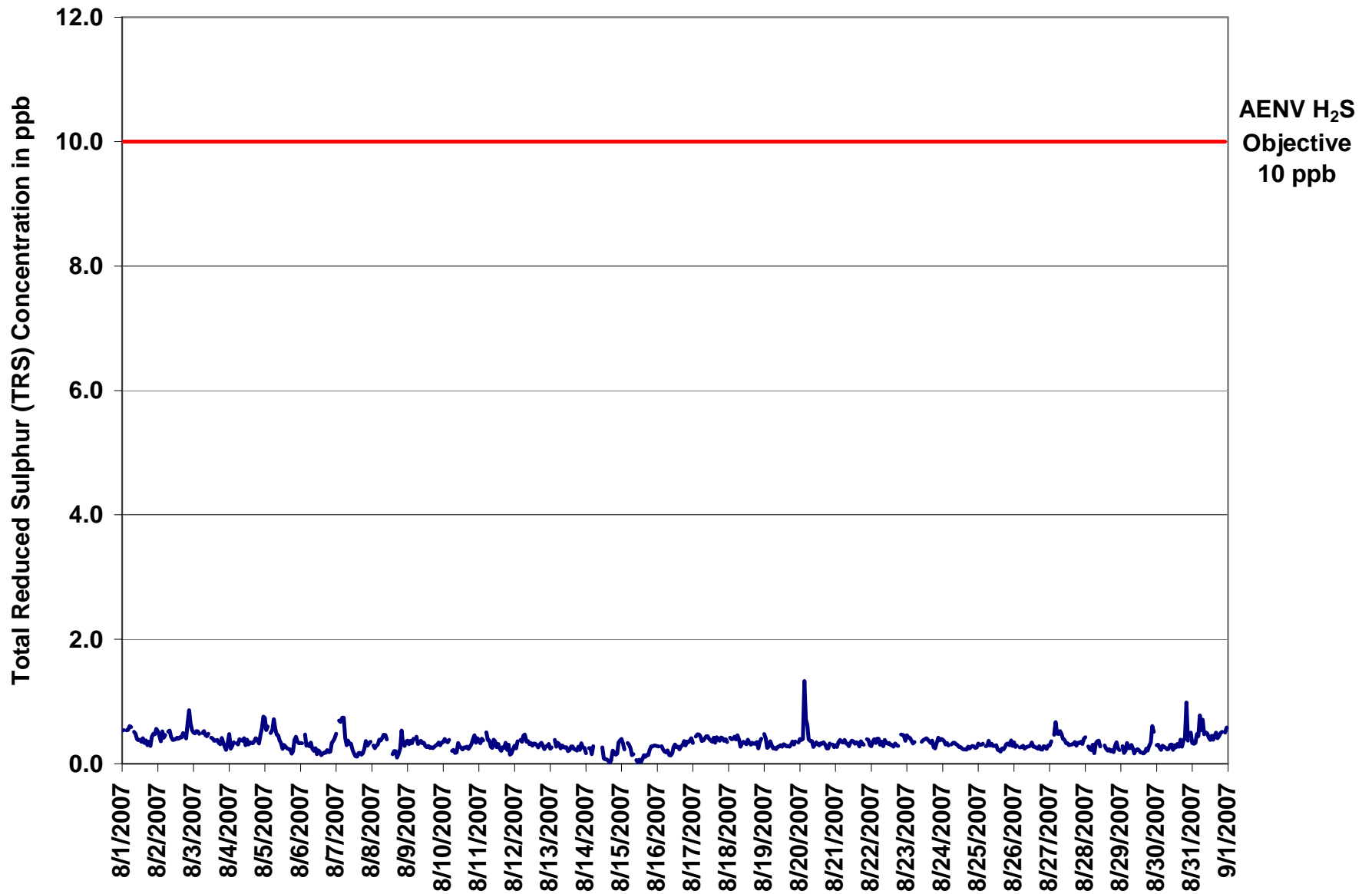


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

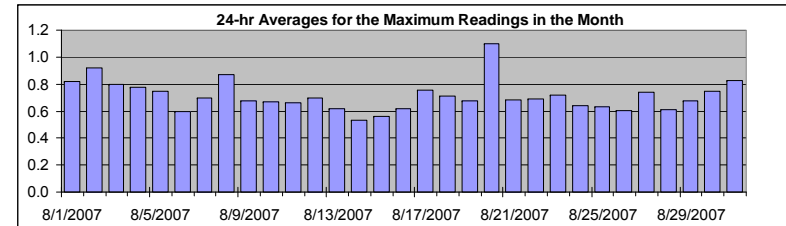
Total Reduced Sulphur (TRS)

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

Summary

Maximum 1-hr Value:	7.1	ppb	20-Aug	3:00 4:00
Maximum 24-hr Value:	1.1	ppb	20-Aug	

AIC Time:	32 hrs	Operational Time:	695 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	98.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.5	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-Aug-07	1	1	P	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
2-Aug-07	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	0.9	1.7
3-Aug-07	1	1	1	1	1	A	1	1	1	1	1	N	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
4-Aug-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.4
5-Aug-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	1.2
6-Aug-07	1	1	A	1	1	1	1	1	0	1	1	1	1	1	0	0	0	1	1	1	0	1	1	1	0.6	0.9
7-Aug-07	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	1	1	0.7	1.1
8-Aug-07	A	1	1	1	1	1	1	1	2	1	1	C	C	A	1	1	1	1	1	2	3	1	1	1	0.9	2.5
9-Aug-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
10-Aug-07	1	1	1	1	1	A	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
11-Aug-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0.7	1.0
12-Aug-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	0.8
13-Aug-07	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.6	0.8
14-Aug-07	1	A	1	1	1	1	1	P	P	P	P	P	1	0	0	0	0	0	1	1	1	1	1	1	0.5	0.8
15-Aug-07	1	1	1	N	1	1	1	1	0	N	0	0	0	0	0	1	1	0	0	1	1	1	1	1	0.6	0.9
16-Aug-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	0.6	0.8
17-Aug-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	0.8	0.9
18-Aug-07	A	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
19-Aug-07	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.7	1.0
20-Aug-07	1	1	1	7	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.1	7.1
21-Aug-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	0.7	0.9
22-Aug-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	0.7	1.0
23-Aug-07	1	1	1	1	1	1	C	C	C	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
24-Aug-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	0.6	0.8
25-Aug-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
26-Aug-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	0.6	0.7
27-Aug-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	1.1
28-Aug-07	1	A	1	1	1	1	1	1	1	1	1	N	N	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
29-Aug-07	A	1	0	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	A	0.7	1.2
30-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	A	1	0.7	1.9
31-Aug-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	0.8	1.2
Hourly Avg	0.7	0.7	0.7	1.0	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.7	0.8	0.8	0.8	0.8		
Hourly Max	1.2	1.0	1.3	7.1	4.3	1.2	1.1	1.2	1.5	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	1.0	0.8	1.9	2.5	1.7	1.6	1.4		

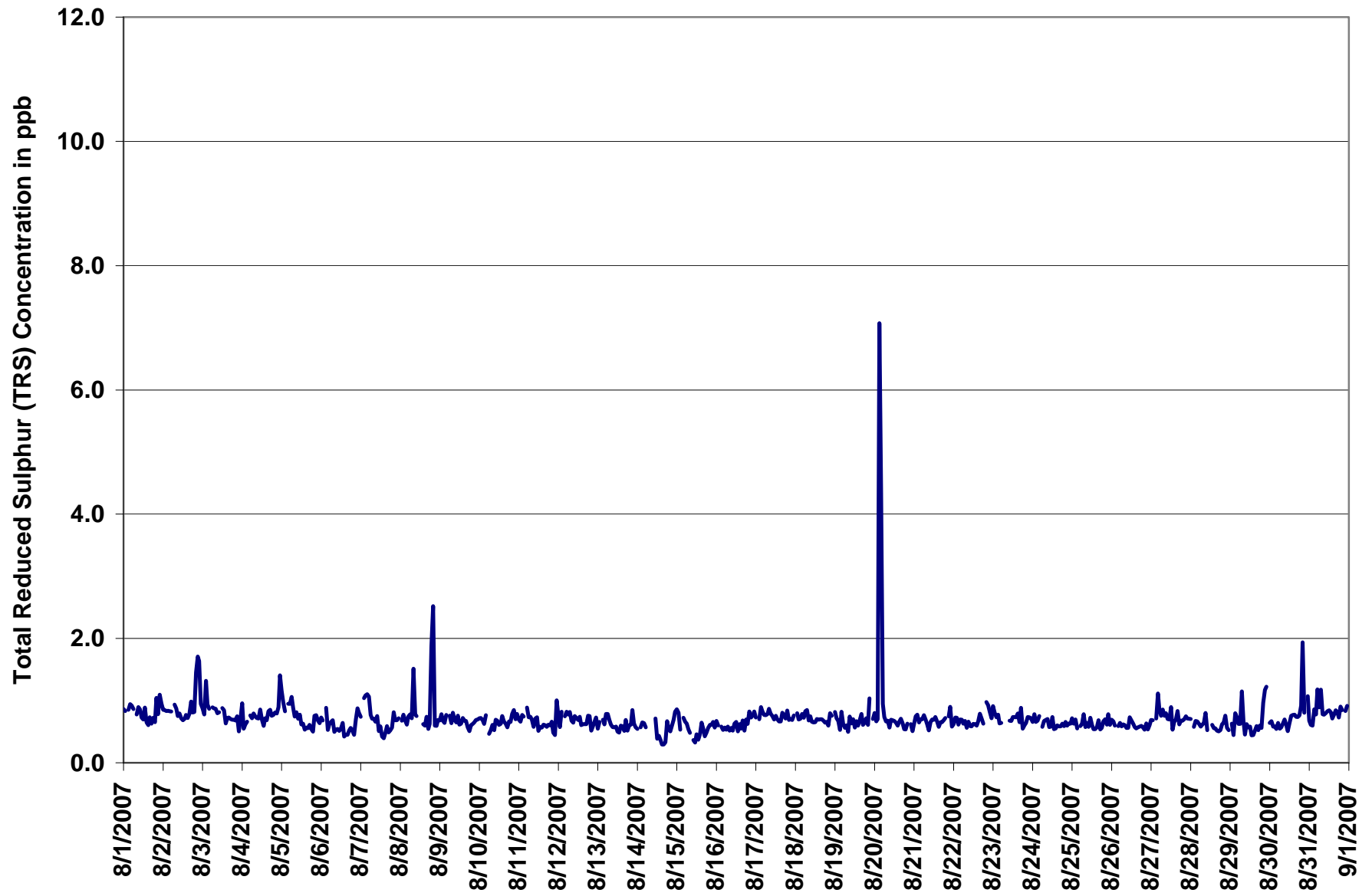
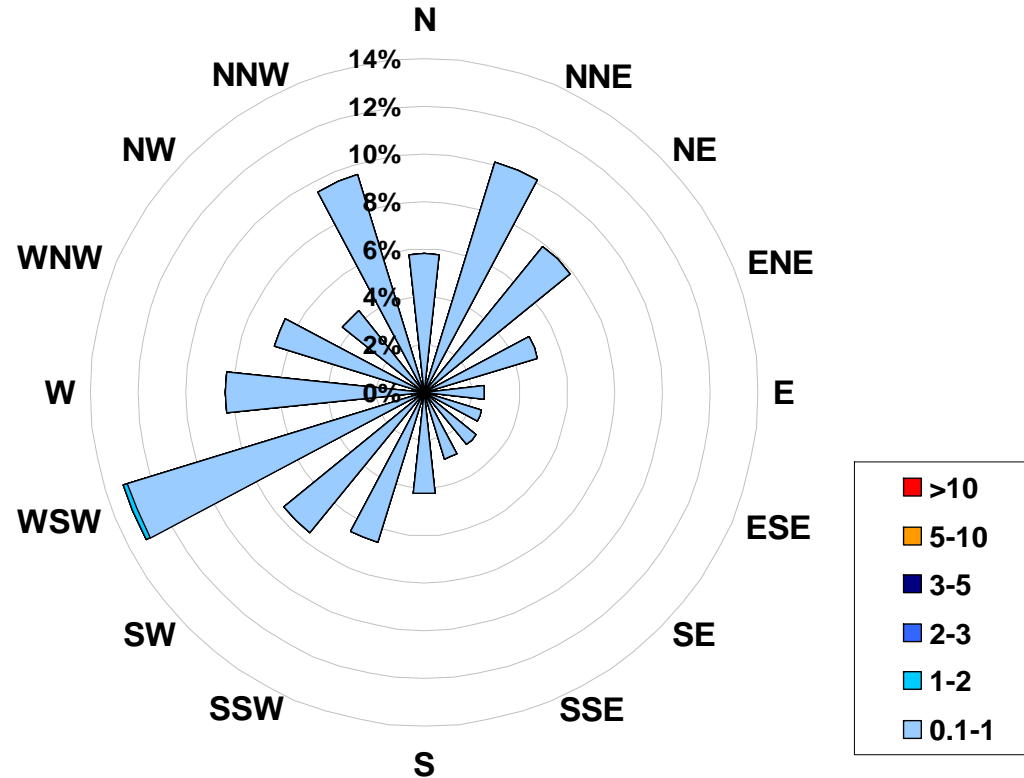


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	694
1	to	2	1
2	to	3	0
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			695

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

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

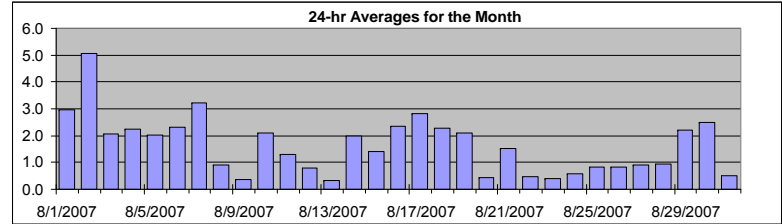
Particulate Matter (PM_{2.5})

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

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	13.5 µg/m ³ 6-Aug 8:00 9:00
Maximum 24-hr Value:	5.1 µg/m ³ 2-Aug

AIC Time:	0 hrs	Operational Time:	721 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	97.4%
Percentile	99	95	75
	8.1	5.4	2.4
	50	25	5
	1.1	0.2	0.0
	1	0.0	1.6
	Average / Median		1 µg/m ³
	Geomean		1.3 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Aug-07	1	1	P	2	1	2	4	3	4	3	3	8	0	4	1	3	3	1	6	6	2	4	4	2	3.0	8.2
2-Aug-07	1	0	3	4	0	4	8	5	5	6	12	10	6	6	3	6	5	3	5	2	12	3	4	7	5.1	12.3
3-Aug-07	8	0	0	3	0	0	1	2	2	0	3	N	4	1	3	0	3	5	2	4	4	1	0	3	2.1	8.0
4-Aug-07	3	2	2	2	3	1	1	2	4	3	3	3	3	2	1	0	3	7	7	0	0	0	0	0	2.3	7.1
5-Aug-07	0	0	0	0	0	5	7	3	8	3	2	D	0	D	3	0	0	4	2	0	5	1	0	0	2.0	7.8
6-Aug-07	0	0	D	0	1	0	2	3	13	0	3	0	2	7	0	D	0	1	4	5	1	3	1	3	2.3	13.5
7-Aug-07	2	5	3	5	6	6	0	2	3	1	5	5	2	4	0	0	0	3	2	4	3	10	4	1	3.2	9.8
8-Aug-07	1	3	0	0	D	0	1	1	0	0	0	0	1	0	1	1	0	2	0	2	6	0	1	0	0.9	6.3
9-Aug-07	0	0	0	1	1	0	0	C	C	C	0	0	0	0	0	0	0	0	0	1	0	1	2	0	0.3	2.1
10-Aug-07	0	0	2	3	6	6	4	3	2	3	2	0	0	0	0	1	1	2	4	5	3	2	0	1	2.1	6.4
11-Aug-07	1	1	1	0	2	2	2	2	1	1	1	1	0	1	1	1	1	1	2	3	2	2	1	2	1.3	2.7
12-Aug-07	0	0	0	1	1	0	0	0	0	0	1	0	1	2	2	2	2	2	2	0	1	1	0	0	0.8	2.2
13-Aug-07	0	1	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0.3	1.0
14-Aug-07	0	0	0	0	0	0	P	P	P	P	P	9	3	2	2	2	3	4	2	2	3	2	2	1	2.0	9.1
15-Aug-07	0	0	2	N	1	2	2	3	2	N	3	3	3	2	1	2	1	1	1	0	1	1	0	1	1.4	3.3
16-Aug-07	1	0	1	1	1	1	3	2	3	3	3	4	4	4	3	4	4	3	2	2	2	2	1	2	2.3	4.5
17-Aug-07	1	1	1	0	1	1	2	2	2	4	4	3	4	3	3	3	6	5	7	6	4	2	2	1	2.8	7.0
18-Aug-07	2	2	1	1	2	3	P	2	P	1	2	1	5	4	4	6	1	2	2	3	1	3	1	2	2.3	5.8
19-Aug-07	1	1	0	1	1	3	2	1	3	6	4	3	2	1	2	4	2	4	1	2	2	1	2	1	2.1	5.9
20-Aug-07	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	2	1	1	1	1	1	1	0.4	1.6
21-Aug-07	1	1	1	1	2	1	1	1	1	2	2	2	1	2	2	1	1	2	1	2	2	2	2	2	1.5	2.2
22-Aug-07	1	1	0	1	0	0	1	1	1	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0.5	1.5
23-Aug-07	0	0	0	0	0	0	3	0	1	0	1	C	1	0	0	0	0	1	0	0	0	1	0	0	0.4	2.6
24-Aug-07	0	0	0	0	0	1	1	1	2	3	1	1	0	0	0	1	0	0	3	1	0	0	0	0	0.6	2.9
25-Aug-07	3	0	0	1	0	1	1	3	3	2	0	0	0	0	0	0	2	1	1	1	1	0	1	0	0.8	2.8
26-Aug-07	0	0	1	0	0	0	0	1	0	1	2	1	1	1	2	2	2	1	2	1	1	1	0	0	0.8	2.0
27-Aug-07	1	0	1	0	0	0	0	4	3	3	2	0	0	0	0	1	2	0	2	2	2	0	0	0	0.9	3.7
28-Aug-07	0	0	0	0	0	1	1	5	1	3	1	N	N	1	1	0	0	1	2	1	0	0	1	1	1.0	5.5
29-Aug-07	1	2	1	1	2	2	2	2	3	3	2	3	4	3	2	4	5	3	2	1	1	1	1	0	2.2	5.3
30-Aug-07	0	2	0	0	1	1	1	3	2	2	4	2	5	5	4	5	5	2	5	4	2	D	0	0	2.5	5.5
31-Aug-07	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	2	3	2	2	1	0	0	0	0.5	2.8
Hourly Avg	0.9	0.8	0.7	0.9	1.1	1.4	1.8	2.0	2.6	1.9	2.3	2.3	1.7	1.9	1.4	1.6	1.8	2.1	2.4	2.1	2.1	1.5	1.0	1.0		
Hourly Max	8.0	4.6	3.2	5.5	6.4	6.1	8.2	5.5	13.5	5.9	11.5	10.2	6.0	7.0	4.5	5.9	6.1	6.7	7.1	5.8	12.3	9.8	3.9	7.2		

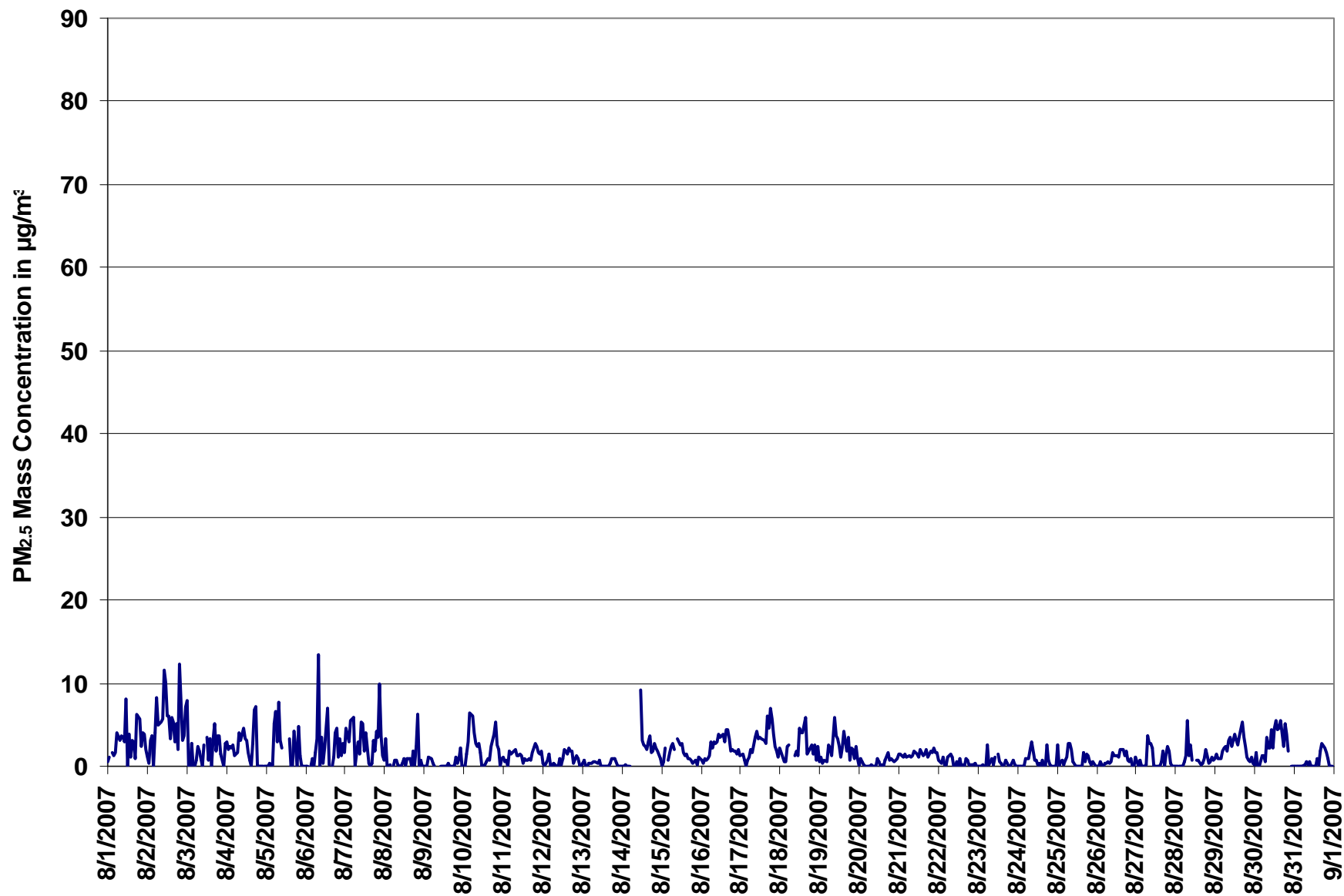


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights
 Station Owner: PASZA

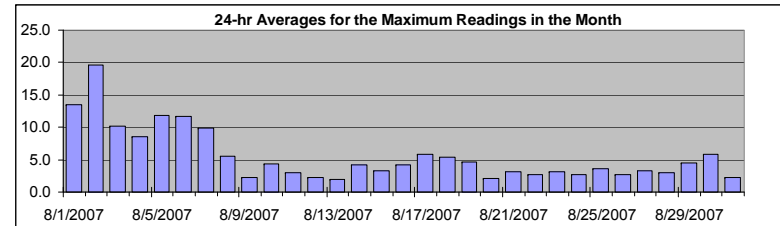
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

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

Summary

Maximum 1-hr Average:	39.6	µg/m ³	2-Aug	20:00 21:00
Maximum 24-hr Value:	19.7	µg/m ³	2-Aug	



AIC Time:	0 hrs	Operational Time:	727 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	97.7%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	32.4	18.6	6.0	3.6	2.3	1.1	0.3	5.5	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

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Aug-07	2	3	P	3	2	3	6	6	9	15	12	26	11	20	20	23	16	14	33	29	29	11	9	5	13.4	32.5
2-Aug-07	4	6	12	13	4	7	14	8	13	17	37	32	24	19	13	29	31	15	24	20	40	33	33	24	19.7	39.6
3-Aug-07	15	5	4	17	5	3	12	5	9	8	11	N	25	9	12	9	17	23	9	10	9	9	1	7	10.2	25.3
4-Aug-07	6	4	5	4	5	3	4	4	6	5	9	11	12	13	12	11	16	25	25	14	2	4	4	4	8.6	25.4
5-Aug-07	4	0	4	2	7	8	18	7	37	12	19	9	24	16	20	8	10	21	23	11	12	5	2	5	11.8	37.0
6-Aug-07	2	2	1	5	5	5	6	8	25	22	22	19	19	34	14	14	16	11	15	12	7	7	3	6	11.6	33.7
7-Aug-07	5	7	5	9	9	10	4	5	7	8	13	14	8	16	9	10	12	11	7	8	8	33	14	4	9.8	33.1
8-Aug-07	3	7	5	5	0	2	3	4	4	4	5	4	7	6	5	8	4	7	5	10	28	4	2	0	5.6	27.8
9-Aug-07	3	1	1	5	4	2	3	C	C	C	0	2	1	2	1	3	2	1	2	4	2	2	6	2	2.2	5.9
10-Aug-07	1	1	3	7	11	8	7	6	4	5	5	1	2	2	2	3	2	4	5	9	9	4	1	3	4.4	11.0
11-Aug-07	3	2	2	2	4	3	4	4	3	3	4	2	3	3	3	3	3	2	3	5	4	3	3	3	3.0	4.7
12-Aug-07	3	1	2	2	3	1	1	1	1	2	3	2	3	4	4	2	4	3	3	1	3	3	1	1	2.2	3.8
13-Aug-07	3	3	2	1	2	1	2	2	2	2	2	1	1	1	1	1	1	3	3	3	3	1	1	1	1.9	3.4
14-Aug-07	1	1	2	2	1	1	P	P	P	P	P	16	6	5	5	3	5	6	6	5	5	5	4	3	4.2	16.0
15-Aug-07	3	4	3	N	2	4	4	5	4	N	5	5	6	3	4	3	3	2	2	2	3	2	1	3	3.3	6.0
16-Aug-07	2	2	3	2	3	3	4	4	5	5	5	6	6	6	5	8	7	5	3	3	4	3	2	4	4.2	8.2
17-Aug-07	3	3	3	3	3	3	4	3	5	6	6	5	5	6	6	9	9	9	16	10	9	5	6	3	5.9	16.4
18-Aug-07	4	5	3	3	4	5	P	6	P	6	5	5	7	7	7	19	4	5	5	4	4	4	4	5	5.4	18.9
19-Aug-07	2	4	2	3	3	5	4	3	6	7	6	6	6	6	5	8	7	7	3	6	4	3	5	2	4.7	8.1
20-Aug-07	1	3	2	1	2	0	3	2	2	1	2	2	2	2	2	2	2	5	3	3	3	2	2	2	2.2	5.1
21-Aug-07	3	3	2	2	3	2	2	3	3	4	4	3	3	4	4	3	4	4	4	3	3	4	3	3	3.1	4.3
22-Aug-07	3	3	1	3	1	2	3	3	3	1	2	3	2	4	2	2	4	7	4	2	1	3	2	2	2.7	6.9
23-Aug-07	1	2	1	1	1	2	11	3	11	4	3	C	3	4	2	2	3	7	3	3	2	2	2	0	3.2	11.5
24-Aug-07	0	2	3	1	1	3	3	2	4	6	4	3	2	3	3	4	1	3	4	3	3	2	2	4	2.7	6.0
25-Aug-07	6	4	3	2	2	2	4	5	6	5	4	2	1	3	3	7	10	5	3	3	2	2	2	1	3.6	10.0
26-Aug-07	0	2	2	2	2	2	1	2	2	2	8	6	2	3	4	4	3	3	4	2	2	3	1	1	2.7	7.5
27-Aug-07	3	1	2	1	1	0	1	8	6	5	4	1	3	3	3	4	6	4	6	6	4	2	2	1	3.2	7.8
28-Aug-07	1	3	3	1	1	2	4	8	4	4	3	N	N	2	2	2	3	3	6	3	3	2	2	2	3.0	8.1
29-Aug-07	3	3	2	3	4	5	4	4	5	5	5	6	5	6	6	7	8	7	6	3	2	3	3	3	4.5	8.1
30-Aug-07	4	4	3	5	4	3	2	7	7	6	7	6	8	11	10	7	10	5	9	8	8	0	1	2	5.8	11.1
31-Aug-07	1	1	1	3	1	2	2	2	2	2	2	2	3	2	3	2	4	5	4	4	2	1	1	0	2.2	5.5
Hourly Avg	3.0	2.9	3.0	3.7	3.2	3.3	4.8	4.5	7.0	6.1	7.1	7.2	7.0	7.2	6.1	7.2	7.3	7.6	8.0	6.8	7.0	5.4	4.1	3.4		
Hourly Max	14.5	6.9	12.1	16.7	11.0	10.4	17.6	8.2	37.0	22.5	36.8	32.1	25.3	33.7	19.9	28.8	30.8	25.4	32.5	29.5	39.6	33.1	33.2	24.0		

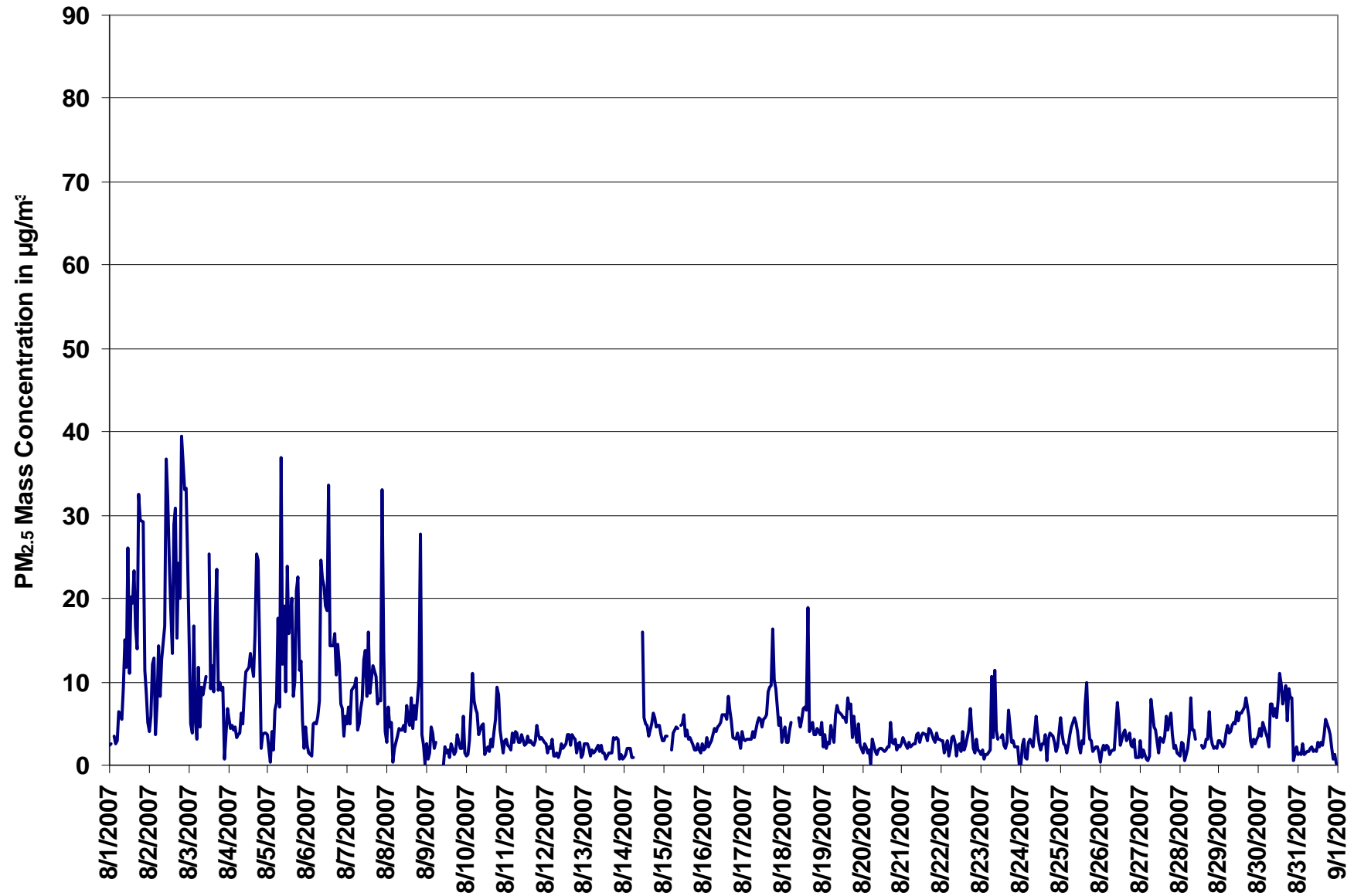
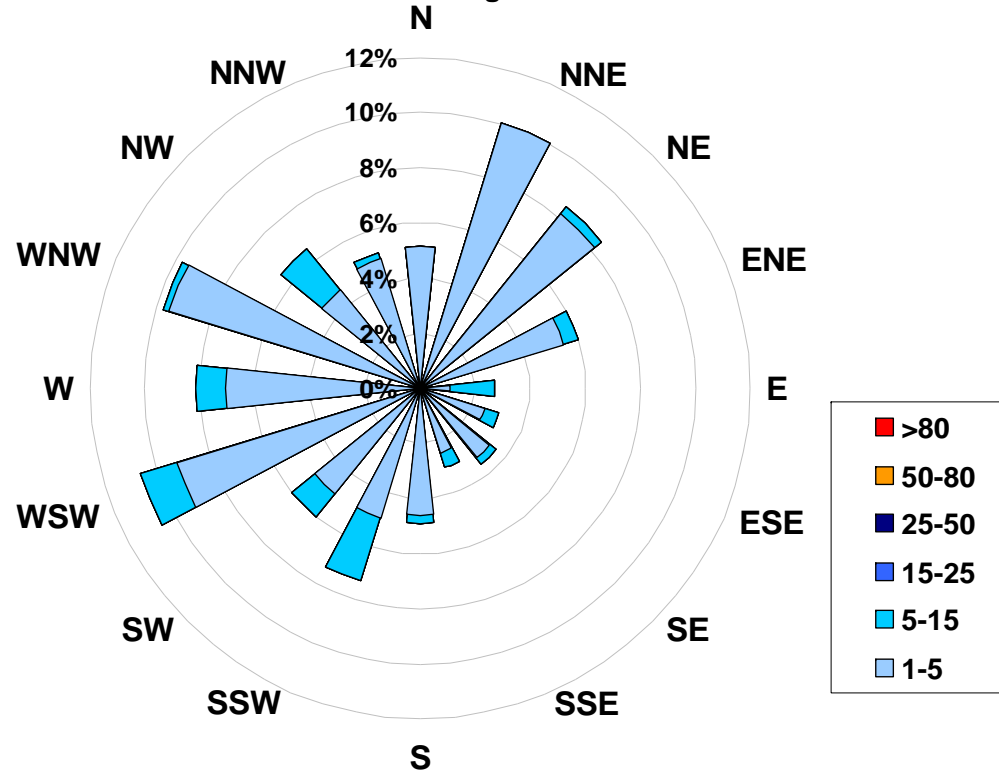


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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 August 2007



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	675
5	to	15	46
15	to	25	0
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			721

PASZA - Smoky Heights Temperature Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

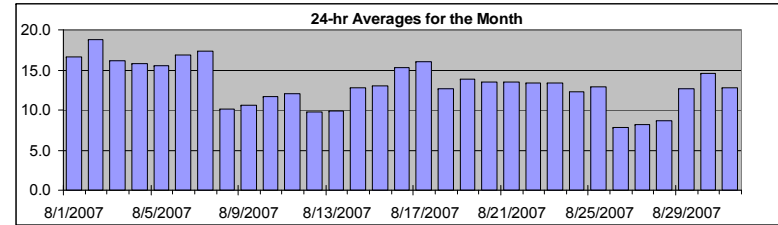
HOURLY AVERAGE TABLE

Ambient Temperature (T)

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

Summary

Maximum 1-hr Average:	26.1	°C	2-Aug	15:00 16:00
Maximum 24-hr Value:	18.8	°C	2-Aug	



AIC Time:	0 hrs	Operational Time:	733 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	98.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	25.1	21.5	16.4	12.6	10.1	5.8	2.7	13.2 °C	12.6 °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-Aug-07	11	10	P	10	9	9	10	13	15	17	18	20	21	22	23	23	23	23	22	22	19	15	14	13	16.6	23.3	
2-Aug-07	12	12	12	12	11	11	12	14	17	20	22	22	24	25	26	26	25	26	25	23	21	19	18	18	18.8	26.1	
3-Aug-07	16	15	14	15	14	14	13	13	14	16	N	20	19	19	19	20	19	17	17	16	15	14	14	16.1	20.3		
4-Aug-07	14	14	14	14	14	14	14	14	14	14	15	16	16	18	18	20	21	20	19	19	16	14	13	12	15.7	21.3	
5-Aug-07	12	11	10	10	9	10	11	12	14	16	18	20	21	22	21	20	22	21	20	18	16	14	12	12	15.5	22.1	
6-Aug-07	11	11	10	9	10	9	10	10	12	15	18	19	21	24	25	26	26	25	25	23	20	17	15	14	16.9	26.1	
7-Aug-07	13	13	12	12	13	13	17	17	17	18	19	21	21	22	22	22	22	22	21	19	16	15	14	12	17.3	22.4	
8-Aug-07	12	12	11	10	9	8	8	8	8	10	10	10	11	12	11	11	12	11	11	11	10	10	10	9	10.1	12.1	
9-Aug-07	9	9	9	8	8	8	8	8	9	9	9	10	11	12	13	14	14	15	15	15	14	12	9	8	5	10.6	15.4
10-Aug-07	4	4	4	3	4	6	8	9	11	13	16	17	18	18	19	19	19	18	15	14	11	10	10	10	11.7	19.2	
11-Aug-07	10	9	9	9	8	9	9	9	10	10	11	13	14	15	16	16	16	17	15	14	13	13	12	12	12.1	16.8	
12-Aug-07	11	10	10	10	9	8	8	8	8	9	10	11	11	11	11	11	11	11	10	9	9	9	9	9	9.7	11.3	
13-Aug-07	9	8	8	8	8	8	8	8	8	8	9	10	11	13	12	13	13	14	14	14	13	10	7	6	5	9.8	13.8
14-Aug-07	4	3	3	3	3	3	P	P	P	P	P	17	18	19	20	20	20	19	19	18	16	14	13	11	12.8	20.4	
15-Aug-07	9	8	9	N	8	8	9	10	11	N	13	15	17	17	18	18	18	18	17	16	14	12	11	11	13.0	18.3	
16-Aug-07	10	10	10	9	8	8	9	11	13	15	17	19	20	22	22	22	22	21	20	19	17	15	14	14	15.3	22.1	
17-Aug-07	14	13	13	12	12	12	12	12	14	16	18	19	20	21	22	22	21	20	18	17	15	14	13	13	16.0	22.0	
18-Aug-07	13	12	10	9	9	10	11	11	12	11	12	12	12	13	15	15	16	17	18	17	15	13	12	11	11	12.6	17.6
19-Aug-07	11	10	9	10	10	10	11	11	11	12	14	16	18	19	20	19	19	18	16	15	14	13	13	12	13.9	19.9	
20-Aug-07	11	10	10	11	10	10	10	12	14	16	16	16	16	16	17	17	17	17	16	14	14	13	13	13	13.5	17.2	
21-Aug-07	12	11	11	11	12	12	12	12	13	13	14	14	15	15	15	15	16	15	15	15	14	13	13	13	13.5	15.6	
22-Aug-07	12	12	12	12	11	11	11	11	12	13	14	14	15	16	16	17	16	16	16	14	12	12	12	12	13.3	16.8	
23-Aug-07	11	11	11	11	10	10	10	12	13	15	16	16	17	17	18	18	17	17	16	14	11	10	10	9	13.4	18.1	
24-Aug-07	8	7	6	6	6	7	8	8	9	10	12	16	17	18	18	19	19	18	17	15	14	13	12	12	12.3	18.8	
25-Aug-07	12	11	11	11	11	11	11	12	13	13	15	16	15	17	17	17	17	15	12	12	11	10	10	10	12.9	17.3	
26-Aug-07	9	8	8	8	8	8	8	8	8	9	9	9	9	9	9	8	8	9	9	9	6	6	5	4	7.9	9.3	
27-Aug-07	5	4	4	4	3	3	3	5	6	7	9	9	12	13	13	14	15	14	13	14	12	9	7	5	4	8.2	14.5
28-Aug-07	3	3	2	1	1	1	1	5	7	9	11	N	N	16	17	17	17	17	17	15	10	8	7	8	8.7	17.2	
29-Aug-07	8	8	9	9	9	9	9	10	11	13	15	16	17	18	18	18	17	15	14	14	13	12	12	12	12.7	18.1	
30-Aug-07	12	12	11	11	11	11	11	12	14	15	17	18	17	18	19	19	18	18	17	16	15	13	12	12	14.6	19.0	
31-Aug-07	12	11	11	11	10	10	10	11	11	13	13	15	17	17	17	16	16	16	15	14	12	10	9	7	12.7	17.3	
Hourly Avg	10.2	9.8	9.6	9.3	9.1	9.0	9.7	10.6	11.7	13.0	14.3	15.5	16.6	17.4	17.7	17.9	17.9	17.3	16.5	15.4	13.5	12.0	11.3	10.7			
Hourly Max	16.1	15.0	14.2	15.1	14.5	14.1	16.6	17.3	17.2	19.9	21.6	21.6	23.6	24.7	25.8	26.1	26.1	25.6	24.8	23.4	21.0	19.1	18.5	17.9			

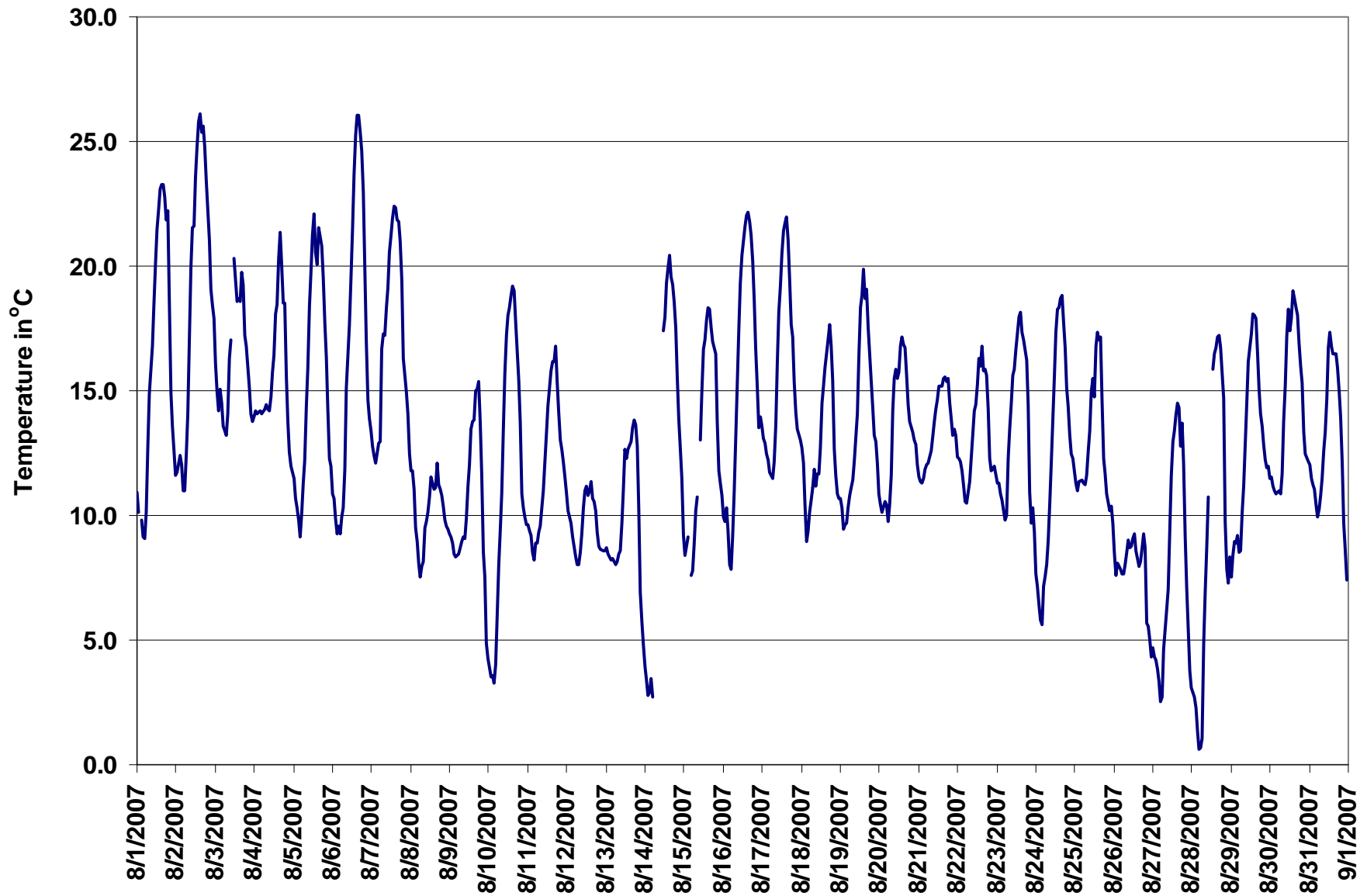


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend

PASZA - Smoky Heights Scalar Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

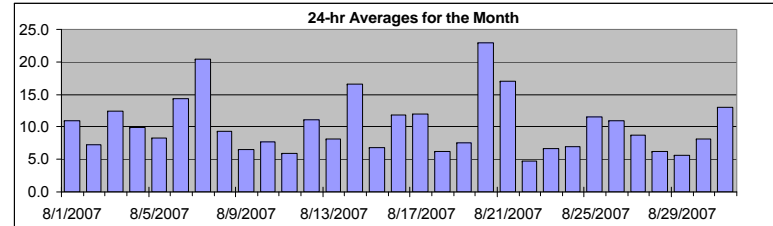
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	36.2	km/hr	20-Aug	14:00 15:00
Maximum 24-hr Value:	23.0	km/hr	20-Aug	

Calm Time:	0 hrs	0% calms	Operational Time:	733 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	98.5%				
Percentile	99	95	75	50	25	5	1	AverageS
	31.9	24.2	12.4	8.3	6.0	3.7	2.8	10.2 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 Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Aug-07	19	18	P	20	20	20	11	12	13	11	11	11	11	10	8	9	11	9	6	6	3	5	5	3	11.0	20.5
2-Aug-07	4	5	7	6	6	5	8	10	11	8	8	12	8	7	7	8	10	9	6	4	5	3	11	7	7.2	11.9
3-Aug-07	23	12	7	24	19	14	7	11	10	11	9	N	15	15	12	15	12	11	9	8	6	12	12	11	12.4	24.1
4-Aug-07	8	11	10	13	10	13	12	15	14	12	12	11	12	10	9	7	5	5	8	7	6	6	10	11	9.8	15.3
5-Aug-07	10	7	7	6	6	6	5	6	8	10	7	6	7	10	13	14	11	9	10	12	9	7	6	5	8.2	14.1
6-Aug-07	8	6	7	7	7	7	10	11	10	14	16	16	18	17	18	24	27	27	25	17	14	12	12	13	14.3	27.4
7-Aug-07	9	11	8	8	7	13	23	28	25	36	32	25	26	27	27	28	27	29	29	21	14	13	15	11	20.4	36.1
8-Aug-07	11	15	15	15	14	13	10	11	11	9	9	12	12	9	7	8	7	7	4	2	4	6	7	8	9.4	15.4
9-Aug-07	8	8	9	8	5	4	4	4	7	7	7	5	5	7	6	14	10	7	5	6	4	6	5	4	6.5	13.8
10-Aug-07	4	3	4	4	5	4	5	6	7	7	8	9	8	8	9	8	12	13	7	20	16	8	6	5	7.7	19.9
11-Aug-07	3	5	5	5	5	4	3	3	4	5	5	5	5	6	9	9	10	9	8	7	7	8	7	9	6.0	10.1
12-Aug-07	11	14	12	14	10	14	12	13	14	14	16	18	16	12	10	8	7	3	6	10	6	6	9	9	11.1	17.5
13-Aug-07	10	11	4	5	9	9	9	12	11	10	6	4	5	7	11	12	10	8	7	7	7	6	8	7	8.1	12.2
14-Aug-07	7	6	7	8	8	10	P	P	P	P	P	29	27	32	32	30	25	19	13	13	15	14	13	7	16.6	32.1
15-Aug-07	7	6	6	N	5	3	3	5	6	N	4	6	6	8	8	11	11	12	10	8	7	6	6	5	6.8	12.2
16-Aug-07	5	5	8	8	6	8	8	9	8	8	11	12	15	14	16	18	19	20	19	16	16	13	11	12	11.9	19.6
17-Aug-07	11	12	12	12	11	8	9	10	10	11	12	16	17	16	16	20	13	6	10	8	15	10	12	10	12.0	19.9
18-Aug-07	10	7	4	5	3	4	6	8	11	7	8	13	6	5	6	5	6	6	4	6	6	6	4	5	6.3	12.8
19-Aug-07	5	6	5	3	4	5	3	4	6	10	10	8	7	6	8	11	8	11	10	6	7	10	14	14	7.5	14.1
20-Aug-07	14	14	14	14	13	8	13	9	17	32	35	28	21	30	36	33	30	31	34	28	22	23	25	26	23.0	36.2
21-Aug-07	27	23	20	18	17	16	17	20	19	22	23	24	24	22	21	18	14	10	9	7	8	9	10	8	17.0	26.6
22-Aug-07	4	6	7	7	7	4	4	2	4	4	3	6	5	4	5	4	5	5	5	4	3	4	6	5	4.8	7.2
23-Aug-07	4	3	3	6	6	7	4	3	3	5	6	7	10	11	10	11	11	12	8	6	5	7	6	5	6.6	11.5
24-Aug-07	5	4	6	4	4	6	5	4	4	4	6	5	7	8	7	8	12	10	5	8	9	10	12	13	6.9	13.2
25-Aug-07	8	9	8	6	4	4	8	9	7	10	10	22	23	24	20	31	23	11	11	7	6	5	4	7	11.6	30.8
26-Aug-07	9	8	10	15	13	12	12	15	16	15	13	12	11	12	16	11	12	9	6	4	8	8	10	6	10.9	15.5
27-Aug-07	11	11	8	7	6	8	8	7	8	8	7	10	13	14	13	15	14	11	7	8	4	4	4	4	8.8	14.5
28-Aug-07	5	5	4	4	3	3	4	7	7	9	10	N	N	8	10	12	10	8	6	5	2	3	6	6	6.2	11.6
29-Aug-07	8	8	7	6	5	7	2	4	7	5	5	7	8	6	5	8	8	9	5	3	3	2	5	5	5.7	8.8
30-Aug-07	6	5	4	6	5	6	3	5	6	5	7	9	6	7	8	9	5	7	10	10	17	16	17	14	8.1	17.2
31-Aug-07	14	13	13	14	13	12	14	14	15	16	17	19	20	22	17	14	11	9	8	10	7	6	7	7	13.0	21.6
1-hr Average	9.3	9.0	7.9	9.2	8.3	8.3	8.1	9.3	10.0	11.2	11.1	12.6	12.5	12.7	13.0	13.9	12.8	11.4	10.0	9.1	8.5	8.2	9.2	8.5		
Hourly Max	26.6	23.4	19.5	24.1	20.0	20.5	22.8	27.6	25.0	36.1	35.2	29.2	26.8	32.1	36.2	33.2	30.1	30.8	33.9	27.7	22.1	22.6	25.4	26.2		

PASZA - Smoky Heights Vector Wind Speed Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

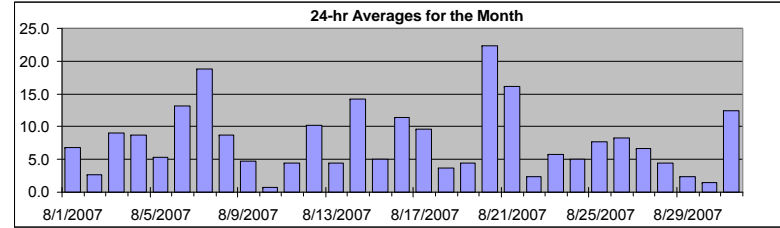
HOURLY AVERAGE TABLE

Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	17.1	km/hr	3-Aug	3:00 4:00
Maximum 24-hr Value:	22.3	km/hr	20-Aug	



Calm Time:	0 hrs	0% calms	Operational Time:	733 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	98.5%				
Percentile	99	95	75	50	25	5	1	AverageV
	6.1	4.3	2.8	2.0	1.4	0.9	0.6	13.7 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-Aug-07	2	2	P	2	2	2	5	4	2	2	3	3	3	3	3	3	3	2	2	1	1	2	1	1		6.8	5.1	
2-Aug-07	2	1	2	1	1	2	2	2	2	3	3	2	2	3	3	3	2	2	2	2	2	1	3	3		2.7	3.5	
3-Aug-07	4	5	3	17	8	4	3	3	4	3	2	N	5	3	2	3	3	3	2	2	2	2	2	1		9.0	17.1	
4-Aug-07	2	2	2	2	2	2	3	3	2	2	2	3	3	3	2	2	2	4	2	2	2	1	1	1		8.7	4.3	
5-Aug-07	3	1	1	1	2	1	1	2	2	1	3	2	3	5	3	3	3	3	4	4	3	2	2	2		5.3	4.7	
6-Aug-07	2	2	1	1	1	1	1	2	1	2	2	3	4	3	3	4	4	4	4	2	2	2	1	2		13.1	4.5	
7-Aug-07	2	3	1	1	2	3	3	3	3	6	5	3	4	4	4	4	4	5	3	4	2	2	3	1		18.8	5.5	
8-Aug-07	4	3	4	3	4	3	3	2	3	3	2	3	3	3	3	2	2	3	2	1	1	1	1	1		8.7	3.7	
9-Aug-07	2	2	2	2	1	1	1	1	2	1	2	2	2	3	2	6	3	2	2	1	1	0	1	1		4.7	5.5	
10-Aug-07	1	1	1	2	1	1	1	1	1	1	2	3	3	3	3	3	3	3	2	14	8	3	3	1		0.7	13.7	
11-Aug-07	2	2	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	2	1		4.4	2.3	
12-Aug-07	2	2	2	3	2	2	3	3	3	3	3	3	3	3	2	2	2	1	3	3	1	1	1	2		10.1	3.4	
13-Aug-07	2	2	1	1	2	2	2	3	2	2	2	1	2	2	2	2	3	2	3	2	1	1	1	1		4.4	2.7	
14-Aug-07	1	1	1	2	1	1	P	P	P	P	P	5	4	4	5	4	4	3	4	3	4	3	2	2		14.2	5.0	
15-Aug-07	4	2	2	N	2	1	1	2	2	N	2	2	2	2	2	2	2	2	2	1	1	1	2	1		5.1	3.6	
16-Aug-07	1	2	2	2	1	1	2	2	2	2	2	3	4	4	4	4	3	3	3	3	3	3	2	2		11.4	4.0	
17-Aug-07	2	2	2	2	2	2	1	2	2	2	3	4	3	3	3	4	4	3	3	2	5	3	3	2		9.6	4.9	
18-Aug-07	1	2	1	1	1	2	2	4	3	2	2	3	2	2	2	2	2	2	1	2	1	1	1	1		3.7	4.4	
19-Aug-07	2	1	1	1	1	1	1	2	1	2	3	3	3	3	3	4	2	1	1	3	3	6	2	1		4.4	6.0	
20-Aug-07	1	1	1	2	2	1	2	2	6	7	5	6	3	4	5	5	4	6	5	4	3	2	3	3		22.3	6.5	
21-Aug-07	2	3	2	2	2	3	3	3	3	3	4	5	4	4	4	4	3	2	2	2	2	1	1	2		16.2	4.5	
22-Aug-07	2	1	1	1	1	2	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	2	1		2.4	1.9	
23-Aug-07	1	1	1	1	1	2	2	1	2	2	2	3	3	4	3	3	3	3	2	1	2	2	2	1		5.7	3.6	
24-Aug-07	1	2	2	1	1	1	2	1	1	1	2	2	3	3	3	2	2	3	1	1	2	2	2	4		5.0	4.4	
25-Aug-07	3	3	2	3	2	1	2	2	2	2	3	5	3	3	4	8	11	4	4	3	2	1	1	1		7.6	10.8	
26-Aug-07	3	2	3	4	2	2	2	2	2	2	3	2	2	3	3	3	3	3	2	2	2	1	1	2		8.2	3.6	
27-Aug-07	1	1	2	1	1	1	2	1	1	1	1	3	3	4	4	4	3	4	1	2	2	2	1	1		6.6	3.7	
28-Aug-07	1	1	1	2	2	1	1	1	1	1	2	N	N	3	3	3	3	2	2	1	1	1	1	1		4.5	3.4	
29-Aug-07	0	1	1	1	0	2	1	2	1	2	2	2	2	2	2	2	1	2	1	1	1	0	2	1		2.4	2.4	
30-Aug-07	2	2	1	3	2	2	1	1	2	2	2	3	2	3	2	2	1	3	3	3	6	4	2	2		1.5	6.1	
31-Aug-07	2	2	1	2	1	2	1	2	2	2	2	3	4	3	3	2	1	1	1	1	2	1	1	1		12.4	3.9	
1-hr Vector	5.6	4.4	2.9	4.3	4.1	3.9	3.6	3.3	2.8	3.6	2.8	2.6	3.4	4.4	4.7	4.5	3.4	2.8	3.2	3.6	3.9	4.3	3.8	3.8				
Hourly Max	3.7	4.8	3.6	17.1	7.6	3.7	5.1	4.4	5.6	6.5	5.4	5.6	5.1	4.7	5.0	8.0	10.8	5.6	5.5	13.7	8.4	6.0	3.4	4.4				

PASZA - Smoky Heights Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	733 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	98.5%				
Percentile	99	95	75	50	25	5	1	Average
	356.8	344.3	277.1	225.3	71.9	19.7	3.1	280 deg

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Aug-07	254	250	P	251	253	259	243	223	224	192	186	189	199	197	179	167	135	156	94	96	61	26	36	11	219	SW
2-Aug-07	294	307	22	280	200	229	209	206	209	227	164	140	113	107	102	87	82	59	45	83	65	59	144	206	143	SE
3-Aug-07	227	290	46	257	296	60	350	282	302	292	253	N	245	244	231	223	232	308	324	229	219	281	269	258	265	W
4-Aug-07	275	282	283	294	311	311	309	303	307	310	339	341	338	340	338	342	314	324	315	300	223	247	256	263	306	NW
5-Aug-07	252	215	209	189	200	209	237	208	205	198	240	275	305	330	342	331	316	295	227	272	284	239	191	222	258	WSW
6-Aug-07	247	225	206	181	203	234	194	188	167	182	188	185	201	219	215	229	243	244	245	239	237	237	206	220	218	SW
7-Aug-07	231	215	258	243	228	250	253	250	251	258	266	262	260	260	263	253	263	263	264	256	262	314	345	355	261	W
8-Aug-07	343	316	343	339	345	358	357	354	349	2	0	347	345	26	339	9	11	29	122	36	311	329	336	343	350	N
9-Aug-07	342	345	342	349	343	353	13	24	1	61	73	39	71	124	144	332	28	52	70	56	29	37	22	344	22	NNE
10-Aug-07	340	330	293	335	284	250	185	168	166	146	131	114	134	119	195	157	75	49	38	270	275	302	64	37	157	SSE
11-Aug-07	162	192	355	360	9	17	132	105	104	97	119	47	333	55	36	41	52	40	29	26	17	12	3	27	38	NE
12-Aug-07	21	25	23	26	32	27	25	28	24	30	25	28	29	17	21	72	120	306	7	22	360	342	330	338	23	NNE
13-Aug-07	339	338	7	303	343	339	332	341	344	349	33	26	158	251	232	239	205	281	225	228	282	227	232	247	295	WNW
14-Aug-07	247	207	198	197	187	209	P	P	P	P	P	245	250	259	253	260	275	284	300	322	320	302	276	250	261	W
15-Aug-07	216	235	285	N	33	7	32	22	36	N	81	68	63	62	48	32	47	52	48	49	43	42	62	20	43	NE
16-Aug-07	29	18	27	18	17	12	20	26	38	49	51	68	72	61	70	62	60	60	55	53	49	46	40	47	49	NE
17-Aug-07	24	30	31	35	31	28	29	32	33	35	29	43	51	54	54	57	80	72	322	308	281	347	334	332	28	NNE
18-Aug-07	345	354	64	281	191	188	224	353	355	134	13	40	104	298	4	62	24	38	33	58	35	19	343	4	18	NNE
19-Aug-07	3	359	29	27	277	217	202	109	129	195	202	179	187	256	270	271	212	140	158	195	179	208	231	229	208	SSW
20-Aug-07	241	231	237	245	241	254	227	204	231	252	261	261	260	260	266	266	275	277	265	257	254	253	258	260	257	WSW
21-Aug-07	258	254	255	260	280	284	277	282	291	294	303	302	299	305	299	299	302	298	286	263	286	283	312	323	286	WNW
22-Aug-07	333	346	347	340	350	332	2	22	20	1	13	71	146	148	54	82	325	133	207	218	311	310	359	330	358	N
23-Aug-07	300	24	74	357	350	336	324	12	323	12	349	344	338	335	343	340	334	26	46	16	351	268	302	322	346	NNW
24-Aug-07	4	18	276	0	38	18	22	39	108	110	147	112	87	77	85	57	88	81	38	35	49	85	114	131	74	ENE
25-Aug-07	302	63	64	99	104	167	227	256	197	199	223	245	252	258	249	247	267	330	332	291	258	230	304	204	253	WSW
26-Aug-07	285	286	253	253	270	262	248	248	244	261	283	339	345	337	339	357	357	352	353	331	275	280	263	245	290	WNW
27-Aug-07	256	260	251	227	248	250	189	187	180	165	166	226	229	235	233	222	243	285	253	321	37	340	331	264	237	WSW
28-Aug-07	260	250	245	41	32	236	224	206	169	170	172	N	N	164	175	175	179	169	155	130	68	211	228	245	186	S
29-Aug-07	260	263	241	226	247	250	314	136	158	159	70	60	45	34	174	207	198	178	191	250	89	224	245	231	210	SSW
30-Aug-07	166	185	213	120	298	290	2	33	31	86	46	124	130	95	39	67	343	20	278	280	261	275	250	240	277	W
31-Aug-07	228	210	223	247	251	247	244	247	246	250	244	250	243	252	252	238	216	192	192	196	215	242	209	222	236	SW
Hourly Avg	274	281	296	280	291	288	274	273	268	249	267	281	268	276	275	272	282	318	290	287	290	292	282	274		

PASZA - Smoky Heights Standard Deviation of Wind Direction Monthly Summary

Station: Smoky Heights
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

--

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	733 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	98.5%			
Percentile	99	95	75	50	25	5	1
	84.2	65.0	31.0	16.3	9.0	5.1	3.1

Status Flag Characters

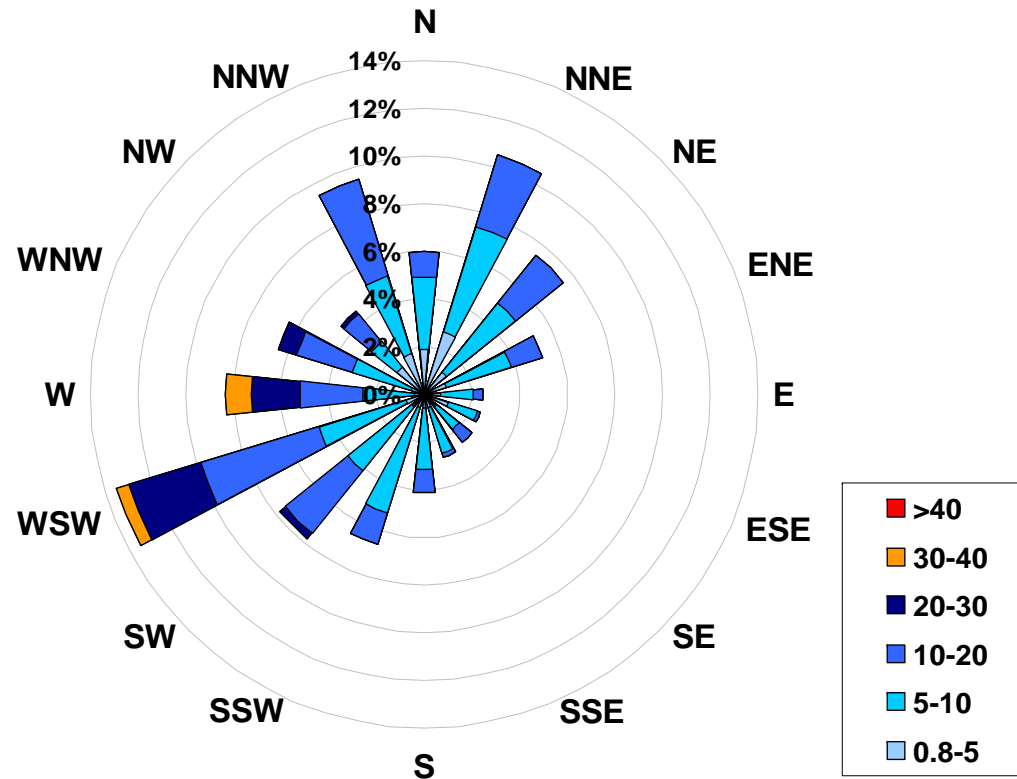
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

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-Aug-07	4	11	P	2	2	4	30	13	10	13	16	19	22	35	54	36	21	17	15	8	63	5	10	53	63.2		
2-Aug-07	18	20	10	43	11	19	6	7	9	30	27	14	30	43	52	43	18	18	18	39	53	47	9	47	53.4		
3-Aug-07	16	62	44	66	56	19	73	26	37	39	11	N	19	6	19	15	25	23	12	61	60	21	10	6	72.5		
4-Aug-07	17	7	9	7	9	5	7	6	8	12	9	11	12	22	18	33	66	34	23	13	35	28	10	5	65.9		
5-Aug-07	13	18	21	8	20	13	40	23	13	15	47	43	50	31	13	16	16	18	19	60	38	17	31	43	59.6		
6-Aug-07	12	37	14	9	14	9	11	6	15	16	10	13	15	15	13	12	8	8	4	8	3	24	11	10	37.5		
7-Aug-07	15	12	17	20	33	10	3	3	5	6	5	7	10	10	10	7	9	7	5	4	9	26	11	9	32.7		
8-Aug-07	16	17	11	9	13	11	14	13	13	18	19	14	21	22	37	22	20	24	31	44	14	14	8	7	44.0		
9-Aug-07	8	7	7	18	21	22	16	19	17	18	20	52	47	45	50	59	22	32	33	13	8	6	9	33	59.3		
10-Aug-07	16	21	10	82	16	61	13	17	20	20	32	33	43	58	26	49	14	7	10	84	47	24	60	41	84.5		
11-Aug-07	76	23	22	25	17	26	79	73	38	25	24	53	69	44	17	18	16	17	9	9	10	6	11	6	79.4		
12-Aug-07	6	5	5	5	7	5	6	7	7	6	6	4	6	11	10	32	20	87	34	11	11	11	7	6	86.6		
13-Aug-07	6	8	37	28	6	7	7	7	9	12	27	84	81	63	19	25	29	38	9	19	22	17	8	8	83.8		
14-Aug-07	10	11	20	11	10	7	P	P	P	P	P	10	12	12	8	10	11	13	27	9	10	19	5	46	46.3		
15-Aug-07	45	37	87	N	57	62	18	20	13	N	58	49	52	34	20	12	12	8	6	6	10	18	17	21	87.3		
16-Aug-07	17	26	19	12	8	5	8	9	12	16	15	16	14	22	16	12	9	9	7	7	5	5	7	7	25.7		
17-Aug-07	12	6	5	6	10	12	6	10	8	10	10	10	12	11	13	11	15	35	89	28	26	17	10	10	88.9		
18-Aug-07	6	13	80	91	87	65	39	57	78	67	36	8	76	31	37	42	34	29	28	19	21	27	35	47	91.3		
19-Aug-07	41	35	13	77	45	13	29	43	27	10	14	27	36	68	39	15	54	11	10	69	28	27	7	3	77.5		
20-Aug-07	4	3	5	3	4	10	5	20	9	12	6	6	6	7	6	6	7	7	6	5	5	4	3	3	20.4		
21-Aug-07	3	4	3	5	7	6	4	5	7	6	7	7	7	7	7	8	8	8	10	4	15	7	35	10	35.0		
22-Aug-07	30	10	8	6	13	45	18	25	17	38	54	33	86	65	36	65	71	58	24	27	54	54	22	63	86.0		
23-Aug-07	64	39	78	11	8	34	84	70	78	60	39	33	23	23	25	19	14	20	9	8	15	70	48	44	83.6		
24-Aug-07	27	24	65	35	33	8	14	33	46	46	44	65	33	31	45	24	18	20	21	10	23	9	9	22	65.5		
25-Aug-07	60	69	26	30	44	24	24	16	31	20	23	12	7	12	10	10	52	19	15	45	54	23	38	28	68.8		
26-Aug-07	26	17	19	11	8	8	4	7	11	13	31	10	12	9	11	17	12	14	26	37	9	17	7	9	37.1		
27-Aug-07	4	4	9	22	12	14	12	9	16	9	21	24	20	21	18	20	28	28	10	68	33	36	41	51	68.0		
28-Aug-07	11	17	42	87	43	24	9	11	16	12	16	N	N	28	30	20	23	20	12	19	46	53	9	12	86.8		
29-Aug-07	3	5	11	8	7	7	66	49	23	34	60	22	15	50	32	14	9	7	15	22	55	57	15	50	66.2		
30-Aug-07	57	21	43	45	45	28	25	18	31	33	22	16	36	45	37	23	60	22	28	24	6	10	6	5	59.9		
31-Aug-07	6	9	6	8	5	6	5	7	7	7	6	7	13	12	12	8	9	7	5	4	22	14	9	6	22.1		

Hourly Max	76	69	87	91	87	65	84	73	78	67	60	84	86	68	54	65	71	87	89	84	63	70	60	63
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1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for August 2007



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	122
5	to	10	323
10	to	20	229
20	to	30	47
30	to	40	12
	>	40	0
Total Non-Zero Values			733

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: August 1, 2007 to September 1, 2007

Alberta's Air Quality Index

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

Summary

Number of 1-hr Good Readings:	677
Number of 1-hr Fair Readings:	0
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

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

Day Mountain Standard Time

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

PASZA - Beaverlodge Sulphur Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

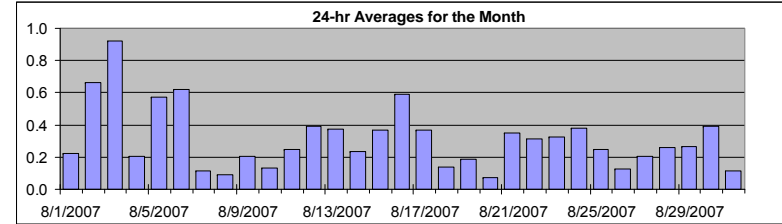
HOURLY AVERAGE TABLE

Sulphur Dioxide (SO₂)

Monitoring Dates: August 1, 2007 to September 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:	10.1 ppb	6-Aug	9:00 10:00
Maximum 24-hr Average:	0.9 ppb	3-Aug	



AIC Time:	32 hrs	Operational Time:	707 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.2	1.0	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	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00			
1-Aug-07	0	0	0	0	A	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.1
2-Aug-07	0	0	0	0	A	0	0	1	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	4.8
3-Aug-07	0	0	0	0	A	0	0	5	3	1	1	2	4	1	1	1	0	0	0	0	0	0	0	1	0.9	4.6	
4-Aug-07	1	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	0.5	
5-Aug-07	0	0	0	0	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	3	0	2	2	0.6	3.3	
6-Aug-07	0	0	1	0	A	0	0	0	0	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	10.1	
7-Aug-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	0.1	0.2	
8-Aug-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	0.1	0.1	
9-Aug-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	0.2	1.1	
10-Aug-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	0.1	0.2	
11-Aug-07	0	0	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
12-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	3	2	0.4	3.1		
13-Aug-07	1	0	0	1	A	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.4	1.2	
14-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0.2	1.7	
15-Aug-07	0	0	0	0	A	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0.4	1.7	
16-Aug-07	0	0	0	0	A	0	0	0	0	1	1	2	1	1	2	1	1	0	0	0	0	0	0	0	0.6	1.7	
17-Aug-07	0	0	0	0	A	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.4	0.7	
18-Aug-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	0.1	0.3	
19-Aug-07	0	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	1.3	
20-Aug-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	0.1	0.2	
21-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0.4	3.7	
22-Aug-07	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.3	0.7	
23-Aug-07	0	1	0	0	A	0	0	0	1	0	0	1	1	0	0	0	0	0	C	C	0	0	0	0	0.3	1.1	
24-Aug-07	0	0	0	0	A	0	0	C	C	C	A	0	1	1	1	1	1	0	0	0	0	0	0	0	0.4	1.4	
25-Aug-07	0	0	0	3	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	3.0	
26-Aug-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	0.1	0.3	
27-Aug-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	0.2	0.5	
28-Aug-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	0.3	0.8	
29-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.3	0.6	
30-Aug-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	0.4	0.9	
31-Aug-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	0.1	0.2	
Hourly Avg	0.2	0.2	0.2	0.2	N	0.2	0.3	0.4	0.6	0.7	0.4	0.4	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.4	0.3		
Hourly Max	1.2	1.3	0.6	3.0	0.0	0.9	2.1	4.6	4.8	10.1	1.6	2.1	3.8	1.4	1.7	0.9	0.8	0.7	1.7	0.5	3.3	1.0	3.7	1.7			

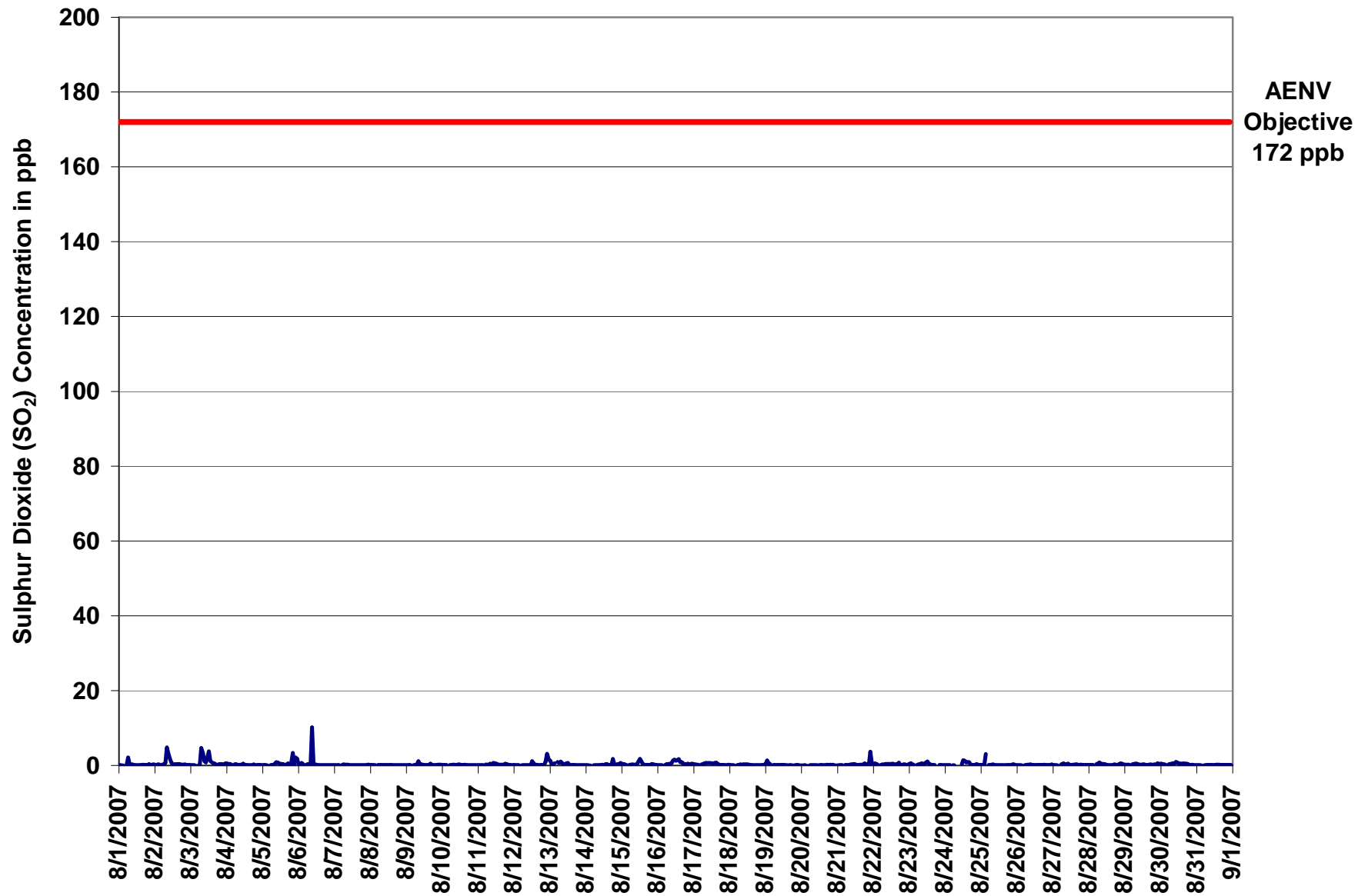


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

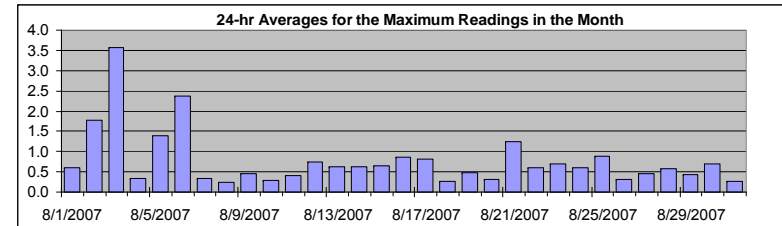
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

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

Summary

Maximum 1-hr Value:	44.9	ppb	6-Aug	9:00 10:00
Maximum 24-hr Value:	3.6	ppb	3-Aug	



AIC Time:	32 hrs	Operational Time:	707 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	10.8	1.9	0.6	0.3	0.2	0.1	0.1	0.8 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-Aug-07	0	0	0	0	A	1	7	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0.6	6.7	
2-Aug-07	0	0	0	0	A	0	0	8	15	6	2	1	1	1	2	1	1	0	0	0	0	0	0	1.8	15.1	
3-Aug-07	0	0	0	0	A	0	0	22	20	1	1	11	11	2	5	3	1	0	1	1	1	0	1	3.6	22.1	
4-Aug-07	1	1	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0.3	0.8	
5-Aug-07	0	0	0	0	A	0	0	0	1	1	1	1	1	1	0	0	0	1	1	3	10	1	4	1.4	10.4	
6-Aug-07	1	0	1	1	A	0	0	0	0	45	3	0	0	0	0	0	0	0	0	0	0	0	0	2.4	44.9	
7-Aug-07	0	0	0	0	A	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.9	
8-Aug-07	0	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
9-Aug-07	0	0	0	0	A	0	0	0	2	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0.5	2.3	
10-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.3	0.5	
11-Aug-07	0	0	0	0	A	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0.4	0.9	
12-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	2	4	0.8	4.1	
13-Aug-07	3	1	1	1	A	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0.6	2.5	
14-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0	5	1	0	1	1	0.6	5.4	
15-Aug-07	1	1	0	0	A	0	0	0	0	0	1	2	2	2	1	0	0	0	0	1	0	0	0	0.6	2.5	
16-Aug-07	0	0	0	0	A	0	1	1	1	1	2	2	1	2	2	1	1	1	0	1	1	0	1	0.9	2.1	
17-Aug-07	0	0	4	0	A	0	1	1	1	1	1	1	1	1	1	4	0	0	0	0	0	0	0	0.8	3.9	
18-Aug-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	
19-Aug-07	1	2	2	1	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0.5	2.1	
20-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0.3	1.3	
21-Aug-07	0	0	0	0	A	0	0	0	0	1	1	1	1	0	0	0	1	0	1	1	0	0	18	1.3	18.3	
22-Aug-07	1	1	1	0	A	0	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	0	0	0.6	1.5	
23-Aug-07	1	2	0	0	A	0	0	0	1	1	1	2	2	1	1	0	0	0	C	C	0	0	0	0.7	2.0	
24-Aug-07	0	0	0	0	A	0	0	C	C	C	A	1	2	1	1	1	1	0	0	0	1	0	0	0.6	1.7	
25-Aug-07	0	0	0	13	A	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.9	13.4	
26-Aug-07	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.7	
27-Aug-07	0	0	0	0	A	0	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0	0.5	0.9	
28-Aug-07	0	0	0	0	A	2	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0.6	1.9	
29-Aug-07	0	0	0	0	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	0.9	
30-Aug-07	1	1	0	0	A	0	1	1	1	2	1	1	1	1	1	1	1	1	1	0	0	1	0	0.7	1.9	
31-Aug-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	0.4	
Hourly Avg	0.4	0.4	0.5	0.7	N	0.4	0.7	1.5	1.7	2.3	0.7	1.0	1.0	0.6	0.7	0.5	0.6	0.4	0.6	0.5	0.7	0.5	1.2	0.6		
Hourly Max	2.5	2.1	3.9	13.4	0.0	1.6	6.7	22.1	20.0	44.9	2.9	10.8	10.9	1.8	4.8	2.6	3.7	1.5	5.4	3.4	10.4	1.7	18.3	4.1		

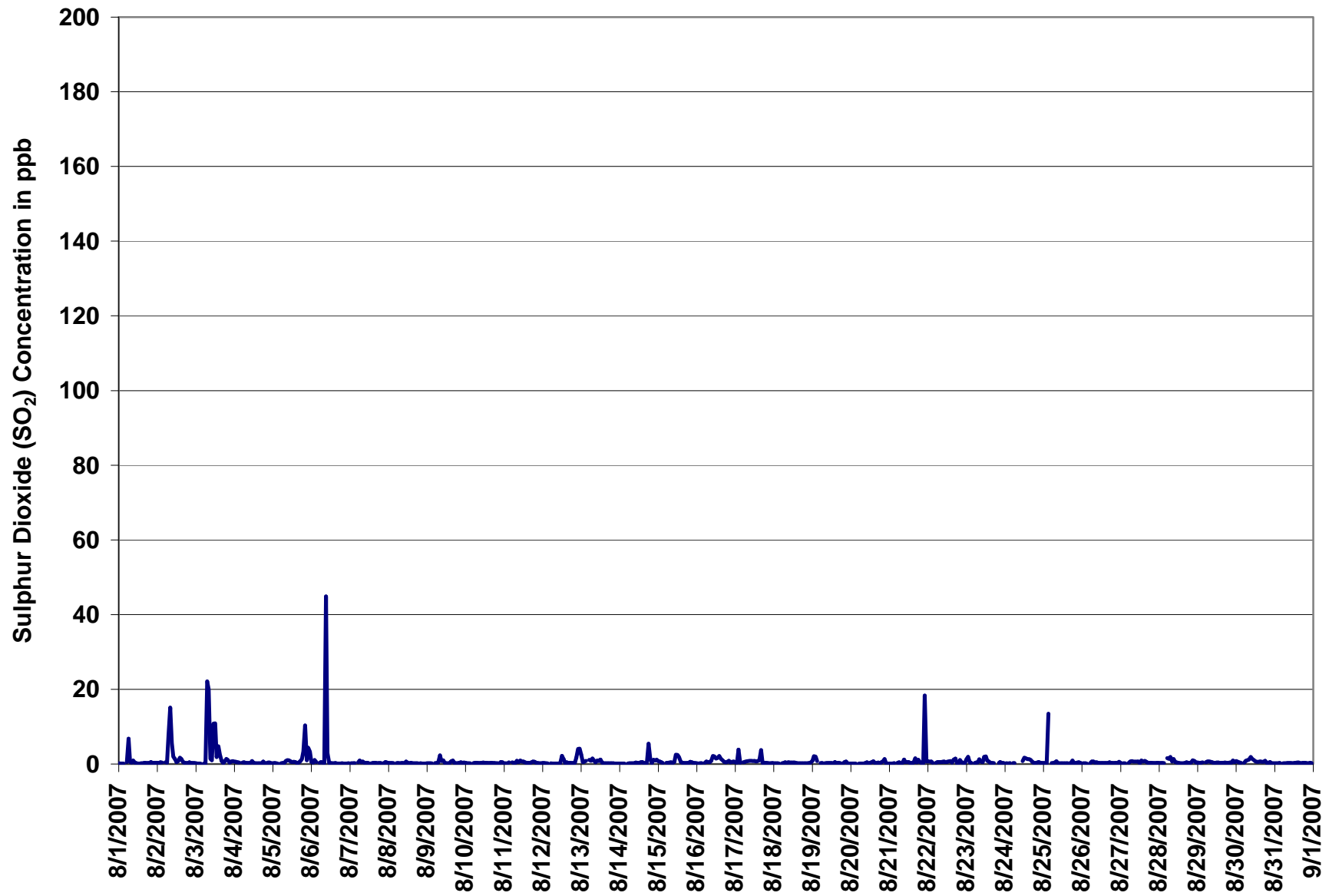
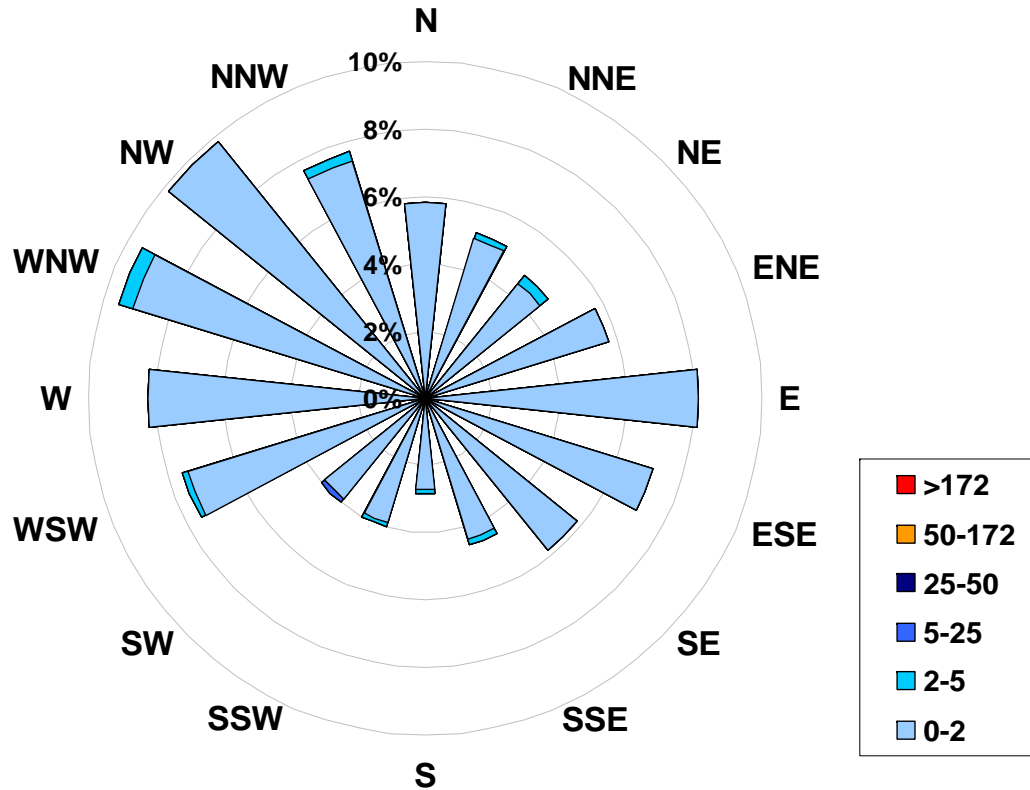


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	< 2		694
2	to 5		12
5	to 25		1
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			707

PASZA - Beaverlodge Nitrogen Dioxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

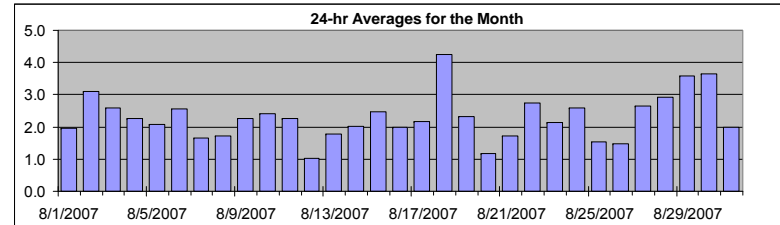
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

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

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	10.5	ppb	18-Aug	6:00 7:00
Maximum 24-hr Average:	4.2	ppb	18-Aug	



AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.6	5.7	3.0	1.9	1.0	0.8	0.4	2.3 ppb	1.9 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-Aug-07	1	1	1	1	A	5	4	4	2	1	1	1	1	1	1	1	1	1	1	2	4	3	4	4	2.0	4.5
2-Aug-07	2	2	3	8	A	7	5	4	3	4	2	1	1	1	1	1	1	1	2	3	5	4	5	5	3.1	7.6
3-Aug-07	2	1	2	2	A	4	5	5	4	3	3	2	2	2	2	3	2	2	3	3	4	2	3	2	2.6	5.2
4-Aug-07	2	3	2	2	A	2	2	2	2	1	1	1	1	1	1	1	3	2	3	3	3	6	5	3	2.3	5.9
5-Aug-07	2	4	3	3	A	2	2	2	2	2	1	1	1	1	1	1	1	1	2	2	4	3	2	4	2.1	4.1
6-Aug-07	4	3	4	6	A	6	5	4	2	2	1	1	1	1	1	1	1	1	1	3	3	4	3	2.6	6.3	
7-Aug-07	3	2	3	4	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	5	2	2	1.7	5.0	
8-Aug-07	4	2	1	1	A	1	1	1	1	1	1	1	1	1	2	1	1	1	2	2	2	2	6	1.7	6.0	
9-Aug-07	5	4	3	5	A	4	5	3	2	1	2	1	1	1	1	1	1	1	2	2	3	2	2	2.3	4.8	
10-Aug-07	2	2	6	4	A	7	4	3	2	1	1	1	2	1	1	1	1	2	2	2	2	3	3	2.4	6.7	
11-Aug-07	2	2	2	3	A	7	6	6	3	4	2	2	1	1	1	1	1	1	1	1	1	1	1	2.3	6.6	
12-Aug-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	2	1	1	3	1.0	2.7
13-Aug-07	2	3	3	3	A	3	2	1	1	1	0	0	1	1	1	1	1	1	1	1	4	4	3	1.8	4.3	
14-Aug-07	3	4	4	4	A	4	3	2	1	0	1	1	1	1	1	1	1	1	1	1	2	2	3	3	2.0	4.5
15-Aug-07	3	2	5	5	A	4	4	4	4	3	4	4	2	1	2	1	1	1	1	1	1	1	1	1	2.5	5.1
16-Aug-07	1	1	1	2	A	3	7	3	4	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2.0	7.4
17-Aug-07	2	1	1	1	A	1	2	2	2	2	2	2	2	2	2	2	4	4	2	2	2	1	4	3	2.2	4.4
18-Aug-07	4	9	7	3	A	8	10	6	9	6	5	4	3	3	2	2	2	2	2	2	4	2	2	4.2	10.5	
19-Aug-07	3	4	5	3	A	4	3	3	4	3	2	2	1	1	1	1	1	1	1	3	2	3	1	2.3	5.5	
20-Aug-07	1	1	1	1	A	3	4	3	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1.2	4.0
21-Aug-07	1	1	1	1	A	1	2	2	2	1	2	1	1	1	1	1	1	1	3	3	3	3	2	1.7	3.1	
22-Aug-07	2	2	1	3	A	9	7	5	7	4	2	2	1	1	1	1	1	1	1	2	3	2	2	2.7	8.7	
23-Aug-07	2	4	3	2	A	3	2	3	2	2	1	1	2	1	2	2	2	C	C	C	C	A	2	2.1	4.2	
24-Aug-07	3	3	3	3	A	4	4	4	3	3	2	2	4	2	2	1	2	2	2	2	2	2	1	2.6	4.3	
25-Aug-07	1	1	2	6	A	2	3	2	2	1	1	1	0	0	1	1	0	0	1	2	3	3	2	1.5	5.8	
26-Aug-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	2	6	1.5	5.6	
27-Aug-07	3	2	2	2	A	4	4	5	4	4	2	1	1	1	1	1	1	1	1	5	4	3	3	2.7	5.1	
28-Aug-07	5	4	6	6	A	7	8	4	4	2	2	1	1	1	1	1	1	1	1	3	3	2	2	2.9	8.0	
29-Aug-07	3	4	5	4	A	8	7	6	6	3	2	2	2	1	1	1	2	4	4	3	3	6	3	2	3.6	8.5
30-Aug-07	2	3	2	3	A	3	8	6	5	3	3	5	6	4	2	3	4	6	5	3	1	2	2	1	3.6	7.7
31-Aug-07	1	1	1	1	A	3	6	5	3	2	1	1	1	1	1	1	1	1	2	4	2	2	3	2.0	6.1	
Hourly Avg	2.3	2.5	2.8	3.1	N	3.9	4.2	3.4	2.8	2.1	1.8	1.6	1.5	1.3	1.2	1.2	1.4	1.5	1.6	2.0	2.6	2.7	2.5	2.5		
Hourly Max	4.8	9.2	7.1	7.6	0.0	8.7	10.5	6.5	8.8	5.9	4.6	4.8	6.3	4.4	2.4	3.4	4.4	6.0	5.0	4.6	5.0	6.4	5.0	6.0		

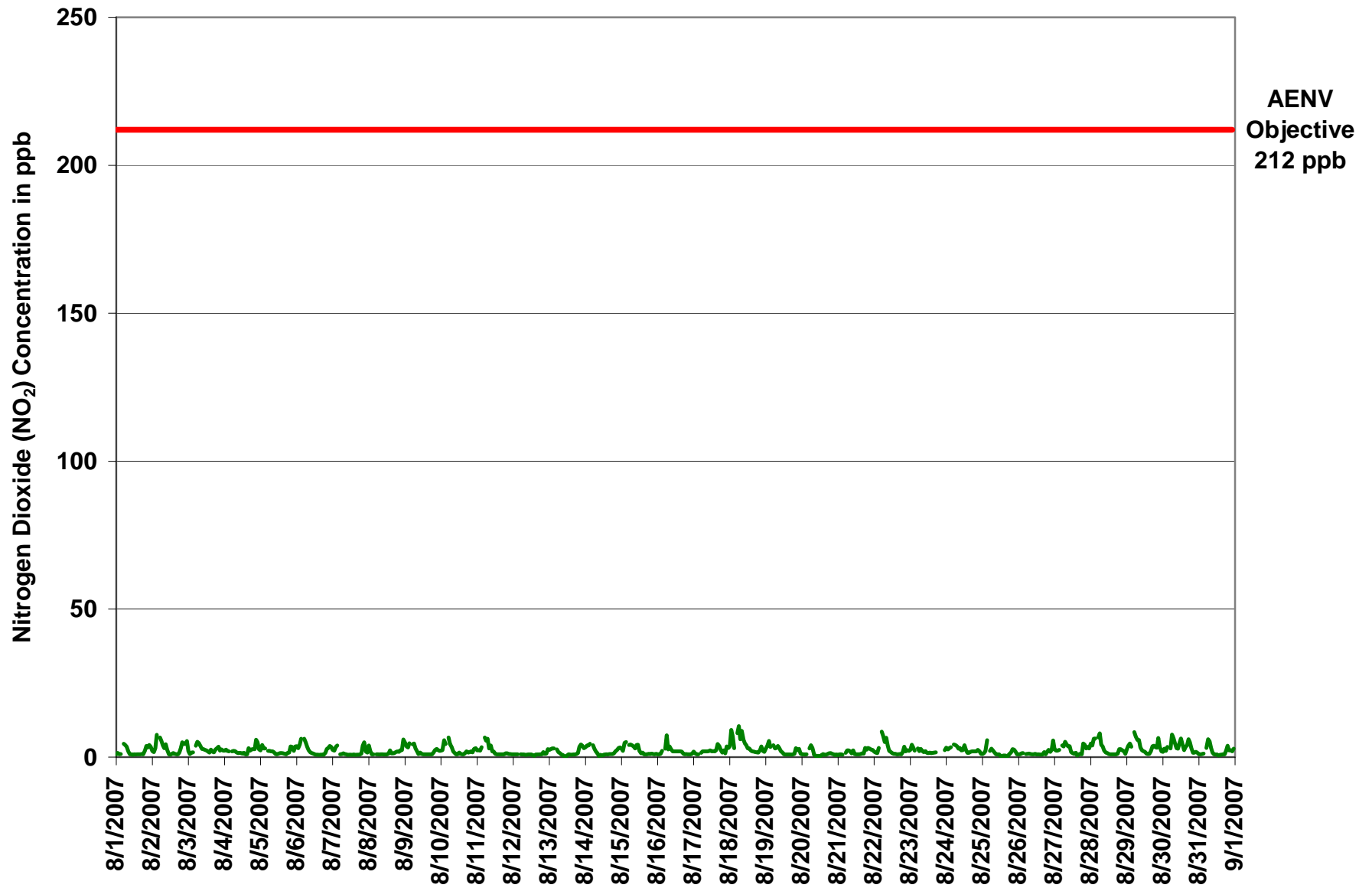


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

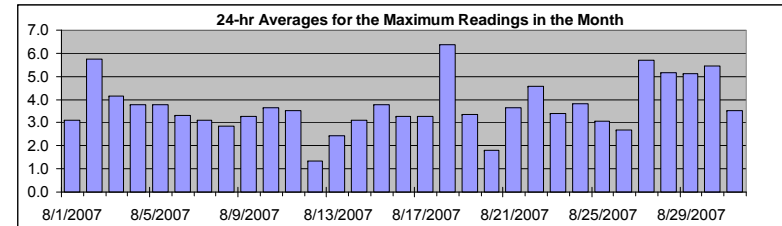
Nitrogen Dioxide (NO₂)

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

Summary

Maximum 1-hr Value:	19.0	ppb	5-Aug	20:00 21:00
Maximum 24-hr Value:	6.4	ppb	18-Aug	

AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	13.7	9.2	5.0	3.0	2.0	1.0	1.0	3.7 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-Aug-07	2	4	2	2	A	6	6	6	8	1	1	1	1	1	1	2	2	2	4	5	4	5	5	3.1	8.0	
2-Aug-07	4	4	5	11	A	13	6	7	6	7	3	2	1	4	10	10	1	1	3	4	8	7	6	10	5.8	13.0
3-Aug-07	5	2	2	3	A	7	8	7	6	5	4	4	3	3	3	5	3	3	3	4	6	4	3	3	4.1	8.0
4-Aug-07	3	4	3	2	A	2	3	3	2	2	2	2	2	2	1	2	6	3	4	3	9	14	9	5	3.8	13.7
5-Aug-07	6	9	4	3	A	3	3	2	2	2	2	1	2	2	2	2	2	2	3	19	5	4	5	3.8	19.0	
6-Aug-07	4	4	5	7	A	7	7	5	3	2	2	2	1	1	1	1	1	1	2	3	4	5	5	4	3.3	7.0
7-Aug-07	3	3	4	7	A	2	2	2	2	2	1	1	1	1	3	1	1	1	1	3	13	13	3	2	3.1	13.0
8-Aug-07	7	4	1	1	A	1	2	1	1	1	1	2	1	4	4	3	2	2	3	3	3	4	4	11	2.8	11.0
9-Aug-07	6	4	4	6	A	5	5	4	3	2	13	2	1	1	1	1	1	1	1	2	3	3	3	3	3.3	13.1
10-Aug-07	3	3	11	7	A	9	5	5	2	2	2	1	2	2	1	4	4	4	2	2	2	5	5	3.6	11.0	
11-Aug-07	5	5	3	8	A	9	7	8	7	6	3	2	2	1	1	1	1	1	2	2	2	2	1	1	3.5	9.0
12-Aug-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3	5	1.3	4.7
13-Aug-07	4	4	4	3	A	3	2	2	1	1	1	1	1	1	1	1	1	1	2	3	5	6	4	4	2.4	6.0
14-Aug-07	4	4	4	5	A	6	4	2	2	1	1	1	1	2	3	1	2	2	2	3	3	4	6	8	3.1	8.0
15-Aug-07	3	3	8	8	A	5	6	8	5	4	6	6	3	2	2	2	1	2	2	2	3	2	2	2	3.8	8.0
16-Aug-07	1	1	2	4	A	12	12	7	6	3	2	2	2	2	3	2	2	2	2	2	2	1	2	2	3.2	12.0
17-Aug-07	2	2	2	1	A	2	3	3	2	2	3	3	3	3	2	5	7	8	4	2	3	3	6	5	3.3	8.0
18-Aug-07	10	15	10	4	A	14	14	9	10	8	8	6	3	3	3	2	2	2	3	3	7	6	3	2	6.4	15.0
19-Aug-07	4	7	9	5	A	5	3	4	5	4	3	2	2	1	1	1	1	1	1	2	5	6	4	2	3.4	9.0
20-Aug-07	1	1	1	1	A	4	5	5	2	1	1	1	1	1	2	1	1	2	2	3	2	2	1	1	1.8	5.0
21-Aug-07	1	2	2	1	A	3	4	3	3	4	5	2	2	1	1	2	7	2	10	8	6	6	4	5	3.6	10.3
22-Aug-07	3	2	2	4	A	12	10	10	10	5	3	2	2	8	8	1	1	2	2	4	5	3	3	3	4.6	12.0
23-Aug-07	4	9	5	4	A	3	2	3	7	2	3	2	2	2	2	2	2	2	C	C	C	C	A	5	3.4	9.0
24-Aug-07	5	4	5	9	A	7	5	5	4	4	4	4	5	3	2	2	2	2	3	3	2	3	3	2	3.8	9.1
25-Aug-07	2	2	3	17	A	3	5	5	3	2	1	1	1	1	1	1	1	1	2	3	5	4	4	1	3.1	17.2
26-Aug-07	1	2	3	3	A	3	3	2	2	2	1	3	1	2	1	2	1	3	2	3	4	3	4	10	2.7	10.2
27-Aug-07	6	4	5	5	A	11	5	7	8	7	6	3	2	3	7	1	1	7	1	13	8	7	8	4	5.7	13.3
28-Aug-07	9	7	8	9	A	17	11	17	4	6	3	2	2	1	1	1	1	1	2	4	4	3	3	2	5.2	17.4
29-Aug-07	4	6	7	4	A	9	8	9	7	6	3	3	2	2	2	3	6	6	6	5	8	6	2	2	5.1	9.2
30-Aug-07	2	3	3	4	A	3	11	13	7	6	4	6	7	6	3	5	6	8	7	7	3	3	3	3	5.5	13.3
31-Aug-07	3	2	2	4	A	6	11	8	7	3	2	1	1	1	1	1	1	2	6	6	3	3	3	3	3.5	11.0
Hourly Avg	3.7	4.1	4.2	4.9	N	6.2	5.8	5.6	4.4	3.3	3.1	2.3	2.0	2.2	2.4	2.0	2.2	2.5	2.9	3.8	5.0	4.6	4.0	4.0		
Hourly Max	10.0	15.0	11.0	17.2	0.0	16.9	14.0	17.4	10.0	8.0	13.1	6.2	7.2	8.0	10.2	9.8	7.4	8.2	10.3	13.3	19.0	13.7	9.0	11.0		

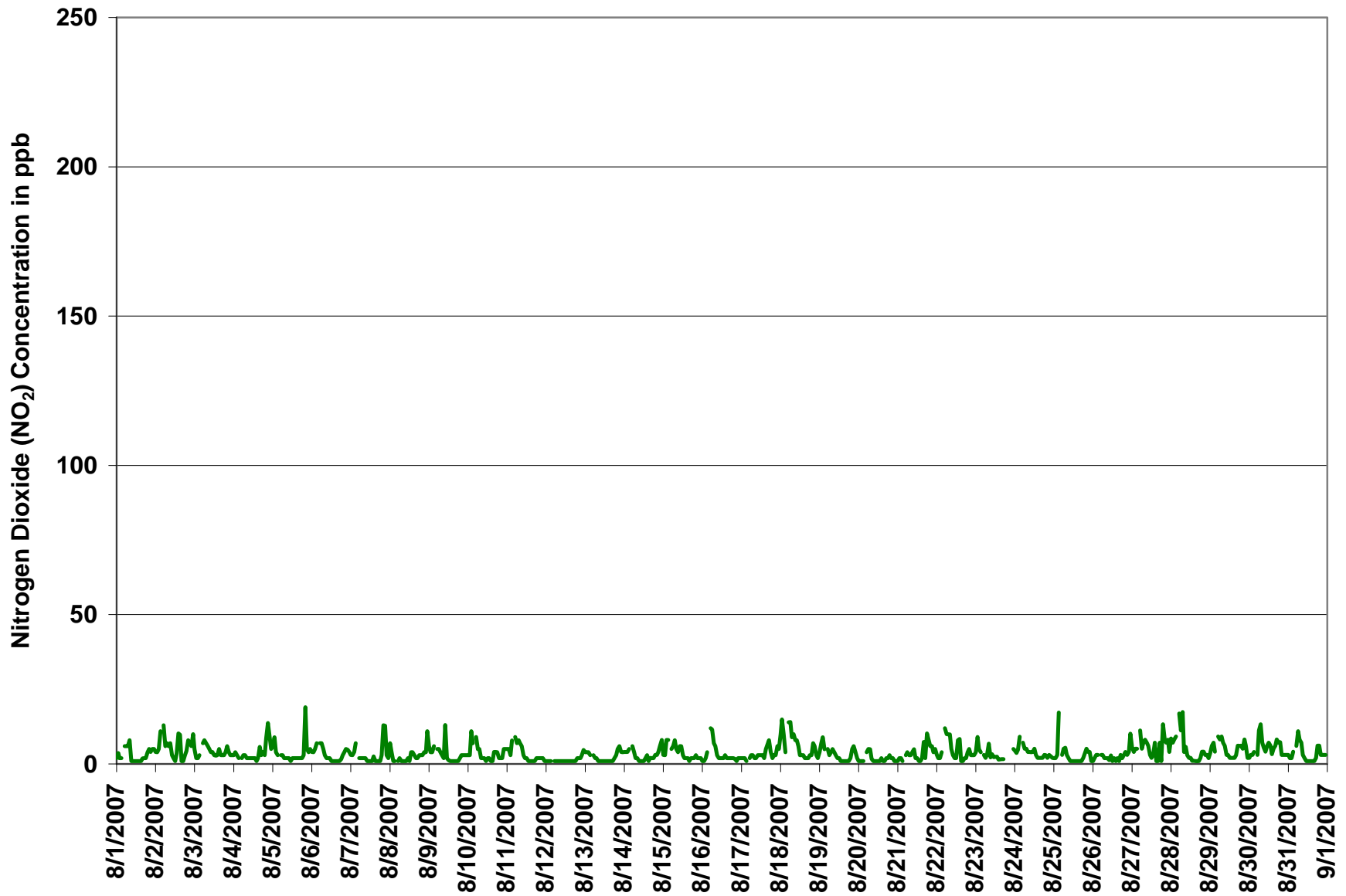
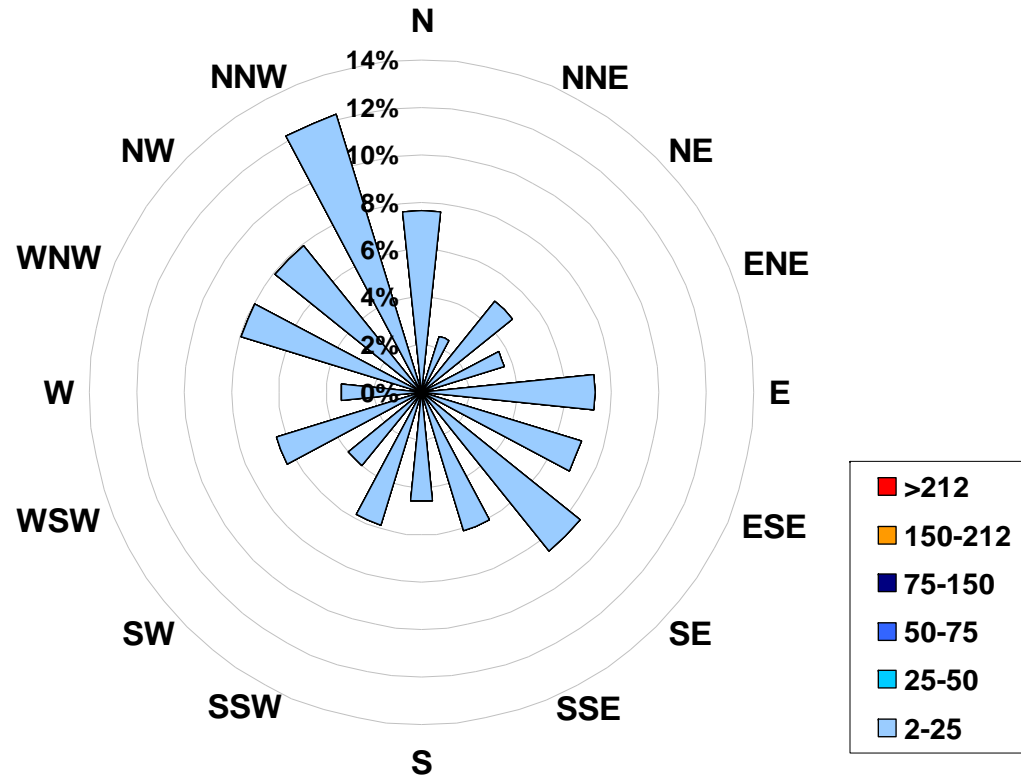


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			
Range			Frequency (hrs)
2.0	<	25	708
25	to	50	0
50	to	75	0
75	to	150	0
150	to	212	0
	>	212	0
Total Non-Zero Values			708

PASZA - Beaverlodge Nitric Oxide Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

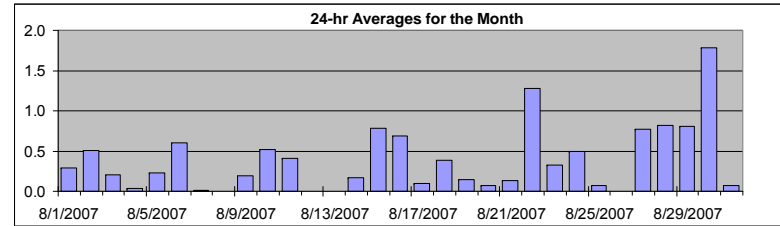
HOURLY AVERAGE TABLE

Nitric Oxide (NO)

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

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

Maximum 1-hr Average:	11.9	ppb	30-Aug	8:00 9:00
Maximum 24-hr Average:	1.8	ppb	30-Aug	



AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.9	2.3	0.1	0.0	0.0	0.4	0.0	ppb	ppb

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	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-Aug-07	0	0	0	0	A	0	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.6
2-Aug-07	0	0	0	0	A	0	2	3	2	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.5	2.6
3-Aug-07	0	0	0	0	A	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
4-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.0	0.5
5-Aug-07	0	0	0	0	A	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.6
6-Aug-07	0	0	0	0	A	1	5	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	5.0
7-Aug-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
8-Aug-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
9-Aug-07	0	0	0	0	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.3
10-Aug-07	0	0	0	0	A	1	2	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	3.8
11-Aug-07	0	0	0	0	A	1	1	3	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	3.4
12-Aug-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
13-Aug-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
14-Aug-07	0	0	0	0	A	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.2
15-Aug-07	0	0	0	0	A	0	1	2	4	3	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0.8	4.0
16-Aug-07	0	0	0	0	A	0	9	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	8.8
17-Aug-07	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8
18-Aug-07	0	0	0	0	A	0	1	0	2	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.7
19-Aug-07	0	0	0	0	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
20-Aug-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	0.9
21-Aug-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	0.1	1.1
22-Aug-07	0	0	0	0	A	1	6	5	10	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1.3	10.4
23-Aug-07	0	0	0	0	A	0	0	2	1	1	1	0	0	0	0	0	0	0	0	C	C	C	C	A	0	0.3	1.6
24-Aug-07	0	0	0	0	A	1	1	2	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.0
25-Aug-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	0.9
26-Aug-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
27-Aug-07	0	0	0	0	A	0	1	8	2	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0.8	7.5
28-Aug-07	0	0	0	0	A	3	4	3	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	4.5
29-Aug-07	0	0	0	0	A	2	6	5	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	6.0
30-Aug-07	0	0	0	0	A	0	7	7	12	4	1	3	3	1	0	1	1	1	1	0	0	0	0	0	0	1.8	11.9
31-Aug-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	0.8
Hourly Avg	0.0	0.0	0.0	0.0	N	0.4	1.8	1.9	1.9	1.0	0.6	0.4	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Hourly Max	0.0	0.1	0.4	0.2	0.0	3.0	8.8	7.5	11.9	4.3	4.0	3.1	2.7	1.3	1.1	0.7	0.5	0.7	0.3	0.1	0.0	0.1	0.0	0.0	0.0		

PASZA - Beaverlodge Oxides of Nitrogen Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

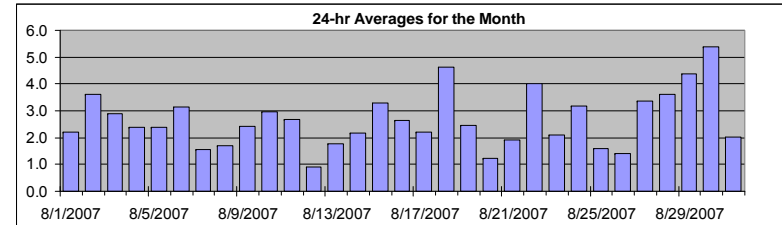
Oxides of Nitrogen (NO_x)

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

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

Maximum 1-hr Average:	17.2	ppb	22-Aug	8:00 9:00
Maximum 24-hr Average:	5.4	ppb	30-Aug	

AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	12.7	7.2	3.4	2.0	1.0	0.7	0.4	2.7 ppb	2.0 ppb



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Aug-07	1	1	1	1	A	5	6	6	3	2	1	0	1	1	1	1	1	1	1	2	4	3	4	3	2.2	6.4
2-Aug-07	2	2	3	8	A	7	8	7	5	6	3	1	1	2	3	1	1	1	2	3	5	4	4	5	3.6	7.7
3-Aug-07	2	1	2	2	A	4	6	5	5	3	3	3	3	2	2	3	2	3	3	4	2	3	2	2.9	5.8	
4-Aug-07	2	3	2	2	A	2	2	2	2	2	2	2	2	2	1	1	3	2	3	3	3	6	5	3	2.4	6.0
5-Aug-07	2	4	3	3	A	3	3	4	4	2	1	1	1	2	2	1	1	1	2	2	4	3	2	4	2.4	4.3
6-Aug-07	4	3	4	6	A	7	10	8	5	2	2	1	1	1	1	1	1	1	1	1	3	3	4	3	3.1	10.2
7-Aug-07	2	2	3	4	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	5	2	1	1.6	4.9
8-Aug-07	4	2	1	1	A	1	1	1	1	1	1	1	1	1	3	1	1	1	2	2	2	2	6	1.7	5.9	
9-Aug-07	5	3	3	5	A	4	6	4	3	2	2	1	1	1	1	1	1	1	1	2	2	3	2	2	2.4	6.0
10-Aug-07	2	2	6	4	A	8	7	7	5	3	1	1	2	1	1	1	1	2	2	2	2	3	3	3	3.0	7.6
11-Aug-07	2	2	2	3	A	7	7	10	4	6	3	2	2	1	1	1	1	1	1	1	1	1	1	1	2.7	9.7
12-Aug-07	1	1	1	1	A	1	1	1	0	1	1	1	1	0	0	1	1	1	1	1	2	1	1	3	0.9	2.7
13-Aug-07	2	3	3	3	A	3	2	2	1	1	0	0	0	1	1	0	1	1	1	1	1	4	3	3	1.8	4.1
14-Aug-07	3	4	4	5	A	4	4	3	2	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	2.2	4.7
15-Aug-07	3	2	5	5	A	4	5	7	7	6	8	7	3	2	2	1	1	1	1	1	1	1	1	1	3.3	8.2
16-Aug-07	1	1	1	2	A	3	16	4	6	4	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2.6	16.4
17-Aug-07	2	1	1	1	A	1	2	2	2	2	3	3	2	2	2	2	4	4	2	2	2	1	4	3	2.2	4.4
18-Aug-07	4	9	7	3	A	8	12	7	11	7	6	6	4	3	3	2	2	2	2	2	4	2	2	2	4.6	11.7
19-Aug-07	3	4	5	3	A	4	3	3	5	4	3	2	1	1	1	1	1	1	1	1	3	2	3	1	2.5	5.5
20-Aug-07	1	1	1	1	A	3	5	4	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1.2	4.7
21-Aug-07	0	1	1	1	A	2	3	3	2	2	3	2	1	1	1	1	2	2	3	3	3	2	2	1.9	3.5	
22-Aug-07	2	1	1	3	A	10	14	10	17	8	3	3	2	1	1	1	1	1	1	2	3	2	2	2	4.0	17.2
23-Aug-07	2	4	3	2	A	3	2	4	3	2	2	1	1	1	1	1	1	1	C	C	C	A	3	2.1	4.4	
24-Aug-07	4	3	3	3	A	6	6	6	4	5	4	3	5	3	2	2	2	2	2	2	2	2	1	1	3.2	5.7
25-Aug-07	1	1	2	6	A	2	3	3	2	1	1	1	0	0	0	0	0	0	1	1	3	2	2	1	1.6	5.8
26-Aug-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	2	6	1.4	5.6	
27-Aug-07	2	2	2	2	A	4	5	13	7	5	5	3	2	2	2	1	1	1	1	5	4	3	3	3	3.4	12.7
28-Aug-07	5	4	6	6	A	10	12	7	8	4	3	2	1	1	1	1	1	1	1	3	3	2	2	1	3.6	12.4
29-Aug-07	3	4	5	3	A	11	13	11	8	5	3	2	2	2	1	1	2	4	4	3	3	6	3	2	4.4	12.9
30-Aug-07	2	3	2	3	A	3	15	13	17	7	4	8	9	6	3	4	4	7	5	3	1	1	2	1	5.4	16.8
31-Aug-07	1	1	1	1	A	3	6	6	4	2	1	1	1	0	1	1	1	1	2	4	2	2	3	2.0	6.3	
Hourly Avg	2.3	2.5	2.8	3.1	N	4.4	6.0	5.3	4.8	3.2	2.4	2.0	1.8	1.4	1.3	1.2	1.4	1.5	1.7	2.0	2.6	2.6	2.4	2.5		
Hourly Max	4.7	9.1	7.0	7.7	0.0	10.6	16.4	13.5	17.2	8.2	8.2	7.6	9.3	5.7	2.7	4.0	4.4	6.6	5.2	4.5	5.0	6.3	5.0	5.9		

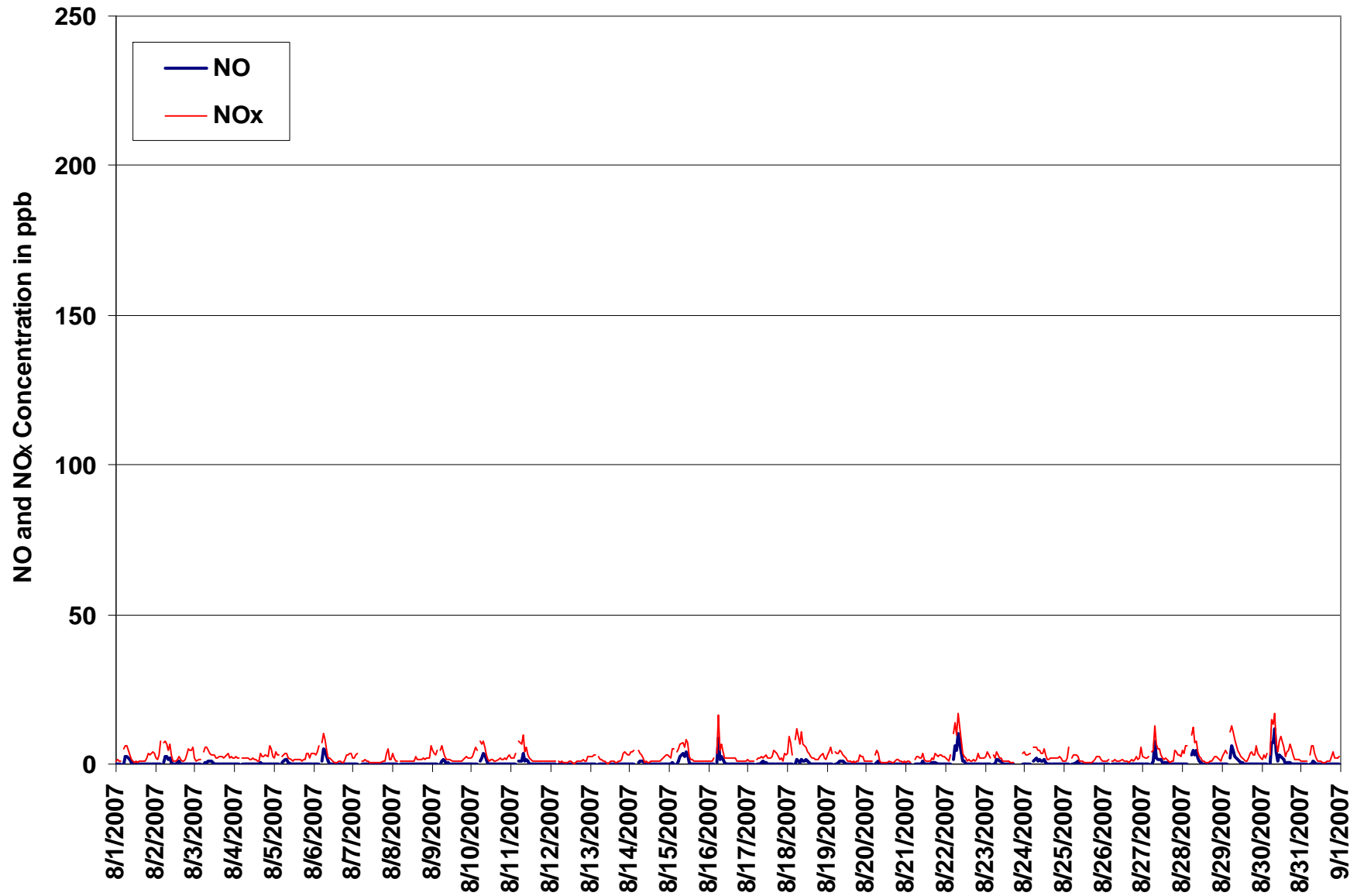


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

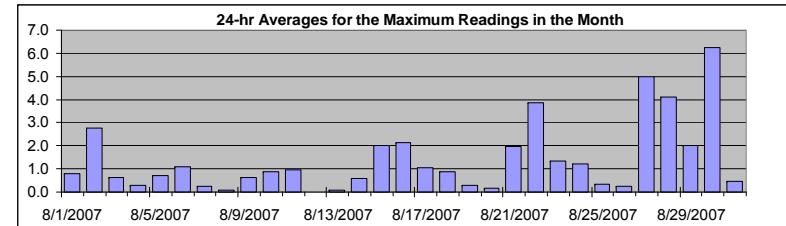
Nitric Oxide (NO)

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

Summary

Maximum 1-hr Value:	50.6	ppb	28-Aug	5:00 6:00
Maximum 24-hr Value:	6.2	ppb	30-Aug	

AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	17.7	6.7	1.0	0.0	0.0	0.0	0.0	1.4 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-Aug-07	0	1	0	0	A	1	6	5	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	5.9
2-Aug-07	0	0	0	0	A	2	4	7	14	4	2	0	6	6	11	9	0	0	0	0	0	0	0	0	2.8	13.8
3-Aug-07	0	0	0	0	A	0	1	1	2	1	2	1	1	3	0	1	1	0	0	0	0	0	0	0	0.6	2.9
4-Aug-07	0	0	0	0	A	0	0	0	0	1	0	1	0	1	0	0	1	1	0	0	0	1	0	1	0.3	1.0
5-Aug-07	0	3	1	1	A	2	2	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	2.9
6-Aug-07	0	0	0	0	A	3	9	6	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1.1	8.8
7-Aug-07	0	0	0	0	A	0	0	0	2	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0.2	2.0
8-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.1	0.9
9-Aug-07	0	0	0	0	A	1	2	2	2	1	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0.6	4.0
10-Aug-07	0	0	0	0	A	2	4	6	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	5.9
11-Aug-07	0	0	0	0	A	2	3	5	6	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1.0	5.9
12-Aug-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
13-Aug-07	0	0	0	0	A	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
14-Aug-07	0	0	0	1	A	1	2	2	2	0	0	0	0	0	0	2	0	1	1	1	0	0	1	0	0.6	2.0
15-Aug-07	0	0	1	1	A	1	5	10	10	4	6	6	1	1	0	0	0	0	0	0	1	0	0	0	2.0	9.8
16-Aug-07	0	0	0	0	A	6	23	11	6	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2.1	22.9
17-Aug-07	0	0	10	0	A	0	0	0	1	1	1	1	1	0	0	0	8	1	0	0	0	0	0	0	1.1	10.4
18-Aug-07	0	0	0	0	A	2	3	1	3	2	2	4	2	1	1	0	0	0	0	0	0	0	0	0	0.9	3.9
19-Aug-07	0	0	0	0	A	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.0
20-Aug-07	0	0	0	0	A	0	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.9
21-Aug-07	0	0	0	0	A	0	1	1	1	2	4	1	2	0	0	0	13	12	6	2	0	1	0	0	2.0	12.8
22-Aug-07	0	0	0	0	A	7	18	20	16	7	2	5	3	3	8	0	0	0	0	0	0	0	0	0	3.8	19.7
23-Aug-07	0	2	0	0	A	0	1	2	11	1	2	1	1	1	1	0	0	0	C	C	C	C	A	1	1.3	10.8
24-Aug-07	0	0	0	1	A	7	4	5	2	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	1.2	7.0
25-Aug-07	0	0	0	2	A	0	1	1	1	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0.4	2.0
26-Aug-07	0	0	0	0	A	0	0	0	0	1	0	1	1	2	0	0	0	0	0	0	0	0	0	1	0.3	2.0
27-Aug-07	0	0	0	0	A	8	11	15	6	4	3	18	1	13	14	16	0	3	0	0	0	2	0	0	5.0	18.1
28-Aug-07	1	0	0	0	A	51	17	5	6	6	6	1	1	0	0	0	0	0	0	0	0	0	0	0	4.1	50.6
29-Aug-07	0	0	0	0	A	6	15	14	3	3	1	1	1	1	0	0	1	0	0	0	0	0	0	0	2.0	15.5
30-Aug-07	0	0	0	0	A	0	17	29	31	47	2	4	4	2	1	1	2	1	1	0	0	0	0	0	6.2	47.4
31-Aug-07	0	0	0	0	A	0	1	3	2	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0.5	3.0
Hourly Avg	0.1	0.2	0.4	0.2	N	3.3	4.9	5.0	4.6	3.4	1.5	1.7	0.9	1.1	1.3	1.0	0.8	0.7	0.4	0.1	0.1	0.1	0.0	0.1		
Hourly Max	1.0	2.7	10.4	2.0	0.0	50.6	22.9	28.9	31.3	47.4	6.0	18.1	5.9	13.1	14.1	16.1	12.8	11.9	5.9	2.4	1.0	2.0	0.0	1.0		

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

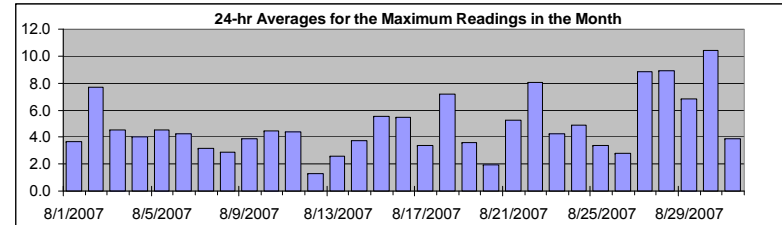
Oxides of Nitrogen (NO_x)

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

Summary

Maximum 1-hr Value:	65.4	ppb	28-Aug	5:00 6:00
Maximum 24-hr Value:	10.4	ppb	30-Aug	

AIC Time:	32 hrs	Operational Time:	708 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	28.0	14.5	5.9	3.0	2.0	1.0	0.9	4.8 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-Aug-07	2	4	2	2	A	6	12	10	9	2	2	1	1	1	1	2	2	2	4	5	4	5	5	3.6	12.0	
2-Aug-07	4	4	4	11	A	15	10	13	12	10	4	2	1	8	21	18	1	1	3	5	8	7	6	10	7.7	20.9
3-Aug-07	5	2	2	3	A	7	9	8	7	7	5	4	3	3	3	6	4	3	3	4	7	4	3	3	4.5	8.9
4-Aug-07	3	4	3	2	A	2	3	3	2	3	2	2	2	2	1	2	7	4	4	4	9	14	9	6	4.0	14.3
5-Aug-07	6	12	4	4	A	5	4	5	5	4	2	2	2	2	3	2	2	2	3	20	5	4	5	4.5	19.9	
6-Aug-07	4	4	5	7	A	9	16	11	6	4	2	2	1	1	1	1	1	2	3	5	5	4	4	4.2	15.9	
7-Aug-07	3	3	4	7	A	2	2	2	2	2	2	1	2	1	3	1	1	1	1	3	13	13	3	2	3.2	13.0
8-Aug-07	7	4	1	1	A	1	2	1	1	1	1	2	1	4	5	3	2	3	3	3	3	3	4	11	2.9	10.9
9-Aug-07	6	4	4	6	A	6	8	5	5	3	17	3	2	2	1	1	2	1	1	2	3	3	3	3	3.9	16.6
10-Aug-07	3	3	11	7	A	10	9	10	7	5	3	1	3	2	1	1	4	4	4	2	2	2	5	5	4.5	10.9
11-Aug-07	5	5	3	8	A	10	10	12	13	10	4	3	2	1	2	1	1	1	2	2	2	2	2	1	4.4	12.9
12-Aug-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3	4	1.3	4.3
13-Aug-07	4	4	4	3	A	4	2	3	2	1	1	2	1	1	1	1	1	1	2	4	5	6	4	4	2.6	6.0
14-Aug-07	4	5	4	6	A	6	7	5	4	1	1	1	2	2	3	2	2	3	3	4	3	4	6	9	3.7	9.0
15-Aug-07	3	3	9	8	A	6	11	17	14	7	11	12	4	2	2	2	2	2	2	2	3	2	2	2	5.5	17.3
16-Aug-07	1	1	2	4	A	17	35	18	12	5	3	2	2	2	4	3	2	2	2	2	2	2	2	2	5.4	34.6
17-Aug-07	2	2	1	1	A	2	3	3	3	3	3	4	3	3	2	5	7	9	4	2	3	3	6	5	3.4	9.0
18-Aug-07	10	15	10	4	A	15	17	10	13	10	10	10	5	4	3	2	2	2	3	3	7	6	3	2	7.2	17.0
19-Aug-07	4	7	10	5	A	5	4	5	6	5	4	3	2	1	1	1	1	1	1	2	5	6	4	2	3.6	9.5
20-Aug-07	1	1	1	1	A	4	7	6	2	1	1	1	1	1	2	1	1	2	2	3	2	2	1	1	1.9	6.9
21-Aug-07	1	2	2	1	A	3	5	4	4	6	8	3	3	2	2	2	20	5	16	10	6	7	4	5	5.2	20.0
22-Aug-07	3	2	2	5	A	17	27	30	26	12	5	3	3	10	16	1	1	3	2	4	5	3	3	3	8.1	30.0
23-Aug-07	4	10	5	4	A	4	3	5	16	3	5	2	2	4	1	1	1	1	C	C	C	C	A	7	4.2	15.9
24-Aug-07	6	4	5	9	A	14	8	10	6	6	5	5	6	4	2	2	2	2	3	3	2	3	2	2	4.9	14.1
25-Aug-07	2	2	3	19	A	3	6	7	4	2	2	1	1	1	1	2	1	2	2	3	5	4	4	1	3.3	18.6
26-Aug-07	1	2	3	3	A	3	3	2	2	2	2	3	1	4	1	2	1	4	2	3	4	3	4	10	2.8	10.1
27-Aug-07	5	4	5	5	A	19	15	22	14	11	9	7	3	15	16	2	1	8	1	13	8	7	8	4	8.8	21.7
28-Aug-07	9	7	8	9	A	65	28	22	10	11	7	3	3	1	1	1	1	1	2	4	4	3	2	2	8.9	65.4
29-Aug-07	3	6	7	4	A	14	23	22	10	8	4	4	3	2	2	2	3	7	6	6	5	8	6	2	6.8	22.6
30-Aug-07	2	3	3	4	A	3	28	39	38	29	5	10	11	8	4	7	8	9	8	8	3	3	3	3	10.4	39.4
31-Aug-07	3	2	2	4	A	6	11	10	9	4	2	2	2	1	1	1	2	2	7	7	3	3	3	3	3.9	11.1
Hourly Avg	3.7	4.2	4.1	5.0	N	9.2	10.6	10.3	8.5	5.8	4.2	3.2	2.5	3.1	3.5	2.5	2.8	2.9	3.2	4.0	5.1	4.6	3.9	4.1		
Hourly Max	9.9	14.6	10.9	18.6	0.0	65.4	34.6	39.4	38.4	29.3	16.6	12.0	11.0	14.7	20.9	17.8	20.0	9.1	16.3	13.1	19.9	14.3	9.0	10.9		

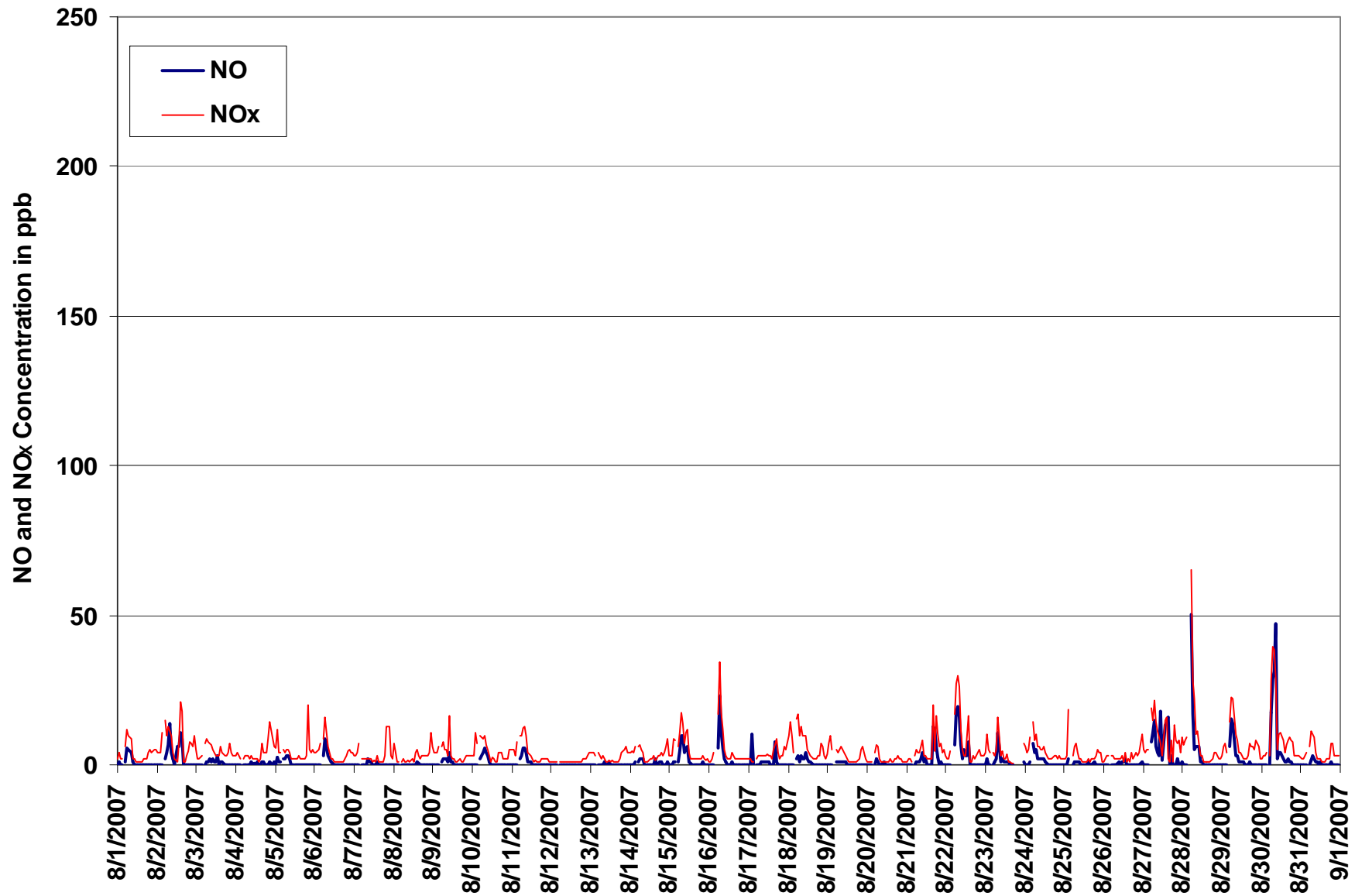


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Beaverlodge Ozone Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

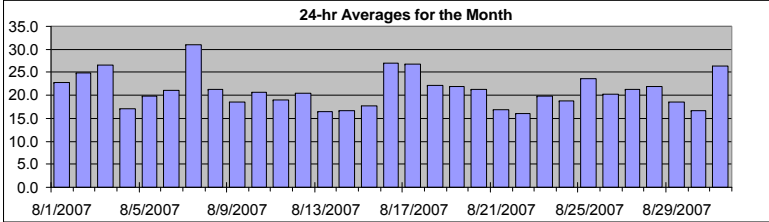
Ozone (O₃)

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

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

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	45.4 ppb	16-Aug	14:00 15:00
Maximum 24-hr Average:	30.9 ppb	7-Aug	

AIC Time:	32 hrs	Operational Time:	710 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	38.5	35.1	27.3	21.4	14.8	6.7	3.3	21.1 ppb	21.4 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	23:00	0:00		
1-Aug-07	13	11	12	11	A	10	9	12	14	17	21	25	30	29	32	34	35	36	37	34	35	25	22	22			22.7	36.8
2-Aug-07	24	25	19	9	A	10	9	11	16	18	26	29	33	35	35	37	37	35	35	36	27	23	23	21			25.0	37.1
3-Aug-07	31	32	31	36	A	22	18	18	20	24	29	29	24	28	32	36	37	35	30	24	17	23	19	17			26.6	36.9
4-Aug-07	16	14	13	14	A	14	14	15	15	16	17	18	20	23	24	27	24	24	19	17	16	11	11	11			17.0	26.7
5-Aug-07	12	7	6	6	A	6	5	7	10	16	20	23	27	29	27	26	26	27	41	35	28	25	26	21			19.8	40.9
6-Aug-07	18	17	12	6	A	4	4	7	12	18	23	26	27	31	32	32	31	31	33	29	25	24	22	21			21.1	32.5
7-Aug-07	21	22	20	22	A	37	33	31	30	31	32	34	35	37	38	37	36	36	35	34	30	27	29	26			30.9	37.6
8-Aug-07	23	20	17	18	A	18	19	21	23	23	26	27	27	26	23	24	24	25	23	22	21	17	14	8			21.3	27.3
9-Aug-07	10	9	8	7	A	7	5	7	13	17	19	21	26	28	29	28	27	29	30	28	22	20	19	19			18.5	29.5
10-Aug-07	20	19	14	13	A	5	4	5	7	11	19	27	31	34	34	34	34	29	27	25	25	24	18	15			20.7	34.4
11-Aug-07	12	16	14	13	A	4	4	6	14	10	16	22	23	26	27	29	30	28	26	25	25	23	21	21			19.0	29.9
12-Aug-07	20	18	20	20	A	21	23	22	23	23	21	20	21	25	27	22	22	24	23	21	16	16	16	10			20.5	27.1
13-Aug-07	11	8	7	8	A	8	10	12	15	19	21	22	23	23	24	24	23	24	23	21	15	14	13	12			16.4	24.2
14-Aug-07	9	7	5	3	A	4	8	10	14	20	22	23	24	26	26	26	24	23	23	21	18	16	15	16			16.7	26.1
15-Aug-07	13	16	8	5	A	5	8	8	7	9	10	18	26	30	31	31	30	29	26	21	19	21	20	20			17.8	31.1
16-Aug-07	21	22	22	19	A	17	7	15	14	17	24	32	36	39	45	44	44	38	32	29	27	25	25	27			27.0	45.4
17-Aug-07	27	26	24	23	A	22	20	19	20	21	24	26	30	32	35	39	31	26	31	35	30	31	23	25			26.8	38.5
18-Aug-07	28	18	15	15	A	12	6	13	7	8	10	13	21	24	31	38	41	40	35	33	30	21	23	28			22.1	41.2
19-Aug-07	25	22	14	13	A	7	8	11	19	21	25	28	29	32	33	33	31	28	26	24	20	18	16	18			21.9	33.2
20-Aug-07	17	17	18	18	A	13	13	17	21	25	26	26	26	26	25	26	26	23	19	20	21	21	22	22			21.3	26.5
21-Aug-07	21	20	19	18	A	15	13	14	15	15	14	15	18	20	22	22	22	20	18	15	15	12	13	12			16.9	22.3
22-Aug-07	11	11	11	9	A	3	3	5	3	10	16	19	21	24	25	25	26	26	27	24	19	18	18	16			16.1	26.7
23-Aug-07	13	8	10	14	A	9	10	10	17	21	23	26	27	28	29	31	31	29	28	26	20	21	11	12			19.7	31.2
24-Aug-07	11	16	16	17	A	6	4	7	12	C	C	A	22	28	28	27	25	21	20	21	22	20	24	30			18.8	29.8
25-Aug-07	28	28	26	19	A	12	15	15	14	24	24	25	31	32	31	32	32	32	30	27	21	18	15	14			23.6	32.3
26-Aug-07	14	16	16	17	A	18	18	15	19	19	18	18	22	24	28	30	29	23	26	22	20	20	22	11			20.2	30.3
27-Aug-07	15	10	12	9	A	10	8	5	10	12	16	21	26	30	30	34	36	37	37	30	27	25	29	22			21.4	37.3
28-Aug-07	15	15	9	10	A	8	5	10	10	15	19	25	31	33	33	32	33	33	34	29	27	28	27	27			22.0	33.6
29-Aug-07	24	20	12	13	A	2	2	7	13	14	15	19	23	28	29	29	28	26	25	23	21	17	19	19			18.6	29.1
30-Aug-07	17	13	12	9	A	10	2	4	2	6	14	14	15	17	18	18	18	16	19	29	38	36	30	27			16.7	38.3
31-Aug-07	28	31	33	30	A	23	19	15	21	26	30	32	32	33	34	34	32	30	25	21	22	20	19	15			26.3	34.4
Hourly Avg	18.4	17.2	15.3	14.3	N	11.6	10.5	12.1	14.5	17.6	20.7	23.4	26.0	28.3	29.5	30.4	29.9	28.5	27.8	25.8	23.1	21.2	20.1	18.8				
Hourly Max	30.6	32.1	32.9	36.1	0.0	36.9	33.1	30.7	29.6	30.8	32.4	33.9	35.6	39.3	45.4	44.2	44.3	40.4	40.9	35.9	38.3	36.0	30.1	29.8				

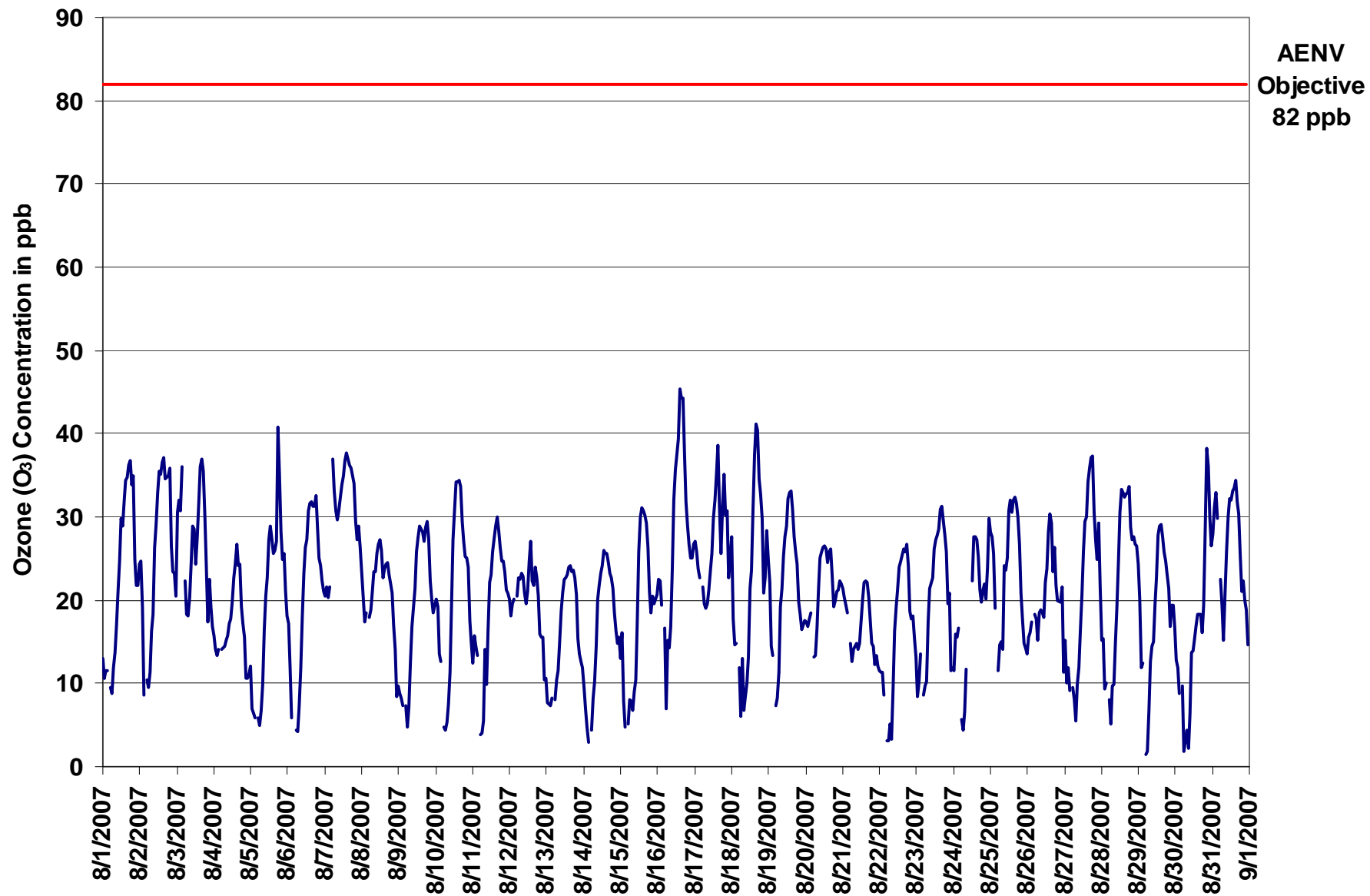


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

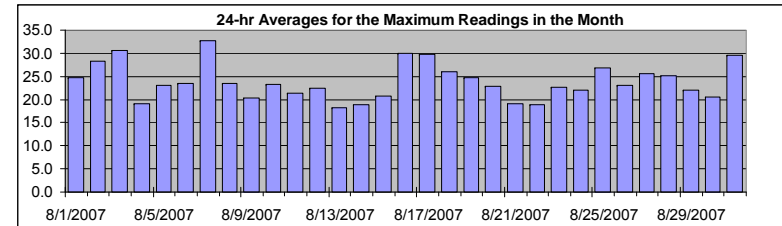
Ozone (O₃)

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

Summary

Maximum 1-hr Value:	47.7	ppb	16-Aug	14:00 15:00
Maximum 24-hr Value:	32.7	ppb	7-Aug	

AIC Time:	32 hrs	Operational Time:	710 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	43.6	37.4	29.8	24.1	18.0	9.2	5.9	23.9 ppb	24.1 ppb



Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Aug-07	14	13	12	12	A	12	11	14	15	19	24	28	32	30	33	36	35	37	38	37	38	30	23	24	24.8	38.3
2-Aug-07	25	26	23	23	A	14	12	15	18	22	30	31	36	37	37	38	38	37	39	40	34	27	25	24	28.3	40.5
3-Aug-07	38	34	36	44	A	29	21	23	24	26	32	34	27	30	35	40	39	39	34	29	21	25	22	19	30.5	44.1
4-Aug-07	17	15	14	15	A	15	15	15	17	17	18	19	22	25	26	30	28	28	22	19	19	14	14	15	19.2	29.5
5-Aug-07	16	9	8	7	A	8	7	8	14	20	22	26	29	31	32	29	28	35	43	42	31	28	30	27	23.1	43.4
6-Aug-07	20	19	16	9	A	5	6	10	15	22	26	28	28	33	33	33	33	34	34	32	27	27	25	22	23.4	33.8
7-Aug-07	22	22	22	26	A	39	35	32	31	32	34	35	37	38	39	39	37	38	36	36	32	30	31	28	32.7	39.4
8-Aug-07	25	23	19	19	A	19	19	24	25	25	27	29	29	27	26	26	28	27	25	25	24	20	16	11	23.4	29.3
9-Aug-07	11	10	9	9	A	9	8	9	16	19	21	25	28	29	30	30	29	30	31	31	25	21	20	20	20.4	30.7
10-Aug-07	21	21	18	15	A	8	6	7	9	15	25	30	33	36	35	36	36	33	33	28	26	26	24	17	23.3	35.7
11-Aug-07	17	17	17	15	A	6	6	10	18	13	20	25	26	27	29	31	32	30	29	27	27	26	24	22	21.5	31.6
12-Aug-07	22	19	21	21	A	22	23	23	24	24	23	21	23	30	31	25	25	25	24	23	18	17	17	17	22.5	31.1
13-Aug-07	15	11	9	10	A	10	12	14	18	21	22	25	24	25	25	25	24	25	24	24	18	15	13	13	18.3	25.1
14-Aug-07	11	8	5	4	A	8	11	14	19	21	24	25	26	28	26	27	26	24	24	24	21	20	18	21	18.9	27.6
15-Aug-07	19	19	18	9	A	7	10	13	10	11	13	24	29	32	33	33	31	31	28	25	20	22	21	21	20.8	33.2
16-Aug-07	22	25	26	22	A	21	19	20	17	19	30	35	37	44	48	47	46	42	35	31	29	26	26	28	30.0	47.7
17-Aug-07	29	27	26	25	A	22	21	21	21	23	25	27	32	34	37	43	44	29	40	38	34	33	29	29	29.9	43.7
18-Aug-07	30	26	18	18	A	15	13	16	11	11	13	20	25	26	35	41	44	44	39	35	32	27	27	32	26.0	43.7
19-Aug-07	28	27	23	18	A	9	12	17	22	24	28	31	31	37	35	35	33	30	27	26	22	22	18	19	24.8	36.7
20-Aug-07	18	18	20	20	A	16	15	20	25	26	27	27	27	27	26	27	28	26	21	21	23	22	24	23	22.9	28.1
21-Aug-07	23	21	20	19	A	16	15	15	15	16	15	16	20	22	23	24	24	22	26	18	18	18	15	16	19.0	26.1
22-Aug-07	13	12	12	12	A	7	7	8	5	16	21	21	23	25	26	28	27	27	30	30	24	20	21	18	18.9	30.4
23-Aug-07	16	15	14	15	A	10	10	12	21	23	24	28	30	31	33	32	32	32	30	29	26	25	15	15	22.5	32.6
24-Aug-07	14	22	19	20	A	13	7	9	15	C	C	A	26	30	30	29	28	24	22	23	25	23	27	36	22.1	35.9
25-Aug-07	30	30	30	29	A	16	18	20	19	28	26	29	34	34	32	34	34	33	32	30	27	21	16	15	26.8	33.6
26-Aug-07	14	17	18	18	A	20	19	19	20	20	19	22	24	27	30	33	32	29	28	27	22	22	24	25	23.0	32.7
27-Aug-07	18	17	18	13	A	14	13	11	13	16	19	26	28	32	34	36	38	40	39	36	32	31	33	33	25.6	39.6
28-Aug-07	23	18	14	14	A	14	11	13	14	18	26	30	34	34	34	34	34	34	36	32	29	29	28	28	25.2	35.7
29-Aug-07	26	25	20	19	A	6	6	12	16	16	17	23	26	30	31	31	31	29	27	28	24	23	21	20	22.1	31.3
30-Aug-07	18	15	13	11	A	11	9	9	7	12	15	15	18	19	20	20	21	21	33	34	43	43	34	31	20.6	43.2
31-Aug-07	30	35	36	33	A	28	26	21	28	28	33	34	33	34	35	36	34	32	30	25	23	24	22	18	29.6	36.2
Hourly Avg	20.8	19.9	18.5	17.5	N	14.5	13.7	15.3	17.5	20.1	23.3	26.3	28.3	30.3	31.6	32.5	32.2	31.2	30.8	29.2	26.2	24.5	22.7	22.2		
Hourly Max	37.6	35.0	36.4	44.1	0.0	38.8	35.4	32.3	30.7	32.0	33.7	35.1	37.3	43.7	47.7	46.7	45.7	43.7	43.4	41.8	43.2	42.6	34.5	35.9		

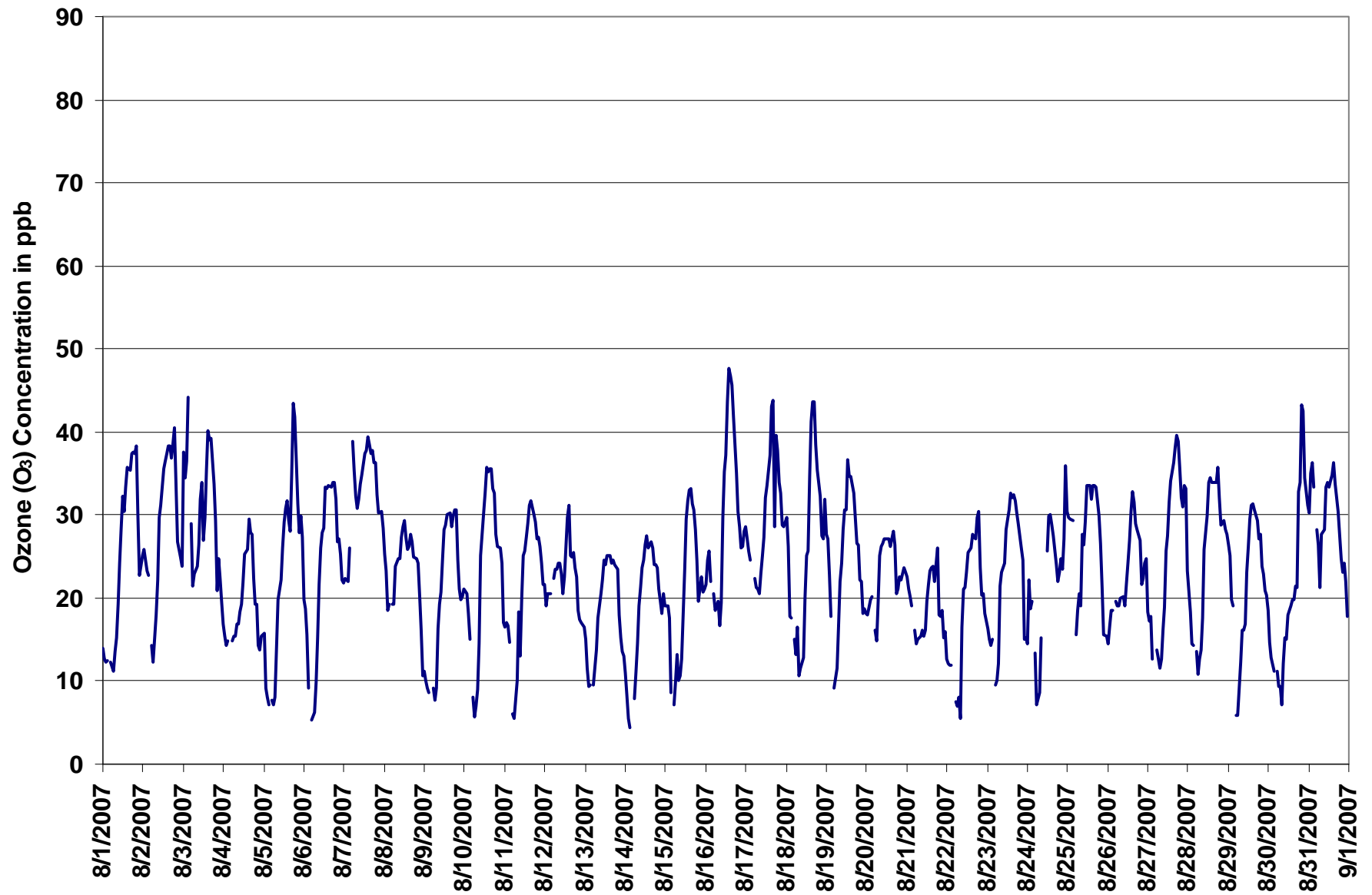
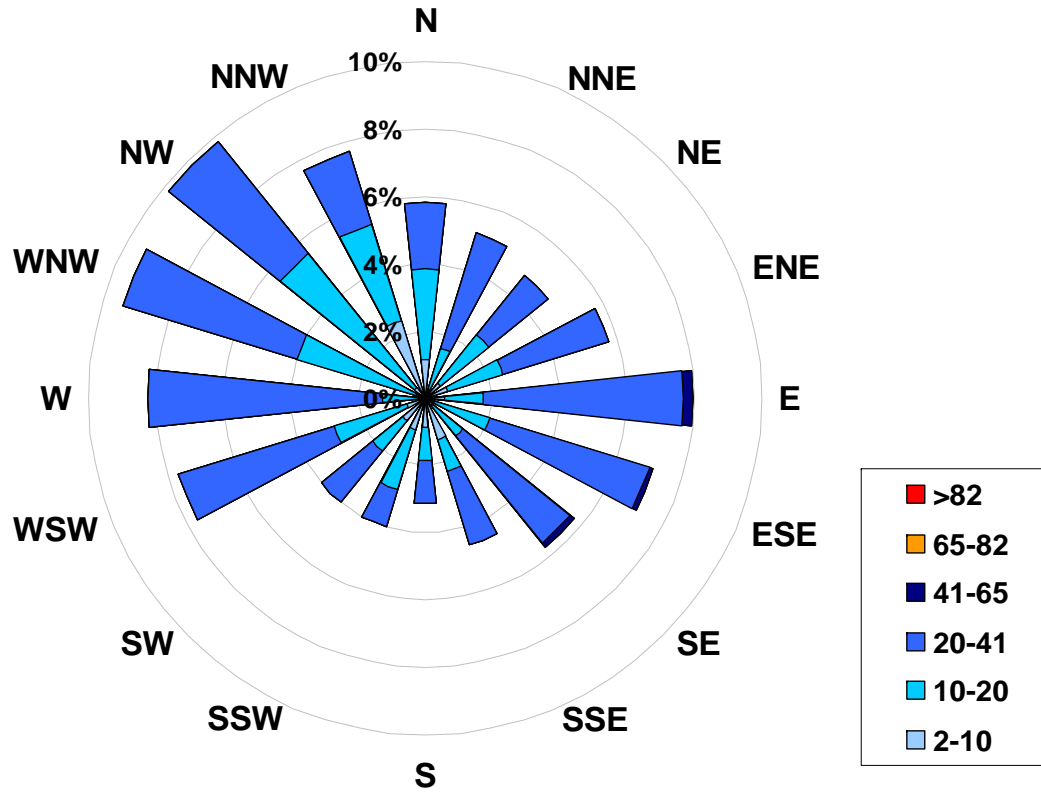


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			Frequency (hrs)
Range			
2.0	<	10	85
10	to	20	223
20	to	41	398
41	to	65	4
65	to	82	0
	>	82	0
Total Non-Zero Values			710

PASZA - Beaverlodge Ozone Eight Hour Average Summary

Station: Beaverlodge
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

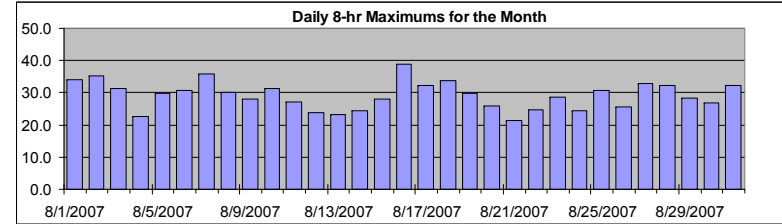
Ozone (O₃)

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

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

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	38.8 ppb 16-Aug 18:00 19:00

Percentile	99	95	75	50	25	5	1
	35.5	32.2	25.8	21.3	15.4	9.2	7.0



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																								Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	
1-Aug-07	16	15	15	14	13	12	11	11	11	12	13	15	17	19	22	25	28	30	32	33	34	33	32	31	33.9
2-Aug-07	29	28	26	23	21	19	17	15	14	13	14	17	19	22	26	29	31	33	34	35	35	33	32	30	35.3
3-Aug-07	29	28	28	28	28	28	27	27	25	24	24	23	23	24	25	28	30	31	31	31	30	29	28	25	31.3
4-Aug-07	23	20	18	17	17	15	15	14	14	14	15	16	16	17	18	20	21	22	22	22	22	20	19	17	22.6
5-Aug-07	15	13	11	10	9	8	8	7	7	8	10	12	14	17	20	22	24	26	28	30	30	29	29	29	29.9
6-Aug-07	28	26	23	19	18	15	12	10	9	9	11	14	15	19	22	25	27	29	30	31	30	30	28	27	30.6
7-Aug-07	26	25	23	22	22	23	25	26	28	29	31	32	33	33	33	34	35	36	36	36	35	34	33	32	35.9
8-Aug-07	30	28	26	24	23	22	20	20	20	21	22	23	24	25	25	25	25	25	24	23	22	21	19	30.1	
9-Aug-07	17	15	14	12	10	9	8	8	8	9	11	13	14	17	20	23	24	26	27	28	27	27	25	24	27.9
10-Aug-07	23	22	20	18	18	15	13	11	10	8	9	11	14	18	21	25	28	30	31	31	30	29	27	25	31.4
11-Aug-07	22	20	19	17	16	13	11	10	10	9	10	11	12	15	18	21	23	25	26	27	27	26	25	27.0	
12-Aug-07	24	22	22	21	20	20	20	21	21	22	22	22	22	22	23	23	23	23	23	23	22	21	20	18	23.7
13-Aug-07	17	15	13	11	11	10	9	9	10	11	13	15	16	18	20	21	22	23	23	23	22	21	19	18	23.2
14-Aug-07	16	14	12	10	9	8	7	7	7	9	12	15	16	19	21	23	24	24	24	24	23	22	21	20	24.4
15-Aug-07	18	17	15	13	13	11	10	9	8	7	7	9	11	14	17	20	23	26	28	28	27	26	25	23	28.0
16-Aug-07	22	21	21	20	21	20	18	18	17	16	16	18	20	23	28	31	35	38	39	38	37	36	33	31	38.8
17-Aug-07	29	27	26	25	25	25	24	23	22	21	21	21	23	24	26	28	30	30	31	32	32	32	31	29	32.4
18-Aug-07	29	28	25	23	22	19	17	15	12	11	10	10	11	13	16	19	23	27	30	33	34	33	32	31	33.8
19-Aug-07	29	27	24	22	21	19	17	15	14	14	15	17	19	22	25	28	29	30	30	30	28	27	25	23	29.9
20-Aug-07	21	20	19	18	18	17	16	16	17	18	19	20	21	23	24	25	26	26	25	24	23	23	22	22	25.8
21-Aug-07	21	21	21	21	21	20	18	17	16	15	15	14	15	15	16	18	18	19	20	20	19	18	17	16	21.3
22-Aug-07	15	13	13	12	12	10	9	8	7	6	7	9	10	13	15	18	21	23	24	25	24	24	23	22	24.8
23-Aug-07	20	18	16	14	14	13	11	11	11	13	15	17	18	20	23	25	27	28	29	29	28	27	25	22	28.6
24-Aug-07	20	18	17	15	15	13	12	11	11	N	N	N	N	N	N	N	N	N	N	24	24	24	23	23	24.5
25-Aug-07	23	24	25	25	25	24	22	20	18	18	17	18	20	22	24	27	29	30	31	31	29	28	26	24	30.7
26-Aug-07	21	19	17	16	16	16	16	16	17	17	18	18	18	19	20	22	24	24	25	26	25	25	24	22	25.7
27-Aug-07	20	18	16	15	14	13	11	10	9	9	10	12	13	16	19	22	26	29	31	33	33	32	32	30	32.7
28-Aug-07	28	25	22	19	18	16	12	10	10	10	11	13	15	18	22	25	28	30	32	32	32	31	30	30	32.2
29-Aug-07	28	27	24	22	21	18	14	11	10	9	9	10	12	15	18	21	23	25	26	26	26	25	23	22	28.4
30-Aug-07	21	19	18	16	15	14	12	9	7	6	7	7	8	9	11	13	15	16	17	19	22	24	26	27	26.7
31-Aug-07	28	30	31	32	31	29	27	26	25	24	23	24	25	26	28	30	32	32	32	30	29	27	25	23	32.2

Hourly Max 30.1 29.8 31.5 31.6 30.6 28.7 27.2 26.9 27.7 29.0 30.7 32.5 32.8 32.8 33.4 34.1 35.2 37.8 38.8 38.4 37.3 35.5 33.0 31.6

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

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

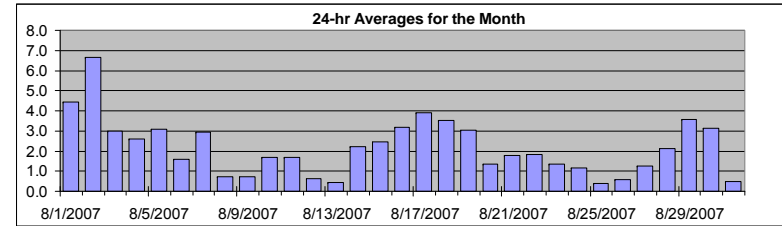
Particulate Matter (PM_{2.5})

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

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

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	24.8 µg/m ³ 1-Aug 20:00 21:00
Maximum 24-hr Value:	6.7 µg/m ³ 2-Aug

AIC Time:	0 hrs	Operational Time:	711 hrs
Calibration Time:	4 hrs	AMD Operational Uptime:	96.1%
Percentile	99	95	75
	11.9	7.1	3.3
	50	25	5
	1.4	0.0	0.0
	1	0.0	0.0
	Average / Median		Geomean
	2.2		1.7 µg/m ³



Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00		
1-Aug-07	1	0	0	0	0	1	5	4	6	4	0	0	2	2	11	13	4	5	2	8	25	8	3	3	4.5	24.8
2-Aug-07	3	4	4	7	7	5	9	8	9	10	4	D	4	2	3	9	2	1	3	18	20	6	5	11	6.7	20.0
3-Aug-07	0	D	12	D	3	4	5	3	1	2	5	5	4	4	0	0	0	2	2	7	1	1	2	3	3.0	12.0
4-Aug-07	2	2	2	3	3	2	3	2	3	5	3	7	5	2	3	D	3	7	1	0	1	0	0	0	2.6	7.3
5-Aug-07	2	D	0	0	0	1	6	14	D	4	4	4	3	5	D	5	1	0	D	9	2	0	1	0	3.1	13.6
6-Aug-07	0	0	0	0	D	0	10	D	1	1	2	0	0	D	0	0	2	0	2	6	2	2	3	3	1.6	9.7
7-Aug-07	4	3	3	5	D	0	3	2	2	0	1	0	0	2	1	1	2	1	6	4	5	5	13	4	2.9	13.5
8-Aug-07	3	2	0	0	0	0	1	0	0	2	D	0	0	3	3	0	1	0	1	0	0	1	0	0	0.7	3.3
9-Aug-07	0	0	0	0	0	0	0	0	0	0	0	D	D	0	0	2	0	0	0	4	1	3	3	2	0.7	3.6
10-Aug-07	0	0	0	2	2	1	0	1	3	1	0	0	0	1	1	1	1	9	7	7	1	0	2	0	1.7	8.8
11-Aug-07	0	1	0	0	1	3	3	5	3	4	1	0	2	0	0	1	1	3	4	2	3	0	2	0	1.7	4.7
12-Aug-07	0	0	0	0	0	0	0	0	0	0	0	2	1	0	D	1	3	0	0	0	3	2	0	0	0.6	3.6
13-Aug-07	0	0	0	0	0	0	1	1	0	0	D	D	1	D	1	0	0	0	0	1	2	1	0	0	0.4	1.6
14-Aug-07	0	0	0	D	0	0	5	2	1	0	0	0	D	D	3	2	2	4	5	9	5	6	3	0	2.2	8.5
15-Aug-07	2	0	3	2	0	2	2	6	2	10	5	2	1	0	5	0	1	3	5	5	0	D	1	0	2.5	10.1
16-Aug-07	0	0	0	1	0	1	4	4	5	5	5	7	8	5	5	3	4	6	7	2	0	0	3	3	3.2	8.1
17-Aug-07	2	1	2	2	2	2	4	4	3	4	5	7	4	8	2	7	15	12	D	0	0	2	2	0	3.9	15.2
18-Aug-07	1	0	0	0	1	0	1	1	1	3	4	2	6	5	4	7	6	5	8	6	8	7	6	3	3.5	8.2
19-Aug-07	5	4	7	7	3	5	6	4	7	5	0	0	1	D	0	0	0	3	0	3	2	3	2	2	3.0	6.8
20-Aug-07	1	1	0	1	0	1	0	1	0	0	0	0	1	1	2	0	1	10	5	2	0	1	1	3	1.3	10.4
21-Aug-07	1	0	2	2	2	2	1	1	4	4	2	3	1	0	0	1	2	2	6	3	1	2	0	1	1.8	5.9
22-Aug-07	0	2	4	3	2	1	4	3	5	3	0	0	0	D	0	1	1	3	0	3	4	2	0	0	1.8	5.2
23-Aug-07	3	2	0	0	0	1	1	5	3	2	1	0	0	3	D	0	0	0	4	1	3	0	2	1	1.3	4.8
24-Aug-07	0	1	0	2	D	0	3	C	C	C	C	0	4	3	0	1	1	0	1	2	0	1	3	0	1.1	3.9
25-Aug-07	0	0	0	0	0	0	1	2	0	0	0	0	D	0	0	0	0	0	1	1	1	2	1	0	0.4	2.1
26-Aug-07	0	0	0	0	0	0	0	0	0	0	1	2	1	1	1	1	1	1	0	1	2	1	1	1	0.6	1.9
27-Aug-07	1	0	0	1	1	0	1	4	1	2	1	1	1	0	0	1	1	0	1	2	4	4	2	2	1.2	4.3
28-Aug-07	2	2	2	2	2	2	3	3	2	2	2	1	0	0	0	0	0	0	3	3	7	8	3	3	2.1	7.5
29-Aug-07	3	4	4	3	4	4	4	5	4	3	3	4	3	1	3	3	6	6	4	3	3	4	3	1	3.6	6.1
30-Aug-07	2	2	2	2	3	2	3	4	4	4	4	4	5	5	5	5	5	9	5	0	0	0	0	0	3.1	9.1
31-Aug-07	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	2	1	1	1	1	2	0.5	2.4
Hourly Avg	1.1	1.1	1.6	1.5	1.3	1.3	2.8	3.0	2.5	2.7	1.9	1.8	2.0	2.1	1.9	2.2	2.1	3.0	3.0	3.7	3.4	2.3	2.2	1.6		
Hourly Max	4.7	4.0	12.0	7.1	6.5	5.3	9.7	13.6	8.8	10.1	5.0	7.3	8.1	7.7	10.8	12.8	15.2	11.7	8.1	17.9	24.8	8.2	13.5	11.3		

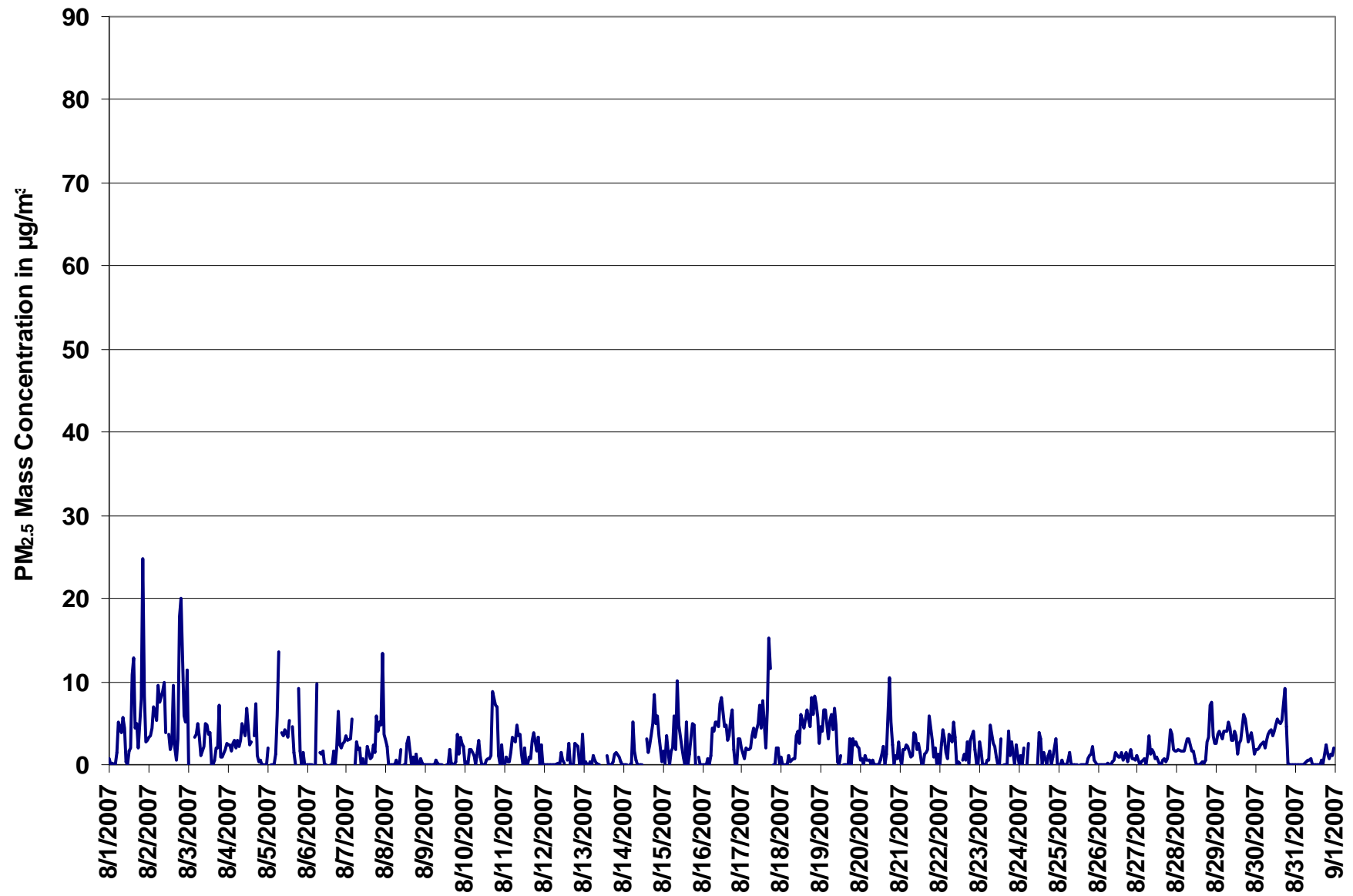


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge
 Station Owner: PASZA

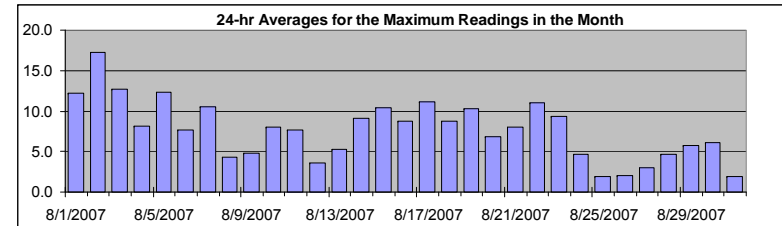
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

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

Summary

Maximum 1-hr Average:	57.2	µg/m ³	2-Aug	19:00 20:00
Maximum 24-hr Value:	17.3	µg/m ³	2-Aug	



AIC Time:	0 hrs	Operational Time:	710 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	96.0%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	33.0	18.5	9.8	5.9	3.3	1.2	0.2	7.7	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-Aug-07	2	3	4	5	5	6	9	9	10	8	6	6	9	9	19	23	11	25	24	24	47	16	5	7	12.2	47.1
2-Aug-07	5	7	10	12	16	13	17	15	17	19	15	D	14	10	10	31	14	9	17	57	49	8	10	22	17.3	57.2
3-Aug-07	16	D	45	D	18	7	8	14	11	10	18	14	12	19	8	27	8	10	7	11	6	3	3	5	12.7	45.2
4-Aug-07	5	3	3	4	5	4	5	3	6	9	8	14	14	9	16	D	17	24	12	7	3	5	3	8	8.2	24.0
5-Aug-07	9	D	D	5	5	5	20	40	D	17	11	16	16	18	D	15	11	12	D	17	6	2	4	3	12.3	40.4
6-Aug-07	3	2	2	2	D	6	16	D	7	9	12	14	9	D	7	8	11	8	7	13	6	8	6	6	7.7	16.4
7-Aug-07	7	5	7	11	D	4	5	4	8	13	12	6	12	12	16	8	12	8	31	8	9	11	24	6	10.5	31.4
8-Aug-07	4	6	0	1	1	3	3	1	3	6	D	3	3	10	8	7	8	5	8	5	5	4	3	2	4.3	9.5
9-Aug-07	1	3	2	0	1	1	3	2	7	6	5	D	D	7	4	14	10	5	4	12	7	5	4	4	4.8	14.2
10-Aug-07	2	2	3	4	6	4	3	4	8	6	8	5	2	8	7	8	9	39	34	16	6	2	4	4	8.0	39.3
11-Aug-07	5	3	4	4	5	6	6	9	9	8	8	7	10	7	7	9	12	16	8	16	10	5	7	2	7.7	16.0
12-Aug-07	4	2	1	1	1	0	1	1	3	1	6	4	3	D	9	6	6	4	5	6	4	3	2	10	3.6	10.0
13-Aug-07	5	5	3	2	8	2	5	3	3	6	D	D	10	D	5	10	7	6	8	12	6	2	2	2	5.3	12.2
14-Aug-07	0	2	1	D	2	8	15	16	8	5	7	6	D	D	8	10	9	15	11	30	9	13	9	8	9.1	29.9
15-Aug-07	5	3	11	10	7	8	11	9	8	19	16	10	14	13	33	7	11	11	12	10	7	D	6	0	10.4	32.8
16-Aug-07	0	0	4	5	1	5	18	12	10	10	11	11	15	13	14	12	16	15	12	6	3	3	6	7	8.8	18.0
17-Aug-07	6	5	8	9	4	4	6	8	11	16	12	14	15	18	16	22	30	21	D	10	5	5	9	4	11.1	29.7
18-Aug-07	3	6	2	4	5	6	6	6	5	11	10	6	11	9	12	14	11	14	13	12	16	16	9	5	8.8	16.1
19-Aug-07	7	8	13	13	5	7	8	7	16	25	15	11	25	D	11	11	8	14	6	7	6	6	4	4	10.3	25.3
20-Aug-07	2	3	2	3	3	5	3	4	7	6	7	5	13	6	13	3	7	22	16	9	4	4	4	11	6.8	21.8
21-Aug-07	4	4	4	4	5	5	4	3	8	9	7	8	9	8	6	9	12	11	15	15	13	17	6	7	8.0	16.8
22-Aug-07	6	4	5	5	4	4	10	7	9	8	8	11	11	D	13	13	22	26	12	32	14	18	9	2	11.1	31.6
23-Aug-07	6	5	3	1	5	5	4	9	8	11	11	8	8	27	D	10	7	10	33	16	11	4	12	2	9.3	33.0
24-Aug-07	3	6	9	5	D	8	5	C	C	C	C	2	6	6	4	4	2	2	9	5	1	4	5	4	4.7	9.4
25-Aug-07	2	2	2	3	1	1	3	5	2	0	1	0	D	0	0	2	1	1	3	2	3	5	2	1	1.9	4.9
26-Aug-07	1	2	2	2	1	2	1	1	1	2	1	3	3	2	3	2	2	4	2	3	4	2	2	2	2.1	3.9
27-Aug-07	3	2	3	3	2	1	4	7	3	3	3	2	2	1	1	2	3	2	2	4	7	6	4	4	3.0	7.2
28-Aug-07	4	3	3	4	4	4	5	7	4	3	3	2	2	2	1	4	3	2	6	5	17	17	5	5	4.6	16.8
29-Aug-07	4	5	6	5	6	6	6	7	7	6	4	8	7	5	5	5	8	7	6	4	6	6	6	3	5.7	8.1
30-Aug-07	3	3	5	4	5	3	5	7	6	7	5	6	7	7	7	7	9	14	17	9	3	2	1	0	6.1	17.2
31-Aug-07	0	0	1	1	2	2	2	2	3	3	2	1	1	1	1	2	2	2	4	3	3	3	3	3	1.9	3.9
Hourly Avg	4.1	3.5	5.7	4.5	4.8	4.7	7.0	7.7	7.2	8.7	8.3	7.3	9.5	9.0	9.1	10.2	9.6	11.8	11.9	12.5	9.4	6.9	5.7	4.9		
Hourly Max	16.0	7.6	45.2	13.0	18.3	12.8	19.8	40.4	16.6	25.3	18.5	16.1	24.9	27.2	32.8	31.3	29.7	39.3	33.9	57.2	49.0	18.5	24.5	22.0		

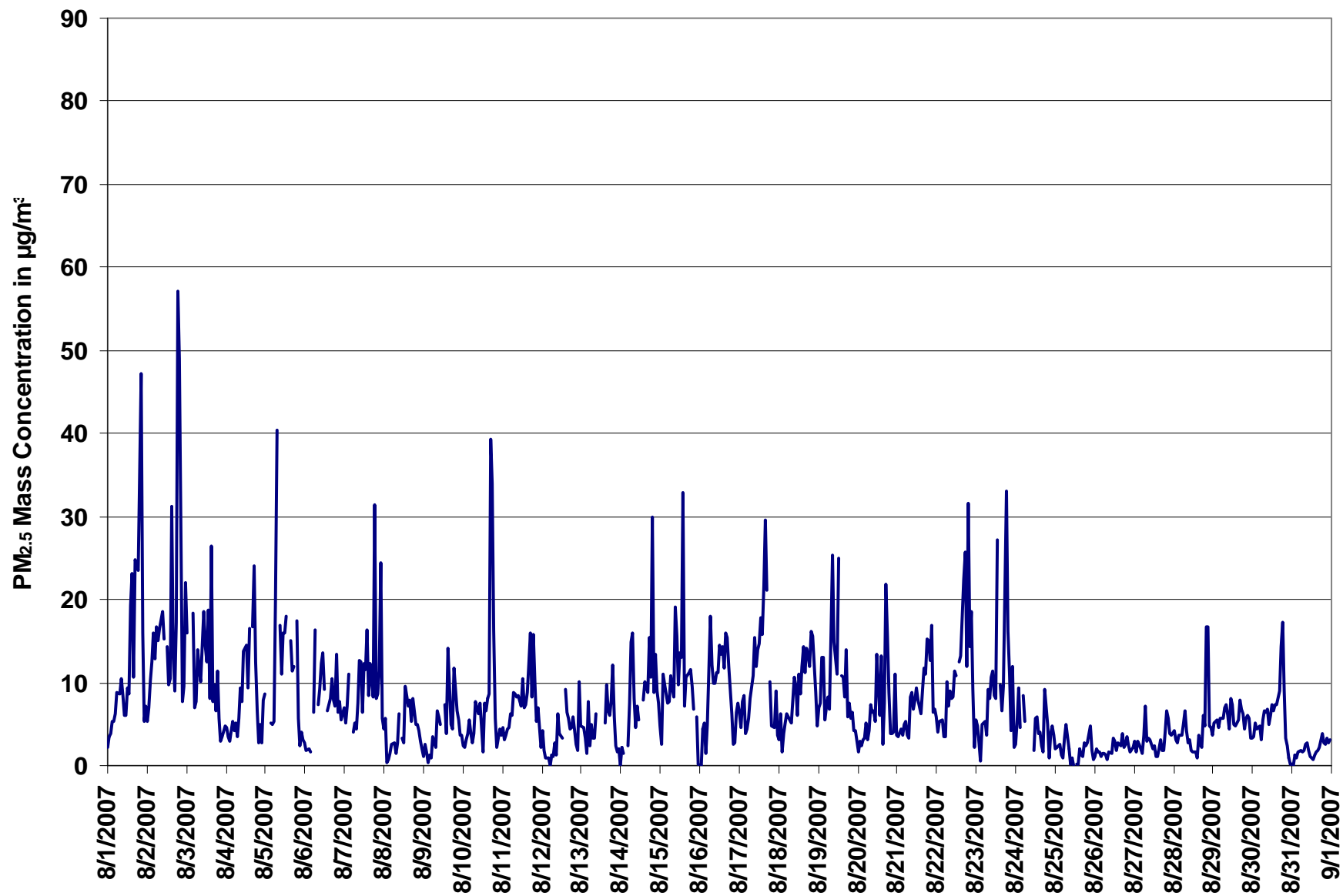
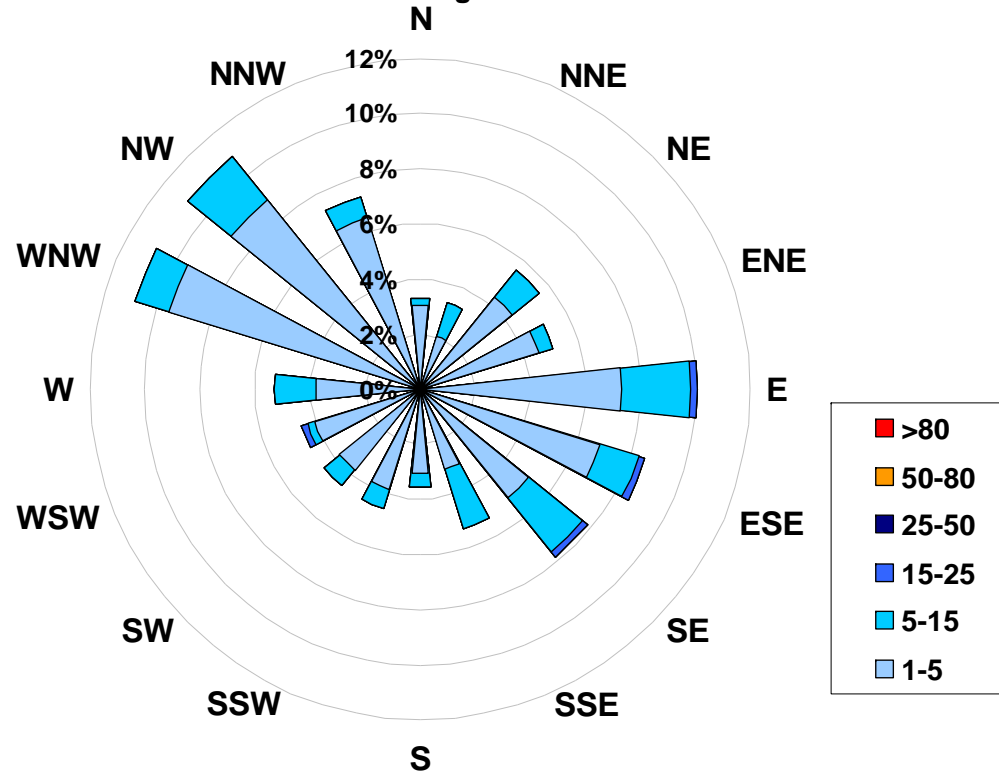


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of PM _{2.5} in µg/m ³			
Range			Frequency (hrs)
1.0	<	5	628
5	to	15	79
15	to	25	4
25	to	50	0
50	to	80	0
	>	80	0
Total Non-Zero Values			711

PASZA - Beaverlodge Relative Humidity Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

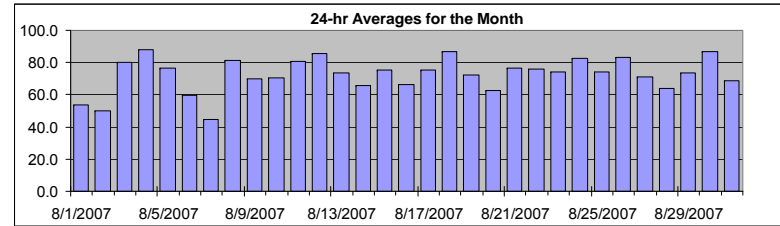
HOURLY AVERAGE TABLE

Relative Humidity (RH)

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

Summary

Maximum 1-hr Average:	96.6 %	19-Aug	7:00 8:00
Maximum 24-hr Value:	87.7 %	4-Aug	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	96.2	94.8	88.3	78.1	59.6	34.8	28.7	72.5 %	78.1 %

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Aug-07	77	82	82	83	84	79	70	65	58	49	40	34	31	30	30	30	32	36	35	39	51	58	59	59	53.9	83.5
2-Aug-07	54	57	68	83	84	85	76	64	52	51	36	28	25	25	25	32	31	29	29	36	49	58	59	67	50.1	85.5
3-Aug-07	79	77	80	86	80	93	92	88	83	73	65	70	76	70	64	69	72	74	80	91	93	91	92	93	80.3	93.3
4-Aug-07	91	92	92	94	95	94	94	94	91	88	88	88	83	74	69	77	82	78	85	87	89	93	94	95	87.7	94.9
5-Aug-07	94	95	96	96	96	96	95	88	80	73	69	66	59	61	62	65	60	57	45	60	76	83	82	85	76.6	96.4
6-Aug-07	90	93	95	96	96	96	91	82	74	63	55	46	36	30	29	28	30	30	30	35	45	51	55	58	59.6	96.1
7-Aug-07	63	64	65	61	51	40	45	48	48	42	36	34	32	29	28	29	29	29	30	32	43	50	65	77	44.6	76.9
8-Aug-07	80	82	81	80	82	82	82	80	81	84	75	69	66	76	91	83	77	77	82	82	87	90	91	92	81.4	91.6
9-Aug-07	91	92	92	92	91	91	92	88	81	72	65	59	49	45	42	43	49	45	46	51	65	74	79	79	69.7	91.9
10-Aug-07	78	80	87	89	88	89	87	81	72	61	53	45	38	34	33	34	38	64	83	87	90	90	94	94	70.4	94.4
11-Aug-07	94	93	91	90	92	94	94	92	88	90	79	70	69	63	64	64	64	67	70	74	81	85	85	85	80.8	94.5
12-Aug-07	85	87	89	88	88	89	89	90	90	89	90	89	88	84	76	80	80	76	77	82	87	85	83	90	85.4	90.2
13-Aug-07	88	90	90	88	88	88	88	88	83	73	66	60	60	54	51	49	55	52	57	59	74	84	87	90	73.4	90.0
14-Aug-07	93	95	96	96	96	95	86	81	72	56	48	42	39	35	36	35	38	41	42	51	71	78	83	79	66.0	95.8
15-Aug-07	86	83	89	92	91	95	86	88	87	84	84	72	62	54	53	49	51	56	63	70	78	77	79	77	75.3	94.5
16-Aug-07	76	71	72	78	82	84	80	68	68	63	63	62	60	57	54	51	49	52	57	63	66	69	71	72	66.1	83.8
17-Aug-07	70	70	77	81	79	79	82	82	71	67	67	66	64	64	61	60	80	89	78	73	81	82	90	89	75.0	89.5
18-Aug-07	88	91	94	94	94	92	93	92	93	92	92	88	83	85	80	73	71	72	77	79	84	89	91	90	86.5	94.4
19-Aug-07	93	93	95	95	95	96	96	97	96	88	74	62	57	50	43	40	41	45	46	53	64	69	75	77	72.5	96.6
20-Aug-07	78	79	75	75	78	81	76	67	58	46	42	40	40	43	46	41	42	58	72	72	69	70	72	79	62.4	81.4
21-Aug-07	79	77	76	81	87	91	89	84	81	78	76	74	71	66	61	60	58	60	78	83	81	85	82	82	76.7	91.4
22-Aug-07	84	83	85	87	90	93	92	89	86	79	70	65	61	53	53	50	50	58	72	80	86	85	83	88	75.9	92.7
23-Aug-07	89	91	91	88	93	94	90	83	78	72	63	56	57	53	52	41	41	48	68	78	84	82	91	92	73.8	93.7
24-Aug-07	93	95	95	95	95	96	96	96	96	95	83	70	67	62	58	57	61	67	71	77	85	88	90	93	82.5	96.4
25-Aug-07	93	93	95	96	96	96	95	84	84	69	73	68	53	46	45	47	50	49	52	63	77	83	85	83	74.0	96.2
26-Aug-07	87	85	84	81	80	81	82	86	82	77	79	85	84	82	83	74	76	81	77	84	89	91	91	93	83.2	93.4
27-Aug-07	95	94	95	95	95	94	92	83	84	83	76	69	57	50	55	45	42	42	43	49	62	71	62	76	71.3	95.5
28-Aug-07	85	88	93	93	94	94	93	81	75	66	58	50	42	38	33	33	33	33	40	56	64	61	64	64	63.8	94.0
29-Aug-07	65	70	80	81	86	88	90	81	72	63	58	53	48	42	47	54	69	78	84	88	88	91	92	92	73.3	92.0
30-Aug-07	92	93	92	92	93	91	94	91	91	90	83	78	75	72	76	76	79	84	89	90	89	89	91	91	86.7	93.5
31-Aug-07	88	86	82	84	89	88	88	89	83	76	64	54	52	46	44	40	46	46	53	61	66	72	76	82	68.9	88.9
Hourly Avg	83.9	84.5	86.1	87.4	88.0	88.5	86.9	83.0	78.6	72.7	66.7	61.7	57.5	54.0	53.0	51.9	54.0	57.1	61.7	67.3	74.6	78.2	80.4	82.7		
Hourly Max	94.9	95.1	95.7	96.1	96.4	96.4	96.4	96.6	96.4	95.2	91.9	89.1	87.6	85.2	91.5	83.1	81.7	89.1	89.0	91.5	93.3	93.4	94.1	94.8		

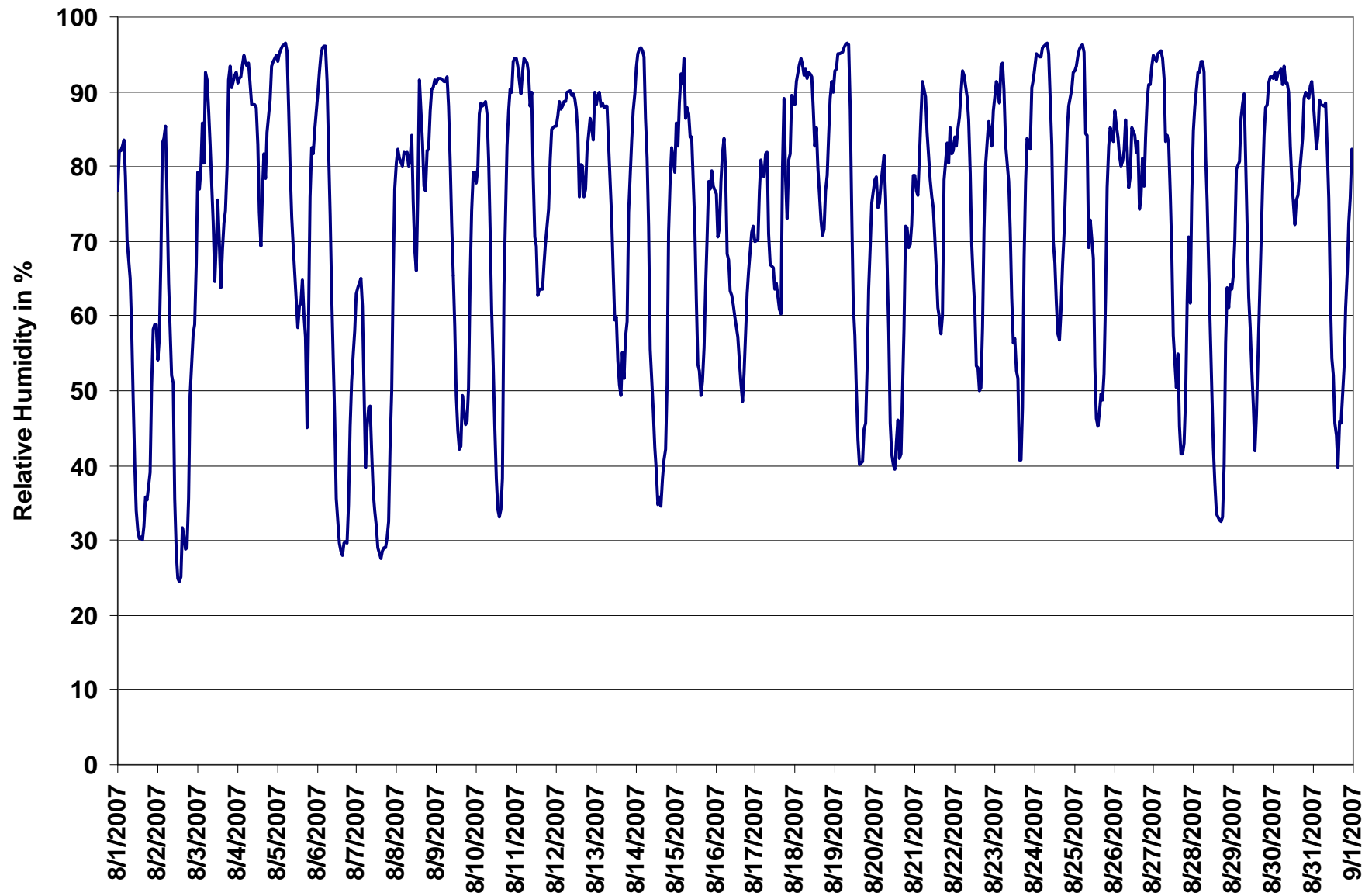


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

PASZA - Beaverlodge Temperature Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

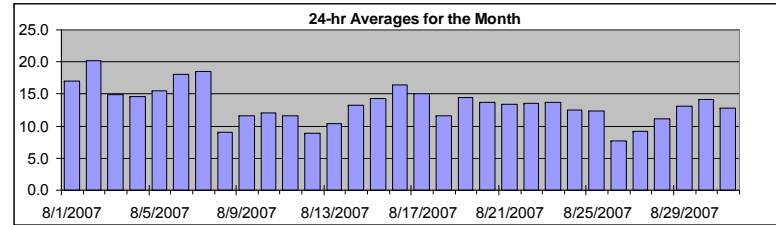
HOURLY AVERAGE TABLE

Ambient Temperature (T)

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

Summary

Maximum 1-hr Average:	27.3	°C	2-Aug	13:00 14:00
Maximum 24-hr Value:	20.2	°C	2-Aug	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	26.1	21.3	16.8	12.8	10.0	7.1	4.0	13.4 °C	12.8 °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-Aug-07	10	8	8	8	7	8	11	12	15	18	21	22	23	24	24	25	24	23	23	22	21	18	17	16	17.0	24.6	
2-Aug-07	17	16	14	11	11	10	13	15	19	20	25	26	27	27	27	26	26	26	26	24	22	19	18	17	20.2	27.3	
3-Aug-07	15	15	15	13	13	12	13	13	14	16	19	18	17	18	19	16	16	16	15	14	14	13	13	13	15.0	18.6	
4-Aug-07	13	13	13	13	13	13	13	13	14	15	15	15	15	17	18	19	17	16	16	16	15	14	13	12	14.6	19.2	
5-Aug-07	12	11	10	10	9	10	10	13	15	17	18	19	21	20	20	19	20	20	20	19	16	14	14	13	15.5	20.7	
6-Aug-07	12	11	10	9	9	8	10	12	14	17	20	23	25	26	26	26	26	25	24	24	21	19	18	17	18.1	26.5	
7-Aug-07	16	16	15	16	18	19	18	18	18	19	21	21	22	23	22	22	22	21	21	20	17	15	13	11	18.5	22.6	
8-Aug-07	11	11	10	9	8	8	8	8	8	8	9	10	11	10	9	10	10	10	10	10	9	9	9	8	9.1	10.7	
9-Aug-07	8	8	8	8	8	8	8	9	10	11	12	13	15	16	16	17	16	16	16	16	13	10	9	9	11.6	16.7	
10-Aug-07	9	9	7	7	7	7	7	8	11	13	15	17	18	20	20	20	19	14	11	11	10	10	9	9	12.0	20.1	
11-Aug-07	8	8	8	9	8	8	8	9	11	11	13	14	14	16	15	15	15	15	14	13	12	11	12	11	11.6	15.7	
12-Aug-07	11	10	9	9	9	8	8	8	8	8	8	8	8	9	10	10	10	10	10	10	9	9	9	8	9.0	10.8	
13-Aug-07	8	8	8	8	8	8	8	8	9	11	12	12	12	13	14	14	14	15	14	14	11	9	8	7	10.5	14.6	
14-Aug-07	6	6	5	4	4	4	6	8	11	15	17	18	19	20	20	21	20	20	20	18	15	14	13	13	13.2	20.8	
15-Aug-07	11	12	11	10	9	8	10	11	11	13	14	16	18	19	20	20	20	19	18	17	15	14	13	13	14.3	20.4	
16-Aug-07	12	13	12	11	10	10	10	14	15	18	18	19	20	21	21	22	22	22	21	19	17	16	15	15	16.4	22.0	
17-Aug-07	15	15	14	13	13	13	12	13	15	17	17	18	19	19	20	20	17	15	16	15	13	12	11	11	15.1	20.1	
18-Aug-07	11	10	9	8	8	9	9	9	9	10	10	12	13	13	14	15	16	15	15	15	14	13	12	12	11.6	15.8	
19-Aug-07	11	11	10	11	11	10	11	11	12	13	16	17	18	19	20	20	20	19	19	17	14	13	12	11	14.4	20.3	
20-Aug-07	11	11	11	11	10	10	11	13	14	17	17	17	18	17	17	17	17	15	13	13	13	13	12	12	13.7	17.8	
21-Aug-07	12	12	12	11	11	10	11	11	12	13	14	14	15	16	17	17	17	17	17	14	14	14	13	12	13.4	17.4	
22-Aug-07	11	11	11	11	11	10	10	11	13	14	16	17	17	19	18	19	18	17	14	12	11	12	12	10	13.6	18.8	
23-Aug-07	11	11	11	10	9	9	9	11	13	14	16	18	17	19	18	20	21	18	15	13	12	12	11	11	13.7	20.8	
24-Aug-07	10	10	9	9	8	6	7	8	9	11	13	15	16	17	17	18	18	17	16	15	14	13	12	12	12.4	17.7	
25-Aug-07	12	11	10	10	8	8	9	12	12	14	13	14	17	18	17	16	15	16	15	13	11	10	9	8	12.4	17.6	
26-Aug-07	7	7	7	7	7	7	6	7	7	9	9	9	8	9	8	9	9	9	9	8	7	7	7	5	7.6	9.2	
27-Aug-07	5	5	4	4	4	4	4	7	7	8	9	11	13	15	13	15	16	15	14	13	10	9	10	7	9.3	15.6	
28-Aug-07	5	4	4	3	3	3	3	6	8	11	13	15	17	17	19	19	19	19	18	15	12	12	11	12	11.1	19.2	
29-Aug-07	12	11	10	10	10	9	9	10	12	14	15	16	17	18	17	17	16	15	14	13	12	12	12	12	13.1	18.5	
30-Aug-07	12	12	13	12	12	13	12	13	13	14	15	16	17	18	18	18	18	17	15	13	12	12	11	11	14.1	18.5	
31-Aug-07	11	11	11	10	9	9	9	9	11	12	15	16	16	17	18	18	17	17	16	15	12	11	10	8	12.8	18.5	
Hourly Avg	10.8	10.5	10.0	9.5	9.2	9.0	9.4	10.6	11.9	13.5	15.0	16.0	17.0	17.7	17.9	18.1	17.7	17.2	16.1	15.1	13.5	12.4	11.9	11.2			
Hourly Max	17.0	16.4	15.2	16.0	18.2	19.0	18.0	17.6	18.7	20.1	24.7	25.6	27.0	27.3	27.3	26.4	26.3	26.4	25.6	24.3	21.6	19.0	18.5	17.3			

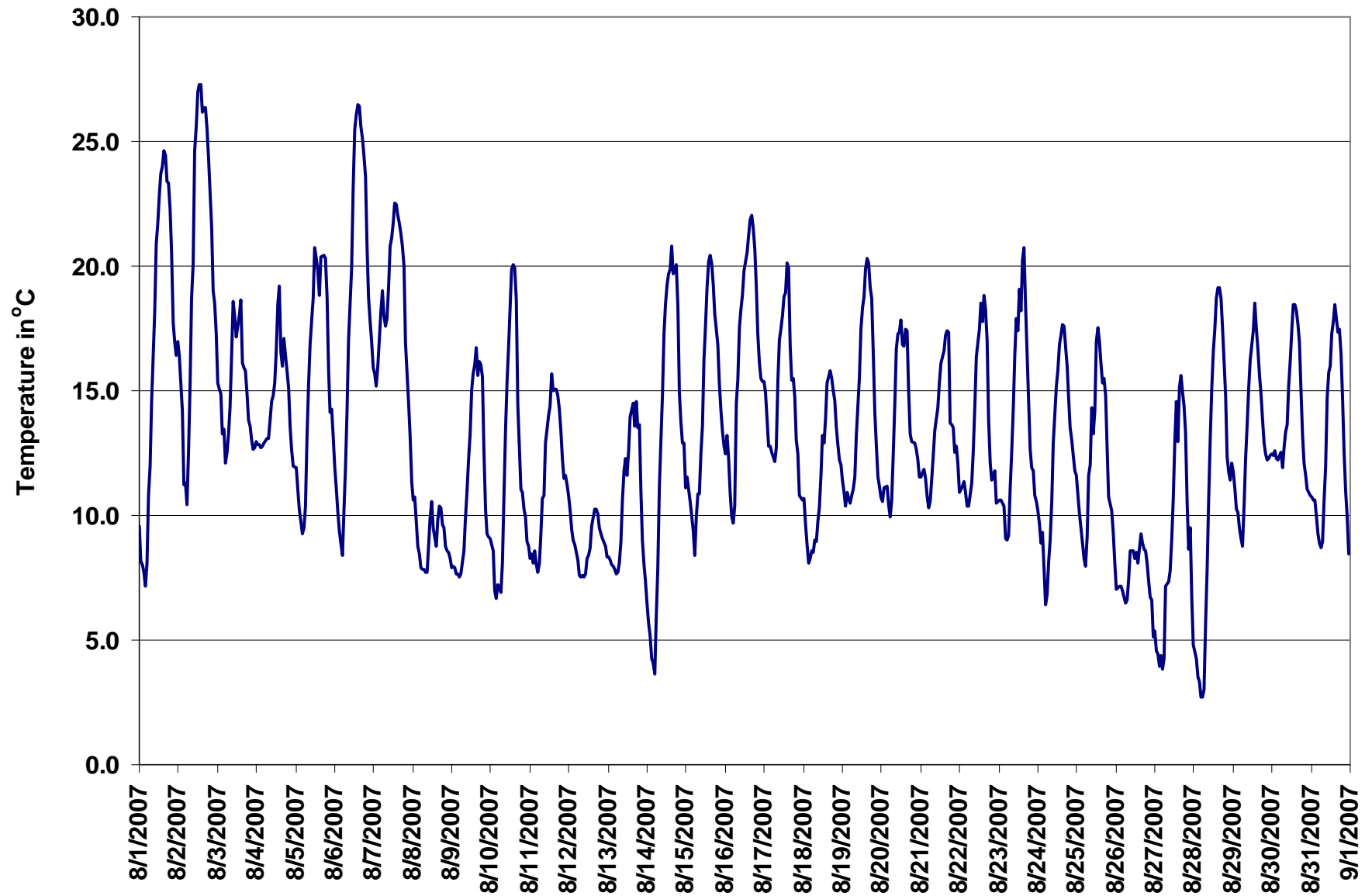


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

PASZA - Beaverlodge Scalar Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

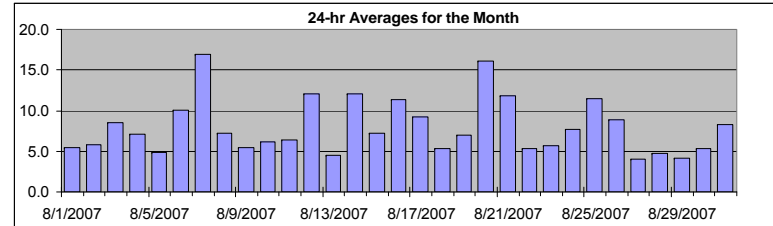
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	32.7	km/hr	20-Aug	11:00 12:00
Maximum 24-hr Value:	16.9	km/hr	7-Aug	

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%					
Percentile	99	95	75	50	25	5	1	AverageS
	27.4	21.6	9.9	6.1	4.0	2.1	1.2	7.9 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 Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00			23:00 0:00
1-Aug-07	2	3	2	2	3	3	1	4	5	5	6	7	7	7	8	7	10	10	10	11	8	5	7	4	2	5.5	11.3
2-Aug-07	5	6	8	6	7	2	2	2	3	5	4	6	5	7	7	9	10	8	7	5	7	5	5	8	5.8	9.9	
3-Aug-07	16	10	19	13	9	6	8	3	5	5	5	8	8	9	10	10	14	10	8	6	6	6	5	5	8.5	19.1	
4-Aug-07	6	6	7	8	8	8	9	9	12	11	12	11	10	7	3	8	6	4	6	5	2	4	5	3	7.0	12.2	
5-Aug-07	3	3	2	1	3	2	1	2	3	5	6	5	3	6	9	7	8	12	10	10	6	2	5	2	4.9	11.9	
6-Aug-07	3	2	2	2	2	1	3	5	7	9	9	10	15	23	25	25	26	25	22	11	6	3	3	3	10.1	25.8	
7-Aug-07	2	2	1	4	15	25	20	25	22	28	26	23	21	21	22	25	27	25	23	16	8	7	11	7	16.9	28.0	
8-Aug-07	8	9	10	11	11	10	10	11	8	8	7	8	6	4	5	3	6	6	6	5	4	5	6	6	7.2	11.3	
9-Aug-07	6	5	5	6	6	5	4	4	4	3	3	3	5	5	8	7	8	6	5	7	6	7	7	6	5.4	7.9	
10-Aug-07	4	3	2	4	3	4	4	4	4	4	7	9	7	7	7	9	9	14	9	9	8	5	7	6	6.1	14.1	
11-Aug-07	2	6	6	8	4	3	3	4	4	4	4	3	5	8	8	9	9	9	9	9	10	6	7	13	6.4	12.6	
12-Aug-07	15	15	17	15	18	20	19	17	15	15	11	13	16	15	13	9	7	6	9	7	5	5	5	4	12.0	20.0	
13-Aug-07	5	4	3	3	4	7	6	4	5	5	6	4	4	5	6	5	5	4	5	5	5	3	2	3	4.5	7.0	
14-Aug-07	2	2	2	3	4	2	4	6	11	24	24	26	27	26	23	22	19	16	14	12	4	5	5	5	12.0	26.9	
15-Aug-07	3	5	5	5	4	4	2	6	4	6	9	8	10	11	10	10	10	10	11	9	8	10	8	7	7.3	11.2	
16-Aug-07	7	8	4	3	2	0	1	1	3	3	6	9	12	14	17	18	20	18	20	20	23	22	22	19	11.3	23.3	
17-Aug-07	22	20	16	13	10	9	8	6	5	5	3	4	3	3	12	8	12	11	14	8	8	7	6	8	9.2	21.8	
18-Aug-07	7	6	7	5	4	5	4	7	4	4	4	3	6	8	6	7	6	8	6	4	2	3	6	3	5.3	8.3	
19-Aug-07	3	2	5	5	5	2	3	5	3	3	5	7	6	13	11	12	15	14	14	12	8	6	4	5	7.0	14.8	
20-Aug-07	6	4	6	7	7	6	9	13	18	28	31	33	28	24	15	24	25	15	12	13	14	14	17	16	16.1	32.7	
21-Aug-07	17	19	20	18	13	12	10	12	14	16	15	13	16	16	17	10	9	9	8	3	5	5	3	5	11.9	19.7	
22-Aug-07	6	7	7	7	5	1	3	3	1	2	3	3	4	5	6	5	4	11	13	8	8	6	4	4	5.3	13.2	
23-Aug-07	5	5	3	6	6	8	8	6	7	6	5	4	5	7	6	5	5	12	5	5	6	3	3	3	5.7	12.3	
24-Aug-07	3	2	3	5	4	1	2	3	4	4	8	12	13	13	13	13	12	11	9	11	14	11	5	6	7.7	14.1	
25-Aug-07	6	7	3	4	2	3	3	3	7	11	12	12	20	26	30	28	28	23	13	8	5	6	7	11	11.5	29.8	
26-Aug-07	10	12	13	11	9	7	7	8	12	15	15	13	10	9	11	10	8	7	5	5	4	4	5	3	8.8	15.1	
27-Aug-07	6	4	2	3	4	1	2	2	3	3	3	3	4	4	8	6	7	9	7	4	2	3	4	3	4.0	8.7	
28-Aug-07	3	4	3	2	2	3	2	3	4	3	4	3	5	6	7	6	6	5	7	6	6	7	8	6	4.7	7.7	
29-Aug-07	3	3	3	3	2	2	3	3	3	4	3	3	3	5	4	5	7	6	7	5	4	4	8	9	4.2	8.9	
30-Aug-07	9	8	6	4	2	3	1	5	3	6	6	4	5	2	3	5	7	6	8	7	8	9	6	5	5.3	9.1	
31-Aug-07	8	10	10	3	3	5	5	2	3	8	13	21	18	16	13	12	14	12	7	5	4	2	1	2	8.2	20.5	
1-hr Average	6.6	6.5	6.5	6.2	5.8	5.4	5.3	6.1	6.7	8.4	8.8	9.5	9.9	10.7	11.0	11.0	11.6	10.8	10.2	8.0	6.8	6.2	6.2	6.0			
Hourly Max	21.8	19.7	19.7	18.2	17.6	24.9	19.6	24.6	22.4	28.0	31.4	32.7	27.8	26.4	29.8	27.9	27.8	25.4	22.5	19.8	23.3	21.8	21.6	18.9			

PASZA - Beaverlodge Vector Wind Speed Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

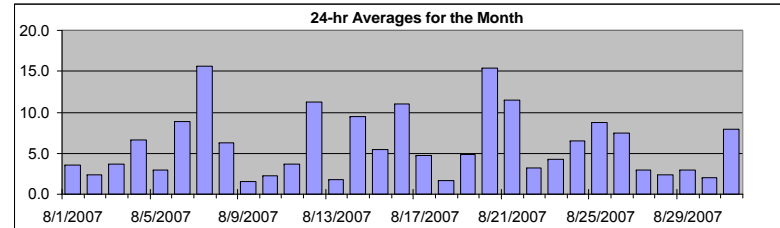
HOURLY AVERAGE TABLE

Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	32.5	km/hr	20-Aug	11:00 12:00
Maximum 24-hr Value:	15.6	km/hr	7-Aug	



Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	27.1	21.5	9.4	5.6	3.2	1.1	0.6	3.4 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max			
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
1-Aug-07	2	3	2	2	2	1	1	4	4	5	5	6	6	6	7	6	9	10	11	7	5	7	4	2		3.6	11.2	
2-Aug-07	5	5	7	5	6	1	2	2	3	5	2	4	3	5	6	8	9	8	7	5	7	5	5	7		2.4	9.5	
3-Aug-07	10	10	14	4	3	5	7	1	5	5	3	8	8	8	7	9	14	9	8	5	6	6	5	5		3.7	14.0	
4-Aug-07	6	5	7	8	8	8	9	9	12	11	12	11	10	6	2	7	5	4	5	4	2	4	4	1		6.6	12.1	
5-Aug-07	2	3	1	1	3	2	1	1	3	5	6	4	3	5	9	7	8	12	9	10	6	1	5	2		2.9	11.7	
6-Aug-07	3	1	2	2	1	1	3	5	6	8	9	10	14	23	24	25	26	25	21	11	6	3	1	3		8.9	25.7	
7-Aug-07	2	2	1	3	14	25	20	25	22	28	26	23	21	21	21	25	26	24	22	16	8	6	11	7		15.6	27.9	
8-Aug-07	8	9	10	11	10	10	10	11	7	8	7	8	6	4	5	3	5	5	6	5	4	5	6	6		6.2	10.8	
9-Aug-07	6	5	5	6	6	5	4	4	3	2	2	1	4	4	6	1	7	5	5	7	6	7	7	6		1.5	7.5	
10-Aug-07	4	3	1	4	3	3	3	4	3	4	7	8	5	6	5	8	9	8	8	9	7	4	7	5		2.3	9.0	
11-Aug-07	1	6	6	8	3	3	1	3	3	4	3	3	5	7	7	9	8	9	9	7	8	5	7	13		3.7	12.5	
12-Aug-07	15	15	17	15	18	20	19	17	15	15	11	13	16	15	13	9	7	6	8	7	4	5	5	4		11.2	19.9	
13-Aug-07	5	3	3	3	4	7	6	4	5	4	6	2	4	4	5	4	4	3	4	5	5	2	2	3		1.8	6.8	
14-Aug-07	2	2	2	3	4	2	3	5	11	24	24	26	26	26	22	22	19	16	14	9	2	5	5	3		9.4	26.5	
15-Aug-07	3	5	2	3	1	4	2	4	4	5	8	7	10	11	9	10	10	10	11	9	8	10	8	7		5.5	10.8	
16-Aug-07	7	8	1	1	1	0	1	1	3	1	5	9	12	14	16	18	19	18	20	20	23	22	22	19		11.0	23.2	
17-Aug-07	22	20	15	13	10	8	7	6	5	3	2	4	2	2	12	7	7	10	14	8	8	6	6	8		4.7	21.7	
18-Aug-07	7	5	6	4	3	5	3	7	4	3	3	3	5	8	6	6	6	8	6	4	1	3	6	3		1.7	8.1	
19-Aug-07	3	1	5	4	3	2	3	5	3	5	6	5	12	11	12	14	14	14	14	12	8	6	4	5		4.8	14.4	
20-Aug-07	6	4	5	7	7	5	9	13	18	28	31	33	28	23	15	24	25	15	12	12	14	14	17	16		15.4	32.5	
21-Aug-07	17	19	20	18	13	12	10	12	14	16	14	13	16	16	16	10	9	9	7	3	5	5	2	4		11.5	19.7	
22-Aug-07	6	7	7	7	5	1	2	3	1	2	1	3	4	4	5	4	2	10	9	5	8	4	4	4		3.1	10.4	
23-Aug-07	4	3	3	6	5	8	8	6	7	6	4	4	3	3	5	5	3	4	12	3	3	6	2	3		4.3	11.9	
24-Aug-07	3	1	2	5	2	1	2	2	3	4	7	12	12	13	13	13	12	11	8	11	14	11	3	4		6.5	13.8	
25-Aug-07	6	7	2	3	1	3	2	1	6	11	12	12	20	26	30	28	28	23	12	7	5	5	7	11		8.7	29.7	
26-Aug-07	10	11	12	11	9	7	7	8	12	14	15	12	10	9	11	9	7	7	4	5	4	4	5	2		7.4	15.0	
27-Aug-07	6	2	1	1	4	1	2	1	3	3	3	3	2	3	7	4	7	8	7	4	2	3	3	1		2.9	8.4	
28-Aug-07	1	3	1	0	0	1	1	3	3	3	4	4	5	6	5	4	5	5	7	6	6	7	8	6		2.4	7.7	
29-Aug-07	2	2	2	2	0	1	3	2	2	3	1	3	3	4	3	5	6	6	6	5	4	3	8	9		3.0	8.8	
30-Aug-07	9	8	6	4	2	3	1	4	3	6	6	3	4	1	2	3	7	5	7	6	8	9	6	5		2.0	8.9	
31-Aug-07	8	10	10	2	2	4	4	1	3	8	13	20	18	15	13	11	14	11	7	5	4	1	1	2		7.9	20.4	
1-hr Vector	1.0	2.1	2.3	2.1	1.7	1.5	1.7	1.7	3.0	4.3	4.6	4.0	3.3	3.2	2.8	2.7	3.2	3.2	2.5	1.9	1.3	1.4	1.8	1.6				
Hourly Max	21.7	19.6	19.7	18.2	17.5	24.8	19.6	24.5	22.3	27.9	31.3	32.5	27.6	26.1	29.7	27.7	27.6	25.3	22.3	19.8	23.2	21.8	21.5	18.8				

PASZA - Beaverlodge Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	356.6	345.0	293.0	215.0	100.4	28.0	6.7	300 deg

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Aug-07	237	73	129	114	107	184	147	206	223	258	272	226	223	186	152	156	145	134	134	127	92	101	122	109	158	SSE
2-Aug-07	90	41	351	330	336	34	91	160	288	286	345	14	68	83	73	101	117	110	159	105	125	128	125	232	81	E
3-Aug-07	205	70	221	125	209	150	270	48	338	326	168	186	209	187	214	329	312	296	288	281	279	295	290	299	245	WSW
4-Aug-07	308	298	304	309	321	322	320	310	305	315	322	326	332	354	36	357	314	304	302	322	297	254	289	355	318	NW
5-Aug-07	345	247	237	95	60	72	58	128	301	313	317	341	339	339	332	316	287	287	281	245	238	138	52	158	303	WNW
6-Aug-07	172	199	143	173	179	99	209	206	213	221	230	239	253	257	261	259	259	260	259	266	255	219	146	115	248	WSW
7-Aug-07	93	136	96	266	286	270	278	276	276	275	280	279	280	285	290	282	282	277	282	287	298	309	18	355	283	WNW
8-Aug-07	350	347	358	348	360	9	7	30	29	42	32	33	33	15	286	358	326	315	308	319	322	318	328	328	357	N
9-Aug-07	329	328	333	328	346	6	334	360	350	4	301	90	185	237	181	134	74	96	114	127	114	98	108	107	68	ENE
10-Aug-07	104	123	138	117	170	187	232	194	192	177	170	165	167	155	142	136	125	273	52	15	47	84	279	315	148	SSE
11-Aug-07	353	331	343	345	326	319	276	25	48	230	201	101	61	65	79	88	105	97	93	119	121	89	77	70	72	ENE
12-Aug-07	60	60	57	71	79	74	71	70	72	77	60	50	46	47	46	40	10	20	14	13	39	19	28	328	56	NE
13-Aug-07	355	356	356	11	354	28	27	1	32	20	31	88	330	343	293	265	234	247	203	217	229	148	93	100	350	N
14-Aug-07	129	114	152	157	193	149	188	194	228	256	260	265	264	279	277	283	292	281	275	298	348	42	34	16	270	W
15-Aug-07	69	60	343	50	217	76	87	36	192	181	190	144	125	124	112	112	111	95	90	93	74	90	86	94	105	ESE
16-Aug-07	88	85	117	253	126	234	242	257	264	108	116	115	102	94	96	98	109	96	89	88	87	91	90	98	96	E
17-Aug-07	108	106	100	95	95	79	76	64	41	61	183	260	86	109	62	91	246	320	307	356	33	33	338	353	68	ENE
18-Aug-07	350	358	326	12	359	337	10	345	344	56	296	211	143	132	143	158	138	147	99	27	49	97	73	103	59	ENE
19-Aug-07	145	180	307	50	6	191	148	211	210	170	169	212	221	260	288	285	280	287	290	288	290	249	238	247	266	W
20-Aug-07	260	257	254	245	251	230	239	245	261	270	277	276	274	279	290	278	289	311	317	287	278	284	284	292	277	W
21-Aug-07	290	288	293	289	293	296	296	305	303	305	300	311	320	317	313	326	326	305	306	321	332	265	343	296	303	WNW
22-Aug-07	324	329	342	341	356	41	329	334	150	164	167	316	292	324	327	23	54	155	46	344	305	323	350	37	347	NNW
23-Aug-07	7	332	354	355	330	344	335	323	328	321	348	320	4	11	17	310	325	28	275	243	34	38	201	87	339	NNW
24-Aug-07	157	83	36	39	79	204	244	186	187	142	146	140	138	127	114	134	117	102	82	87	92	114	125	79	115	ESE
25-Aug-07	23	46	294	291	118	67	65	95	228	260	254	254	258	265	268	271	262	259	284	294	19	345	341	326	275	W
26-Aug-07	318	318	314	309	307	291	273	273	299	305	297	317	7	9	29	12	28	331	14	315	334	3	349	305	325	NW
27-Aug-07	329	351	308	331	41	351	310	335	283	302	289	252	251	209	250	241	298	308	317	314	274	43	329	309	300	WNW
28-Aug-07	209	62	310	342	353	69	66	235	224	201	186	200	207	215	221	199	166	127	128	116	92	98	95	106	154	SSE
29-Aug-07	162	283	360	37	226	287	82	153	103	160	162	79	164	110	162	78	98	133	146	113	120	145	112	109	120	ESE
30-Aug-07	122	130	113	147	135	102	279	355	215	224	194	182	106	1	31	140	132	159	243	301	274	259	255	230	189	S
31-Aug-07	247	248	248	270	225	249	241	198	225	254	262	263	256	258	247	263	248	253	255	236	250	225	256	78	252	WSW
Hourly Avg	9	17	327	355	336	343	316	309	282	276	268	267	266	276	283	283	271	276	300	319	29	59	39	29		

PASZA - Beaverlodge Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	85.4	71.9	38.1	18.1	9.4	4.6	3.5

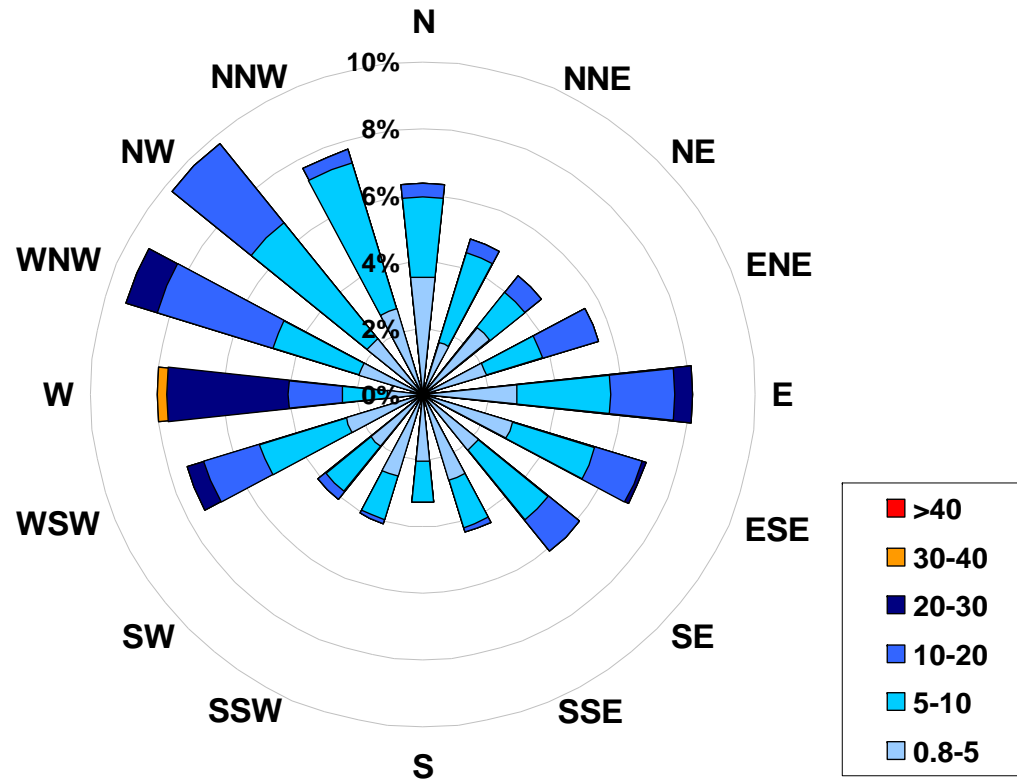
Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Aug-07	47	20	43	31	19	64	44	30	22	26	34	39	35	36	41	43	26	12	8	18	5	4	13	31		64.3	
2-Aug-07	11	26	27	42	60	61	21	44	37	23	73	62	78	67	41	32	17	13	12	13	22	15	10	42		77.7	
3-Aug-07	59	13	75	75	72	21	20	87	23	26	48	22	13	21	51	23	13	14	18	21	12	9	8	9		86.7	
4-Aug-07	5	6	6	4	6	6	5	6	5	6	7	7	11	39	86	29	13	17	20	53	64	17	24	55		86.5	
5-Aug-07	60	11	82	58	21	23	69	55	46	21	16	37	50	25	14	13	20	11	17	6	10	49	38	24		81.7	
6-Aug-07	18	44	38	18	53	11	21	14	12	13	15	18	14	8	9	6	5	5	6	4	5	34	58	13		57.9	
7-Aug-07	18	18	72	85	12	5	5	3	4	5	7	10	10	11	8	7	6	9	8	7	6	32	11	15		84.9	
8-Aug-07	11	10	15	11	14	10	12	17	19	11	14	21	26	28	22	37	17	11	16	12	15	8	6	7		36.9	
9-Aug-07	4	5	5	6	10	11	11	16	37	62	66	86	50	54	44	87	16	47	25	12	13	8	4	4		86.9	
10-Aug-07	6	12	46	20	22	16	12	17	33	25	18	22	44	42	50	29	18	75	40	17	27	29	16	22		75.2	
11-Aug-07	70	7	9	6	69	24	60	48	66	20	53	45	33	23	18	18	12	10	8	41	39	27	47	7		70.2	
12-Aug-07	7	6	5	6	4	4	3	4	5	7	8	8	3	4	5	15	10	10	8	16	19	9	7	21		21.4	
13-Aug-07	10	46	30	16	24	11	20	18	14	29	30	59	22	39	43	44	27	43	21	27	13	50	12	17		58.5	
14-Aug-07	18	29	35	26	17	37	34	23	13	5	9	9	10	9	9	10	6	5	6	51	55	23	13	51		55.0	
15-Aug-07	21	9	68	55	87	12	21	56	27	21	13	19	17	16	21	14	14	8	6	7	7	5	5	7		87.1	
16-Aug-07	12	17	83	87	71	63	36	87	27	82	35	16	15	11	9	9	10	8	5	4	3	3	3	5		87.4	
17-Aug-07	5	5	11	4	11	14	6	12	18	62	67	59	62	47	13	38	67	22	10	23	21	30	27	17		67.4	
18-Aug-07	14	40	52	41	44	41	52	16	19	52	75	42	52	15	25	24	19	14	26	24	71	21	23	23		75.4	
19-Aug-07	21	76	23	21	60	43	21	11	26	37	19	28	30	13	17	15	13	11	7	4	7	14	10	8		75.8	
20-Aug-07	7	34	25	15	4	14	3	6	7	6	5	7	7	8	8	7	11	9	9	10	4	4	4	4		33.8	
21-Aug-07	4	4	3	4	4	4	7	5	4	5	6	6	8	8	7	9	7	13	17	22	15	12	38	38		38.0	
22-Aug-07	25	5	6	10	34	24	62	44	70	37	89	53	24	36	30	47	69	10	54	52	10	47	31	16		88.9	
23-Aug-07	38	41	41	9	36	6	4	7	10	19	35	41	51	53	48	46	67	25	25	52	72	38	63	31		71.7	
24-Aug-07	21	81	57	4	75	42	36	54	30	26	18	13	12	11	12	9	8	8	36	9	12	3	81	72		81.4	
25-Aug-07	12	10	63	45	48	39	30	78	19	11	7	9	10	10	7	7	6	6	15	25	13	16	15	5		77.6	
26-Aug-07	6	7	8	5	6	14	8	19	8	7	7	28	12	10	10	24	15	23	22	13	7	20	5	60		60.5	
27-Aug-07	5	77	76	75	20	72	68	82	45	18	19	31	77	62	19	55	31	15	11	8	65	28	45	74		82.3	
28-Aug-07	70	39	65	72	82	80	17	32	14	37	30	31	33	35	44	52	44	27	9	12	5	3	7	8		81.5	
29-Aug-07	26	55	63	52	75	65	20	42	58	34	62	29	39	41	45	34	14	18	12	15	6	30	8	6		75.4	
30-Aug-07	10	11	20	25	23	22	43	31	68	18	19	35	20	63	51	81	18	33	34	26	13	9	13	16		80.7	
31-Aug-07	14	6	7	48	66	37	23	67	27	10	9	7	8	14	15	18	8	8	8	7	14	68	75	51		74.8	
Hourly Max	70	81	83	87	87	80	69	87	70	82	89	86	78	67	86	87	69	75	54	53	72	68	81	74			

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



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	277
5	to	10	282
10	to	20	140
20	to	30	43
30	to	40	2
	>	40	0
Total Non-Zero Values			744

PASZA – Portable-Falher Station

Monthly Summary Tables, Graphs and Roses

PASZA - Portable-Falher Sulphur Dioxide Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

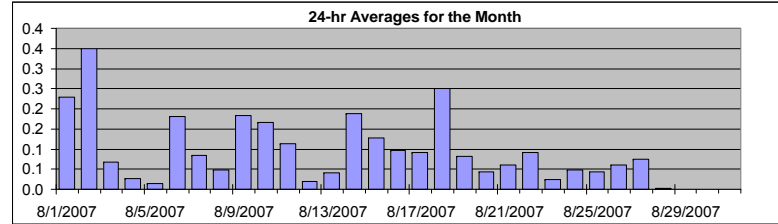
Sulphur Dioxide (SO₂)

Monitoring Dates: August 1, 2007 to September 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:	1.1 ppb	6-Aug	9:00	10:00
Maximum 24-hr Average:	0.4 ppb	2-Aug		



AIC Time:	30 hrs	Operational Time:	651 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.8	0.3	0.1	0.1	0.0	0.0	0.0	0.1 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-Aug-07	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.6
2-Aug-07	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0.4	1.0
3-Aug-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-Aug-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	0.1	
5-Aug-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	0.1	
6-Aug-07	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	1.1	
7-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.2	
8-Aug-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	
9-Aug-07	0	0	0	0	0	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0	
10-Aug-07	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
11-Aug-07	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	0.3	
12-Aug-07	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	0.1	
13-Aug-07	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	
14-Aug-07	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	
15-Aug-07	0	0	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7	
16-Aug-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
17-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
18-Aug-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.3	1.1	
19-Aug-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5	
20-Aug-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	0.2	
21-Aug-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	0.2	
22-Aug-07	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	
23-Aug-07	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	
24-Aug-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	0.2	
25-Aug-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	0.1	
26-Aug-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	0.2	
27-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
28-Aug-07	0	0	0	A	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
29-Aug-07	0	0	0	A	0	0	0	0	0	0	C	C	C	A	S	S	S	S	S	S	S	S	S	N	0.1	
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
Hourly Avg	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
Hourly Max	0.3	0.2	0.2	0.2	0.3	0.9	1.0	0.5	0.9	1.1	1.0	0.8	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.5	1.1	0.4	0.4		

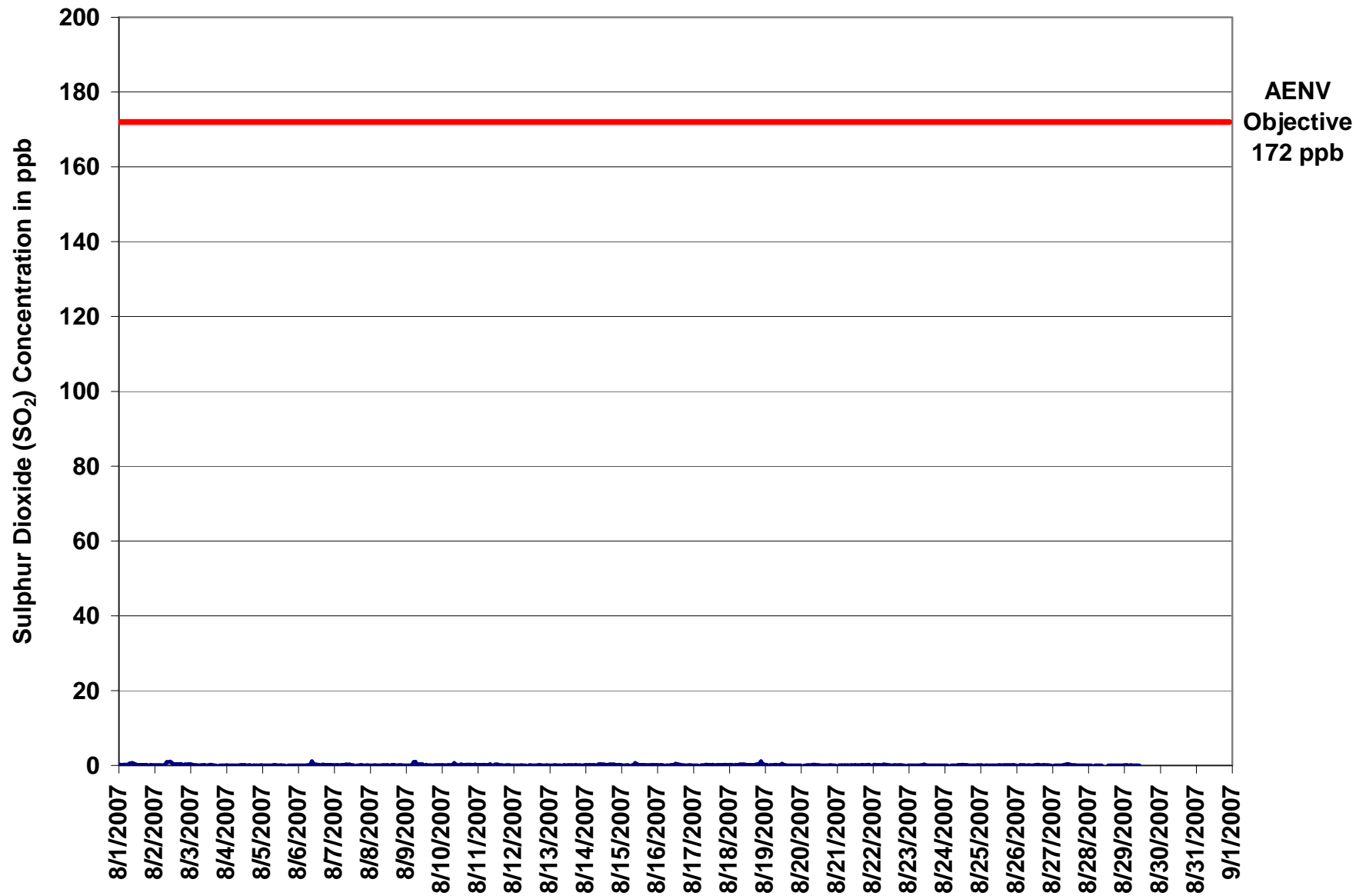


Figure 46. PASZA - Portable-Falher Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Falher
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

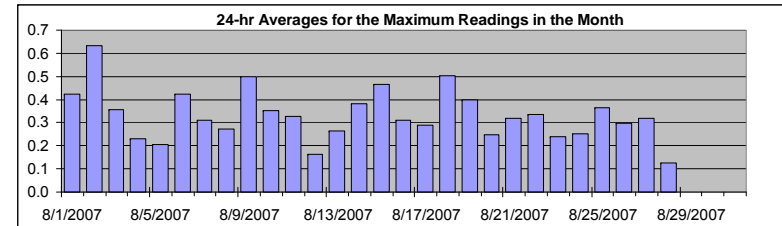
Sulphur Dioxide (SO₂)

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

Summary

Maximum 1-hr Value:	2.3	ppb	15-Aug	9:00 10:00
Maximum 24-hr Value:	0.6	ppb	2-Aug	

AIC Time:	30 hrs	Operational Time:	651 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.5	0.7	0.3	0.3	0.2	0.2	0.0	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

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Aug-07	1	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	A	0	0	0	0.4	0.7	
2-Aug-07	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	A	0	0	0	1	0.6	1.4	
3-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	A	0	0	0	0	0	0.4	2.2	
4-Aug-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	0.2	0.3	
5-Aug-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	0.2	0.2	
6-Aug-07	0	0	0	0	0	0	0	0	1	2	2	0	0	0	0	A	0	0	0	0	0	0	0	0	0.4	1.8	
7-Aug-07	0	0	0	0	0	0	0	0	1	0	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	0.7	
8-Aug-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	0.3	0.3	
9-Aug-07	0	0	0	0	1	2	2	1	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0.5	1.7	
10-Aug-07	0	0	0	0	0	0	0	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.3	
11-Aug-07	0	0	0	0	0	0	0	0	1	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8	
12-Aug-07	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2	
13-Aug-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	0.3	0.4	
14-Aug-07	0	0	0	0	0	0	0	A	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
15-Aug-07	0	0	0	0	0	0	A	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.3	
16-Aug-07	0	0	0	0	0	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.3	0.8	
17-Aug-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	0.3	0.4	
18-Aug-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.5	1.4	
19-Aug-07	0	0	A	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.4	1.3	
20-Aug-07	0	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
21-Aug-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	0.3	0.5	
22-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.4	
23-Aug-07	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7	
24-Aug-07	0	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
25-Aug-07	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
26-Aug-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	0.3	0.4	
27-Aug-07	A	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7	
28-Aug-07	0	0	0	A	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
29-Aug-07	0	0	0	A	0	0	0	0	0	0	C	C	C	A	S	S	S	S	S	S	S	S	S	S	N	0.4	
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
Hourly Avg	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	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
Hourly Max	0.7	0.8	0.5	0.4	0.7	1.7	1.7	0.8	1.4	2.3	1.8	1.3	1.3	2.2	0.7	0.6	0.9	0.4	0.6	0.4	1.2	1.4	0.9	0.9			

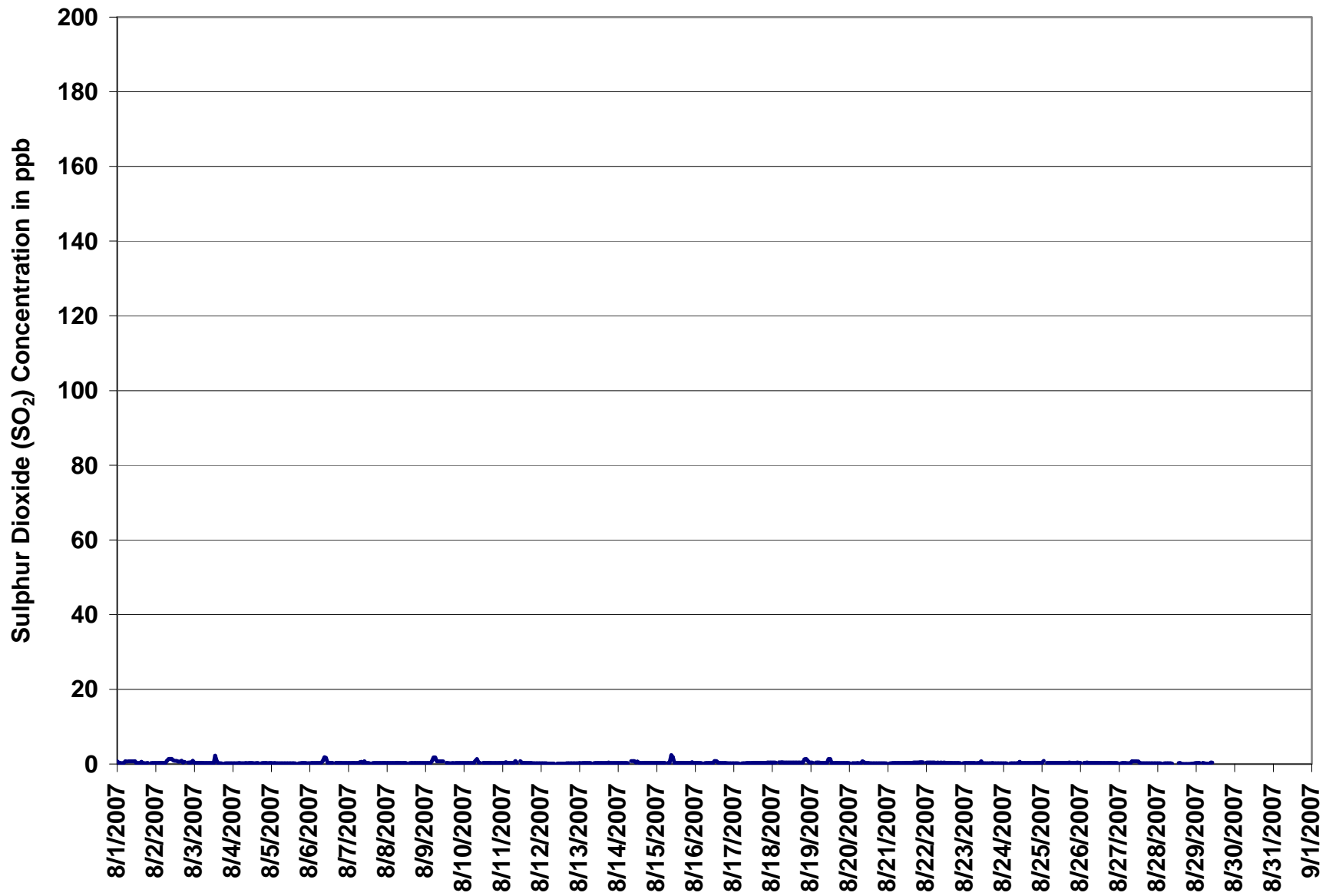
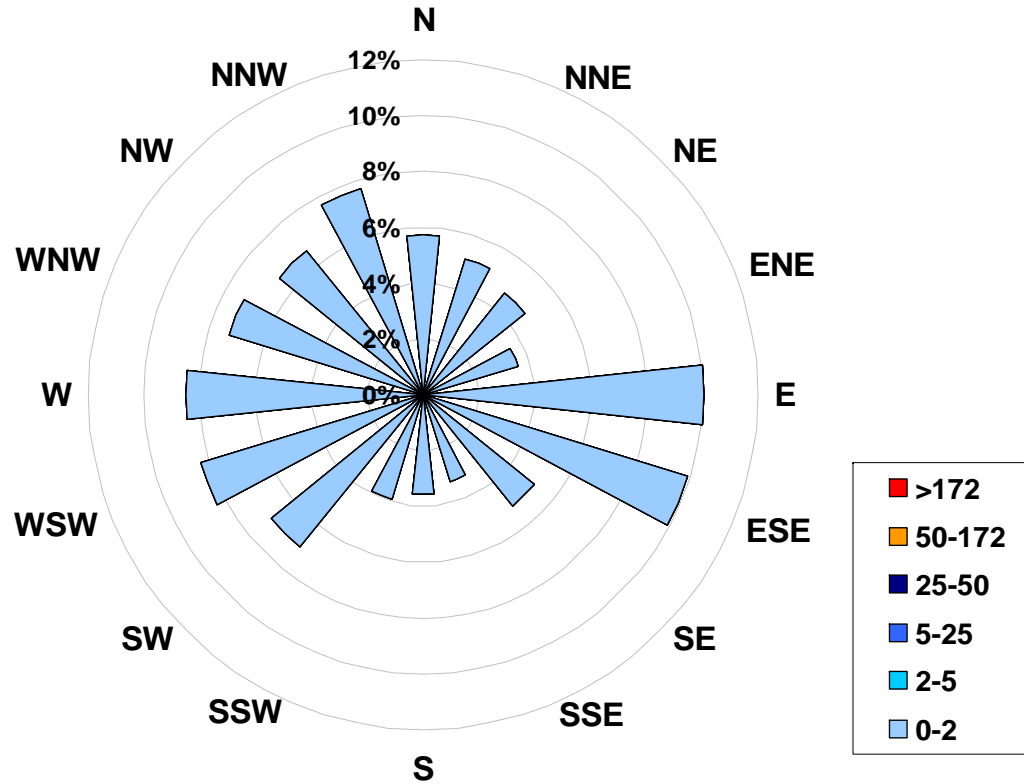


Figure 47. PASZA - Portable-Falher Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

1-hr Average Concentration Rose for Sulphur Dioxide (in ppb) Located at the Portable-Falher Site for August 2007



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	651
2	to	5	0
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			651

PASZA - Portable-Falher Nitrogen Dioxide Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

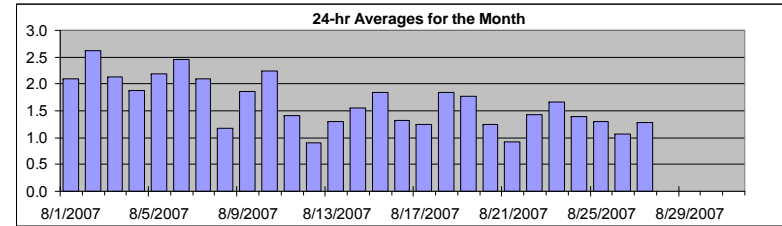
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

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

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

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	8.8 ppb 2-Aug 22:00 23:00
Maximum 24-hr Average:	2.6 ppb 2-Aug



AIC Time:	29 hrs	Operational Time:	630 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.3	3.8	2.1	1.4	0.8	0.5	0.4	1.6 ppb	1.4 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								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-Aug-07	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	A	7	7	7	2.1	7.0	
2-Aug-07	5	5	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	A	4	6	9	6	2.6	8.8	
3-Aug-07	4	2	2	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	A	3	3	4	4	2	2.1	4.3	
4-Aug-07	2	3	2	3	3	2	2	2	1	1	1	1	1	1	1	0	1	A	2	2	3	3	3	3	1.9	3.5	
5-Aug-07	4	4	4	4	4	3	2	2	1	1	1	1	1	1	1	1	A	3	2	2	2	2	2	4	2.2	4.4	
6-Aug-07	3	3	3	4	4	4	2	2	2	2	1	1	1	1	1	A	3	2	2	2	4	4	4	3	2.5	4.4	
7-Aug-07	3	3	3	4	3	3	3	2	2	1	1	1	1	1	A	2	2	2	2	1	2	2	2	2	2.1	4.1	
8-Aug-07	2	1	1	1	1	1	1	1	1	1	1	0	A	3	2	1	1	1	1	1	2	2	2	2	1.2	3.3	
9-Aug-07	2	2	2	2	2	3	2	1	1	1	1	1	A	3	2	1	1	1	1	2	2	3	3	5	1.9	4.9	
10-Aug-07	5	3	3	3	4	3	2	3	2	2	1	A	3	2	1	1	1	2	2	2	2	2	2	1	2.2	4.8	
11-Aug-07	1	2	2	2	2	2	2	1	1	1	A	3	2	2	1	1	1	1	1	1	1	1	1	1	1.4	3.3	
12-Aug-07	1	1	0	0	0	1	0	0	0	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	0.9	3.0	
13-Aug-07	1	1	1	1	1	1	1	1	A	3	2	1	1	1	1	1	1	1	1	1	1	2	3	3	1.3	3.5	
14-Aug-07	2	2	2	2	2	1	1	A	4	2	2	2	1	1	1	1	1	1	1	1	1	2	2	2	1.6	3.8	
15-Aug-07	2	1	1	2	1	2	A	5	3	2	1	1	1	1	1	1	1	1	1	1	3	4	3	5	1.8	5.0	
16-Aug-07	2	2	1	1	1	A	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	3.7	
17-Aug-07	1	1	1	1	A	3	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.3	3.5	
18-Aug-07	1	3	1	A	3	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	2	2	2	3	1.8	3.4	
19-Aug-07	2	2	A	5	4	3	3	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	1	2	1.8	4.9	
20-Aug-07	2	A	4	4	2	2	3	1	1	1	1	1	0	0	0	1	0	1	1	1	1	1	1	1	1.2	4.2	
21-Aug-07	A	3	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	A	0.9	3.5	
22-Aug-07	4	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	1	1	2	A	5	1.4	5.4		
23-Aug-07	3	3	4	2	2	1	2	2	3	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1.7	3.9	
24-Aug-07	2	2	1	A	4	3	2	2	2	1	1	1	1	1	1	0	0	1	1	2	2	1	1	1	1.4	3.9	
25-Aug-07	1	1	A	3	2	2	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	1	1	1	1.3	3.3	
26-Aug-07	1	A	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	3.4	
27-Aug-07	A	3	2	2	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1.3	3.4	
28-Aug-07	1	1	1	A	4	2	2	1	1	2	C	C	C	C	C	C	A	S	S	S	S	S	S	S	N	3.8	
29-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
Hourly Avg	2.3	2.3	2.1	2.3	2.3	2.1	1.8	1.6	1.6	1.4	1.3	1.1	1.0	1.0	0.9	0.9	0.9	1.0	1.1	1.4	1.9	2.3	2.4	2.5			
Hourly Max	5.1	4.6	4.3	4.9	4.4	3.8	3.7	4.5	3.8	3.3	3.0	3.3	3.4	3.2	3.3	2.3	2.6	2.6	2.4	3.2	4.0	7.0	8.8	6.5			

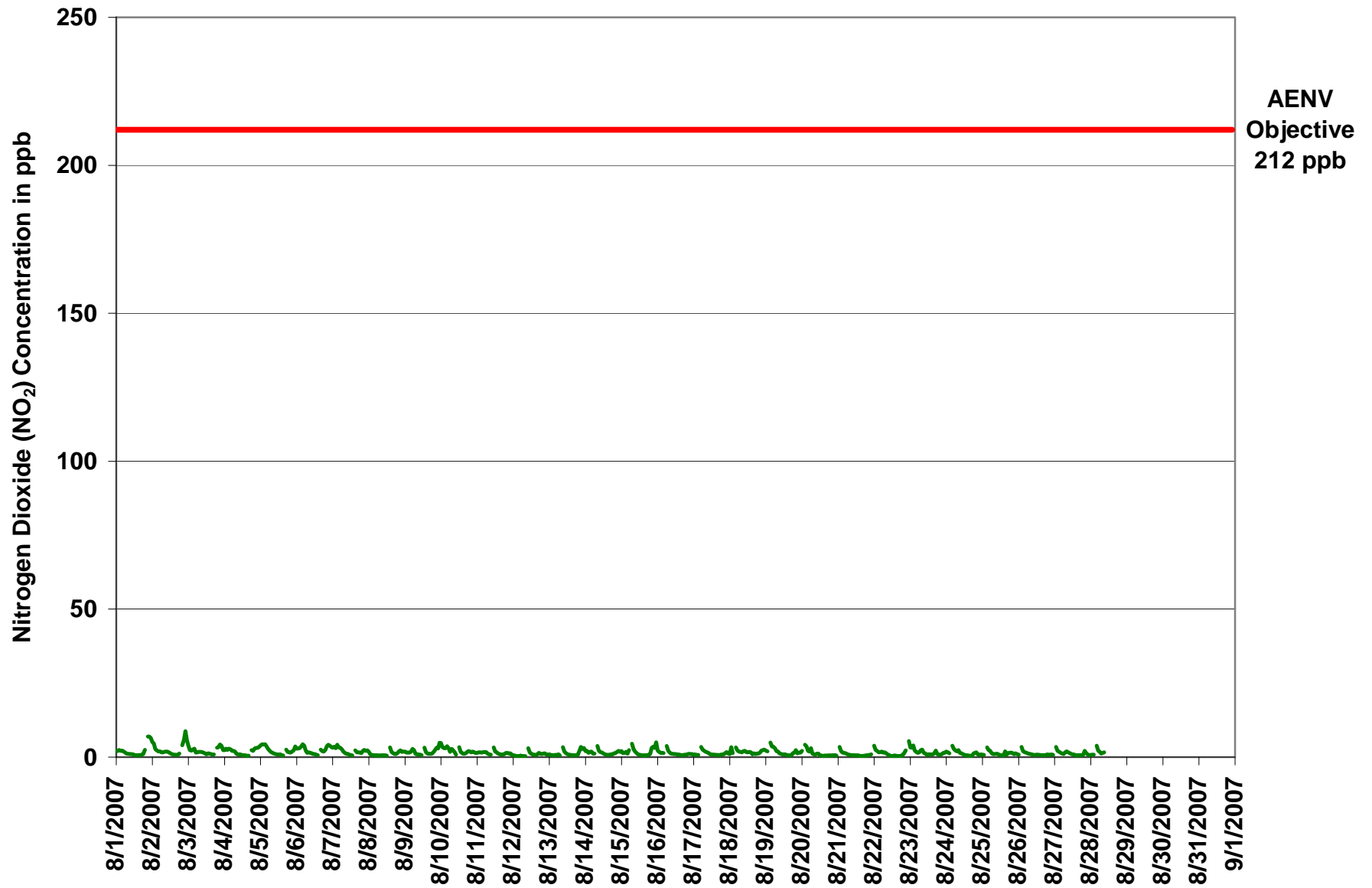


Figure 48. PASZA - Portable-Falher Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Portable-Falher
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

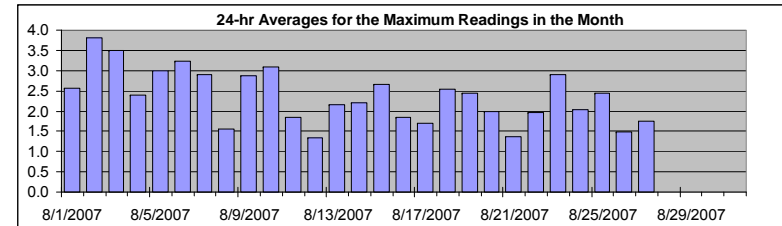
Nitrogen Dioxide (NO₂)

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

Summary

Maximum 1-hr Value:	15.5	ppb	25-Aug	15:00 16:00
Maximum 24-hr Value:	3.8	ppb	2-Aug	

AIC Time:	29 hrs	Operational Time:	630 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	8.0	6.0	2.9	1.8	1.2	0.6	0.6	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

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Aug-07	2	3	3	3	2	2	2	2	1	1	1	1	1	1	1	1	1	2	3	A	8	8	8	2.6	8.0		
2-Aug-07	6	6	3	3	2	3	2	2	2	2	2	2	2	1	2	1	1	1	3	A	8	10	14	9	3.8	14.3	
3-Aug-07	5	4	4	3	4	2	2	3	3	3	2	2	1	7	4	3	1	1	A	5	5	6	6	4	3.5	6.5	
4-Aug-07	3	3	3	3	3	3	3	3	2	1	1	1	1	1	1	1	1	A	3	3	4	4	4	6	2.4	5.7	
5-Aug-07	6	6	6	7	5	4	4	2	2	2	1	1	1	1	1	1	A	4	2	2	2	2	4	5	3.0	6.5	
6-Aug-07	4	4	4	5	5	5	3	2	2	2	2	2	1	1	1	1	A	4	3	3	4	6	6	4	3.2	6.0	
7-Aug-07	4	4	3	7	5	5	5	3	2	1	2	1	1	1	A	3	2	3	2	2	2	3	3	3	2.9	6.9	
8-Aug-07	2	1	1	1	1	1	1	1	1	1	1	1	1	A	6	2	2	1	1	2	2	3	2	2	1.6	5.8	
9-Aug-07	2	2	2	2	2	4	4	1	1	1	1	1	A	6	2	1	3	2	2	3	4	5	8	7	2.9	7.8	
10-Aug-07	6	5	4	4	5	4	3	4	4	3	1	A	6	2	2	1	1	2	3	3	2	2	2	2	3.1	6.3	
11-Aug-07	2	2	2	2	2	3	2	1	1	1	A	5	3	2	1	1	1	1	1	2	2	1	2	1	1.8	5.1	
12-Aug-07	1	1	1	1	1	1	0	1	0	A	6	2	1	1	1	1	1	2	2	2	1	2	1	1	1.3	5.7	
13-Aug-07	1	1	1	1	1	1	6	1	A	6	2	2	1	1	1	1	1	1	1	1	4	4	5	6	2.2	6.2	
14-Aug-07	3	4	2	3	3	1	2	A	6	3	2	2	1	1	1	1	1	3	1	2	2	2	3	3	2.2	5.7	
15-Aug-07	4	2	2	3	1	4	A	6	3	2	2	1	1	1	1	1	1	1	1	1	7	4	4	7	2.6	7.4	
16-Aug-07	3	3	2	2	2	A	6	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.8	6.0	
17-Aug-07	1	1	1	1	A	6	4	3	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	2	1.7	5.7	
18-Aug-07	1	6	3	A	5	3	2	2	2	2	3	2	2	3	3	1	1	1	2	2	2	3	3	3	2.5	5.9	
19-Aug-07	3	3	A	7	4	4	4	3	2	2	2	1	1	1	1	1	1	1	4	3	5	2	2	2	2.4	6.6	
20-Aug-07	4	A	7	7	2	2	6	1	1	1	4	2	1	1	1	1	1	1	1	1	1	1	1	1	2.0	6.9	
21-Aug-07	A	6	3	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	A	1.4	5.8	
22-Aug-07	6	3	2	2	2	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	3	A	7	2.0	6.7	
23-Aug-07	4	5	5	3	2	2	2	3	3	2	2	1	1	1	1	1	7	8	8	1	1	1	2	2	2.9	8.3	
24-Aug-07	2	2	2	A	6	4	3	2	3	2	2	1	2	1	1	1	1	1	2	4	3	1	2	2	2.0	5.8	
25-Aug-07	1	1	A	5	3	3	2	2	1	2	2	1	1	1	1	16	2	2	2	2	2	1	3	2	2.4	15.5	
26-Aug-07	1	A	6	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1.5	6.1	
27-Aug-07	A	6	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	3	3	1	1	1.7	5.7	
28-Aug-07	1	1	2	A	6	3	2	2	2	2	C	C	C	C	C	C	A	S	S	S	S	S	S	S	N	6.4	
29-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
Hourly Avg	3.0	3.1	2.9	3.2	3.0	2.8	2.8	2.2	2.1	1.9	1.8	1.5	1.4	1.5	1.5	1.7	1.5	1.7	2.0	2.1	2.9	3.2	3.5	3.4			
Hourly Max	6.3	5.9	6.6	6.9	6.4	5.7	6.0	6.2	5.7	6.0	5.7	5.1	5.8	6.5	5.8	15.5	7.0	8.3	7.9	4.7	8.0	10.0	14.3	8.5			

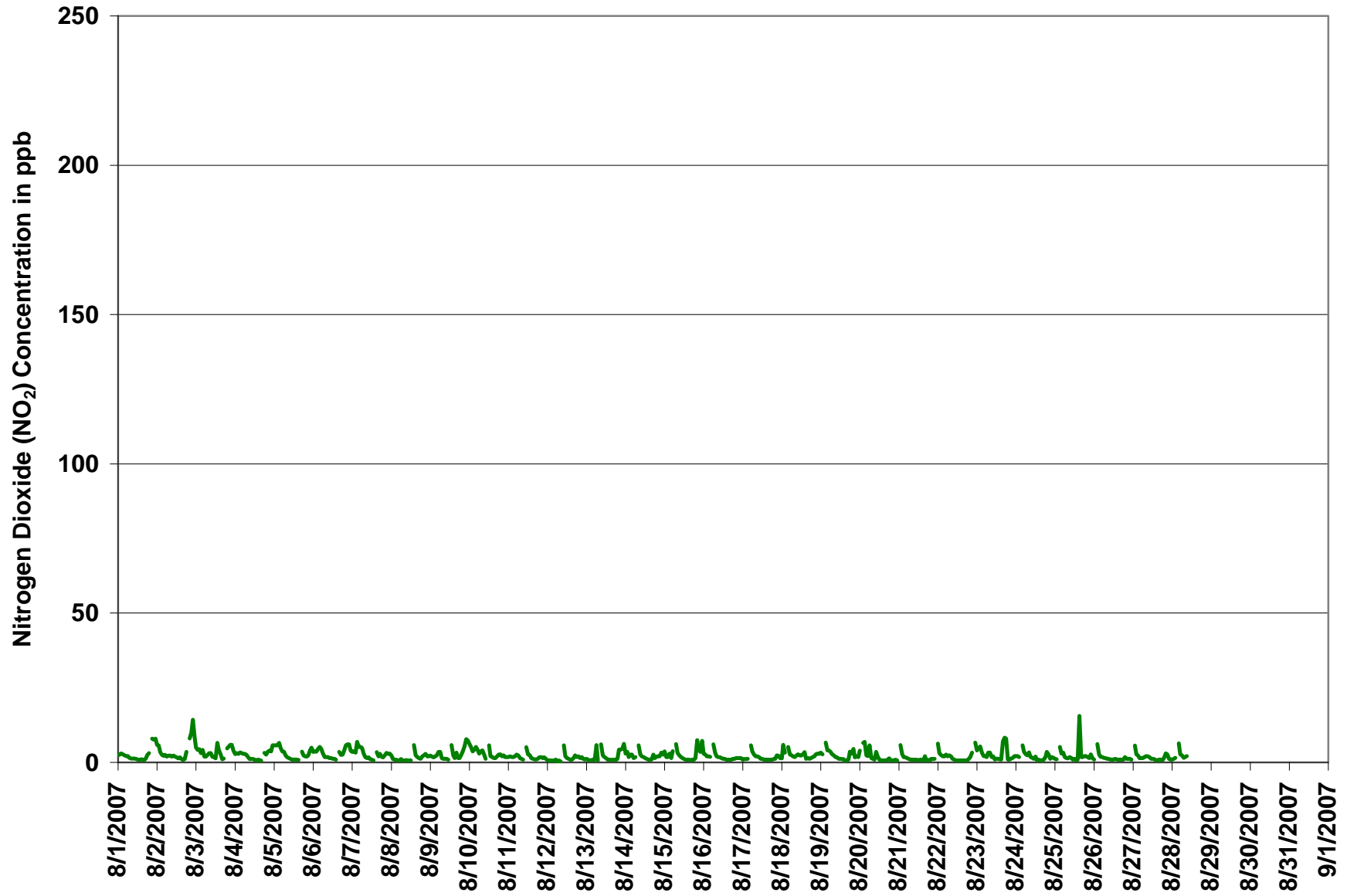
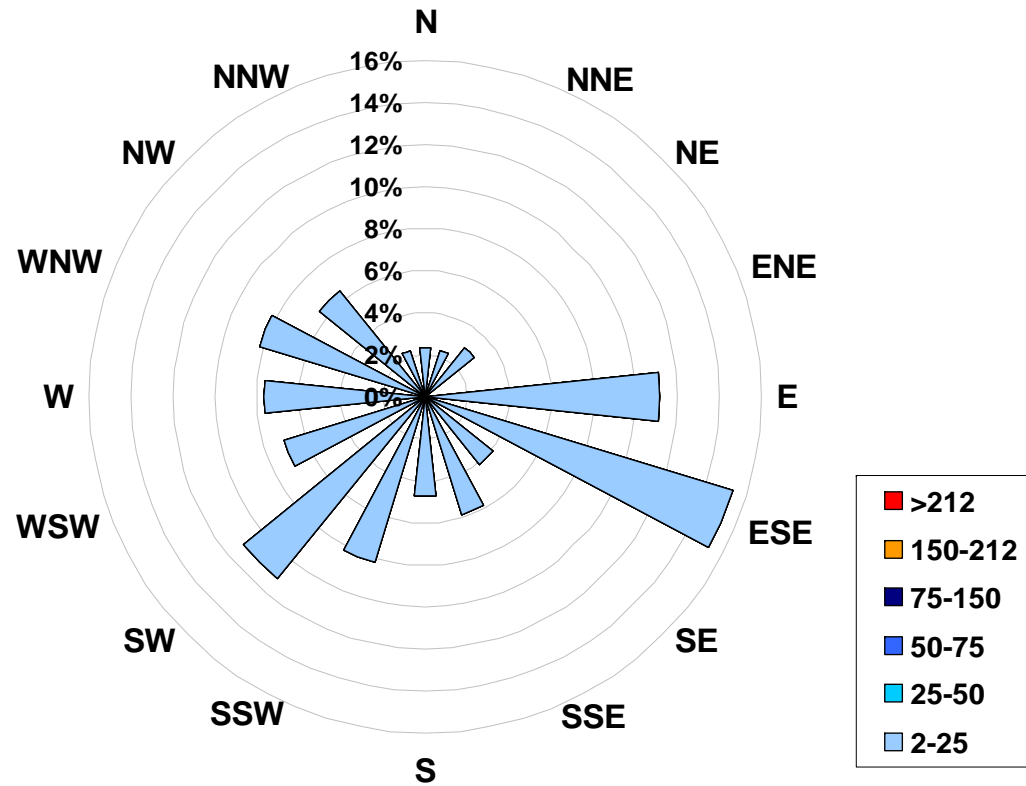


Figure 49. PASZA - Portable-Falher Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		630
25	to 50		0
50	to 75		0
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			630

PASZA - Portable-Falher Nitric Oxide Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

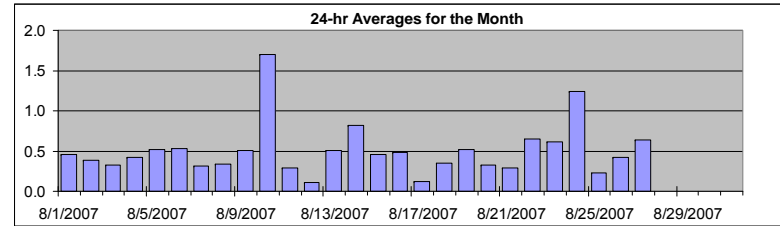
Nitric Oxide (NO)

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

Guideline Limit:
 Summary

1-hr	na	ppb	24-hr	na	ppb
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Maximum 1-hr Average:	5.5	ppb	10-Aug	7:00	8:00
Maximum 24-hr Average:	1.7	ppb	10-Aug		



AIC Time:	29 hrs	Operational Time:	630 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.8	1.6	0.5	0.3	0.2	0.0	0.0	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																								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-Aug-07	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	A	1	1	1	0.5	1.1	
2-Aug-07	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	0.4	0.7	
3-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	0.4	
4-Aug-07	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	A	0	0	1	0	1	1	0.4	0.7	
5-Aug-07	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0.5	1.4	
6-Aug-07	0	1	1	1	0	1	2	1	1	1	0	0	0	0	0	A	0	0	0	0	0	0	0	0.5	1.7	
7-Aug-07	0	0	0	1	0	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	0.8	
8-Aug-07	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	1	1	0	0	0.3	0.6	
9-Aug-07	1	0	1	1	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	3	0.5	2.8	
10-Aug-07	4	3	3	3	5	3	5	5	3	1	0	A	0	0	0	0	0	0	0	0	0	0	0	1.7	5.5	
11-Aug-07	0	0	0	0	0	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9	
12-Aug-07	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
13-Aug-07	0	0	0	0	1	1	1	1	A	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0.5	1.4	
14-Aug-07	2	2	2	2	2	2	2	A	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.8	2.4	
15-Aug-07	0	1	1	1	1	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.4	
16-Aug-07	1	1	1	2	1	A	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.7	
17-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
18-Aug-07	0	0	0	A	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0.3	1.0	
19-Aug-07	2	2	A	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.4	
20-Aug-07	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.4	
21-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.5	
22-Aug-07	0	1	1	1	1	1	2	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0.7	2.6
23-Aug-07	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0.6	1.3	
24-Aug-07	1	2	2	A	4	4	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1.2	4.2	
25-Aug-07	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	
26-Aug-07	1	A	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	1.1	
27-Aug-07	A	1	1	1	1	1	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.6	1.8	
28-Aug-07	0	0	0	A	1	2	2	2	1	1	C	C	C	C	C	C	A	S	S	S	S	S	S	N	1.8	
29-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
Hourly Avg	0.6	0.8	0.7	0.7	0.9	0.9	1.2	1.0	0.9	0.6	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5		
Hourly Max	4.1	3.2	3.1	3.5	4.6	3.9	4.7	5.5	3.2	1.9	1.3	0.6	0.6	0.6	0.6	1.7	1.2	1.2	0.5	0.5	0.5	0.9	0.9	2.8		

PASZA - Portable-Falher Oxides of Nitrogen Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

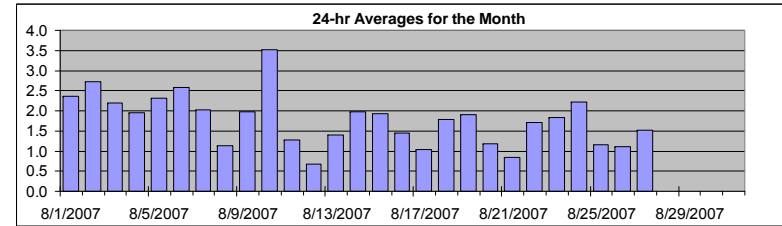
HOURLY AVERAGE TABLE

Oxides of Nitrogen (NO_x)

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

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

Maximum 1-hr Average:	9.2	ppb	2-Aug	22:00 23:00
Maximum 24-hr Average:	3.5	ppb	10-Aug	



AIC Time:	29 hrs	Operational Time:	630 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.6	4.7	2.3	1.3	0.7	0.3	0.2	1.8 ppb	1.3 ppb

Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Aug-07	2	2	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	3	A	8	8	7	2.4	7.8	
2-Aug-07	6	5	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	A	4	6	9	6	2.7	9.2	
3-Aug-07	4	2	2	3	3	1	2	2	2	2	1	1	1	1	1	1	1	A	3	4	5	4	2	2.2	4.6	
4-Aug-07	2	3	3	3	3	2	2	2	1	1	1	1	1	0	0	A	2	2	2	3	3	3	4	1.9	3.7	
5-Aug-07	4	5	5	5	4	3	3	3	2	1	1	1	1	0	0	A	2	2	1	1	2	2	3	2.3	5.4	
6-Aug-07	3	3	3	4	4	5	3	2	2	2	1	1	1	0	A	2	2	2	2	4	4	4	3	2.6	4.6	
7-Aug-07	3	3	3	4	3	3	3	2	1	1	1	1	0	0	A	2	1	2	1	1	2	2	2	2.0	4.3	
8-Aug-07	2	1	1	1	1	1	1	0	0	1	1	1	0	A	3	2	1	1	1	1	2	3	2	1.1	3.2	
9-Aug-07	2	2	2	2	2	3	2	1	1	1	1	1	A	3	2	1	1	1	1	2	2	3	3	7	2.0	7.3
10-Aug-07	9	6	6	6	8	6	6	8	5	2	1	A	3	2	1	1	1	1	2	2	1	2	1	1	3.5	8.6
11-Aug-07	1	1	1	1	2	2	2	1	1	1	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1.3	3.2
12-Aug-07	0	0	0	0	0	0	0	0	0	A	3	1	1	1	1	0	1	1	1	1	1	1	1	1	0.7	2.8
13-Aug-07	1	1	1	0	1	1	2	1	A	3	2	1	1	1	1	0	1	1	0	1	2	3	4	1.4	4.2	
14-Aug-07	3	3	3	3	3	2	3	A	6	3	2	2	1	1	1	1	1	1	1	1	1	2	2	2	2.0	5.8
15-Aug-07	2	2	2	2	2	3	A	6	3	2	1	1	1	1	0	0	0	0	1	1	3	3	3	5	1.9	5.6
16-Aug-07	3	3	2	3	2	A	5	3	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1.5	5.1
17-Aug-07	0	1	0	1	A	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1.0	3.2	
18-Aug-07	1	3	1	A	3	2	2	2	1	2	2	2	2	2	1	1	1	1	1	1	1	2	2	3	1.8	3.2
19-Aug-07	3	4	A	5	4	4	4	2	2	1	1	1	1	1	0	0	0	0	1	1	2	1	1	1	1.9	5.3
20-Aug-07	2	A	4	4	2	2	4	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1.2	4.1
21-Aug-07	A	3	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	A	0.8	3.3
22-Aug-07	4	3	3	2	2	3	3	4	2	1	0	0	0	0	0	0	0	0	1	1	2	A	6	1.7	6.0	
23-Aug-07	4	4	4	2	2	1	2	3	3	2	2	1	1	1	1	1	2	3	1	1	1	1	1	1	1.8	4.4
24-Aug-07	2	3	3	A	8	6	6	5	5	3	2	1	1	0	0	0	0	0	1	1	1	1	0	1	2.2	7.7
25-Aug-07	1	1	A	3	2	2	1	1	1	1	1	1	1	0	0	3	0	1	1	1	1	1	1	1	1.2	3.3
26-Aug-07	1	A	4	2	2	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1.1	3.7
27-Aug-07	A	4	3	3	2	2	2	3	3	2	2	1	1	1	0	0	1	0	0	1	2	1	1	0	1.5	4.2
28-Aug-07	1	1	1	A	5	3	3	2	2	2	C	C	C	C	C	C	A	S	S	S	S	S	S	S	N	4.8
29-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
Hourly Avg	2.5	2.6	2.4	2.6	2.8	2.6	2.6	2.3	2.0	1.6	1.3	1.0	0.9	0.8	0.8	0.8	0.8	0.9	1.0	1.2	1.7	2.2	2.3	2.6		
Hourly Max	8.6	6.2	5.8	6.0	7.9	6.1	6.0	7.8	5.8	3.4	2.8	3.2	3.2	3.1	3.2	3.3	2.4	3.0	2.1	3.3	4.1	7.7	9.2	7.5		

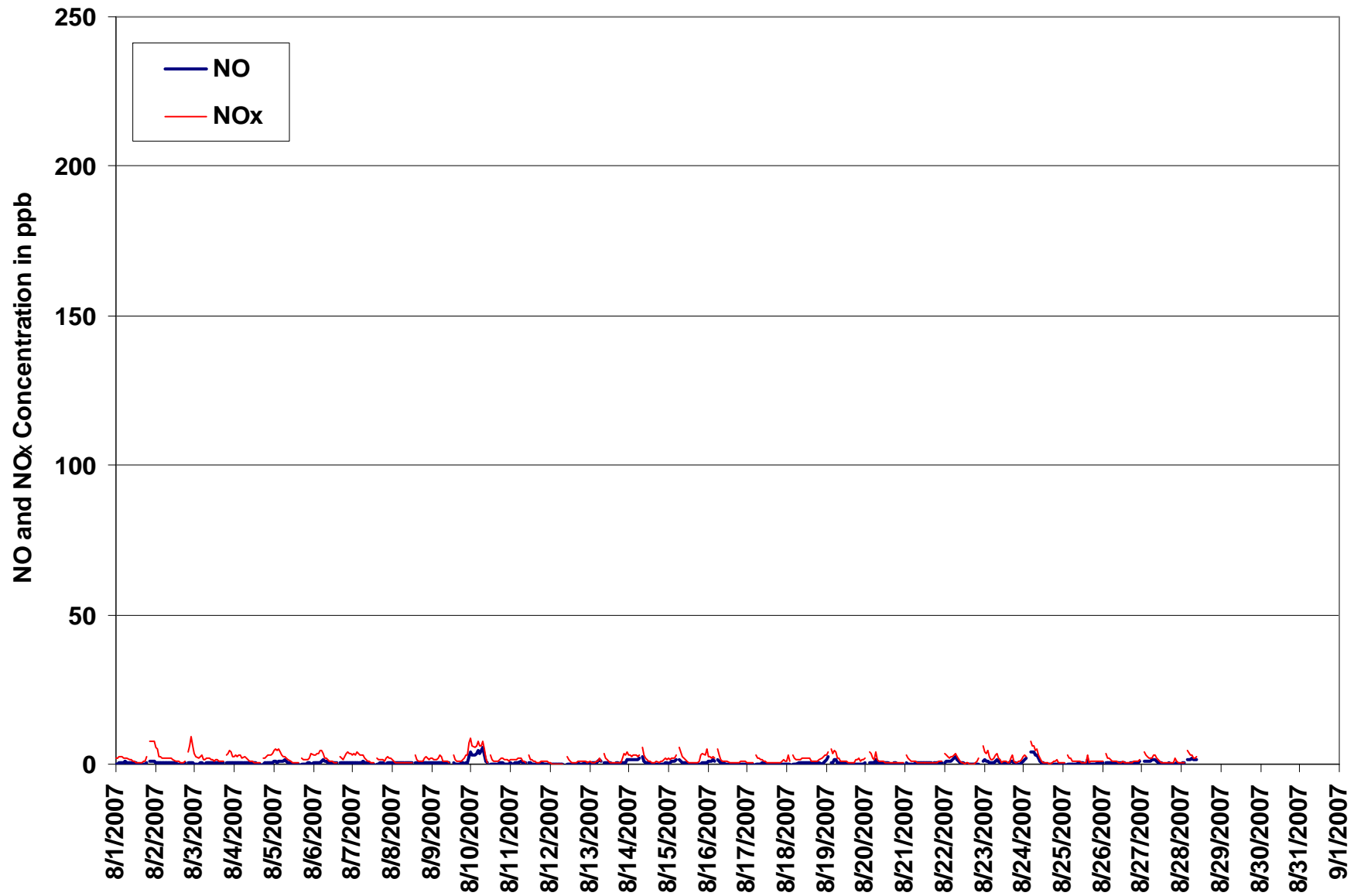


Figure 50. PASZA - Portable-Falher Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Portable-Falher
 Station Owner: PASZA

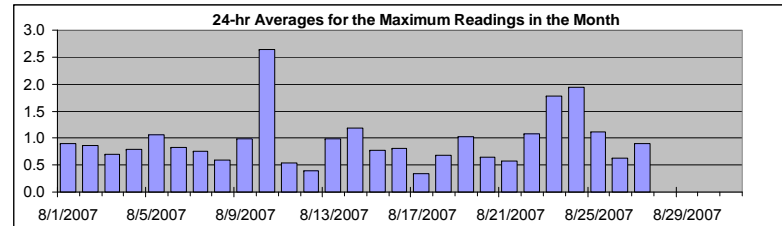
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

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

Summary

Maximum 1-hr Value:	16.9	ppb	25-Aug	15:00 16:00
Maximum 24-hr Value:	2.6	ppb	10-Aug	



AIC Time:	29 hrs	Operational Time:	630 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.4	2.7	1.0	0.6	0.4	0.3	0.3	1.0 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-Aug-07	0	0	0	1	1	1	2	1	1	1	1	1	0	0	0	0	1	1	1	A	3	2	2	0.9	3.0	
2-Aug-07	1	1	1	0	0	1	1	1	1	1	0	0	0	0	1	0	0	0	1	A	3	1	2	1	0.9	3.3
3-Aug-07	0	0	0	1	1	0	0	1	0	1	1	1	0	1	2	1	0	1	A	0	1	1	1	1	0.7	2.1
4-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	A	0	0	1	1	2	2	0.8	1.5
5-Aug-07	2	2	2	3	2	2	1	2	1	1	1	0	0	0	0	0	A	0	0	0	0	1	1	1	1.1	2.7
6-Aug-07	1	1	1	1	1	2	2	2	1	1	1	0	0	0	0	A	0	0	1	1	1	0	1	0	0.8	2.1
7-Aug-07	0	0	0	1	1	1	2	1	1	0	1	0	0	0	A	0	0	2	3	0	0	1	1	1	0.8	3.0
8-Aug-07	1	0	1	1	0	0	1	0	0	0	1	1	1	A	1	0	0	0	0	0	2	1	1	1	0.6	1.7
9-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	A	0	0	0	1	0	0	1	1	1	1	5	1.0	4.5
10-Aug-07	6	4	4	4	8	5	7	7	8	2	1	A	0	0	0	0	0	0	1	1	0	0	0	0	2.6	7.9
11-Aug-07	0	0	1	0	1	1	2	1	1	1	A	0	0	0	1	0	0	0	0	0	0	0	1	0	0.5	1.5
12-Aug-07	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	0	1	1	0	0	1	0.4	1.5
13-Aug-07	0	0	0	0	1	2	6	1	A	1	1	1	1	0	0	0	0	0	0	0	1	0	1	3	1.0	6.4
14-Aug-07	2	2	2	2	2	2	3	A	3	2	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1.2	2.7
15-Aug-07	1	1	1	2	2	2	A	2	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0.8	1.9
16-Aug-07	1	2	2	2	2	A	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	2.1
17-Aug-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.3	0.6
18-Aug-07	0	0	0	A	0	0	0	0	0	1	1	1	1	1	2	0	1	1	1	1	1	0	1	2	0.7	2.1
19-Aug-07	3	4	A	1	1	3	3	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1.0	4.2
20-Aug-07	0	A	1	1	0	1	3	1	1	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0.6	3.3
21-Aug-07	A	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	A	0.6	2.1
22-Aug-07	1	2	2	1	2	2	2	3	3	1	1	1	0	0	0	0	0	0	0	0	0	0	A	1	1.1	3.0
23-Aug-07	2	2	1	1	1	1	1	1	2	2	2	0	1	1	0	0	11	5	6	1	0	0	1	1	1.8	11.3
24-Aug-07	2	3	2	A	6	6	6	5	4	2	2	1	2	1	0	0	0	0	0	0	0	0	0	0	1.9	6.2
25-Aug-07	0	0	A	0	0	0	0	0	0	1	1	1	1	0	0	17	0	0	0	0	0	0	0	1	1.1	16.9
26-Aug-07	1	A	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	0.6	1.2
27-Aug-07	A	2	1	1	2	1	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0.9	2.1
28-Aug-07	1	1	1	A	2	2	2	2	2	2	C	C	C	C	C	C	A	S	S	S	S	S	S	S	N	2.5
29-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
Hourly Avg	1.1	1.2	1.1	1.1	1.4	1.4	2.0	1.5	1.4	0.9	0.7	0.5	0.5	0.4	0.5	1.0	0.9	0.8	0.8	0.5	0.7	0.7	0.8	1.0		
Hourly Max	6.2	4.2	4.3	4.0	7.8	6.0	6.7	7.2	7.9	2.4	2.1	1.0	1.8	1.0	2.1	16.9	11.3	5.3	5.8	0.9	3.3	3.0	2.1	4.5		

Station: Portable-Falher
 Station Owner: PASZA

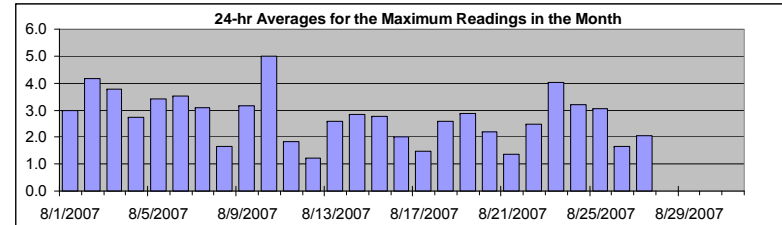
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

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

Summary

Maximum 1-hr Value:	32.2	ppb	25-Aug	15:00 16:00
Maximum 24-hr Value:	5.0	ppb	10-Aug	



AIC Time:	29 hrs	Operational Time:	630 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	11.2	7.5	3.4	2.0	1.1	0.6	0.3	2.7 ppb	2.0 ppb

Status Flag Characters

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

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Aug-07	3	3	3	3	3	3	4	2	2	2	1	1	1	1	1	1	1	2	3	4	A	9	9	8	3.0	9.3	
2-Aug-07	6	6	3	3	2	3	2	3	3	2	2	2	2	1	2	1	1	1	4	A	11	10	15	10	4.2	14.7	
3-Aug-07	5	4	5	3	5	2	2	3	3	4	2	2	1	7	5	3	1	1	A	5	5	6	6	4	3.8	7.2	
4-Aug-07	3	3	3	4	3	3	3	4	2	1	1	1	1	1	1	1	1	A	3	3	4	4	5	7	2.7	6.7	
5-Aug-07	7	7	6	9	5	5	4	4	2	2	1	1	1	1	1	1	A	3	2	2	2	2	4	5	3.4	8.9	
6-Aug-07	4	4	4	5	5	6	4	3	2	2	2	1	1	1	1	A	3	3	3	4	6	6	6	4	3.5	6.4	
7-Aug-07	3	4	3	8	5	6	6	3	2	1	2	1	1	1	A	3	2	3	4	2	2	3	3	3	3.1	7.9	
8-Aug-07	2	1	1	1	1	1	1	1	1	1	1	1	1	A	6	2	2	1	1	2	3	4	2	3	1.7	6.1	
9-Aug-07	3	3	2	3	3	4	4	2	1	1	2	1	A	6	2	1	4	1	1	3	4	5	8	9	3.2	8.7	
10-Aug-07	11	8	6	8	12	8	9	10	11	5	1	A	6	2	1	1	1	2	3	3	2	2	2	2	5.0	11.6	
11-Aug-07	2	2	2	2	2	3	3	2	1	1	A	5	2	3	1	1	1	1	1	2	1	1	2	1	1.9	5.1	
12-Aug-07	1	0	0	0	0	1	0	0	0	A	5	2	1	1	1	1	1	3	2	3	2	2	1	1	1.2	5.4	
13-Aug-07	1	1	1	1	1	2	11	1	A	6	3	2	1	1	1	1	1	1	1	1	4	4	5	9	2.6	11.5	
14-Aug-07	4	5	3	4	4	3	4	A	8	4	3	2	1	1	1	1	1	4	1	2	2	2	3	3	2.9	8.2	
15-Aug-07	4	2	2	3	3	5	A	7	3	3	2	1	1	1	1	1	1	1	1	1	7	4	3	8	2.8	7.8	
16-Aug-07	3	3	3	3	3	A	8	5	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2.0	7.5	
17-Aug-07	1	1	1	1	A	6	4	2	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1.5	5.7	
18-Aug-07	1	6	3	A	5	2	2	2	2	3	3	3	3	3	4	1	1	1	2	2	2	3	3	4	2.6	5.8	
19-Aug-07	5	5	A	7	4	6	7	3	3	2	2	1	1	1	1	1	1	4	3	4	1	2	2	2	2.9	7.2	
20-Aug-07	4	A	7	8	2	2	9	2	1	1	3	2	1	1	1	1	1	2	2	1	1	1	1	0	2.2	8.7	
21-Aug-07	A	6	2	1	1	1	3	1	1	1	1	1	1	1	1	1	3	0	1	1	2	1	1	A	1.4	5.8	
22-Aug-07	6	4	3	3	3	5	4	5	5	2	1	1	1	1	1	1	0	1	1	1	2	3	A	7	2.5	7.0	
23-Aug-07	5	5	6	3	2	2	2	4	5	3	3	1	1	1	1	1	18	11	13	1	1	1	1	3	4.0	17.9	
24-Aug-07	3	3	3	A	9	8	8	6	7	4	3	1	3	1	1	1	0	1	2	3	2	1	1	1	3.2	8.7	
25-Aug-07	1	1	A	5	3	3	2	1	1	2	2	1	1	1	1	32	1	1	2	2	1	1	2	1	3.0	32.2	
26-Aug-07	1	A	7	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1.6	6.7	
27-Aug-07	A	6	3	3	2	2	3	3	3	3	2	1	1	0	1	1	1	1	1	1	3	2	1	1	2.1	6.4	
28-Aug-07	1	2	2	A	7	4	4	3	3	3	C	C	C	C	C	C	A	S	S	S	S	S	S	S	N	6.7	
29-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
Hourly Avg	3.4	3.7	3.3	3.7	3.6	3.6	4.2	3.1	2.9	2.3	2.0	1.5	1.4	1.5	1.4	2.3	1.9	1.9	2.3	2.0	3.0	3.1	3.6	3.8			
Hourly Max	10.7	8.4	6.7	8.9	11.6	8.4	11.5	10.2	11.3	6.4	5.4	5.1	5.8	7.2	6.1	32.2	17.9	11.0	13.4	5.1	11.1	10.1	14.7	9.6			

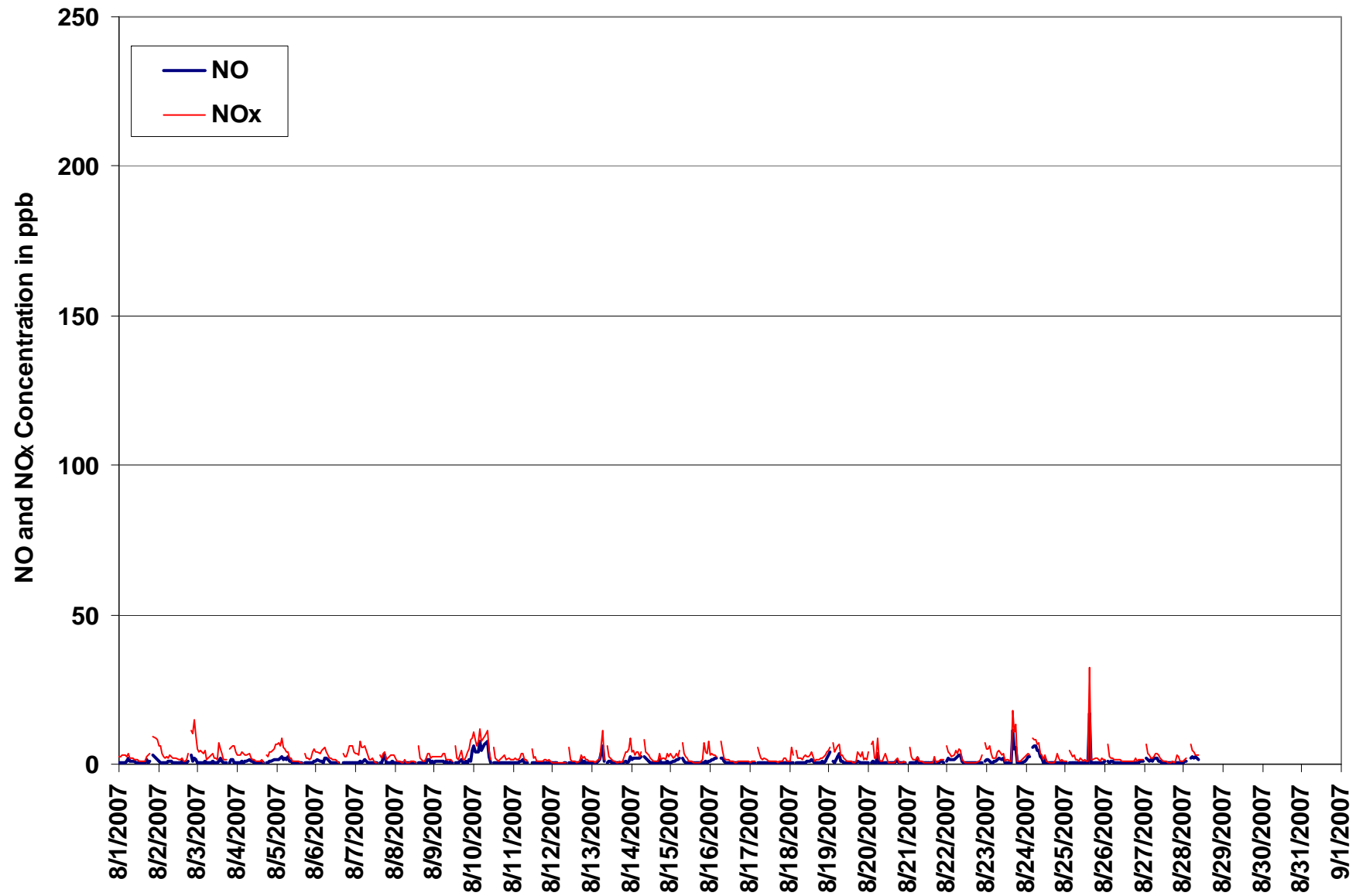


Figure 51. PASZA - Portable-Falher Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

PASZA - Portable-Falher Ozone Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

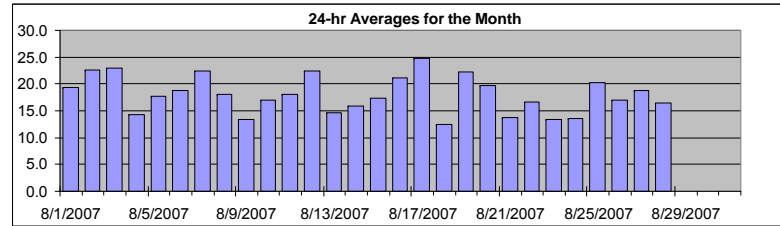
Ozone (O₃)

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

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

Number of 1-hr Exceedances:	0			
Maximum 1-hr Average:	42.7	ppb	19-Aug	16:00 17:00
Maximum 24-hr Average:	24.8	ppb	17-Aug	

AIC Time:	30 hrs	Operational Time:	652 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	36.8	32.6	25.3	18.1	9.7	3.9	1.2	17.9 ppb	18.1 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-Aug-07	21	19	15	12	9	9	9	12	15	18	22	24	27	29	30	32	33	34	33	24	A	8	6	5	19.4	34.0	
2-Aug-07	6	8	10	11	11	9	12	14	25	30	34	33	34	35	33	35	34	33	33	A	29	18	12	17	22.5	35.3	
3-Aug-07	23	24	24	20	19	25	23	18	25	22	25	29	31	31	30	30	28	27	A	29	17	9	9	10	23.0	31.3	
4-Aug-07	9	7	7	6	6	7	7	9	12	15	18	20	24	24	26	26	27	A	25	19	9	8	8	9	14.3	26.8	
5-Aug-07	6	5	4	4	3	4	5	6	11	19	26	32	32	32	36	35	A	32	28	23	25	18	14	11	17.8	36.2	
6-Aug-07	9	6	1	2	2	5	8	13	17	22	28	31	35	35	31	A	33	32	29	26	19	18	15	12	18.8	35.4	
7-Aug-07	14	12	13	9	12	13	14	20	26	28	28	27	32	34	A	32	31	29	32	32	26	19	16	15	22.4	34.1	
8-Aug-07	14	18	20	21	22	24	23	23	21	20	20	20	A	20	21	21	20	20	16	10	6	8	7	18.1	23.9		
9-Aug-07	5	8	5	5	6	7	7	8	12	13	15	19	A	22	24	26	27	24	22	18	15	11	8	2	13.4	26.6	
10-Aug-07	1	2	1	1	1	2	3	7	12	23	30	A	33	33	33	33	30	26	21	20	22	20	19	18	17.0	33.5	
11-Aug-07	16	16	11	11	10	6	7	12	17	22	A	23	25	26	27	27	27	27	25	19	17	17	14	18	18.1	27.3	
12-Aug-07	20	23	28	29	27	24	24	23	26	A	27	27	27	27	27	27	24	20	19	17	14	11	13	12	22.4	28.6	
13-Aug-07	9	9	10	8	8	6	6	11	A	15	16	19	20	20	21	21	23	24	28	21	12	10	9	8	14.6	27.8	
14-Aug-07	8	7	5	4	4	6	6	A	10	15	18	19	21	23	25	28	27	26	26	22	20	17	16	14	16.0	27.5	
15-Aug-07	17	16	12	7	4	2	A	8	14	16	23	26	27	29	30	31	31	27	27	21	14	7	6	5	17.4	31.1	
16-Aug-07	4	5	9	7	7	A	9	13	18	22	27	29	32	32	32	31	30	30	29	28	25	24	22	23	21.2	32.4	
17-Aug-07	23	24	24	23	A	24	23	22	25	24	25	26	27	30	30	31	30	30	27	25	24	21	16	16	24.8	30.6	
18-Aug-07	17	15	18	A	17	16	15	14	13	11	9	7	9	9	15	18	15	16	15	10	9	8	6	3	12.4	18.0	
19-Aug-07	2	1	A	1	2	1	3	10	13	18	26	37	40	40	39	41	43	41	31	30	24	27	21	19	22.2	42.7	
20-Aug-07	18	A	13	12	12	12	9	15	20	21	22	21	22	22	25	25	25	24	25	24	24	23	20	20	19.7	25.1	
21-Aug-07	A	16	15	15	15	14	12	11	11	11	12	14	17	19	19	17	18	17	12	12	11	9	6	A	13.7	19.0	
22-Aug-07	6	9	8	6	7	7	5	7	14	19	24	25	28	28	29	29	30	30	28	19	11	10	A	4	16.7	29.7	
23-Aug-07	5	4	3	7	5	6	4	6	7	10	21	27	27	24	21	22	23	23	22	14	13	11	7	5	13.3	27.5	
24-Aug-07	4	2	1	A	0	0	1	4	7	8	13	20	23	23	26	27	26	24	20	18	13	16	18	15	13.5	26.9	
25-Aug-07	16	22	A	27	29	23	14	13	15	16	20	21	25	25	25	24	23	27	23	20	17	17	12	9	20.2	29.0	
26-Aug-07	8	A	9	9	8	10	14	14	13	15	18	18	20	23	25	30	30	28	25	19	14	15	14	11	16.9	30.1	
27-Aug-07	A	8	8	8	7	5	5	10	14	19	24	29	32	33	34	34	34	32	30	22	15	11	9	9	18.9	34.3	
28-Aug-07	6	4	4	A	5	4	7	8	11	16	23	33	27	30	30	28	28	29	28	24	14	7	6	6	16.4	33.1	
29-Aug-07	8	9	10	A	10	10	10	10	11	C	C	C	A	S	S	S	S	S	S	S	S	S	S	S	N	10.8	
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0	
Hourly Avg	10.9	11.1	10.7	10.6	9.6	10.1	10.2	12.2	15.5	18.1	22.1	24.4	26.5	27.3	27.5	28.2	27.8	27.2	25.2	21.2	17.1	14.2	12.2	11.2			
Hourly Max	23.5	24.1	27.5	28.6	29.0	25.0	23.7	23.2	26.3	29.8	34.2	37.4	39.8	39.7	38.9	41.4	42.7	41.4	33.4	32.2	28.6	26.8	22.3	23.3			

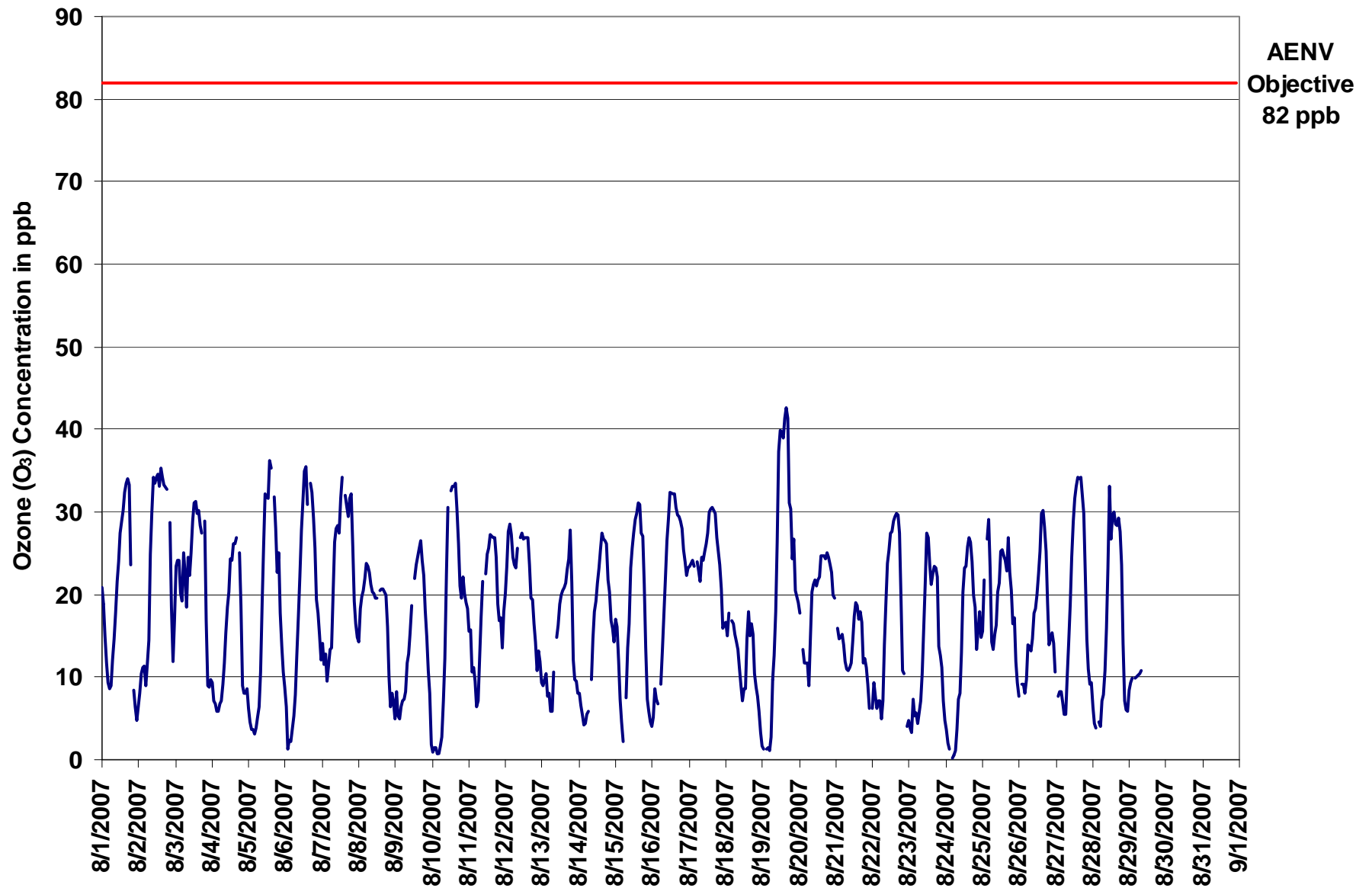


Figure 52. PASZA - Portable-Falher Ozone 1-hr Average Monthly Trend

Station: Portable-Falher
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

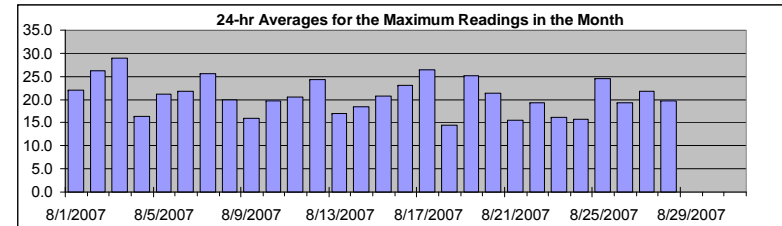
Ozone (O₃)

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

Summary

Maximum 1-hr Value:	50.2	ppb	3-Aug	13:00 14:00
Maximum 24-hr Value:	28.8	ppb	3-Aug	

AIC Time:	30 hrs	Operational Time:	652 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	40.4	35.9	28.2	20.9	12.0	6.0	2.2	20.6 ppb	20.9 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-Aug-07	22	20	17	14	11	10	11	14	17	20	24	26	29	31	33	34	35	36	36	36	A	13	9	6	21.9	36.2	
2-Aug-07	9	12	12	12	13	11	14	19	29	33	37	35	36	37	35	37	36	36	36	A	35	33	19	26	26.2	37.1	
3-Aug-07	26	30	28	24	27	27	28	22	35	34	34	34	33	50	39	37	32	30	A	33	26	11	12	10	28.8	50.2	
4-Aug-07	11	9	8	7	7	8	10	11	16	17	20	23	26	26	29	28	29	A	26	24	13	11	10	12	16.4	28.8	
5-Aug-07	8	6	7	6	4	6	6	10	13	25	33	34	34	34	39	38	A	36	33	28	30	25	20	14	21.2	38.7	
6-Aug-07	15	12	3	4	3	8	10	16	20	26	31	34	37	37	36	A	35	35	31	29	23	20	18	16	21.7	37.4	
7-Aug-07	18	14	14	13	13	17	16	25	29	30	31	30	34	37	A	35	35	33	35	35	30	24	21	17	25.6	37.5	
8-Aug-07	17	20	22	22	24	25	25	24	23	22	22	21	21	A	22	23	22	22	22	20	13	9	9	9	19.8	25.2	
9-Aug-07	6	10	7	6	7	8	9	10	13	15	18	21	A	23	25	27	28	27	24	23	17	17	16	8	15.9	28.4	
10-Aug-07	2	3	4	1	2	3	5	10	17	28	33	A	34	34	35	36	32	30	24	25	25	27	22	20	19.7	35.5	
11-Aug-07	17	18	15	14	12	9	11	17	20	25	A	24	26	27	29	28	28	28	28	21	19	19	17	21	20.6	28.9	
12-Aug-07	21	27	28	30	28	26	25	25	27	A	28	29	28	28	28	28	27	23	22	20	19	13	15	14	24.4	29.5	
13-Aug-07	10	10	12	10	10	8	9	13	A	18	20	20	21	22	22	23	26	27	29	28	16	13	11	12	16.9	29.1	
14-Aug-07	9	8	6	5	5	6	7	A	13	17	19	21	23	26	27	29	28	30	31	26	23	20	21	21	18.4	30.6	
15-Aug-07	25	19	15	11	8	3	A	13	15	21	27	28	31	31	31	33	33	32	31	25	18	12	7	6	20.7	32.7	
16-Aug-07	5	8	10	9	8	A	11	16	20	24	28	32	37	36	33	33	31	31	31	29	27	24	23	25	23.0	37.4	
17-Aug-07	24	25	25	25	A	25	24	24	25	26	26	28	30	31	32	32	31	31	29	27	25	23	22	18	26.4	32.0	
18-Aug-07	19	19	19	A	17	17	16	15	15	13	11	8	10	11	20	21	17	18	18	14	11	9	8	5	14.4	20.9	
19-Aug-07	5	3	A	2	2	2	6	12	18	21	36	40	42	42	41	44	44	45	39	33	28	29	24	21	25.2	45.3	
20-Aug-07	20	A	14	13	13	13	13	18	22	22	23	25	23	25	26	26	26	25	26	25	25	24	23	21	21.4	26.4	
21-Aug-07	A	18	16	15	16	15	14	12	12	12	13	16	19	22	20	19	20	20	14	14	14	11	9	A	15.4	21.8	
22-Aug-07	9	13	10	8	9	9	8	11	17	24	27	27	29	30	31	31	31	31	30	24	13	12	A	7	19.2	31.4	
23-Aug-07	7	6	6	10	6	7	6	8	10	12	27	30	29	27	26	25	26	26	26	17	15	15	10	6	16.0	29.7	
24-Aug-07	5	3	2	A	1	2	2	6	9	10	18	25	25	25	28	29	28	27	21	20	17	19	20	17	15.7	29.0	
25-Aug-07	22	25	A	30	31	28	18	18	17	18	25	25	28	28	27	32	37	31	30	28	22	21	14	10	24.5	37.2	
26-Aug-07	9	A	12	10	9	13	16	15	15	17	19	20	22	25	28	35	32	32	28	23	15	17	16	13	19.2	35.1	
27-Aug-07	A	9	10	9	9	7	8	13	17	23	29	31	34	35	36	37	37	36	33	28	19	13	12	15	21.7	37.2	
28-Aug-07	12	8	9	A	11	7	8	9	13	21	30	36	30	32	32	30	30	31	31	27	24	9	8	7	19.8	36.4	
29-Aug-07	10	10	11	A	11	11	11	12	12	C	C	C	A	S	S	S	S	S	S	S	S	S	S	S	12.0		
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
Hourly Avg	13.4	13.5	12.6	12.4	11.4	12.0	12.3	14.9	18.2	21.3	25.5	26.7	28.6	30.2	30.0	30.7	30.3	30.0	28.3	25.2	20.8	17.6	15.4	14.0			
Hourly Max	26.2	29.8	28.5	30.1	30.8	28.2	27.7	25.2	35.4	34.3	37.1	39.8	41.7	50.2	41.0	44.0	44.4	45.3	39.0	35.5	35.1	32.7	24.2	25.6			

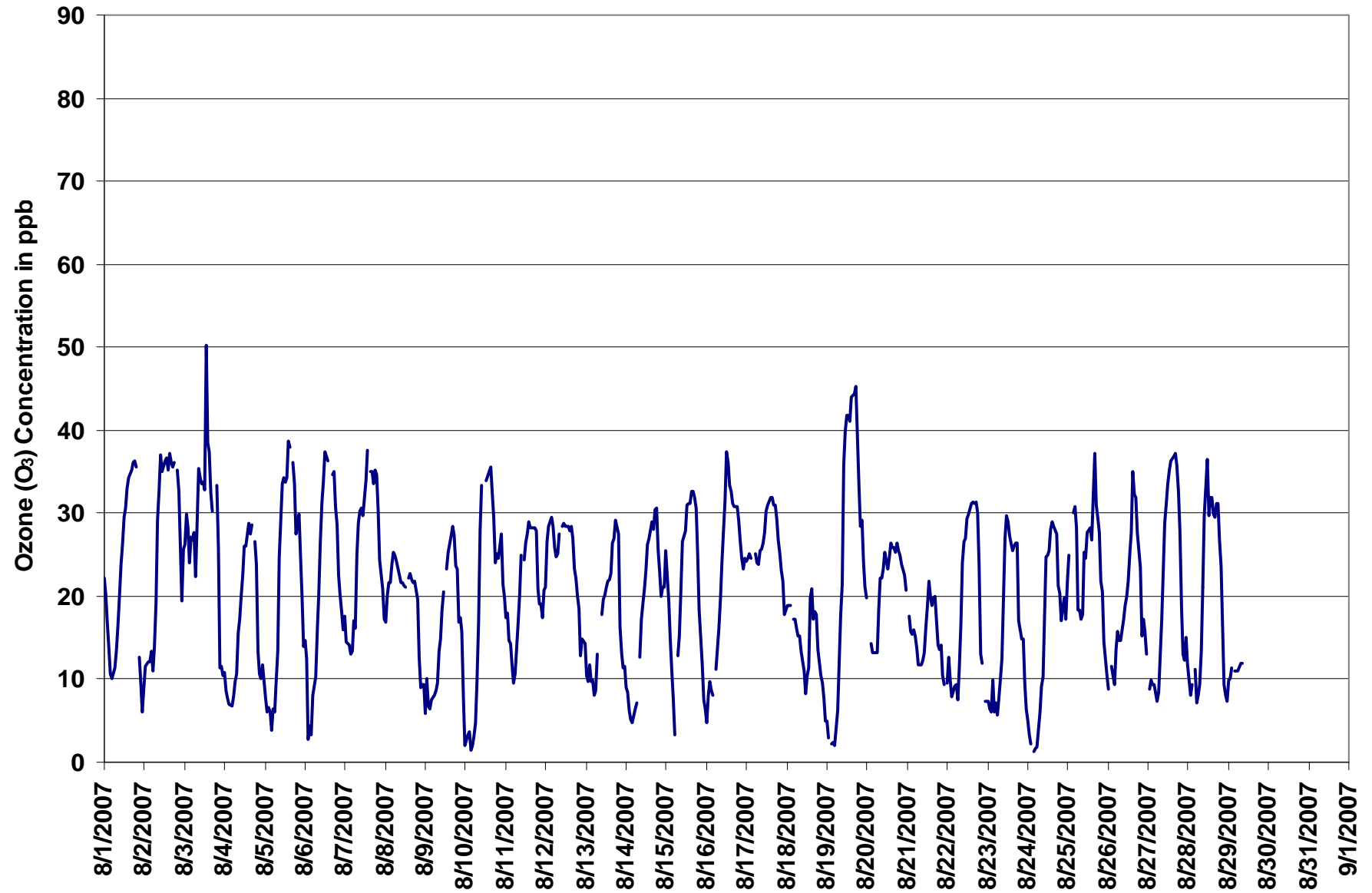
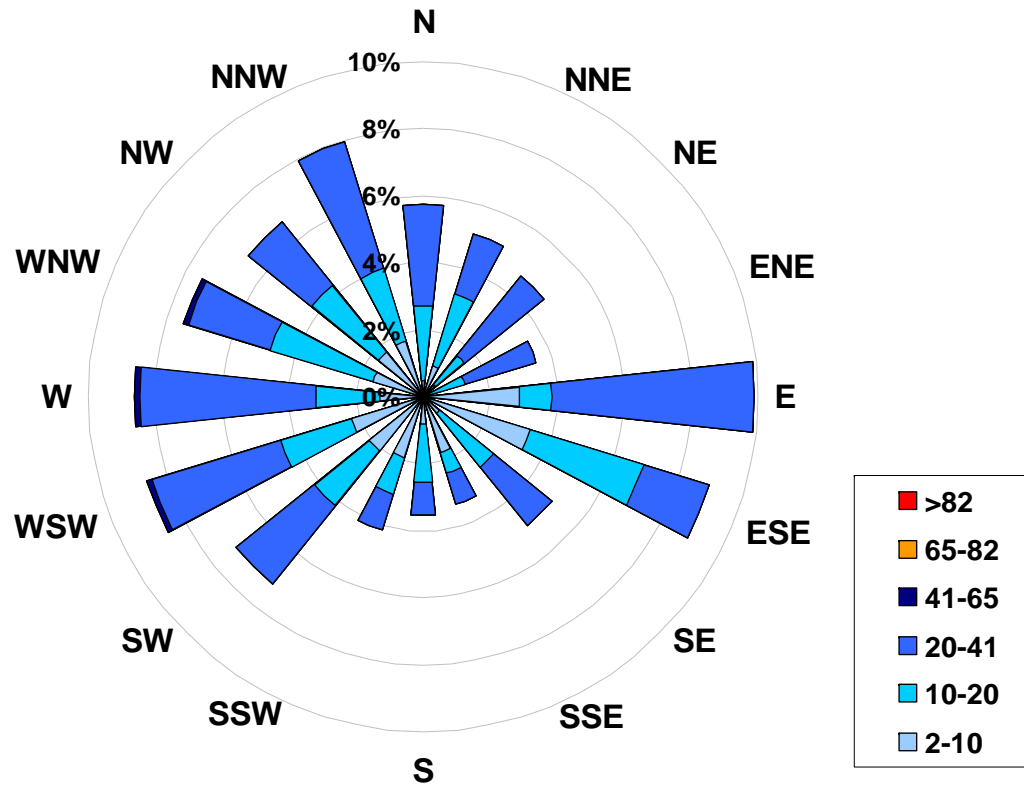


Figure 53. PASZA - Portable-Falher Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	169	
10	to 20	194	
20	to 41	286	
41	to 65	3	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			652

PASZA - Portable-Falher Ozone Eight Hour Average Summary

Station: Portable-Falher
 Station Owner: PASZA

EIGHT HOUR RUNNING AVERAGE TABLE

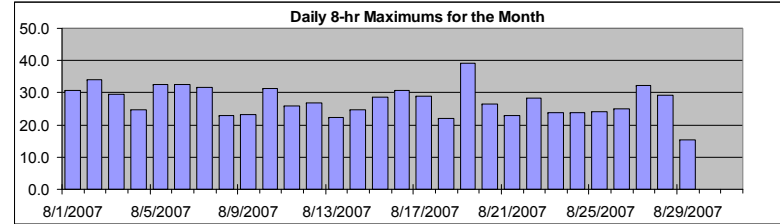
Ozone (O₃)

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

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

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	39.0 ppb 19-Aug 18:00 19:00

Percentile	99	95	75	50	25	5	1
	33.9	30.4	23.7	18.6	11.7	5.9	2.3



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																								Daily Maximum
	Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	
1-Aug-07	20	20	19	18	17	16	14	13	12	12	13	15	17	19	22	25	27	29	30	30	31	28	25	21	30.8
2-Aug-07	17	13	10	8	8	8	9	10	13	15	18	21	24	27	30	32	34	34	34	34	33	31	28	25	34.0
3-Aug-07	24	22	21	21	20	21	22	22	22	22	22	23	25	25	26	28	28	29	30	30	28	24	21	18	29.6
4-Aug-07	16	13	12	9	8	7	7	7	7	9	10	12	14	16	19	21	23	24	25	24	22	20	17	15	24.7
5-Aug-07	12	11	8	6	6	5	5	5	5	7	10	13	17	20	24	28	30	32	32	31	30	28	25	21	32.4
6-Aug-07	20	17	13	11	8	6	6	6	7	9	12	16	20	24	27	29	31	32	33	32	29	27	25	23	32.5
7-Aug-07	21	18	16	14	13	13	12	13	15	17	19	21	24	26	28	30	30	31	31	32	31	29	27	25	31.7
8-Aug-07	23	22	20	19	18	19	20	21	21	22	22	22	21	21	21	20	20	20	20	20	18	17	15	14	23.0
9-Aug-07	12	10	8	7	6	6	6	7	7	8	9	11	12	14	16	19	21	22	23	23	22	21	19	16	23.3
10-Aug-07	13	10	7	5	3	2	1	2	4	6	10	11	16	20	24	28	31	31	30	29	27	26	24	22	31.3
11-Aug-07	20	19	18	17	15	13	12	11	11	12	12	14	16	19	22	24	25	26	26	25	24	23	21	20	25.9
12-Aug-07	19	19	19	21	22	23	24	25	25	26	26	26	26	26	26	27	26	26	25	23	22	20	18	16	26.8
13-Aug-07	14	13	12	11	10	9	9	8	8	9	10	11	13	15	17	19	19	21	22	22	21	20	19	17	22.4
14-Aug-07	15	13	10	8	7	6	6	6	6	7	9	11	13	16	19	20	22	23	25	25	25	24	23	21	24.8
15-Aug-07	20	19	17	15	13	11	10	10	9	9	11	13	17	20	22	25	27	28	29	28	26	24	21	17	28.6
16-Aug-07	14	11	9	7	6	6	6	8	10	12	15	18	21	23	26	28	29	30	31	30	30	29	27	26	30.6
17-Aug-07	26	25	24	24	23	23	24	23	23	24	24	24	25	25	26	27	28	29	29	29	28	27	25	24	29.0
18-Aug-07	22	20	19	18	17	16	16	16	16	15	14	13	12	11	11	11	12	12	13	13	13	13	12	10	21.9
19-Aug-07	9	7	6	4	3	2	2	3	4	7	9	14	18	23	28	32	36	38	39	38	36	35	32	30	39.0
20-Aug-07	26	24	22	19	17	15	13	13	13	14	15	16	18	19	21	22	23	23	24	24	24	24	24	23	26.4
21-Aug-07	23	22	20	19	18	16	15	14	13	13	13	13	13	13	14	15	16	17	17	16	16	14	13	12	22.8
22-Aug-07	10	9	9	8	7	7	7	7	8	9	11	14	16	19	22	24	26	28	28	27	25	23	22	19	28.2
23-Aug-07	15	12	8	6	6	5	5	5	6	8	11	14	16	18	20	22	24	24	24	22	20	19	17	15	23.8
24-Aug-07	12	10	7	6	4	3	2	2	2	3	5	7	10	12	16	18	21	23	24	24	22	21	20	19	23.7
25-Aug-07	17	17	17	18	20	21	21	21	21	20	20	19	19	19	20	22	23	24	24	24	23	22	20	18	24.1
26-Aug-07	17	15	13	12	10	9	10	10	11	11	12	14	15	17	18	20	22	24	25	25	24	23	22	20	25.0
27-Aug-07	18	15	13	11	10	9	8	7	8	10	12	14	17	21	24	27	30	32	32	31	29	27	23	20	32.2
28-Aug-07	17	13	10	8	7	6	6	5	6	8	10	13	16	19	22	25	27	29	29	28	26	24	21	18	29.2
29-Aug-07	15	13	11	9	8	8	9	10	10	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	15.3
30-Aug-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
31-Aug-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

Hourly Max 26.4 24.9 24.3 23.7 23.5 23.5 24.1 24.8 25.5 25.8 25.7 25.5 25.4 27.1 29.8 32.4 35.5 38.4 39.0 38.2 36.2 34.6 32.3 29.5

PASZA - Portable-Falher Total Reduced Sulphur Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

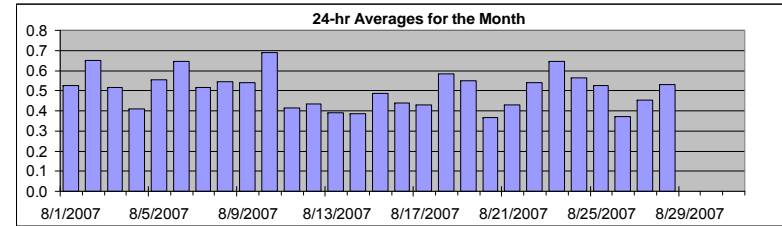
HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

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

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

Maximum 1-hr Average:	2.0	ppb	10-Aug	6:00 7:00
Maximum 24-hr Value:	0.7	ppb	10-Aug	



AIC Time:	30 hrs	Operational Time:	650 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.2	0.9	0.6	0.5	0.4	0.3	0.3	0.5 ppb	0.5 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-Aug-07	0	0	0	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	1	A	1	1	1	0.5	1.1		
2-Aug-07	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	0.6	1.2		
3-Aug-07	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	A	0	0	1	1	1	0.5	0.7		
4-Aug-07	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	1	1	0	1	0.4	0.6		
5-Aug-07	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	A	0	0	1	1	1	1	0.6	0.8		
6-Aug-07	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	1	1	1	0.6	1.3		
7-Aug-07	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	A	0	0	0	1	0	1	1	1	0.5	0.7		
8-Aug-07	1	1	0	0	1	0	0	0	0	1	1	1	A	1	1	0	1	0	1	0	1	1	1	1	0.5	0.7		
9-Aug-07	1	1	0	0	1	1	1	1	1	1	1	0	A	0	0	0	0	0	0	0	0	0	0	1	0.5	0.8		
10-Aug-07	1	1	1	1	1	1	2	2	1	1	0	A	0	0	0	0	0	0	0	1	1	0	0	0	0.7	2.0		
11-Aug-07	1	0	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0.4	0.6		
12-Aug-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0.4	0.6	
13-Aug-07	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0.4	0.8		
14-Aug-07	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.4	1.2		
15-Aug-07	0	0	0	0	0	1	A	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0.5	0.8		
16-Aug-07	1	1	1	0	1	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8		
17-Aug-07	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	0.7		
18-Aug-07	1	1	1	A	1	1	0	0	1	1	0	0	1	1	1	1	1	1	0	1	1	1	1	1	0.6	0.8		
19-Aug-07	1	1	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.5	1.3		
20-Aug-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.4	0.9		
21-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	A	0.4	0.6		
22-Aug-07	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	A	1	0.5	0.7		
23-Aug-07	1	1	1	1	1	1	1	1	1	1	1	0	0	0	C	C	1	0	0	0	0	0	0	1	0.6	1.0		
24-Aug-07	1	1	1	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.6	1.0		
25-Aug-07	1	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0.5	1.1		
26-Aug-07	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7		
27-Aug-07	A	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0.5	0.7		
28-Aug-07	1	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.5	0.9		
29-Aug-07	1	1	0	A	1	1	1	1	0	C	C	C	A	S	S	S	S	S	S	S	S	S	S	S	1.0	1.0		
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			
Hourly Avg	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6			
Hourly Max	1.0	1.3	1.2	1.3	1.2	1.4	2.0	1.7	1.2	0.9	0.6	0.5	0.6	0.6	0.5	0.6	0.5	0.6	0.5	0.6	0.6	0.8	0.9	1.2	1.1	1.1		

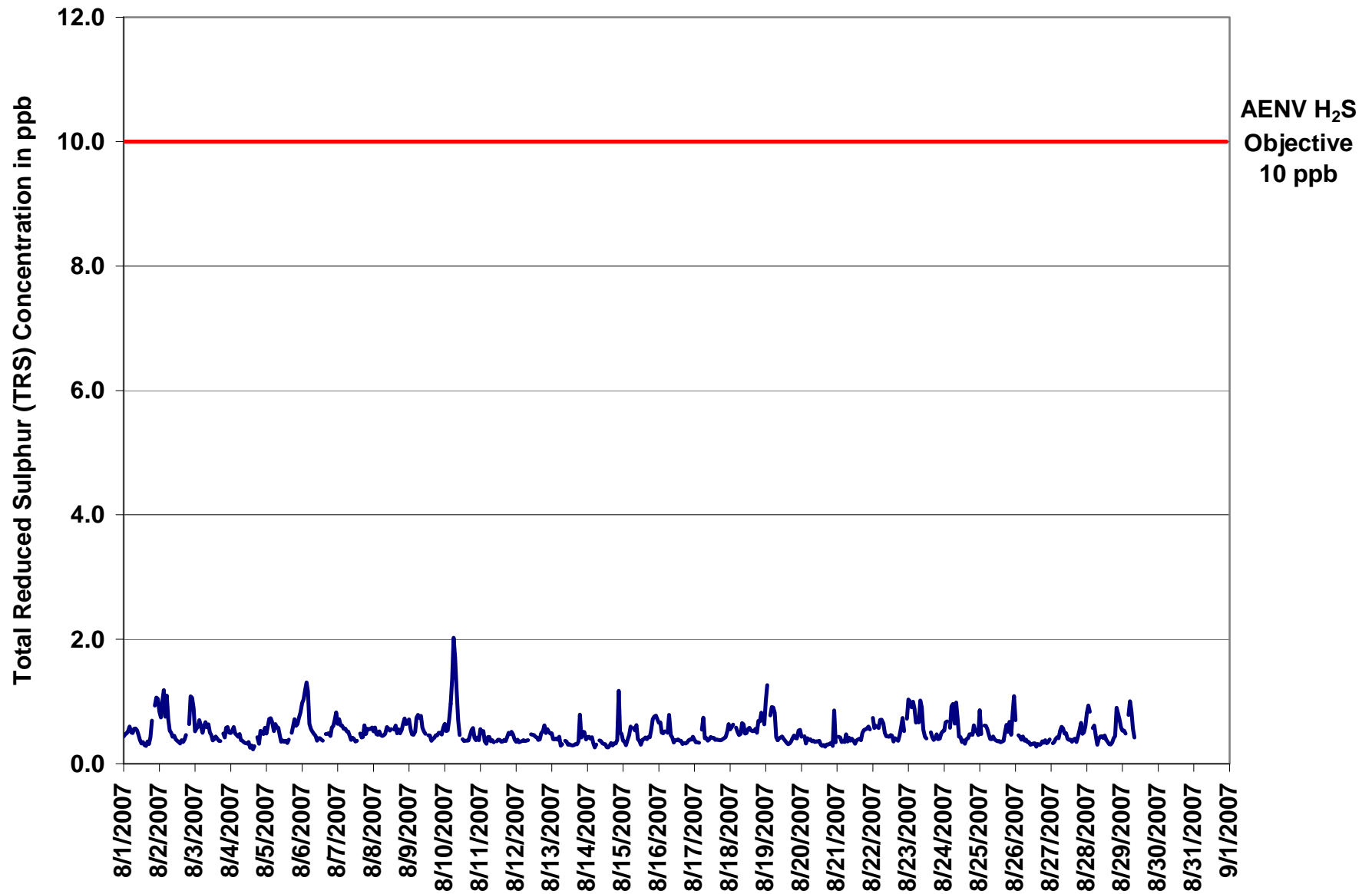


Figure 54. PASZA - Portable-Falher Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Portable-Falher
 Station Owner: PASZA

INSTANTANEOUS (30 Second) MAXIMUM TABLE

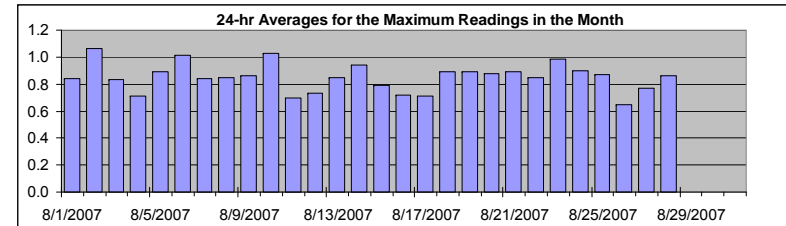
Total Reduced Sulphur (TRS)

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

Summary

Maximum 1-hr Value:	7.3	ppb	14-Aug	21:00 22:00
Maximum 24-hr Value:	1.1	ppb	2-Aug	

AIC Time:	30 hrs	Operational Time:	650 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	92.1%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.1	1.4	0.9	0.8	0.7	0.6	0.5	0.9 ppb	0.8 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	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	24-hour Average	Daily Maximum
1-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	2	2	1	0.8	1.6
2-Aug-07	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	2	2	2	1.1	1.9
3-Aug-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	0.8	1.2
4-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	A	1	1	1	1	1	1	0.7	1.2
5-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	2	1	0.9	1.5
6-Aug-07	2	2	1	2	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.0	1.9
7-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	2	1	1	1	1	1	0.8	1.8
8-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.8	1.1
9-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
10-Aug-07	1	1	1	1	1	2	2	2	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.3
11-Aug-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
12-Aug-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	0.7	1.0
13-Aug-07	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	4	1	1	1	1	0.8	4.3
14-Aug-07	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	7	1	1	0.9	7.3
15-Aug-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	0.8	1.2
16-Aug-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	1.2
17-Aug-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
18-Aug-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	0.9	1.3
19-Aug-07	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.9
20-Aug-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	1	0.9	6.0
21-Aug-07	A	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	A	0.9	2.8
22-Aug-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	0.8	1.2
23-Aug-07	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	1	1	1	1	1	1	1	1	1	1.0	1.5
24-Aug-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	0.9	1.4
25-Aug-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	0.9	1.5
26-Aug-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	0.7	1.0
27-Aug-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	1.1
28-Aug-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	0.9	1.4
29-Aug-07	1	1	1	A	1	1	1	1	1	C	C	C	A	S	S	S	S	S	S	S	S	S	S	S	N	1.2
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	0.0
Hourly Avg	1.0	1.0	0.9	0.9	0.9	0.9	1.0	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.8	0.9	0.9	1.2	1.2	0.9		
Hourly Max	1.6	1.9	1.5	1.9	1.9	2.2	2.8	2.2	1.7	1.3	1.0	0.9	1.0	1.0	0.8	0.8	0.8	2.1	1.8	4.3	1.5	7.3	6.0	1.9		

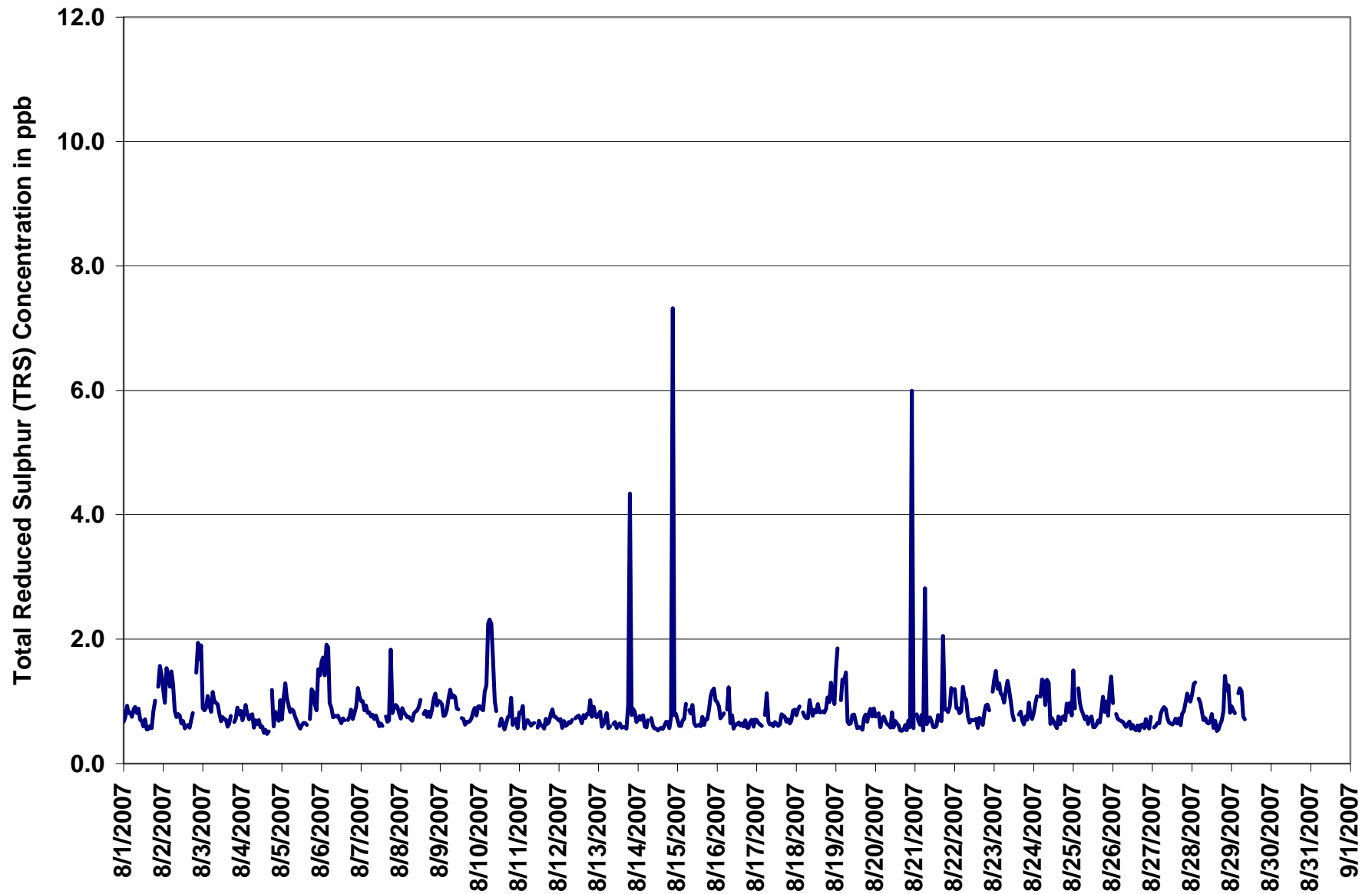
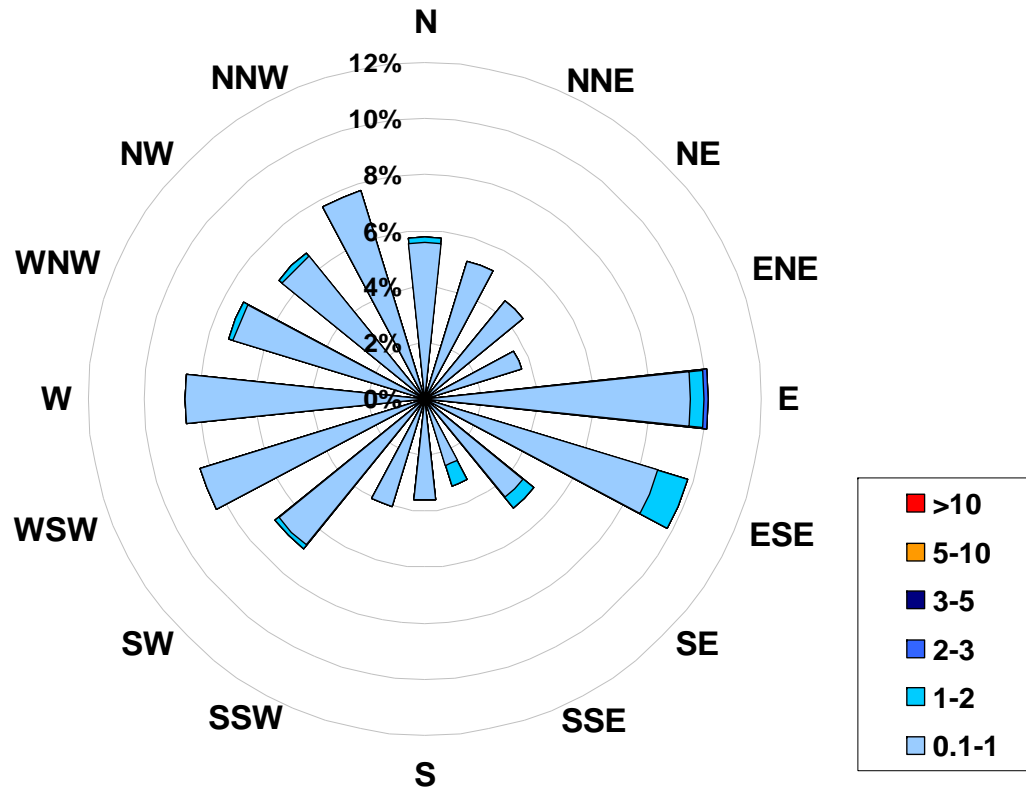


Figure 55. PASZA - Portable-Falher Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

**1-hr Average Concentration Rose for Total Reduced Sulphur (in ppb)
 Located at the Portable-Falher Site for August 2007**



Calms: 0%

Frequency Distribution of TRS in ppb			Frequency (hrs)
Range			
0.1	<	1	627
1	to	2	22
2	to	3	1
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			650

PASZA - Portable-Falher Relative Humidity Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

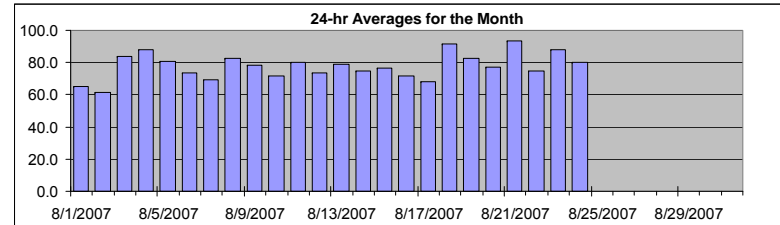
HOURLY AVERAGE TABLE

Relative Humidity (RH)

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

Summary

Maximum 1-hr Average:	100.0	%	6-Aug	3:00 4:00
Maximum 24-hr Value:	93.1	%	21-Aug	



AIC Time:	0 hrs	Operational Time:	592 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	86.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	100.0	98.8	93.0	81.4	64.2	48.2	39.1	78.0 %	81.4 %

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																								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-Aug-07	78	77	80	83	87	87	83	74	69	65	62	59	51	47	45	42	40	40	42	51	66	71	76	86	65.1	87.1
2-Aug-07	87	89	90	92	92	95	91	82	66	60	57	55	49	42	37	36	34	35	35	42	39	47	57	64	61.5	95.2
3-Aug-07	61	77	92	93	91	91	93	92	87	90	87	81	77	73	70	68	70	71	79	85	94	97	98	99	83.8	98.6
4-Aug-07	98	99	99	99	99	98	98	98	96	93	90	89	82	78	73	66	62	69	71	83	92	94	95	95	88.2	98.9
5-Aug-07	97	96	98	99	99	99	99	97	92	79	70	60	62	62	52	54	57	64	64	75	84	92	89	96	80.7	99.2
6-Aug-07	98	100	100	100	100	100	99	95	89	82	71	60	53	47	46	48	48	46	47	52	63	66	71	76	73.2	100.0
7-Aug-07	77	79	82	83	79	75	77	69	61	59	60	63	55	51	51	68	58	58	51	69	80	84	90	90	69.6	90.1
8-Aug-07	91	89	85	86	88	88	93	94	88	83	84	90	80	73	67	66	70	70	69	76	81	87	90	90	82.4	94.1
9-Aug-07	93	91	94	93	93	93	93	92	86	83	79	73	67	63	54	49	49	60	64	67	74	84	89	93	78.2	93.6
10-Aug-07	95	96	98	98	99	99	96	91	80	61	47	44	40	39	39	38	46	55	57	59	77	80	90	96	71.7	98.9
11-Aug-07	98	97	98	96	97	97	98	95	87	82	78	75	68	67	60	59	58	56	61	72	80	80	85	79	80.0	98.1
12-Aug-07	79	74	66	65	75	80	74	71	65	62	60	58	58	56	55	54	67	85	86	90	94	96	94	95	73.4	96.4
13-Aug-07	96	95	93	95	95	96	96	91	88	83	78	71	67	65	62	61	62	60	50	62	72	78	83	88	78.6	96.2
14-Aug-07	93	95	97	98	98	98	95	93	85	72	65	64	60	54	48	45	52	56	54	63	70	75	78	82	74.6	98.0
15-Aug-07	79	83	91	95	96	97	98	97	93	87	76	69	62	56	55	51	50	54	54	63	71	81	86	85	76.3	98.3
16-Aug-07	92	92	91	90	93	94	92	87	77	68	62	58	55	54	52	51	51	52	52	57	64	72	81	77	71.4	93.8
17-Aug-07	75	72	70	69	71	69	71	76	73	71	68	63	58	54	53	53	55	57	64	69	75	77	82	83	67.9	82.9
18-Aug-07	88	88	88	86	88	89	90	88	88	89	95	96	93	93	87	86	94	92	92	95	96	96	98	99	91.4	99.5
19-Aug-07	100	100	100	100	100	100	100	100	100	100	95	78	68	61	56	49	47	49	58	71	80	85	89	92	82.5	100.0
20-Aug-07	90	89	88	88	89	89	89	78	66	63	64	75	91	79	68	62	62	60	63	69	72	74	90	92	77.1	91.6
21-Aug-07	92	94	95	96	96	95	96	96	95	94	96	94	94	92	92	90	85	86	92	92	91	92	94	95	93.1	96.4
22-Aug-07	96	94	95	98	99	100	99	95	88	75	63	58	53	55	53	51	49	48	51	65	74	77	79	85	75.0	99.8
23-Aug-07	90	93	91	93	94	93	95	94	93	91	80	74	74	74	87	91	83	81	77	89	92	96	95	96	88.2	96.3
24-Aug-07	98	100	100	100	100	100	99	95	92	92	83	71	62	58	55	51	50	55	66	70	80	80	81	91	80.3	99.9
25-Aug-07	97	97	98	98	97	97	98	96	95	93	86	84	78	75	77	76	N	N	N	N	N	N	N	N		98.2
26-Aug-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		
27-Aug-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		
28-Aug-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		
29-Aug-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	S	S	S	S	S	S	S	S	S		
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
Hourly Avg	89.5	90.2	91.1	91.7	92.6	92.7	92.5	89.5	84.0	79.0	74.2	70.5	66.3	62.7	59.7	58.6	58.3	60.9	62.5	70.2	77.5	81.7	85.8	88.6		
Hourly Max	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.7	96.1	93.9	93.2	91.7	91.2	94.1	91.8	92.4	94.6	96.3	97.4	98.0	99.5		

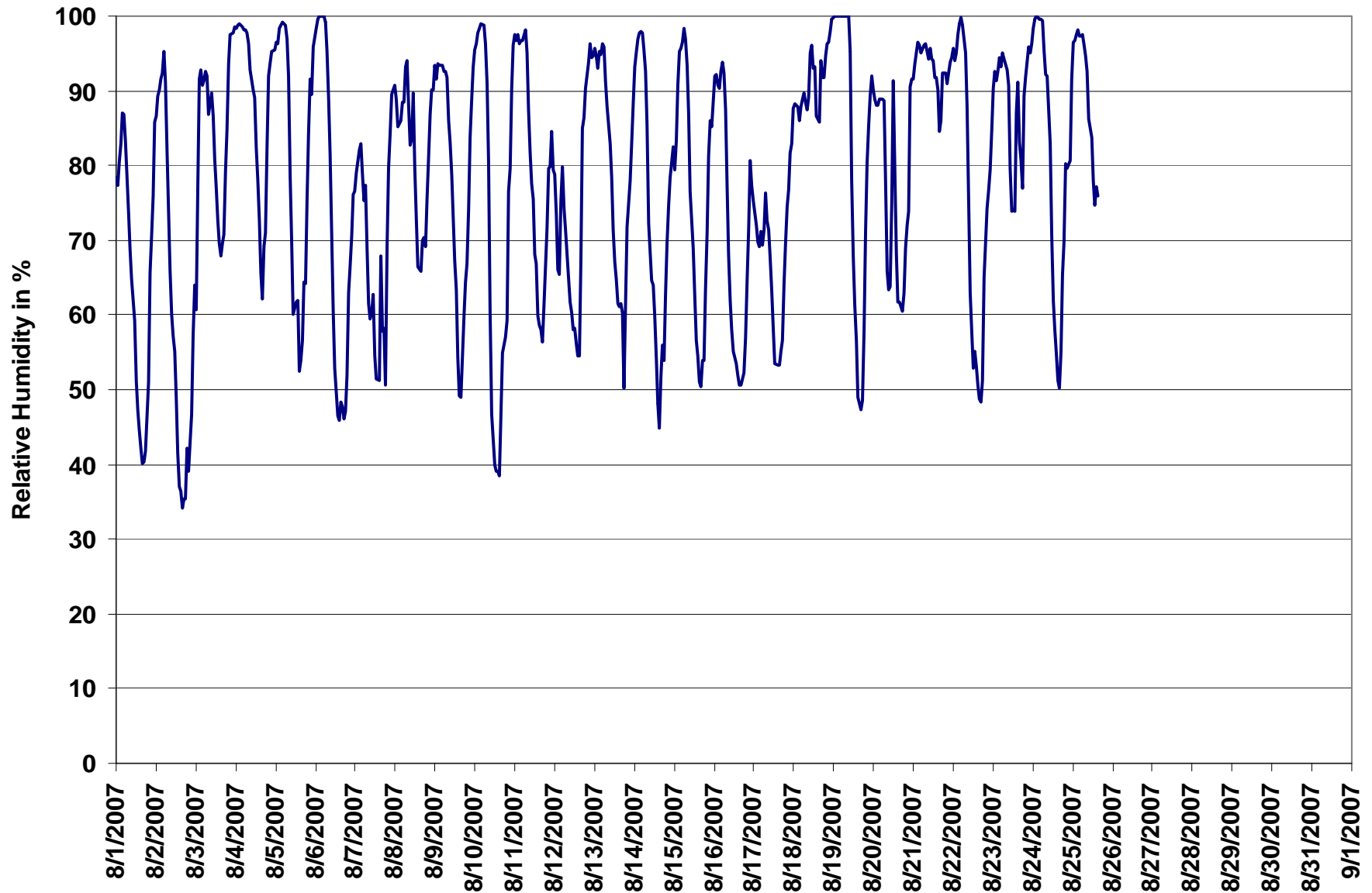


Figure 56. PASZA - Portable-Falher Relative Humidity 1-hr Average Monthly Trend

PASZA - Portable-Falher Temperature Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

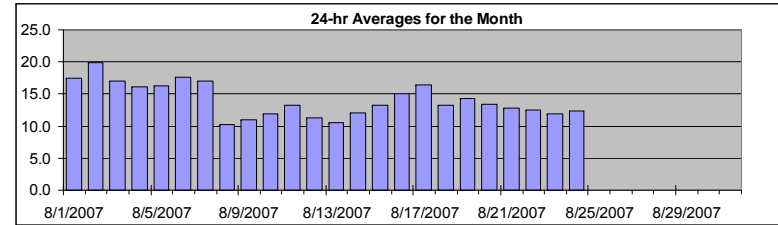
HOURLY AVERAGE TABLE

Ambient Temperature (T)

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

Summary

Maximum 1-hr Average:	26.5 °C	2-Aug	18:00 19:00
Maximum 24-hr Value:	19.9 °C	2-Aug	



AIC Time:	0 hrs	Operational Time:	592 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	86.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	25.4	21.3	16.6	13.5	11.2	7.8	4.6	14.0 °C	13.5 °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	23:00			
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Aug-07	13	13	12	11	10	10	12	14	15	17	19	20	21	22	23	23	24	24	24	23	20	18	16	14	14	17.4	24.0	
2-Aug-07	13	12	13	13	13	12	14	16	18	20	21	22	23	24	25	26	26	26	26	25	25	23	21	19	19	19.9	26.5	
3-Aug-07	19	17	16	15	15	15	15	15	16	16	17	18	18	20	20	20	20	20	18	17	16	15	14	14	14	17.0	20.3	
4-Aug-07	14	13	13	13	13	14	14	14	15	15	16	16	16	17	18	19	21	21	21	20	18	17	16	14	14	16.2	21.2	
5-Aug-07	13	12	12	12	11	11	12	13	15	18	19	20	20	20	21	21	21	19	20	18	16	15	15	14	14	16.2	21.5	
6-Aug-07	13	12	10	10	9	9	11	13	15	17	19	21	22	23	24	24	25	26	25	23	20	18	17	15	15	17.6	25.5	
7-Aug-07	15	14	13	13	14	15	15	17	18	19	19	20	21	21	21	19	22	22	21	17	15	13	12	12	12	17.0	21.7	
8-Aug-07	11	11	10	9	8	8	8	8	9	9	9	9	11	11	12	13	12	12	12	12	11	11	10	9	9	10.2	12.5	
9-Aug-07	9	9	9	8	8	8	8	8	9	9	10	10	11	12	13	15	15	15	14	14	14	14	11	10	8	11.0	15.2	
10-Aug-07	7	5	5	4	3	3	4	9	13	15	16	17	18	18	18	18	17	17	17	16	13	12	11	11	11	11.9	18.5	
11-Aug-07	11	11	11	11	11	10	10	11	12	13	14	14	15	15	16	17	17	17	16	15	14	13	12	12	12	13.2	17.0	
12-Aug-07	11	11	11	11	10	9	10	10	11	12	13	13	14	14	15	15	14	12	11	10	10	9	9	9	9	11.4	14.6	
13-Aug-07	9	9	9	8	8	7	8	8	9	10	11	12	13	13	13	13	14	14	14	14	13	11	9	8	7	10.5	14.5	
14-Aug-07	6	6	5	5	4	4	6	8	10	12	14	15	16	18	19	20	18	18	18	17	15	13	13	11	11	12.0	19.6	
15-Aug-07	12	11	9	8	8	7	8	10	11	12	13	15	16	17	18	19	19	18	18	18	16	13	11	11	11	13.3	18.8	
16-Aug-07	9	8	8	8	8	8	9	12	15	17	18	19	20	21	21	21	21	21	20	19	17	15	13	13	13	15.1	21.1	
17-Aug-07	14	14	14	14	13	13	13	14	15	15	16	18	19	20	21	21	21	20	19	18	16	16	15	14	14	16.4	20.8	
18-Aug-07	13	12	12	13	13	13	13	14	14	14	13	12	13	13	14	14	13	14	14	14	14	13	13	10	10	13.3	14.4	
19-Aug-07	10	9	9	10	11	11	10	11	12	13	14	16	18	19	20	20	21	21	19	16	14	14	13	12	12	14.3	20.5	
20-Aug-07	12	12	12	11	11	11	10	13	15	15	15	14	12	14	15	16	16	16	15	14	14	13	12	12	12	13.4	16.2	
21-Aug-07	12	12	12	12	12	12	12	12	12	13	13	13	13	14	14	15	15	15	15	14	14	13	12	11	11	12.8	15.5	
22-Aug-07	10	10	10	10	9	8	7	9	11	13	15	15	16	16	16	17	17	18	17	15	12	11	10	8	8	12.5	17.7	
23-Aug-07	8	8	9	9	9	9	10	10	11	11	14	14	15	15	15	14	14	15	15	16	14	13	12	11	9	11.9	15.8	
24-Aug-07	9	7	6	6	5	6	6	9	11	11	13	15	17	18	18	18	18	18	18	16	15	14	13	13	12	12.3	18.2	
25-Aug-07	12	12	12	11	11	12	12	12	12	12	14	14	15	15	15	15	N	N	N	N	N	N	N	N	N		15.3	
26-Aug-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	N		
27-Aug-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	N		
28-Aug-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	N		
29-Aug-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	M	S	S	S	S	S	S	S	S	S	S		
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
Hourly Avg	11.4	10.9	10.5	10.2	9.9	9.9	10.3	11.6	12.9	14.0	15.0	15.8	16.6	17.4	17.9	18.2	18.4	18.2	17.8	16.4	14.9	13.8	12.7	11.8	11.8			
Hourly Max	19.2	17.1	15.8	15.4	15.5	15.0	15.5	17.4	18.4	19.6	20.7	21.9	23.1	24.5	25.4	25.8	26.2	26.3	26.5	25.4	24.6	22.9	21.1	19.3	19.3			

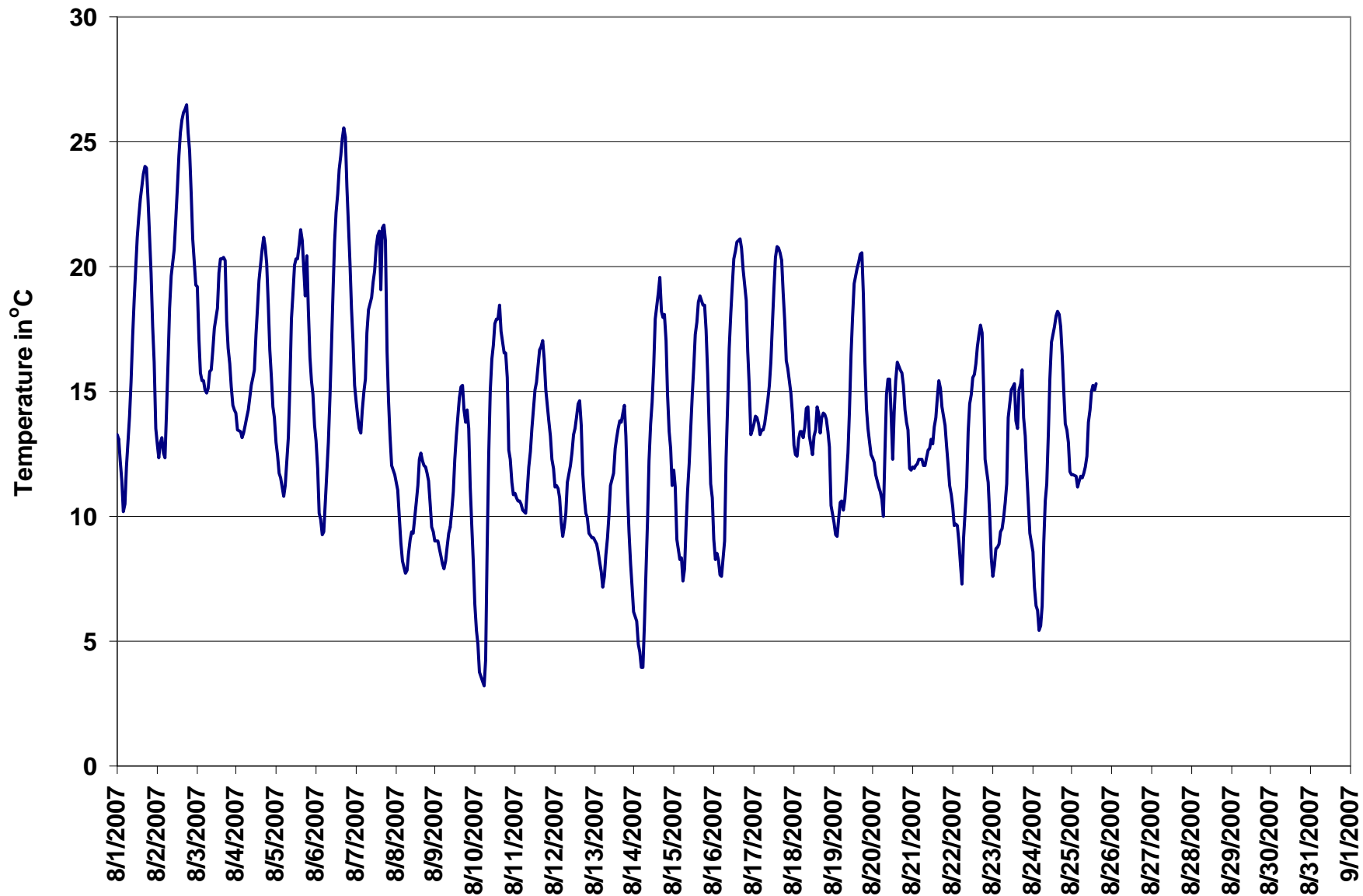


Figure 57. PASZA - Portable-Falher Temperature 1-hr Average Monthly Trend

PASZA - Portable-Falher Scalar Wind Speed Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

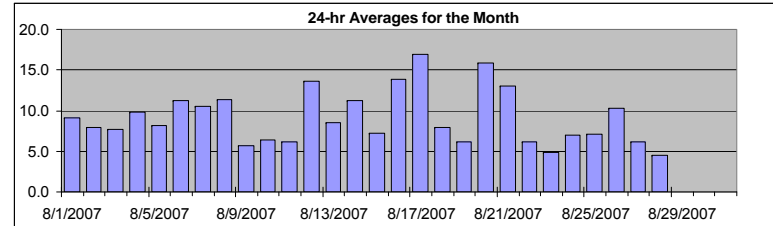
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	28.7	km/hr	17-Aug	16:00 17:00
Maximum 24-hr Value:	16.9	km/hr	17-Aug	

Calm Time:	0 hrs	0% calms	Operational Time:	681 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.1%				
Percentile	99	95	75	50	25	5	1	AverageS
	23.6	18.8	11.7	7.9	5.5	3.0	1.9	9.1 km/hr



Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Aug-07	16	15	11	10	10	8	7	10	10	8	10	11	10	11	10	7	5	5	2	5	9	9	10	9		9.1	16.2
2-Aug-07	9	10	9	10	13	11	13	12	12	11	10	9	9	8	7	7	6	3	2	2	2	4	5	9		8.0	12.9
3-Aug-07	7	17	8	8	14	15	6	6	8	9	5	4	6	5	7	7	9	7	8	5	5	5	7	7		7.7	17.3
4-Aug-07	7	7	7	6	5	5	7	8	10	13	17	19	17	14	10	11	11	12	15	8	8	8	6	6		9.8	18.6
5-Aug-07	8	8	5	7	6	6	7	7	8	6	10	13	14	14	15	13	12	9	4	7	6	4	5	4		8.2	14.8
6-Aug-07	2	4	5	7	6	7	6	8	10	12	13	16	18	19	19	17	16	16	14	13	12	12	10	10		11.3	19.5
7-Aug-07	10	9	9	9	10	12	12	14	18	15	16	14	10	9	10	6	5	8	15	15	7	6	5	7		10.5	18.1
8-Aug-07	7	21	16	15	15	15	13	15	15	14	11	11	12	11	10	10	15	14	9	5	4	4	5	5		11.4	20.6
9-Aug-07	5	4	5	5	6	7	5	4	8	10	10	8	6	5	5	8	7	9	6	2	1	2	5	5		5.7	10.4
10-Aug-07	7	6	7	7	8	7	5	3	3	3	4	6	5	5	5	5	12	7	5	8	10	9	8	10		6.4	11.6
11-Aug-07	5	7	5	5	2	3	4	3	3	5	4	5	4	3	5	7	8	10	9	7	9	10	9	14		6.2	14.5
12-Aug-07	12	19	19	17	16	12	15	15	19	20	21	21	20	18	18	18	12	7	6	3	2	4	7	6		13.7	21.4
13-Aug-07	6	7	8	5	7	6	4	6	7	7	8	6	12	12	12	13	15	12	11	7	7	8	9	9		8.5	14.6
14-Aug-07	9	7	7	8	8	9	9	12	15	14	17	19	18	18	16	16	13	11	12	6	8	6	5	6		11.2	18.6
15-Aug-07	5	8	8	3	5	5	4	7	9	10	10	10	10	9	9	7	5	5	6	7	8	8	9	10		7.3	9.9
16-Aug-07	9	9	8	10	9	10	9	10	14	14	15	14	14	16	19	20	19	20	20	15	14	14	13	15		13.8	20.1
17-Aug-07	16	16	19	19	19	19	14	10	17	17	19	19	22	24	25	28	29	23	11	12	11	4	5	9		16.9	28.7
18-Aug-07	9	10	12	12	11	12	13	11	7	4	9	9	6	7	10	14	4	5	5	4	4	5	4	4		7.9	13.7
19-Aug-07	2	3	4	3	3	2	5	7	3	4	5	8	8	9	9	8	7	6	7	10	9	10	8	8		6.2	10.4
20-Aug-07	9	11	9	7	8	10	10	12	17	16	13	14	17	19	23	25	27	26	20	19	17	16	17	19		15.8	27.4
21-Aug-07	18	15	13	13	12	14	17	18	19	20	17	18	17	15	13	9	13	13	8	8	8	6	6	5		13.0	20.0
22-Aug-07	3	5	4	6	5	5	3	4	5	5	8	11	11	9	8	6	8	5	5	6	8	4	8	8		6.2	11.1
23-Aug-07	8	4	4	7	5	3	4	5	5	3	3	3	4	7	5	3	4	4	5	5	5	7	7		4.8	8.0	
24-Aug-07	4	6	6	6	2	3	3	3	4	6	5	7	6	8	8	7	9	10	10	10	8	11	13	13		7.0	13.0
25-Aug-07	11	7	4	8	11	9	6	7	6	7	3	4	6	6	6	6	15	5	9	6	7	6	6	6		7.0	15.3
26-Aug-07	8	10	8	8	8	8	9	8	6	8	16	17	19	19	17	15	14	10	6	5	5	7	7	7		10.2	19.4
27-Aug-07	6	5	4	4	6	3	3	6	7	5	7	10	M	M	M	7	7	17	10	7	4	6	3	3		6.1	16.6
28-Aug-07	2	2	2	2	5	2	3	2	3	5	4	M	M	7	9	7	8	7	5	4	7	7	5	5		4.5	8.6
29-Aug-07	6	7	7	7	7	7	7	8	8	9	8	9	10	11	M	S	S	S	S	S	S	S	S	S			10.7
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			
1-hr Average	7.8	8.9	8.1	8.0	8.4	8.0	7.6	8.3	9.5	9.7	10.2	11.3	11.4	11.3	11.6	11.1	11.1	10.2	8.7	7.6	7.2	7.1	7.4	8.0			
Hourly Max	17.7	20.6	19.4	18.9	19.4	18.6	17.0	17.9	18.9	20.5	21.4	20.8	22.3	24.1	25.4	27.9	28.7	26.1	20.4	18.6	16.9	16.1	17.0	19.3			

PASZA - Portable-Falher Vector Wind Speed Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

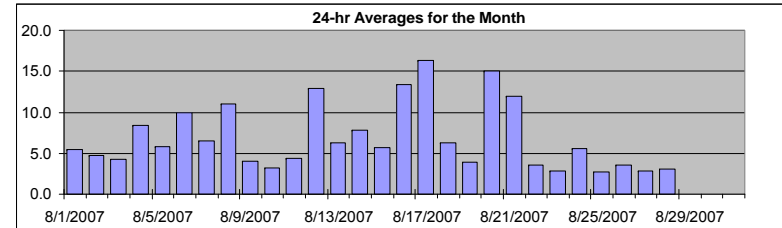
HOURLY AVERAGE TABLE

Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	28.5	km/hr	17-Aug	16:00 17:00
Maximum 24-hr Value:	16.4	km/hr	17-Aug	



Calm Time:	0 hrs	0% calms	Operational Time:	681 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.1%				
Percentile	99	95	75	50	25	5	1	AverageV
	23.5	18.6	11.3	7.5	4.9	2.1	0.9	0.6 km/hr

Status Flag Characters

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

Day	Mountain Standard Time																								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-Aug-07	16	15	11	10	10	8	7	10	9	8	10	11	10	10	9	6	3	4	2	5	9	9	10	9		5.5	16.1		
2-Aug-07	9	9	9	10	13	11	13	11	12	10	10	8	8	7	5	6	5	2	1	1	3	2	8			4.7	12.9		
3-Aug-07	6	16	3	5	9	15	4	5	3	2	3	3	5	4	6	7	8	6	7	5	5	7	7			4.3	16.3		
4-Aug-07	7	7	7	6	5	5	7	8	9	12	16	18	16	14	10	11	11	12	14	8	7	8	6	5			8.4	18.5	
5-Aug-07	7	8	4	7	6	6	7	7	6	9	12	14	14	14	13	10	9	4	3	2	3	2	3			5.8	14.5		
6-Aug-07	1	2	5	7	6	7	5	8	10	11	12	16	17	19	19	17	16	16	14	13	12	12	10	10			10.0	19.2	
7-Aug-07	10	9	9	9	9	12	12	14	18	15	15	14	9	9	9	5	5	8	13	15	7	6	4	7			6.5	18.0	
8-Aug-07	7	20	16	15	15	15	13	15	15	14	11	11	12	11	10	10	15	13	9	5	4	4	5	5			11.0	20.4	
9-Aug-07	5	4	5	5	6	7	5	4	8	10	10	8	4	4	3	6	5	9	6	2	1	1	4	5			4.0	10.3	
10-Aug-07	7	6	7	7	8	7	5	3	3	2	1	5	2	2	4	1	11	7	4	7	10	5	8	9			3.2	11.2	
11-Aug-07	5	7	5	5	2	3	4	3	2	4	3	4	3	2	5	6	8	9	9	7	9	10	9	14			4.3	14.4	
12-Aug-07	12	19	19	17	16	12	15	15	19	20	21	21	19	18	18	18	9	2	5	3	2	4	7	5			12.9	21.2	
13-Aug-07	6	7	8	5	6	6	4	6	7	7	7	4	12	12	12	12	14	11	11	7	7	8	9	9			6.3	14.1	
14-Aug-07	9	7	7	8	8	9	9	12	14	14	17	18	17	18	15	15	12	11	11	6	7	6	4	4			7.8	18.4	
15-Aug-07	4	8	8	2	5	5	4	7	8	10	9	10	9	8	8	6	5	5	6	7	8	8	9	10			5.6	9.8	
16-Aug-07	9	9	8	10	9	10	9	10	14	14	15	14	13	16	18	20	19	20	20	15	14	14	13	15			13.3	19.9	
17-Aug-07	16	16	19	19	19	19	14	10	17	16	19	19	22	24	25	28	29	23	11	12	11	2	4	9			16.4	28.5	
18-Aug-07	9	10	12	12	11	11	13	11	7	1	9	9	6	6	10	14	3	5	5	3	3	4	4	4			6.2	13.6	
19-Aug-07	1	2	2	2	2	2	5	7	2	4	5	8	7	7	9	8	6	4	7	10	9	10	7	8			3.9	10.2	
20-Aug-07	9	11	9	7	8	10	10	12	17	15	12	13	17	19	22	25	27	26	20	18	17	16	17	19			15.1	27.1	
21-Aug-07	18	15	13	13	12	14	17	18	19	20	16	17	17	15	13	9	13	13	6	8	7	5	6	4			12.0	19.9	
22-Aug-07	1	5	4	6	5	5	3	4	5	4	7	10	10	9	8	5	7	4	5	6	7	4	8	8			3.6	10.3	
23-Aug-07	8	4	3	7	5	3	3	5	5	5	2	3	2	4	6	5	2	3	3	5	5	5	7	7			2.8	7.8	
24-Aug-07	4	5	6	5	1	2	3	2	4	5	4	6	5	7	8	7	9	9	10	10	8	10	13	13			5.6	12.9	
25-Aug-07	11	7	3	8	11	8	6	7	6	7	2	3	5	6	6	5	6	3	7	6	6	6	5	6			2.7	11.1	
26-Aug-07	8	10	8	8	8	8	9	8	6	7	16	17	19	19	17	15	14	9	6	5	5	7	6	7			3.6	19.2	
27-Aug-07	6	5	4	4	6	2	3	5	6	4	6	10	M	M	M	4	6	12	10	6	4	6	2	3			2.9	11.9	
28-Aug-07	1	1	1	1	4	1	3	2	2	4	4	M	M	6	7	6	7	7	5	4	7	7	5	4			3.0	7.3	
29-Aug-07	6	7	7	7	7	7	7	8	8	9	8	9	10	10	M	S	S	S	S	S	S	S	S	S				10.2	
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S					
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S					
1-hr Vector	0.5	0.7	1.8	1.7	1.2	0.5	0.2	0.9	0.8	0.2	0.9	1.6	1.9	1.7	2.4	2.4	2.4	2.8	2.4	1.6	0.5	0.4	0.3	1.0					
Hourly Max	17.6	20.4	19.3	18.8	19.4	18.6	17.0	17.9	18.8	20.3	21.2	20.6	21.9	23.7	25.1	27.6	28.5	26.0	20.3	18.5	16.8	16.0	16.7	19.1					

PASZA - Portable-Falher Wind Direction Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	681 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.1%				
Percentile	99	95	75	50	25	5	1	Average
	357.1	345.8	278.6	199.1	96.8	20.2	2.5	336 deg

Status Flag Characters

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

Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	WD Sector	
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Aug-07	280	283	276	271	270	266	262	253	260	248	256	254	254	260	259	242	260	232	4	81	96	100	107	104	259	W	
2-Aug-07	108	105	113	119	120	121	125	129	164	188	228	241	239	246	269	249	261	243	180	146	167	148	150	187	165	SSE	
3-Aug-07	196	241	84	45	268	292	329	315	89	337	193	267	324	350	0	350	322	334	330	3	280	302	289	299	311	NW	
4-Aug-07	304	298	308	312	305	303	311	313	335	345	353	348	346	343	333	324	320	284	290	278	246	257	261	242	316	NW	
5-Aug-07	255	219	225	201	200	228	230	230	257	270	265	296	278	295	307	302	319	11	40	348	264	329	286	184	277	W	
6-Aug-07	342	139	131	158	147	164	157	169	191	189	195	206	216	217	230	236	222	222	235	226	216	208	199	174	206	SSW	
7-Aug-07	173	175	180	189	203	216	240	244	254	269	283	306	313	302	289	308	275	275	289	8	18	336	315	307	269	W	
8-Aug-07	324	357	356	354	348	347	346	347	348	0	0	357	358	0	9	7	9	25	22	30	32	22	21	46	0	N	
9-Aug-07	17	359	338	340	346	0	26	3	9	13	7	16	336	318	252	251	278	335	346	335	160	300	79	111	351	N	
10-Aug-07	114	89	109	108	119	96	89	98	142	82	360	89	13	143	3	312	25	30	42	34	35	305	318	287	51	NE	
11-Aug-07	13	33	342	346	322	248	278	294	336	301	279	268	360	32	59	54	56	46	32	35	65	58	34	40	24	NNE	
12-Aug-07	49	57	61	61	59	59	47	46	58	56	56	56	48	46	54	52	80	23	32	41	308	320	358	347	51	NE	
13-Aug-07	319	335	344	326	342	342	311	327	326	309	304	286	248	257	249	253	245	255	278	265	240	213	210	201	273	W	
14-Aug-07	202	191	160	156	159	174	186	209	219	220	236	233	237	255	272	283	303	301	325	297	299	295	297	276	243	WSW	
15-Aug-07	297	353	23	156	65	83	59	96	122	130	134	134	130	137	94	86	91	117	125	119	124	111	105	98	106	ESE	
16-Aug-07	93	86	84	85	87	76	84	119	124	127	123	108	106	97	121	89	92	96	95	90	83	86	81	91	98	E	
17-Aug-07	94	90	86	93	91	93	107	107	104	101	94	86	89	91	89	90	93	91	73	71	72	20	346	63	89	E	
18-Aug-07	79	102	108	120	124	126	122	121	114	144	198	239	127	84	132	142	129	170	160	110	118	114	45	299	126	SE	
19-Aug-07	324	359	82	119	97	262	193	216	221	119	122	143	206	213	265	295	271	245	232	218	222	189	188	189	211	SSW	
20-Aug-07	217	224	228	228	231	233	224	241	253	246	238	263	271	277	268	272	277	276	276	266	265	263	261	260	259	W	
21-Aug-07	268	275	278	282	293	290	290	293	299	303	307	312	312	315	334	322	314	303	339	19	351	348	281	306	303	WNW	
22-Aug-07	294	332	281	260	293	315	346	339	3	1	347	348	340	347	314	326	308	298	43	49	101	108	86	116	347	NNW	
23-Aug-07	98	147	130	120	109	105	100	80	105	123	140	116	140	223	42	98	73	335	9	358	14	2	19	17	77	ENE	
24-Aug-07	45	25	78	57	172	118	40	155	155	193	187	126	162	161	134	135	136	113	102	95	91	89	110	125	116	ESE	
25-Aug-07	131	121	139	85	100	89	11	54	88	92	82	17	328	329	324	28	58	58	157	227	192	226	216	233	90	E	
26-Aug-07	230	277	254	248	238	249	258	254	242	62	60	53	57	45	39	29	7	347	332	317	294	284	281	245	349	N	
27-Aug-07	235	237	282	242	224	210	206	248	296	257	263	259	M	M	M	297	148	349	20	95	193	234	298	173	264	W	
28-Aug-07	170	124	107	282	240	251	234	218	214	195	197	M	M	215	221	240	226	227	221	178	123	119	107	103	198	SSW	
29-Aug-07	97	102	104	108	121	119	119	119	125	123	136	117	108	121	M	S	S	S	S	S	S	S	S	S	S	N	-
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	-
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N	-
Hourly Avg	175	22	74	103	130	133	169	229	218	251	268	320	320	309	319	326	340	329	340	22	108	252	2	159			

PASZA - Portable-Falher Standard Deviation of Wind Direction Monthly Summary

Station: Portable-Falher
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	681 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.1%			
Percentile	99	95	75	50	25	5	1
	86.7	63.5	25.2	12.5	7.2	3.8	2.8

Status Flag Characters

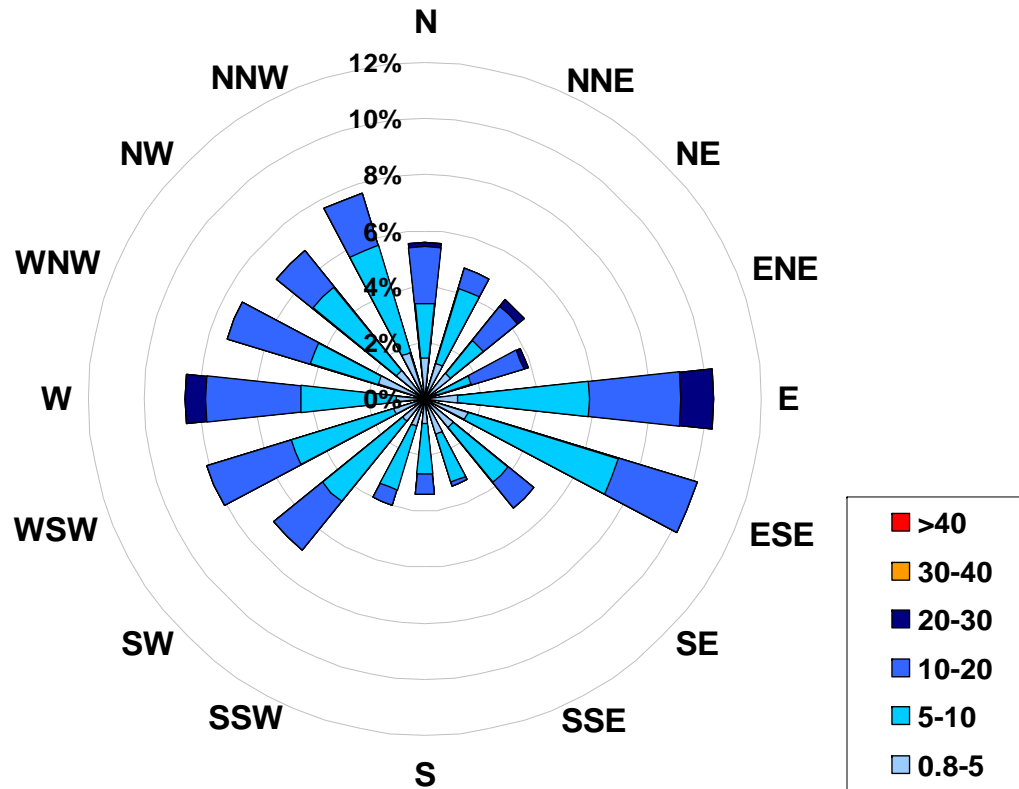
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

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-Aug-07	7	4	3	12	3	10	9	9	12	18	16	17	18	24	29	40	62	40	52	27	9	3	6	3		61.7	
2-Aug-07	8	4	6	3	3	3	3	12	12	22	15	20	21	34	52	43	46	41	82	57	76	59	76	34		82.1	
3-Aug-07	49	28	80	64	89	11	61	35	73	88	44	40	30	33	30	15	18	22	36	27	19	11	6	12		89.1	
4-Aug-07	8	7	4	7	7	7	6	6	11	7	9	6	8	14	14	16	18	13	7	10	12	14	8	23		23.5	
5-Aug-07	8	8	42	18	9	12	11	14	13	31	20	16	12	16	13	17	27	14	36	67	88	53	78	75		88.2	
6-Aug-07	73	84	18	14	8	9	6	13	10	11	10	12	15	10	13	12	11	6	7	4	4	3	9	6		83.9	
7-Aug-07	4	3	4	4	7	7	8	5	5	6	10	9	19	16	22	24	22	12	22	10	7	13	37	12		37.2	
8-Aug-07	10	7	7	8	6	5	7	7	8	10	15	14	12	11	16	12	7	9	9	10	16	21	9	19		21.4	
9-Aug-07	8	20	8	7	8	7	9	21	9	14	16	41	56	58	45	47	17	12	28	50	68	44	13		68.1		
10-Aug-07	5	8	17	11	13	13	12	14	38	55	85	43	87	78	52	90	14	6	12	15	6	59	21	24		89.6	
11-Aug-07	24	9	15	16	14	18	16	26	70	24	49	43	64	49	24	32	14	16	10	6	15	4	12	6		70.0	
12-Aug-07	4	4	3	3	3	5	5	4	7	7	6	7	8	7	8	8	46	84	28	14	16	15	11	17		84.0	
13-Aug-07	10	4	6	12	5	11	19	13	12	15	29	48	15	15	21	17	17	21	12	9	17	4	3	3		48.1	
14-Aug-07	2	11	3	3	3	3	6	9	6	7	9	8	7	11	10	11	25	21	14	21	19	16	21	57		56.7	
15-Aug-07	39	12	21	64	20	18	13	11	16	11	12	12	18	31	30	33	32	18	9	7	7	6	6	3		63.5	
16-Aug-07	6	7	7	5	13	7	5	8	10	12	12	15	20	17	11	10	7	7	5	6	3	3	4	4		20.1	
17-Aug-07	4	4	4	5	3	4	10	8	4	7	7	6	10	10	9	7	7	5	12	4	5	74	46	8		73.7	
18-Aug-07	8	5	3	9	3	3	3	5	27	83	14	16	21	27	16	9	27	24	24	42	56	24	33	42		83.4	
19-Aug-07	87	35	60	33	28	55	11	9	39	16	31	19	34	37	27	34	26	39	10	11	6	8	15	7		86.7	
20-Aug-07	8	2	3	4	3	4	5	9	8	11	18	16	8	11	8	6	8	5	5	6	5	5	11	8		18.4	
21-Aug-07	5	4	6	4	6	5	5	5	6	4	10	6	5	7	9	10	6	5	40	10	9	17	13	40		39.9	
22-Aug-07	95	9	23	6	4	11	29	19	18	31	24	22	24	25	24	37	32	53	12	22	21	9	9	14		94.9	
23-Aug-07	13	32	31	8	10	18	21	8	12	13	60	46	59	58	33	28	51	29	37	11	5	11	5	18		59.8	
24-Aug-07	16	18	8	28	72	50	45	28	23	29	36	25	43	32	22	19	10	18	7	5	9	8	7	4		71.9	
25-Aug-07	10	23	56	12	5	20	12	11	17	14	60	53	36	25	20	38	69	59	29	34	25	7	12	5		69.2	
26-Aug-07	6	15	15	12	6	11	8	8	16	51	5	6	7	8	7	11	5	12	6	13	5	6	11	10		51.4	
27-Aug-07	16	13	13	22	7	39	9	30	18	44	32	18	M	M	M	61	17	69	27	27	35	12	70	23		69.7	
28-Aug-07	60	74	65	90	54	82	16	48	43	32	39	M	M	51	36	32	26	20	9	19	10	5	13	21		90.1	
29-Aug-07	6	4	4	8	4	4	7	4	7	13	15	19	15	17	M	S	S	S	S	S	S	S	S	S		18.6	
30-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
31-Aug-07	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		

Hourly Max	95	84	80	90	89	82	61	48	73	88	85	53	87	78	58	90	69	84	82	67	88	74	78	75
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1-hr Average Wind Rose (in km/hr) Located at the Portable-Falher Site for August 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	<	5	135
5	to	10	322
10	to	20	207
20	to	30	17
30	to	40	0
	>	40	0
Total Non-Zero Values			681

PASZA – Valleyview Station

Monthly Summary Tables, Graphs and Roses

PASZA - Valleyview Sulphur Dioxide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

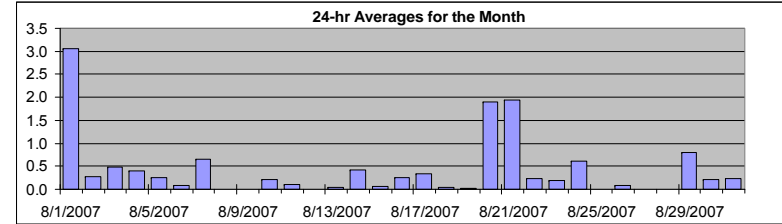
Sulphur Dioxide (SO₂)

Monitoring Dates: August 1, 2007 to September 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:	15.9 ppb	1-Aug	1:00 2:00
Maximum 24-hr Average:	3.1 ppb	1-Aug	



AIC Time:	30 hrs	Operational Time:	680 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	96.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	7.6	1.9	0.3	0.1	0.0	0.0	0.0	0.4 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-Aug-07	A	16	12	9	5	3	2	9	3	3	1	1	1	1	1	1	0	0	0	0	1	1	0	0	3.1	15.9
2-Aug-07	A	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.3	0.7
3-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	1	0	0	1	2	0.5	3.2	
4-Aug-07	A	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0.4	1.8	
5-Aug-07	A	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0.2	1.4	
6-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.1	1.2	
7-Aug-07	A	0	0	0	0	0	0	3	1	2	3	1	1	0	1	1	0	0	0	0	0	1	0	0.7	3.0	
8-Aug-07	A	0	0	0	0	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.5	
9-Aug-07	P	P	P	P	P	P	P	P	P	P	P	P	0	0	0	0	0	0	2	1	0	0	0	N	2.2	
10-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
11-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
12-Aug-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	
13-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.0	0.5	
14-Aug-07	A	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	1	2	1	1	0	0	0	0.4	1.9	
15-Aug-07	A	0	0	0	0	0	0	0	0	0	C	C	1	0	0	0	0	0	0	0	0	0	0	0.1	0.8	
16-Aug-07	A	0	0	0	0	0	0	0	0	C	C	C	C	1	1	0	0	0	0	0	0	0	0	0.3	1.4	
17-Aug-07	A	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.3	1.1	
18-Aug-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	0.2	
19-Aug-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	
20-Aug-07	A	0	0	0	0	0	0	0	0	2	3	5	7	2	1	1	1	0	0	0	0	6	8	1.9	7.8	
21-Aug-07	A	15	10	5	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1.9	15.2	
22-Aug-07	A	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0.2	3.0	
23-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0.2	3.5	
24-Aug-07	A	0	0	0	0	0	0	0	0	0	0	4	4	2	1	0	1	1	1	0	0	0	0	0.6	4.0	
25-Aug-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	
26-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
27-Aug-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	
28-Aug-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	
29-Aug-07	A	0	0	0	0	0	0	0	0	0	2	1	7	4	1	1	0	1	0	0	0	0	0	0.8	7.2	
30-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
31-Aug-07	A	0	0	0	0	0	0	0	P	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0	
Hourly Avg	N	1.2	0.9	0.6	0.3	0.3	0.2	0.5	0.3	0.4	0.5	0.7	1.1	0.5	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.4		
Hourly Max	0.0	15.9	11.9	9.5	4.5	3.2	2.2	8.6	3.2	3.3	3.0	4.6	7.2	4.1	1.9	1.1	2.1	3.2	2.2	0.7	1.8	6.5	7.6	7.8		

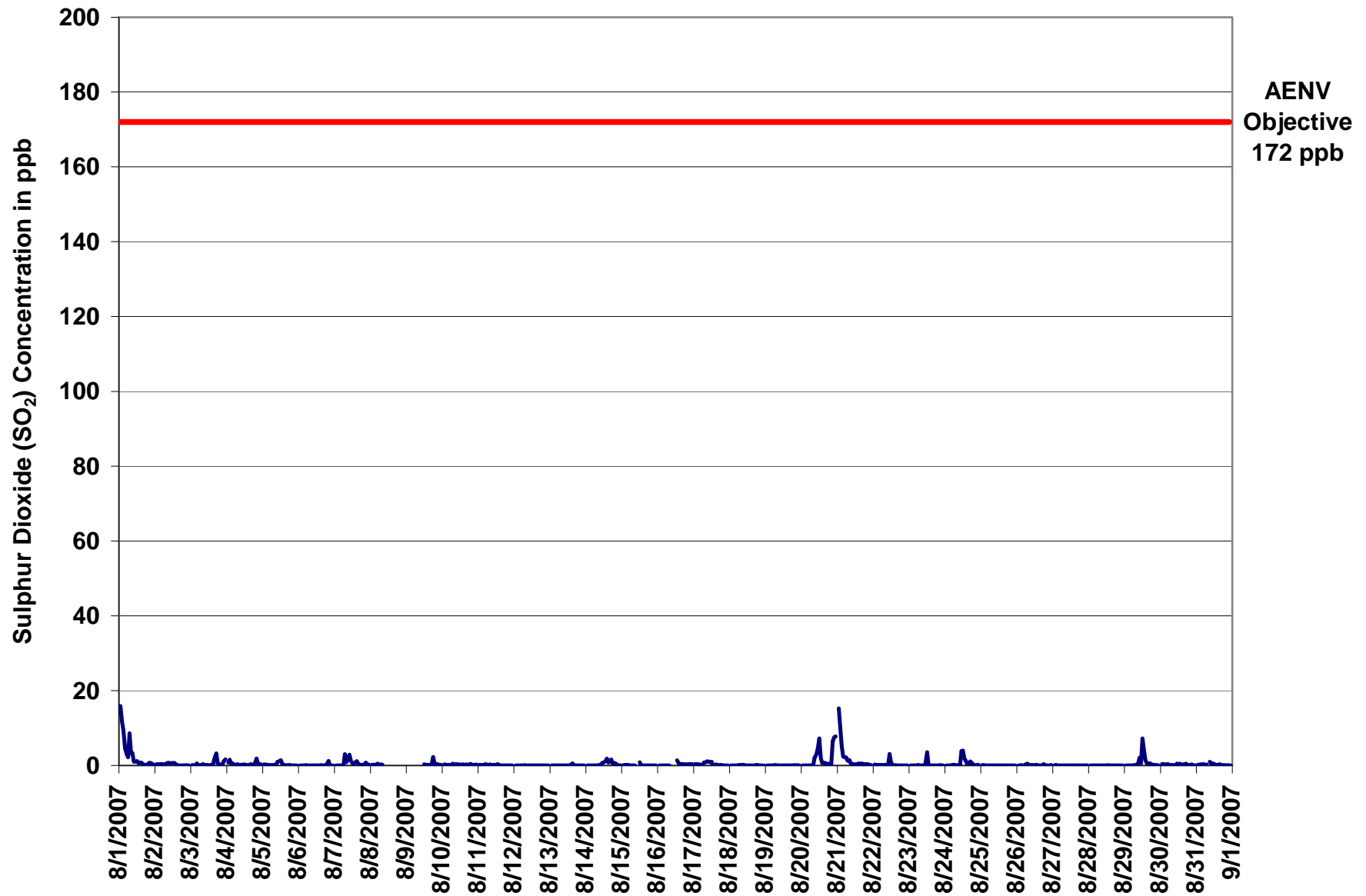


Figure 58. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

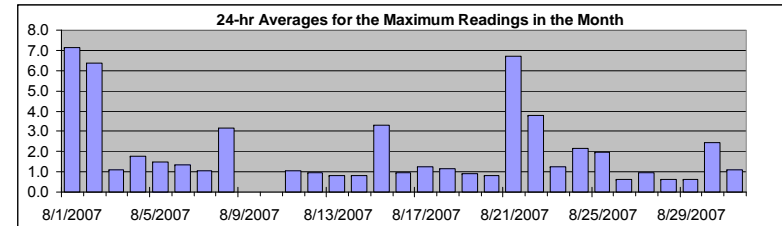
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Sulphur Dioxide (SO₂)

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

Summary

Maximum 1-hr Value:	32.3	ppb	24-Aug	12:00 13:00
Maximum 24-hr Value:	7.1	ppb	1-Aug	



AIC Time:	30 hrs	Operational Time:	681 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	96.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	21.8	7.9	1.3	1.0	0.8	0.3	0.2	2.0 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	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-Aug-07	A	1	1	1	1	1	1	1	4	9	8	11	5	6	10	16	17	4	5	4	22	22	17	7.1	22.1	
2-Aug-07	A	23	24	16	8	5	7	14	11	11	2	5	5	2	2	1	1	1	1	2	1	1	1	1	6.4	23.9
3-Aug-07	A	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1.1	1.9
4-Aug-07	A	1	1	1	3	1	1	1	1	1	1	1	1	1	2	4	8	2	1	1	1	3	4	1	1.8	8.0
5-Aug-07	A	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	4	1	1	1	1	1.5	4.2
6-Aug-07	A	1	1	1	1	1	1	1	1	4	2	4	1	1	1	1	1	1	1	1	0	1	1	1	1.3	4.1
7-Aug-07	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	2	1	1	1	3	3	1	1	1	1.0	3.3
8-Aug-07	A	1	1	1	1	1	1	12	5	6	8	6	5	3	6	8	2	1	1	1	1	2	1	1	3.2	12.2
9-Aug-07	A	1	1	1	1	1	1	1	1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	1.4
10-Aug-07	P	P	P	P	P	P	P	P	P	P	P	P	1	1	1	1	4	4	1	1	1	1	1	1	N	4.0
11-Aug-07	A	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.7
12-Aug-07	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	0.9	1.8
13-Aug-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	0.9
14-Aug-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	0.8	2.7
15-Aug-07	A	1	1	0	1	1	1	1	1	5	4	9	6	13	7	4	6	9	3	2	2	1	1	1	3.3	12.6
16-Aug-07	A	1	1	1	1	1	1	1	1	1	C	C	3	1	1	1	1	1	1	1	1	1	1	1	1.0	3.3
17-Aug-07	A	1	1	1	1	1	1	1	1	C	C	C	C	2	2	1	1	1	1	1	1	1	2	1	1.2	2.5
18-Aug-07	A	2	2	1	2	1	1	1	1	2	2	1	1	1	1	1	1	1	1	0	1	1	1	0	1.2	2.4
19-Aug-07	A	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0.9	1.1
20-Aug-07	A	1	1	1	1	0	1	1	1	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0.8	1.2
21-Aug-07	A	0	0	1	1	1	0	1	1	9	14	16	16	15	2	4	5	1	1	1	1	21	22	20	6.7	22.2
22-Aug-07	A	25	20	7	4	3	3	2	3	1	1	1	0	1	2	2	1	1	1	1	2	1	1	1	3.8	25.3
23-Aug-07	A	1	1	0	1	1	1	1	0	1	0	7	4	1	0	1	0	1	0	1	0	0	1	1	1.2	7.3
24-Aug-07	A	0	0	1	1	1	1	1	1	0	1	1	32	1	1	1	1	0	0	0	1	1	1	1	2.2	32.3
25-Aug-07	A	1	1	1	1	1	1	1	0	1	2	7	7	4	4	1	1	2	1	1	1	0	0	0	1.9	7.3
26-Aug-07	A	1	0	1	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	1	0	1	1	1	0.6	1.4
27-Aug-07	A	1	1	1	1	1	1	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.8
28-Aug-07	A	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	1	0	0	0	1	1	0.6	1.4
29-Aug-07	A	0	1	0	1	0	0	0	0	1	1	1	0	1	0	0	1	0	1	1	1	1	1	1	0.6	1.3
30-Aug-07	A	0	0	1	0	0	0	1	1	2	4	2	26	7	3	2	2	2	2	1	1	1	1	1	2.5	25.9
31-Aug-07	A	2	1	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1.1	1.8
Hourly Avg	N	2.5	2.3	1.6	1.3	1.1	1.2	1.8	1.5	2.1	2.5	2.9	4.7	2.4	1.7	1.9	1.9	2.1	1.2	1.2	1.2	2.3	2.4	2.2		
Hourly Max	0.0	25.3	23.9	15.8	8.5	4.9	7.1	14.3	10.9	11.0	13.9	15.6	32.3	14.8	6.8	9.7	15.7	17.1	4.0	4.7	4.2	21.8	22.2	20.3		

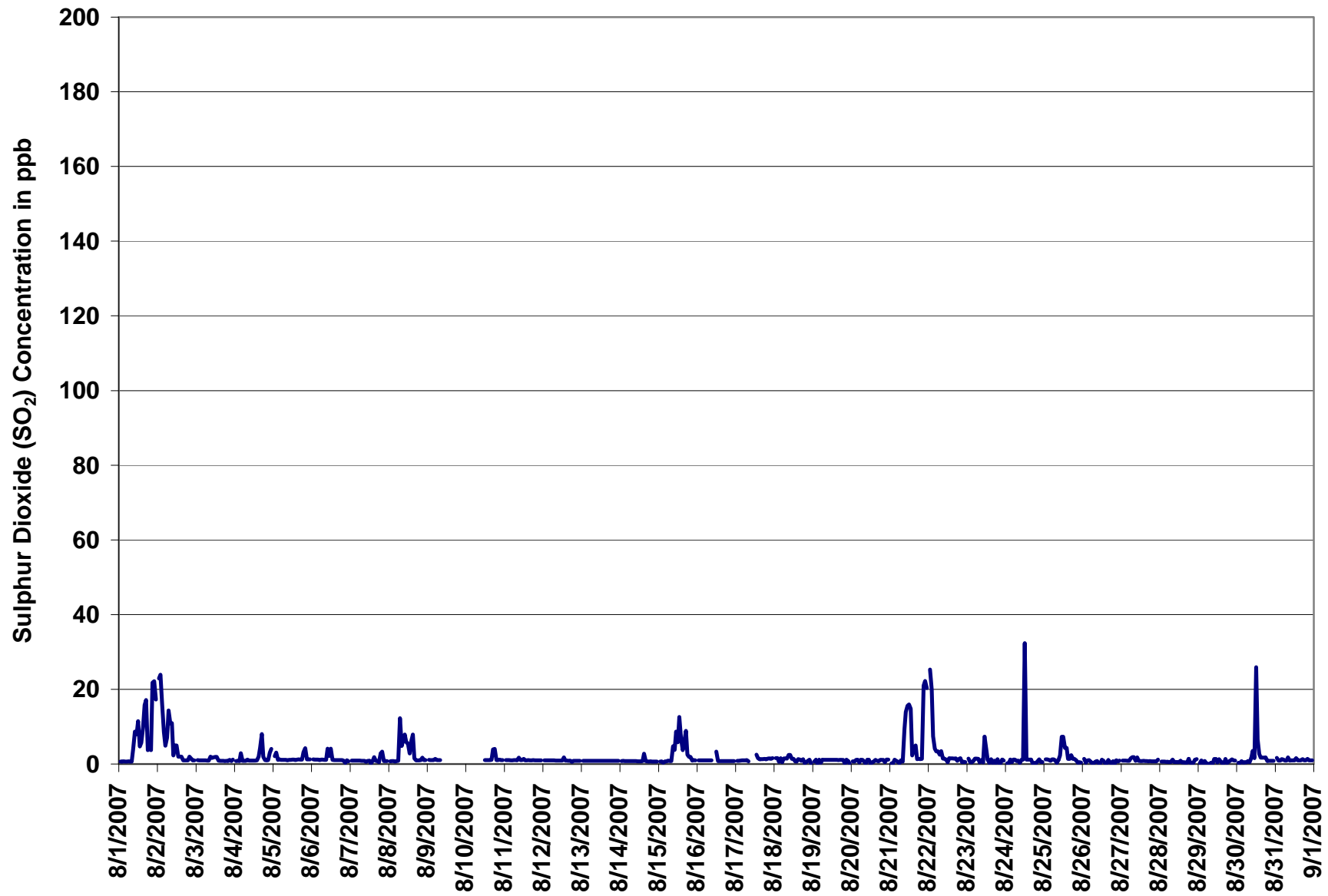
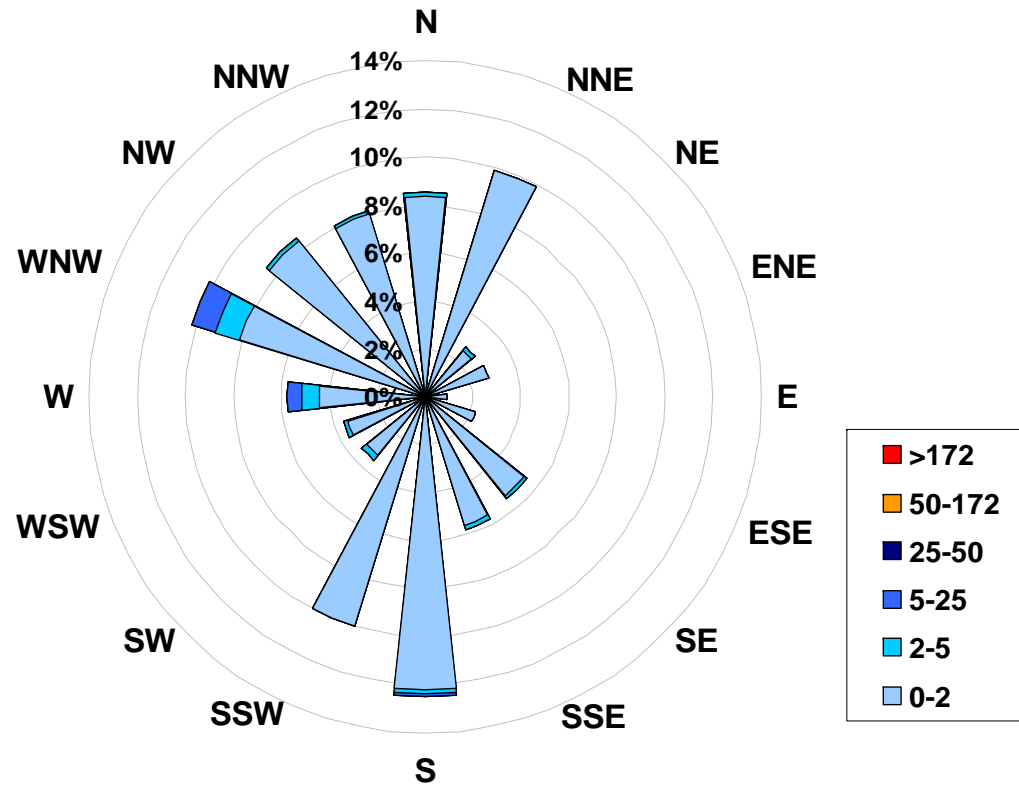


Figure 59. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of SO ₂ in ppb			Frequency (hrs)
Range			
0.0	<	2	646
2	to	5	22
5	to	25	12
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			680

PASZA - Valleyview Hydrogen Sulphide Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

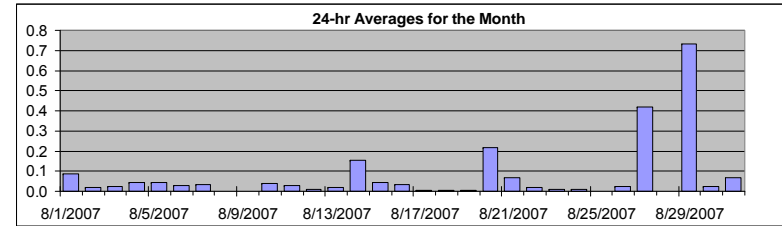
Hydrogen Sulphide (H₂S)

Monitoring Dates: August 1, 2007 to September 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:	9.4	ppb	29-Aug	16:00 17:00
Maximum 24-hr Value:	0.7	ppb	29-Aug	



AIC Time:	31 hrs		Operational Time:	678 hrs					
Calibration Time:	7 hrs		AMD Operational Uptime:	96.2%					
Percentile	99	95	75	50	25	5	1	Average	Median
	0.9	0.1	0.0	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-Aug-07	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7
2-Aug-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
3-Aug-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-Aug-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
5-Aug-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
6-Aug-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
7-Aug-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
8-Aug-07	A	0	0	0	0	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0
9-Aug-07	P	P	P	P	P	P	P	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0.0
10-Aug-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
11-Aug-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
12-Aug-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-Aug-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-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0.2	1.5
15-Aug-07	A	0	0	0	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0.0	0.2
16-Aug-07	A	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	0.2
17-Aug-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
18-Aug-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
19-Aug-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
20-Aug-07	A	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0.2	3.9
21-Aug-07	A	0	0	0	0	1	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
22-Aug-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
23-Aug-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-Aug-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-Aug-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
26-Aug-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
27-Aug-07	A	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	8.9
28-Aug-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-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	7	9	0	0	0	0	0	0	0	0	0	0.7	9.4
30-Aug-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
31-Aug-07	A	0	0	0	0	0	0	0	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
Hourly Avg	N	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.2	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0		
Hourly Max	0.0	0.6	0.7	0.6	0.2	0.9	0.1	0.2	0.1	0.1	0.3	0.1	8.9	3.9	0.1	7.2	9.4	0.1	0.1	1.2	1.5	0.2	0.1	0.1			

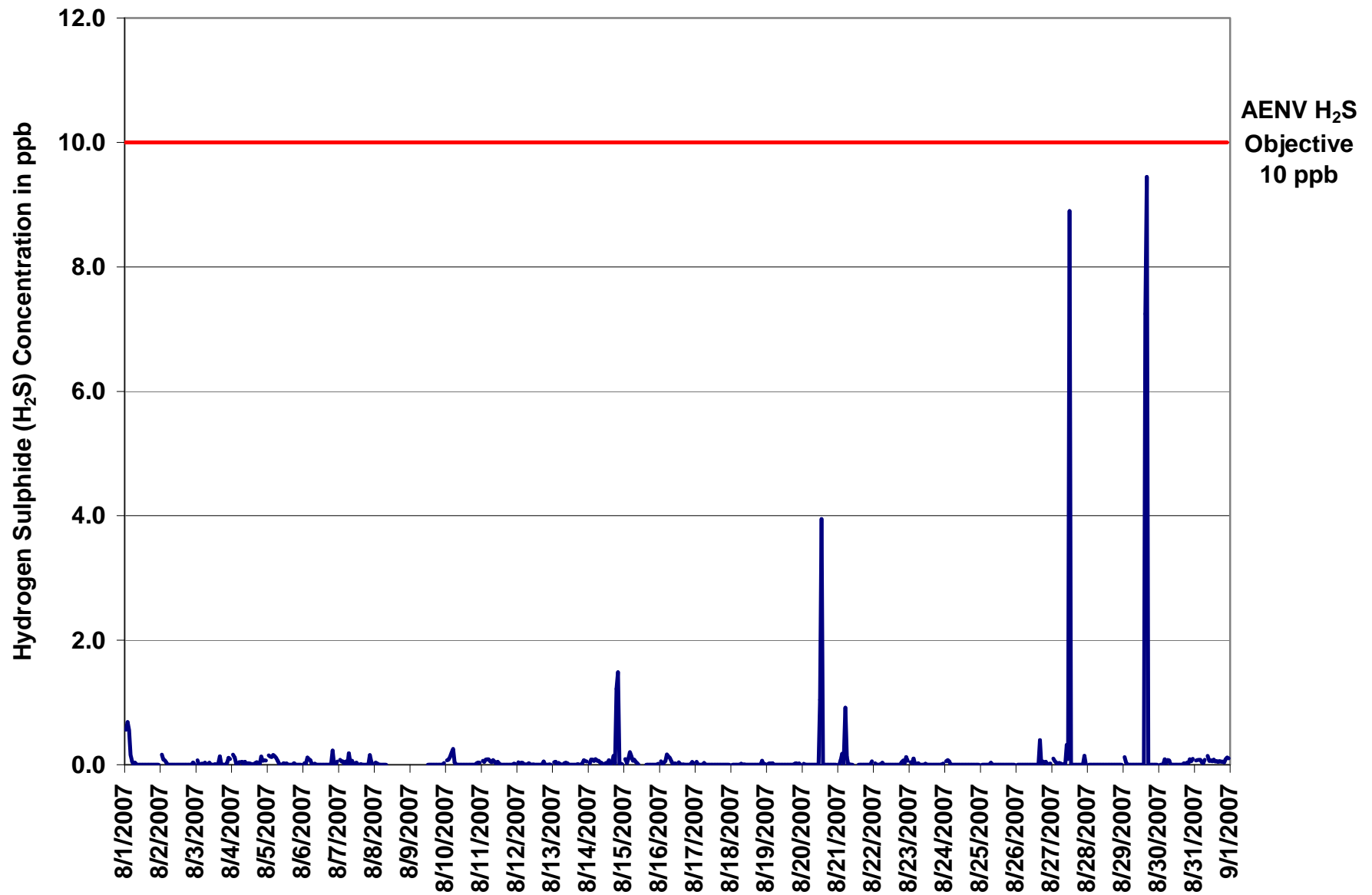


Figure 60. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

Station: Valleyview
 Station Owner: PASZA

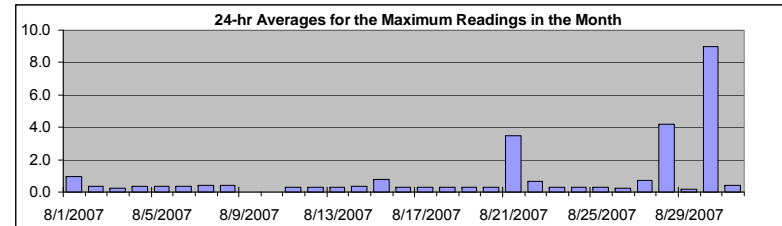
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Hydrogen Sulphide (H₂S)

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

Summary

Maximum 1-hr Value:	100.8	ppb	30-Aug	15:00 16:00
Maximum 24-hr Value:	9.0	ppb	30-Aug	



AIC Time:	31 hrs	Operational Time:	679 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	96.4%						
Percentile	99	95	75	50	25	5	1	Average	Median
	6.8	0.7	0.4	0.3	0.2	0.1	0.1	0.9 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-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	2	1	1	6	6	1.0	6.3
2-Aug-07	A	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.2
3-Aug-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-Aug-07	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	1.2
5-Aug-07	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.4	0.7
6-Aug-07	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
7-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0.4	1.2
8-Aug-07	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0.4	1.4
9-Aug-07	A	0	0	0	0	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.3
10-Aug-07	P	P	P	P	P	P	P	P	P	P	P	P	0	0	0	0	0	0	0	0	0	1	0	0	N	0.6
11-Aug-07	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
12-Aug-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
13-Aug-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
14-Aug-07	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.3	0.6
15-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	4	7	0	0	0	0.8	6.5
16-Aug-07	A	1	0	0	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0.3	0.5
17-Aug-07	A	0	0	0	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
18-Aug-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	0.7
19-Aug-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
20-Aug-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
21-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	18	57	1	0	0	0	0	0	0	0	0	0	3.5	56.8
22-Aug-07	A	0	0	1	0	7	1	0	1	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0.7	6.8
23-Aug-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
24-Aug-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-Aug-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
26-Aug-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
27-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0.7	9.7
28-Aug-07	A	0	0	0	0	0	0	0	0	0	5	2	83	0	0	0	0	0	0	0	0	0	1	0	4.2	82.9
29-Aug-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
30-Aug-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	101	1	0	0	0	0	0	0	9.0	100.8
31-Aug-07	A	0	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.5
Hourly Avg	N	0.4	0.4	0.3	0.4	0.6	0.3	0.3	0.3	0.3	0.4	0.4	4.0	2.3	0.3	3.6	3.9	0.3	0.3	0.4	0.5	0.4	0.5	0.5		
Hourly Max	0.0	1.1	1.2	1.1	1.5	6.8	0.7	0.8	1.3	1.2	4.8	1.9	82.9	56.8	0.9	100.8	100.8	0.8	1.4	4.1	6.5	1.2	5.6	6.3		

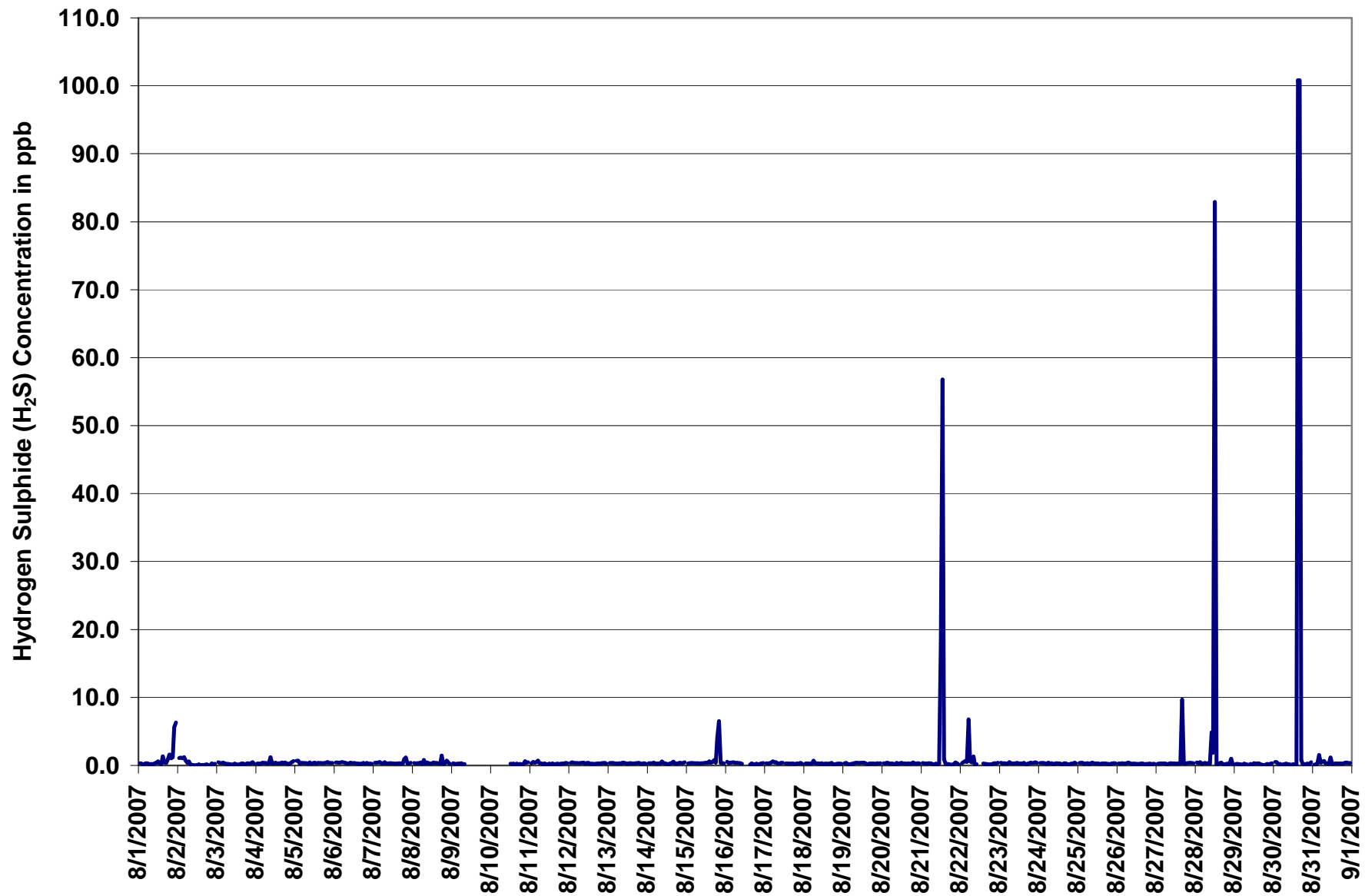
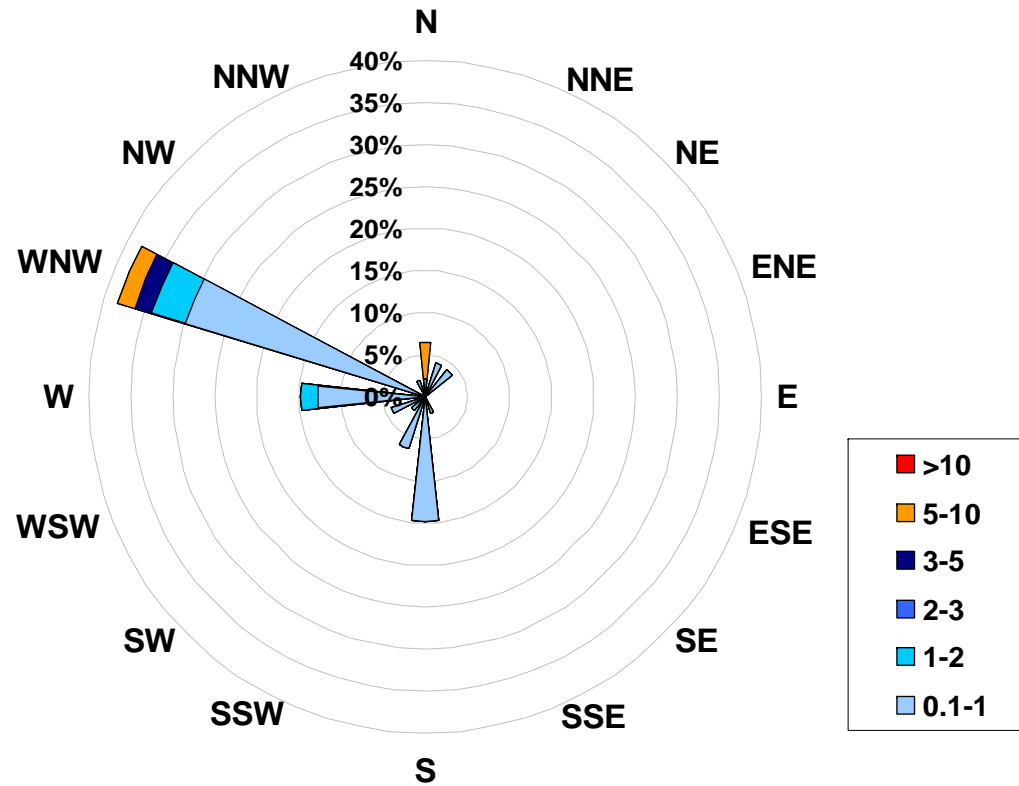


Figure 61. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

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



Calms: 0%

Frequency Distribution of H ₂ S in ppb Range			Frequency (hrs)
0.1	<	1	671
1	to	2	3
2	to	3	0
3	to	5	1
5	to	10	3
	>	10	0
Total Non-Zero Values			678

PASZA - Valleyview Relative Humidity Monthly Summary

Station: Valleyview
 Station Owner: PASZA

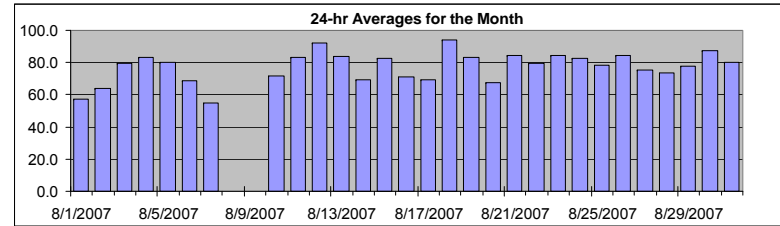
HOURLY AVERAGE TABLE

Relative Humidity (RH)

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

Summary

Maximum 1-hr Average:	99.3 %	24-Aug	8:00 9:00
Maximum 24-hr Value:	94.2 %	18-Aug	



AIC Time:	0 hrs	Operational Time:	718 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	96.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	99.1	98.5	93.8	82.5	63.6	40.6	34.4	77.4 %	82.5 %

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																								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-Aug-07	64	65	67	70	74	75	73	63	57	54	52	49	44	40	37	38	35	33	34	41	57	76	87	92	57.3	91.9
2-Aug-07	94	94	96	95	96	95	87	78	68	57	51	47	46	41	36	31	30	30	36	46	56	70	76	78	63.9	96.2
3-Aug-07	81	81	81	83	78	85	89	86	84	78	71	78	69	65	66	77	72	68	83	87	91	92	83	85	79.7	92.0
4-Aug-07	88	90	93	93	93	93	92	90	87	89	92	89	82	76	71	66	61	57	65	71	79	90	96	97	83.4	97.2
5-Aug-07	98	98	99	99	99	99	99	93	86	73	67	62	60	61	56	49	59	74	76	81	81	83	84	95	80.4	98.6
6-Aug-07	97	98	98	98	99	99	96	91	84	76	67	62	51	42	39	39	36	35	36	38	48	61	78	86	68.9	98.6
7-Aug-07	85	81	81	80	79	82	76	57	45	45	45	45	43	43	39	35	32	34	39	38	41	47	51	67	54.6	85.1
8-Aug-07	79	84	87	87	85	84	85	86	80	78	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	86.9
9-Aug-07	P	P	P	P	P	P	P	P	P	P	P	P	84	76	67	59	55	53	52	63	78	93	96	97	N	96.9
10-Aug-07	98	98	98	98	98	98	98	99	99	98	73	47	45	40	37	35	33	34	38	50	77	79	69	79	71.6	98.7
11-Aug-07	89	94	96	97	97	97	95	93	94	90	93	94	80	70	68	66	60	63	65	70	79	79	84	85	83.3	97.4
12-Aug-07	86	88	90	90	93	92	93	91	91	92	93	90	89	91	94	94	93	95	95	94	92	92	95	95	92.1	95.3
13-Aug-07	95	95	95	95	94	95	94	91	88	86	81	79	77	78	71	68	71	66	63	63	80	92	97	97	83.8	97.3
14-Aug-07	98	98	98	98	98	98	97	91	81	61	52	49	45	40	38	38	38	38	42	53	65	72	78	89	69.0	98.3
15-Aug-07	92	96	97	97	98	98	99	99	97	92	90	87	79	62	62	58	56	59	66	69	74	79	85	90	82.6	98.7
16-Aug-07	92	96	97	98	99	99	98	91	76	70	59	54	51	48	47	46	47	49	52	57	63	68	75	81	71.3	98.7
17-Aug-07	81	72	76	79	85	87	92	87	75	63	58	52	50	48	47	52	53	58	57	66	69	76	85	90	69.1	91.5
18-Aug-07	94	97	97	98	98	99	99	99	99	98	97	93	90	95	97	88	82	83	83	85	94	97	99	99	94.2	99.1
19-Aug-07	99	99	99	99	99	99	99	98	92	82	73	66	57	49	46	44	51	81	92	93	94	96	97	97	83.4	99.2
20-Aug-07	96	97	96	96	96	97	95	87	73	57	49	47	47	47	45	42	43	45	49	61	67	69	67	61	67.8	97.0
21-Aug-07	62	71	84	91	90	92	94	94	94	93	93	89	85	83	79	76	73	73	76	80	82	84	89	90	84.1	93.8
22-Aug-07	91	91	89	89	92	94	92	86	80	73	67	69	65	63	63	61	62	64	69	79	91	94	94	95	79.7	95.2
23-Aug-07	96	97	97	98	98	98	97	98	94	89	80	73	65	75	66	70	61	66	62	72	87	94	97	98	84.5	98.1
24-Aug-07	98	98	99	99	99	99	99	99	99	99	94	78	65	55	51	48	55	59	66	71	81	89	91	94	82.7	99.3
25-Aug-07	94	92	92	93	95	97	98	96	93	84	70	65	59	57	53	51	55	52	56	69	78	87	94	96	78.2	97.6
26-Aug-07	98	98	97	94	91	91	89	84	80	78	74	69	68	65	65	71	77	87	93	92	92	91	91	91	84.5	97.7
27-Aug-07	91	90	91	90	92	92	95	91	89	87	76	68	59	54	52	50	48	49	50	58	73	81	91	95	75.5	95.1
28-Aug-07	96	97	97	97	97	97	97	89	80	73	65	58	53	49	46	42	40	38	43	62	77	89	92	95	73.7	97.2
29-Aug-07	94	95	91	91	91	93	91	87	76	66	61	55	45	46	45	49	57	67	82	93	95	94	96	97	77.4	97.4
30-Aug-07	97	98	98	99	99	98	98	98	93	87	82	80	78	73	70	75	74	77	80	83	90	95	92	87	87.4	98.5
31-Aug-07	88	91	93	95	95	96	95	95	92	77	67	61	59	60	59	65	65	69	73	79	78	85	91	95	80.1	95.7
Hourly Avg	90.4	91.3	92.3	92.9	93.3	93.9	93.3	89.5	84.2	78.2	72.0	67.4	63.0	59.7	57.1	56.1	55.8	58.5	62.4	68.8	77.0	83.2	86.7	89.8		
Hourly Max	99.2	99.1	99.0	99.0	99.1	99.0	99.1	99.2	99.3	99.2	96.9	93.7	90.3	94.9	96.7	93.7	93.4	94.8	94.7	94.4	95.0	97.4	98.7	99.1		

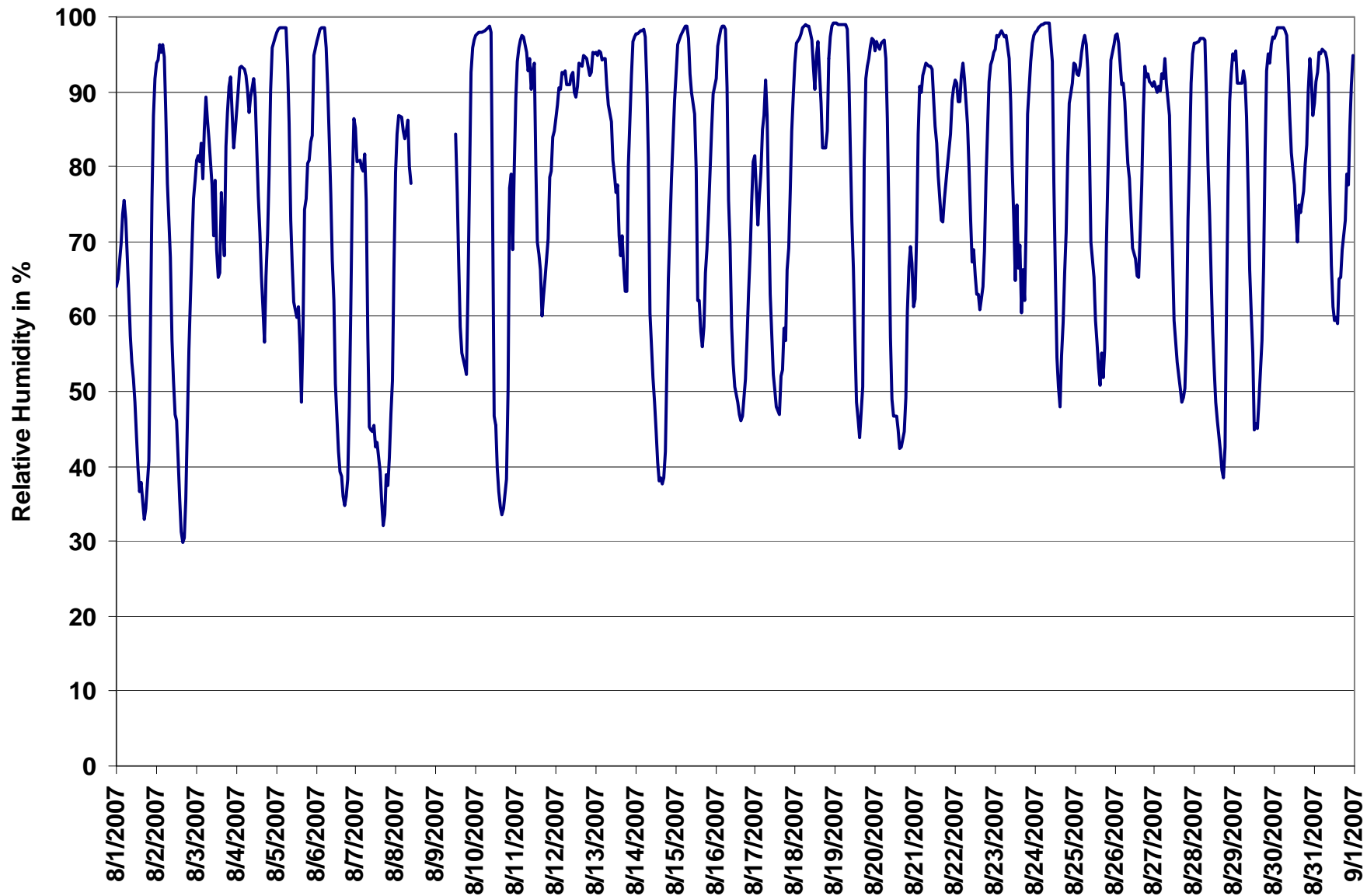


Figure 62. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend

PASZA - Valleyview Temperature Monthly Summary

Station: Valleyview
 Station Owner: PASZA

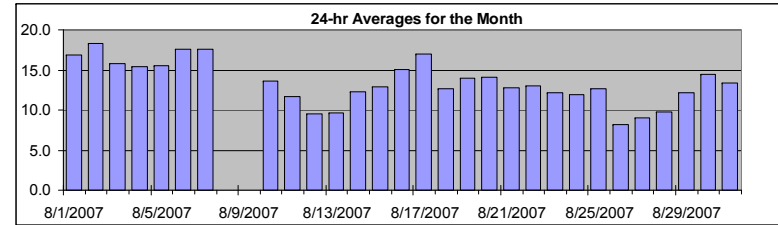
HOURLY AVERAGE TABLE

Ambient Temperature (T)

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

Summary

Maximum 1-hr Average:	27.2 °C	2-Aug	17:00 18:00
Maximum 24-hr Value:	18.4 °C	2-Aug	



AIC Time:	0 hrs	Operational Time:	718 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	96.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	25.3	21.8	16.5	13.0	10.5	6.5	3.8	13.5 °C	13.0 °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-Aug-07	13	12	12	11	10	10	11	13	15	17	18	20	21	22	23	23	23	23	23	23	23	20	16	14	12	16.8	23.2	
2-Aug-07	12	11	10	9	9	9	11	14	17	19	21	23	24	25	25	26	27	27	26	23	21	18	17	17	18.4	27.2		
3-Aug-07	16	16	15	15	15	14	14	15	15	16	17	17	18	19	19	17	17	17	16	15	14	14	15	14	15.8	18.9		
4-Aug-07	14	14	13	13	13	13	14	14	14	14	14	14	15	16	17	18	19	19	20	19	18	17	15	14	13	15.5	20.1	
5-Aug-07	12	12	11	11	10	10	10	12	14	17	18	20	20	20	20	21	20	17	18	18	17	15	14	13	15.5	21.2		
6-Aug-07	12	12	11	10	10	9	10	12	14	16	18	20	22	23	24	25	26	26	26	25	22	19	16	15	17.6	26.3		
7-Aug-07	14	14	13	13	13	12	14	18	20	20	19	19	20	20	21	22	22	22	21	20	19	17	16	14	17.6	22.2		
8-Aug-07	12	11	11	10	10	9	8	8	9	9	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	12.2		
9-Aug-07	P	P	P	P	P	P	P	P	P	P	P	P	P	18	20	20	21	22	23	23	22	20	17	16	14	N	22.9	
10-Aug-07	13	12	11	10	9	9	10	11	13	16	18	15	16	16	17	17	18	18	17	15	12	11	11	11	13.6	17.9		
11-Aug-07	10	10	9	9	8	7	8	9	9	10	11	11	11	13	14	15	15	16	16	16	15	13	12	11	11	11.7	16.4	
12-Aug-07	11	10	10	10	9	9	9	10	10	11	11	11	11	10	10	9	9	9	9	9	9	9	8	8	9.6	10.9		
13-Aug-07	8	8	8	8	8	8	8	8	8	8	9	10	11	11	11	12	12	12	13	13	13	11	9	7	6	9.6	13.3	
14-Aug-07	6	5	5	4	4	3	4	7	10	14	15	16	17	18	19	19	19	20	19	17	15	14	13	12	12.3	19.6		
15-Aug-07	12	11	10	9	8	7	7	9	11	12	13	14	15	17	18	18	18	18	17	16	15	14	12	11	12.9	17.9		
16-Aug-07	10	9	8	8	7	7	7	10	13	15	18	19	20	21	22	22	22	21	21	19	18	16	14	13	15.0	22.3		
17-Aug-07	13	13	13	13	13	12	12	13	15	17	18	19	21	22	23	23	22	21	21	19	18	17	16	15	17.0	23.2		
18-Aug-07	13	13	12	11	11	11	12	12	12	13	13	13	12	13	12	12	14	15	15	15	15	13	12	10	11	12.6	15.3	
19-Aug-07	11	12	12	11	11	12	12	12	13	15	16	17	19	19	20	21	19	14	12	12	12	11	11	11	14.0	20.6		
20-Aug-07	11	11	11	11	10	9	9	11	13	15	16	17	17	17	18	18	18	18	17	15	14	13	13	14	14.1	18.4		
21-Aug-07	13	13	11	11	11	11	11	11	11	11	12	13	13	13	14	15	15	15	15	15	15	14	14	13	12	12.7	15.2	
22-Aug-07	12	12	12	11	11	11	11	12	12	13	13	14	15	15	15	16	16	16	16	15	15	13	12	12	11	13.0	16.0	
23-Aug-07	11	10	10	9	9	9	9	9	11	12	14	15	16	16	16	16	17	16	16	15	13	11	10	9	12.2	16.9		
24-Aug-07	8	7	7	7	7	6	6	6	7	9	11	14	17	18	19	19	19	18	17	15	14	13	13	12	12.0	19.2		
25-Aug-07	12	11	11	11	11	10	10	11	11	13	15	16	16	16	17	17	16	17	15	12	11	9	8	7	12.7	17.3		
26-Aug-07	6	6	6	7	7	7	7	7	8	8	9	10	10	11	11	11	10	9	8	7	7	7	7	7	8.1	11.2		
27-Aug-07	7	7	7	6	6	6	6	6	7	8	8	9	10	11	11	12	13	13	14	14	14	12	9	8	6	5	9.1	14.2
28-Aug-07	4	4	3	3	3	3	3	5	8	10	12	14	15	15	16	17	17	17	17	15	11	9	8	6	9.8	17.5		
29-Aug-07	6	5	6	6	6	6	6	8	10	13	15	16	18	19	20	19	19	17	15	14	13	12	12	12	12.1	19.6		
30-Aug-07	12	11	11	10	10	10	10	11	12	14	15	16	18	19	20	20	19	19	18	17	16	15	14	13	14.5	19.9		
31-Aug-07	13	12	12	11	11	11	11	12	12	14	15	16	16	16	16	17	16	16	16	15	14	13	12	11	10	13.4	16.5	
Hourly Avg	10.9	10.4	10.0	9.6	9.3	9.1	9.3	10.4	11.8	13.3	14.7	15.5	16.5	17.1	17.7	18.0	18.1	17.7	17.1	16.0	14.4	13.0	12.1	11.3				
Hourly Max	16.3	15.9	15.3	14.7	15.2	14.4	14.2	17.7	19.7	19.6	20.9	22.6	23.9	24.7	25.3	26.2	26.7	27.2	26.2	25.1	22.1	18.6	17.2	16.9				

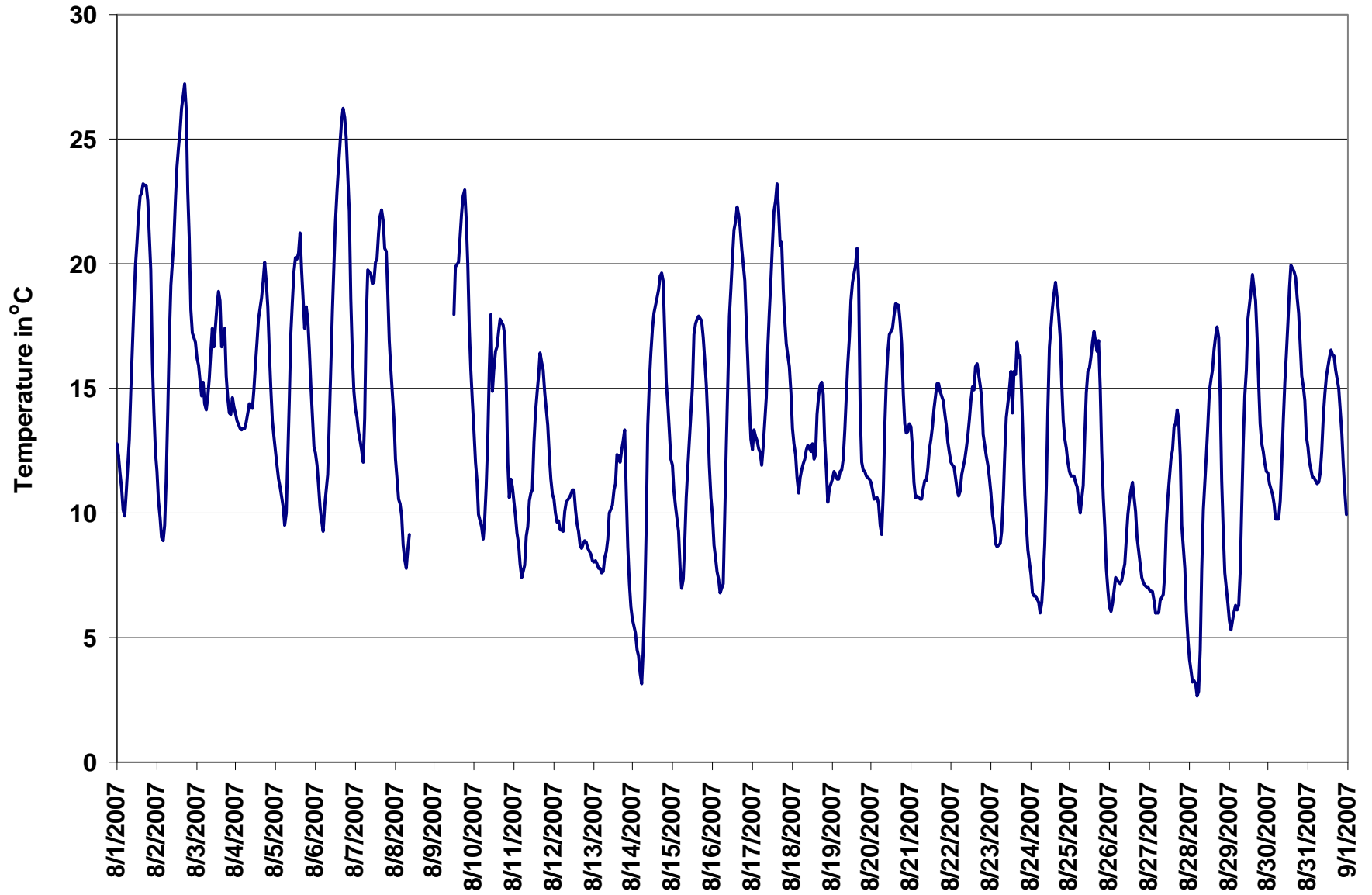


Figure 63. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

PASZA - Valleyview Scalar Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

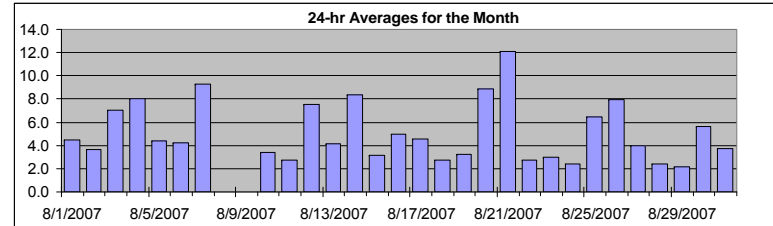
Wind Speed (WSs)

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

Summary

Maximum 1-hr Average:	17.3	km/hr	14-Aug	17:00 18:00
Maximum 24-hr Value:	12.1	km/hr	21-Aug	

Calm Time:	0 hrs	0% calms	Operational Time:	718 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	96.5%				
Percentile	99	95	75	50	25	5	1	AverageS
	15.7	13.2	6.8	3.7	2.3	1.3	1.0	5.1 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-Aug-07	13	11	10	5	4	3	3	6	6	4	4	4	6	5	3	3	4	3	3	2	1	2	1	2	4.5	13.2	
2-Aug-07	1	2	1	1	1	2	2	3	4	5	4	3	4	4	5	4	4	3	3	5	7	9	6	5	3.6	8.9	
3-Aug-07	4	7	5	4	10	4	3	5	8	9	14	11	11	12	12	10	3	5	4	3	2	6	8	7.1	13.5		
4-Aug-07	5	7	6	7	7	7	8	10	11	11	10	11	12	12	10	9	9	10	8	8	5	2	2	2	8.0	12.4	
5-Aug-07	2	2	3	2	2	1	2	4	4	4	6	7	7	9	11	10	10	3	3	2	3	2	4	3	4.4	10.6	
6-Aug-07	2	1	2	1	2	3	3	5	4	5	6	6	6	7	6	7	6	5	6	7	4	3	2	3	4.2	7.2	
7-Aug-07	4	4	4	3	4	3	4	9	16	12	13	13	17	15	15	15	16	13	9	11	6	5	5	6	9.3	16.7	
8-Aug-07	5	2	3	6	11	12	12	11	11	13	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	12.8	
9-Aug-07	P	P	P	P	P	P	P	P	P	P	P	P	P	5	3	5	6	6	4	3	2	2	1	1	2	N	6.0
10-Aug-07	1	1	1	1	1	2	2	2	2	2	3	6	6	8	7	6	5	5	4	2	2	2	5	6	3.4	7.6	
11-Aug-07	2	2	3	1	2	1	2	1	3	3	2	2	2	3	3	3	3	6	6	3	4	2	4	4	2.8	6.4	
12-Aug-07	2	4	2	3	5	7	5	5	5	7	9	10	10	10	10	11	12	11	9	10	10	9	8	8	7.5	12.1	
13-Aug-07	5	6	4	3	2	2	4	3	6	4	4	6	3	4	2	6	8	7	6	3	2	2	2	2	4.1	8.5	
14-Aug-07	4	3	4	3	2	3	4	4	5	8	10	11	13	13	15	15	15	17	13	10	6	7	8	6	8.4	17.3	
15-Aug-07	3	2	2	2	2	1	2	1	1	2	3	4	5	5	5	4	4	5	5	3	3	4	4	4	3.1	4.8	
16-Aug-07	3	3	3	4	3	2	1	1	1	2	6	8	7	7	8	8	9	10	10	9	5	3	3	3	5.0	10.2	
17-Aug-07	4	5	3	8	7	3	2	2	5	7	6	7	5	6	7	6	4	4	2	3	3	4	4	2	4.5	7.5	
18-Aug-07	3	2	1	1	2	1	2	3	3	3	3	7	4	3	4	4	3	2	1	2	1	2	3	2	2.7	7.2	
19-Aug-07	3	2	2	3	3	2	2	2	3	5	6	5	4	3	2	2	4	8	5	5	3	2	2	3	3.3	8.2	
20-Aug-07	2	2	3	2	2	2	3	3	6	13	13	13	14	13	14	14	15	14	10	11	9	10	11	13	8.9	14.5	
21-Aug-07	15	16	14	15	15	16	13	13	13	13	12	14	15	15	15	16	17	15	10	5	3	3	3	3	12.1	16.6	
22-Aug-07	1	2	3	3	3	2	2	1	2	3	3	3	5	5	5	5	4	5	2	1	2	1	1	2	2.8	5.3	
23-Aug-07	1	2	1	1	2	2	3	3	2	3	4	4	6	8	5	4	4	4	5	2	1	2	1	2	3.0	8.3	
24-Aug-07	1	1	1	2	1	1	3	2	2	3	2	3	3	2	4	2	3	3	3	5	2	2	2	3	2.4	5.2	
25-Aug-07	8	8	4	7	2	2	2	3	4	5	10	10	10	10	10	9	9	9	15	9	5	2	2	1	6.4	15.1	
26-Aug-07	2	3	3	3	6	4	7	9	10	10	9	11	9	12	14	16	12	10	11	10	5	6	6	4	8.0	15.6	
27-Aug-07	2	2	2	3	2	2	1	2	5	3	6	7	7	7	8	8	5	4	5	4	4	2	2	1	4.0	8.0	
28-Aug-07	3	4	2	1	1	1	2	3	3	3	3	3	3	3	4	4	3	3	2	2	2	1	1	1	2.4	4.1	
29-Aug-07	1	1	1	1	1	1	1	2	3	3	2	3	3	2	2	4	2	3	3	3	3	2	1	2	2.1	3.8	
30-Aug-07	2	2	2	1	2	1	2	1	2	3	1	3	6	8	10	9	10	6	7	12	10	9	13	10	5.6	13.0	
31-Aug-07	5	2	3	4	3	3	3	2	2	4	8	8	6	4	5	4	5	4	4	3	2	2	2	1	3.7	8.5	
1-hr Average	3.7	3.8	3.3	3.4	3.7	3.3	3.5	4.1	5.0	5.6	6.2	7.0	7.1	7.2	7.5	7.6	7.3	6.6	5.9	5.3	3.9	3.5	3.9	3.9			
Hourly Max	15.0	15.9	14.0	14.9	15.4	16.0	13.5	12.6	15.8	13.1	13.5	14.2	16.7	15.2	15.5	16.0	16.6	17.3	15.1	11.8	10.3	9.6	13.0	13.2			

PASZA - Valleyview Vector Wind Speed Monthly Summary

Station: Valleyview
 Station Owner: PASZA

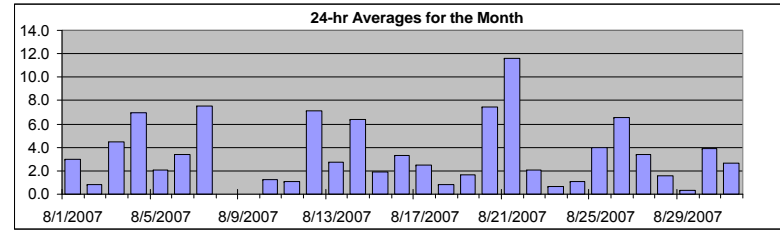
HOURLY AVERAGE TABLE

Wind Speed (WSv)

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

Summary

Maximum 1-hr Average:	16.9	km/hr	14-Aug	17:00 18:00
Maximum 24-hr Value:	11.6	km/hr	21-Aug	



Calm Time:	0 hrs	0% calms	Operational Time:	718 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	96.5%				
Percentile	99	95	75	50	25	5	1	AverageV
	15.5	13.0	6.3	3.2	1.8	0.7	0.2	3.7 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		
1-Aug-07	13	11	10	5	4	2	2	6	5	2	3	3	4	2	1	3	3	3	3	2	1	1	1	1	1	3.0	13.1
2-Aug-07	0	1	1	1	1	1	2	3	4	5	4	3	3	2	4	3	3	3	3	2	4	5	8	5	5	0.8	8.3
3-Aug-07	1	6	4	3	8	3	2	4	8	8	13	10	10	11	12	12	10	2	5	4	3	1	5	8	4.4	13.3	
4-Aug-07	5	6	6	7	7	7	8	9	11	11	10	11	12	12	10	9	8	10	8	8	5	2	2	2	7.0	12.0	
5-Aug-07	2	2	3	2	1	1	2	4	4	3	4	6	6	8	10	10	10	2	3	1	3	2	4	2	2.1	9.8	
6-Aug-07	2	1	2	1	2	3	3	5	4	4	5	6	6	6	5	6	5	5	6	6	3	2	2	3	3.4	6.4	
7-Aug-07	4	4	4	3	4	3	4	8	16	11	13	13	16	15	15	15	15	13	8	11	6	5	4	6	7.6	16.4	
8-Aug-07	5	2	2	5	11	12	12	11	10	12	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	12.5	
9-Aug-07	P	P	P	P	P	P	P	P	P	P	P	P	4	2	4	5	5	3	0	2	1	0	1	2	N	5.3	
10-Aug-07	1	1	1	1	1	0	1	2	2	1	1	4	3	6	6	4	4	4	4	2	1	1	5	6	1.2	6.4	
11-Aug-07	0	1	3	1	1	1	1	2	2	2	1	2	2	2	1	2	2	6	5	3	3	0	3	3	1.1	6.2	
12-Aug-07	1	4	2	3	4	7	5	5	4	6	9	9	9	9	10	11	12	11	8	10	10	9	8	8	7.1	11.9	
13-Aug-07	5	6	4	3	2	2	4	2	5	4	4	5	2	4	1	5	8	7	5	2	2	2	2	2	2.7	8.2	
14-Aug-07	4	3	4	3	2	3	4	4	5	7	10	10	13	13	15	15	15	17	13	10	6	7	7	5	6.4	16.9	
15-Aug-07	2	2	2	1	1	0	1	1	1	2	2	4	4	4	4	3	4	4	5	3	3	4	4	4	1.9	4.7	
16-Aug-07	3	3	3	4	2	1	0	1	1	1	5	8	7	6	8	8	9	10	10	9	5	2	3	3	3.3	10.0	
17-Aug-07	4	4	1	7	6	2	1	2	4	7	6	7	4	5	7	4	4	3	2	3	3	4	2	1	2.5	7.3	
18-Aug-07	2	1	1	1	2	0	1	1	1	3	2	6	3	2	4	3	3	1	1	2	1	1	3	2	0.9	6.4	
19-Aug-07	2	2	2	2	3	2	2	1	3	4	5	4	3	2	1	2	2	6	3	5	2	2	2	2	1.7	5.9	
20-Aug-07	2	2	2	2	2	2	3	3	5	13	12	13	13	13	14	14	14	13	10	11	8	9	11	13	7.5	14.1	
21-Aug-07	15	16	14	15	15	16	13	12	13	13	12	14	15	15	14	16	16	15	10	5	3	3	2	2	11.6	16.4	
22-Aug-07	0	1	3	3	2	2	2	1	2	2	2	2	4	3	5	4	3	4	2	0	1	0	1	2	2.1	4.9	
23-Aug-07	1	1	1	1	1	1	3	3	2	3	3	2	5	8	4	4	3	3	5	2	1	1	1	1	0.7	8.0	
24-Aug-07	1	1	1	1	1	1	3	2	1	2	1	2	2	0	2	1	2	3	2	5	0	1	1	2	1.1	4.9	
25-Aug-07	8	8	1	5	1	1	2	3	3	9	10	9	9	10	9	10	9	9	15	8	5	1	2	1	4.0	14.8	
26-Aug-07	2	3	3	2	6	4	6	9	10	9	8	10	9	12	13	15	11	9	11	10	5	6	6	4	6.6	15.3	
27-Aug-07	2	2	2	3	1	1	1	2	5	2	6	6	7	6	7	7	4	4	5	4	3	2	2	1	3.4	7.4	
28-Aug-07	3	4	0	1	1	1	2	3	2	3	2	1	1	1	2	3	3	2	2	2	2	1	1	1	1.6	4.0	
29-Aug-07	1	1	1	1	1	1	1	1	3	3	1	2	2	2	1	4	2	2	2	2	3	1	0	0	0.4	3.6	
30-Aug-07	1	2	2	0	1	1	1	0	2	3	1	2	6	8	9	9	10	6	7	10	9	9	13	10	3.9	12.8	
31-Aug-07	4	2	2	4	3	3	3	2	2	4	8	7	6	4	4	4	5	4	4	3	2	2	2	1	2.6	8.2	
1-hr Vector	1.2	1.0	1.3	1.2	1.4	1.1	0.8	1.3	1.7	2.2	2.9	3.6	3.6	3.5	4.0	4.6	4.0	3.3	2.3	2.1	1.4	1.6	2.1	1.5			
Hourly Max	14.8	15.7	13.8	14.7	15.3	15.9	13.3	12.5	15.6	12.9	13.3	14.1	16.4	15.0	15.0	15.8	16.4	16.9	14.8	11.3	10.0	9.4	12.8	12.9			

PASZA - Valleyview Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

Calm Time: 0 hrs	0% calms	Operational Time: 718 hrs
Calibration Time: 0 hrs		AMD Operational Uptime: 96.5%
Percentile		
99	95	75
356.7	348.5	294.5
136.8	14.5	3.0
		Average
		314 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

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour	WD
	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	Average	Sector
1-Aug-07	286	284	291	283	265	245	233	279	308	266	251	247	289	254	264	157	146	141	127	102	108	357	215	188	268	W	
2-Aug-07	37	220	212	299	192	221	200	191	195	185	198	189	146	65	27	56	87	80	60	30	329	15	11	25	56	NE	
3-Aug-07	349	20	30	86	309	344	60	40	31	27	351	325	311	315	306	294	286	229	187	182	171	231	293	300	327	NNW	
4-Aug-07	307	289	303	298	306	313	325	334	340	337	329	333	350	357	7	333	335	318	306	302	280	200	190	200	325	NW	
5-Aug-07	188	190	185	193	182	195	190	195	194	238	261	287	295	326	332	348	349	336	209	219	241	243	354	176	286	WNW	
6-Aug-07	183	185	181	159	186	186	183	180	184	187	184	189	193	243	246	259	249	258	269	290	256	215	196	197	220	SW	
7-Aug-07	198	193	195	195	196	202	193	286	301	299	294	297	300	306	305	301	308	320	326	318	305	275	323	17	298	WNW	
8-Aug-07	6	1	271	331	11	17	16	16	13	7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	-	
9-Aug-07	P	P	P	P	P	P	P	P	P	P	P	P	12	78	2	0	5	20	179	182	123	142	278	180	N	-	
10-Aug-07	230	214	201	248	289	350	208	186	192	133	127	351	3	24	22	18	33	129	138	162	159	32	324	335	22	NNE	
11-Aug-07	108	73	28	202	262	43	327	220	113	303	189	178	179	156	132	119	31	18	30	58	93	157	173	105	92	E	
12-Aug-07	94	9	352	324	5	19	25	40	44	52	45	49	54	35	27	28	31	28	32	11	13	14	5	5	27	NNE	
13-Aug-07	1	3	343	346	329	356	355	338	4	349	4	4	60	172	160	328	345	347	340	303	222	202	185	174	348	NNW	
14-Aug-07	177	184	188	193	190	197	185	187	195	263	268	270	268	270	287	308	299	294	295	299	290	343	343	305	279	W	
15-Aug-07	259	137	232	179	17	182	175	155	2	353	12	35	62	105	70	62	67	61	61	69	31	8	10	15	52	NE	
16-Aug-07	33	358	350	348	15	47	273	29	138	328	147	144	138	118	128	129	139	145	142	134	128	61	15	360	119	ESE	
17-Aug-07	47	30	286	130	136	187	161	160	163	166	158	142	125	151	159	96	168	245	165	163	273	307	21	312	148	SSE	
18-Aug-07	286	195	214	214	195	257	107	28	273	156	348	1	350	209	68	294	350	167	67	17	107	23	332	321	344	NNW	
19-Aug-07	318	289	146	20	192	200	169	186	165	183	187	185	165	144	188	197	109	348	255	137	207	195	206	192	187	S	
20-Aug-07	178	192	187	188	195	196	187	188	252	277	274	278	281	302	303	305	306	309	304	333	313	289	275	278	287	WNW	
21-Aug-07	284	282	286	286	290	291	289	292	292	305	311	312	319	317	318	316	321	325	330	321	304	292	342	359	304	NW	
22-Aug-07	316	326	22	31	346	322	327	10	40	34	353	299	332	3	23	24	28	22	50	167	155	168	50	176	8	N	
23-Aug-07	179	164	150	150	184	139	186	191	198	201	253	331	328	8	16	359	360	63	28	25	132	344	213	187	357	N	
24-Aug-07	148	165	120	299	225	165	157	172	173	163	147	354	40	230	141	313	40	102	133	182	197	131	357	103	145	SE	
25-Aug-07	135	136	275	345	51	343	235	265	249	275	308	327	303	305	299	315	290	319	333	19	20	217	194	192	313	NW	
26-Aug-07	198	191	199	257	303	272	286	284	279	275	281	290	311	316	318	325	328	346	354	359	348	332	345	330	311	NW	
27-Aug-07	312	267	288	287	262	262	195	256	289	283	294	289	298	318	321	302	331	355	324	300	16	337	207	186	303	WNW	
28-Aug-07	191	189	78	181	211	177	193	192	180	183	178	225	214	224	13	119	141	174	138	128	159	246	208	353	177	S	
29-Aug-07	222	262	241	215	231	201	200	179	180	173	167	178	169	133	32	350	350	279	335	20	24	82	211	259	216	SW	
30-Aug-07	198	184	181	166	156	182	14	356	141	147	132	21	17	351	357	11	20	14	352	357	336	321	323	318	351	N	
31-Aug-07	301	234	178	189	195	192	183	188	164	267	291	289	292	253	221	196	197	197	194	204	198	183	191	179	229	SW	
Hourly Avg	281	270	270	281	286	292	269	282	288	290	289	304	315	320	330	330	335	336	334	344	326	325	322	316			

PASZA - Valleyview Standard Deviation of Wind Direction Monthly Summary

Station: Valleyview
 Station Owner: PASZA

HOURLY AVERAGE TABLE

Wind Direction (WD)

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

Summary

--

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	718 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	96.5%			
Percentile	99	95	75	50	25	5	1
	92.6	78.3	47.1	25.9	13.9	8.6	6.4

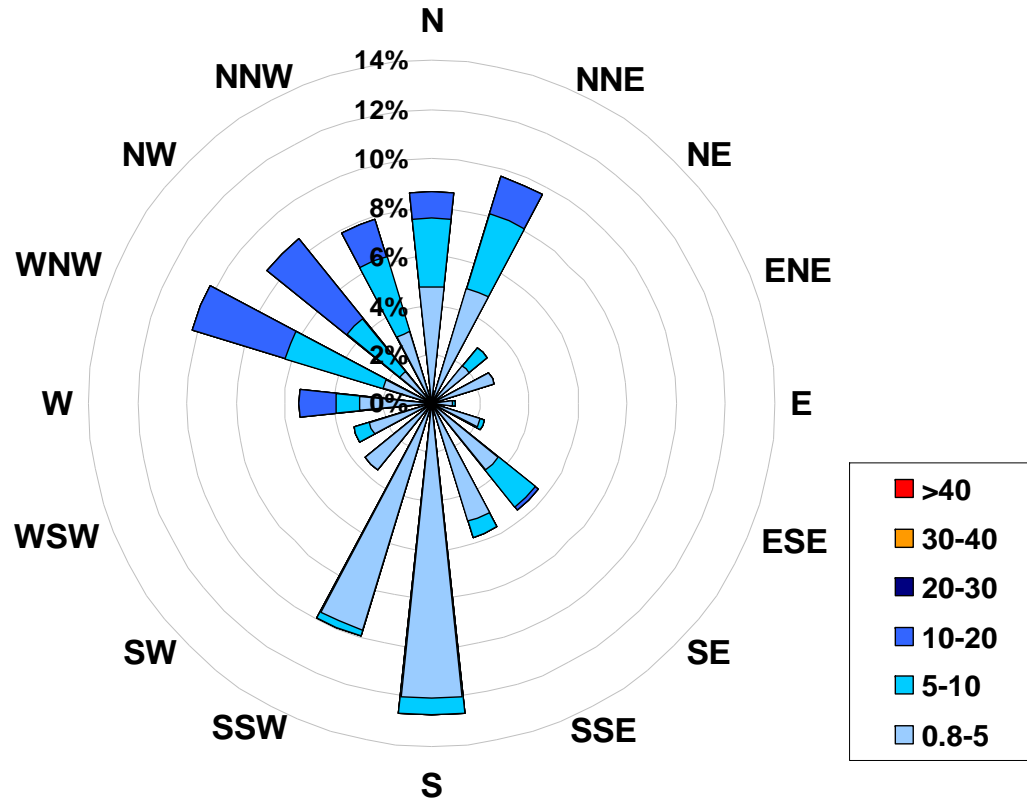
Status Flag Characters

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

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-Aug-07	8	9	9	20	24	50	56	21	31	68	55	50	55	65	86	38	52	24	16	32	42	36	63	69		86.4	
2-Aug-07	96	61	25	63	47	49	30	15	12	17	24	61	30	64	42	70	47	36	30	13	40	19	21	16		96.5	
3-Aug-07	78	54	33	37	38	50	51	28	18	22	12	14	12	14	10	8	13	44	12	12	28	40	12	12		78.4	
4-Aug-07	14	13	15	9	11	10	9	12	6	9	9	11	15	14	19	21	15	20	14	10	14	25	19	14		24.9	
5-Aug-07	19	13	16	16	35	19	14	11	14	48	40	43	40	30	24	21	18	53	26	51	39	42	65	50		65.4	
6-Aug-07	12	16	17	20	12	10	9	14	15	17	17	15	24	30	37	28	37	27	13	17	39	13	11	7		39.1	
7-Aug-07	6	5	7	7	13	17	15	31	10	17	13	13	11	14	14	16	17	12	13	13	12	11	45	13		45.2	
8-Aug-07	12	67	34	25	12	9	9	12	13	14	P	P	P	P	P	P	P	P	P	P	P	P	P	P		66.9	
9-Aug-07	P	P	P	P	P	P	P	P	P	P	P	P	P	52	50	48	35	31	69	94	22	46	88	75	53		93.7
10-Aug-07	65	57	45	31	55	90	35	22	37	72	74	57	80	38	32	55	59	27	19	41	42	53	41	23		90.4	
11-Aug-07	91	78	26	54	57	74	81	74	51	61	74	36	40	44	70	48	59	16	25	31	47	82	65	45		91.0	
12-Aug-07	73	23	24	39	17	9	11	20	29	13	11	14	14	12	9	11	10	11	14	9	8	8	9	10		72.5	
13-Aug-07	9	14	14	45	30	19	9	46	18	29	26	29	58	28	73	40	14	21	15	30	23	13	9	11		73.5	
14-Aug-07	8	6	6	6	12	6	8	9	11	30	19	21	15	12	13	16	12	12	10	19	19	19	22	26		30.2	
15-Aug-07	52	39	57	43	84	91	61	66	53	43	58	23	26	42	41	39	25	26	14	23	18	9	10	5		90.6	
16-Aug-07	10	8	15	8	39	51	82	27	74	66	32	22	23	35	21	21	13	12	12	7	13	52	17	37		82.0	
17-Aug-07	16	41	72	13	43	34	46	33	20	17	26	20	37	33	20	40	20	29	29	33	23	16	64	87		87.0	
18-Aug-07	47	52	59	44	36	95	54	83	80	29	76	30	73	65	33	52	46	44	62	25	51	67	23	47		95.1	
19-Aug-07	35	47	63	59	14	17	18	37	22	18	17	30	47	66	83	46	51	50	66	20	20	25	32	21		83.1	
20-Aug-07	22	14	16	16	10	8	11	12	37	13	15	16	14	13	13	15	15	11	12	10	14	15	11	12		37.1	
21-Aug-07	9	8	10	7	8	7	8	7	11	10	10	9	7	8	9	10	7	10	10	11	16	12	61	53		60.7	
22-Aug-07	70	57	37	17	33	27	31	42	42	39	52	72	36	61	27	46	41	16	36	92	42	86	82	35		92.5	
23-Aug-07	21	27	49	70	47	51	23	16	24	26	42	78	44	23	54	32	61	29	13	19	78	74	55	88		88.1	
24-Aug-07	75	72	75	52	47	58	23	31	63	36	85	67	72	94	61	75	47	17	38	22	97	74	83	46		96.6	
25-Aug-07	14	9	81	44	60	86	32	26	47	48	19	17	20	17	16	19	13	23	11	10	19	55	26	65		86.1	
26-Aug-07	18	12	15	42	14	27	14	12	12	17	23	15	17	14	14	11	13	17	12	9	10	13	15	17		42.3	
27-Aug-07	27	36	58	16	45	31	50	32	31	56	29	21	21	32	22	29	52	31	20	23	37	50	33	31		58.1	
28-Aug-07	9	7	89	59	20	78	15	15	38	30	55	81	73	78	71	40	27	28	19	13	18	55	62	57		89.1	
29-Aug-07	64	41	20	31	63	20	45	47	18	29	62	39	36	61	95	17	39	48	38	63	35	49	99	91		99.0	
30-Aug-07	50	35	24	91	39	69	56	93	60	23	61	35	22	18	10	10	10	10	23	30	29	8	8	12		92.6	
31-Aug-07	63	37	48	11	18	9	22	14	39	34	15	22	28	31	29	16	10	8	6	15	18	18	13	23		63.3	
Hourly Max	96	78	89	91	84	95	82	93	80	72	85	81	80	94	95	75	61	69	94	92	97	88	99	91			

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



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	455
5	to	10	163
10	to	20	100
20	to	30	0
30	to	40	0
	>	40	0
Total Non-Zero Values			718

PASZA

Monthly Passive Data Summary

Table 1. PASZA Passive Stations for August 2007

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
20a	Shaftesbury	0.3	16.1	0.3	
20b	Shaftesbury	0.3	15.3	0.3	
21a	Eaglesham	0.3	16.3	0.3	
21b	Eaglesham	0.2	16.6	0.1	
35a	Jean Cote	0.3	19.1	0.6	
35b	Jean Cote	0.4	19.2	0.4	
40a	McLennan	0.4	18.4	0.6	
40b	McLennan	0.5	17.9	0.3	
51a	Bear Canyon	0.4	17.8	0.3	
51b	Bear Canyon	0.4	19.4	0.3	
49a	Grande Prairie HP	0.3	22.9	4.1	
49b	Grande Prairie HP	0.5	21.4	3.4	
1	Silver Valley	0.4	18.2	1.2	08-27-081-11 W6M
2	Bay Tree	0.3	17.7	0.0	13-16-078-13 W6M
3	Forth Creek	0.2	21.3	0.3	04-13-082-07 W6M
4	Gordondale	0.7	21.5	0.6	04-34-078-10 W6M
5	Boone Creek	0.3	19.3	0.6	01-23-076-11 W6M
7	Steeprock Creek	0.4	20.1	0.5	09-35-072-13 W6M
9	Spirit River	0.4	20.2	0.6	08-12-079-07 W6M
10	Woking	0.5	17.8	0.5	01-13-076-07 W6M
11	Webber Creek	0.4	20.1	0.7	09-36-074-09 W6M
12	Hythe	0.6	20.8	1.0	14-36-072-11 W6M
14	Sylvester	0.2	16.0	0.7	08-06-069-12 W6M
16	Beaverlodge	N/A	N/A	1.9	15-36-071-10 W6M
17	Poplar	0.4	19.3	0.7	13-06-073-08 W6M
18	Saddle Hills	0.3	18.5	0.7	04-25-074-07 W6M
19	Wanham	0.3	21.6	0.2	16-22-077-03 W6M
20	Shaftesbury	0.3	15.7	0.3	04-03-082-23 W5M
21	Eaglesham	0.3	16.4	0.2	16-21-079-25 W5M
23	Bear Lake	0.3	17.7	0.7	15-31-072-06 W6M

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

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
24	Wembley	0.3	18.3	1.2	12-31-070-08 W6M
25	Pinto Creek	0.2	18.4	0.8	04-24-069-11 W6M
26	Flyingshot	0.5	17.9	0.9	15-36-070-07 W6M
27	Grande Prairie I	0.5	20.4	2.8	08-15-071-06 W6M
28	Clairmont Lake	0.3	20.8	0.8	09-06-073-04 W6M
29	Smoky Heights	0.4	24.8	1.0	04-06-075-02 W6M
30	Fitzsimmons	0.2	15.8	0.6	15-36-072-03 W6M
32	Gold Creek	0.3	12.0	1.0	06-33-067-05 W6M
33	Wapiti	0.6	18.5	0.8	02-25-071-03 W6M
34	Puskwaskau	0.3	14.5	0.2	15-35-074-25 W5M
35	Jean Cote	0.3	19.2	0.5	12-35-079-21 W5M
36	Guy	0.3	18.9	0.9	03-04-076-22 W5M
37	Crooked Creek	0.3	17.4	0.8	16-01-071-26 W5M
38	Karr Creek	N/A	N/A	N/A	10-16-065-02 W6M
39	Clouston Creek	0.3	19.1	0.3	12-01-073-22 W5M
40	McLennan	0.4	18.1	0.5	03-29-077-19 W5M
41	Valleyview	0.4	22.4	0.7	09-30-069-22 W5M
42	Sunset House	0.3	22.9	0.2	05-32-070-19 W5M
43	High Prairie	0.2	17.5	0.6	16-13-074-17 W5M
44	Peavine	0.3	16.9	0.3	03-05-079-15 W5M
45	Gift Lake	0.3	14.3	0.3	10-07-079-12 W5M
46	Little Smoky	0.4	19.2	0.8	12-01-065-21 W5M
47	Kinuso	0.4	15.5	0.1	12-10-073-10 W5M
48	Deer Mountain	0.3	14.9	0.1	15-22-068-09 W5M
49	Grande Prairie HP	0.4	22.1	3.8	17-26-071-06 W6M
50	Clear River	0.4	17.8	0.6	SE-03-084-12 W6M
51	Bear Canyon	0.4	18.6	0.3	SE-28-085-12 W6M
52	Worsley	0.3	19.2	0.5	NE-34-085-07 W6M
53	Hines Creek	0.2	16.7	0.2	SW-09-084-04 W6M
54	Ronan	0.3	19.6	1.1	SE-03-082-04 W6M
55	Cadotte Lake School	N/A	N/A	N/A	NE-23-086-16 W5M
56	Simon Lake Store	0.5	16.0	0.4	SE-32-086-17 W5M
57	Dixonville	0.3	18.8	0.3	SE-14-087-24 W5M
58	Queen Elizabeth Park	0.3	20.5	0.8	NW-19-083-23 W5M
59	Blue Sky	0.3	19.6	0.6	SW-35-081-02 W6M
60	Gerry Lake	0.3	17.7	0.1	SW-22-084-02 W6M
61	Musreau Lake	0.3	18.2	0.4	NE-22-064-05 W6M

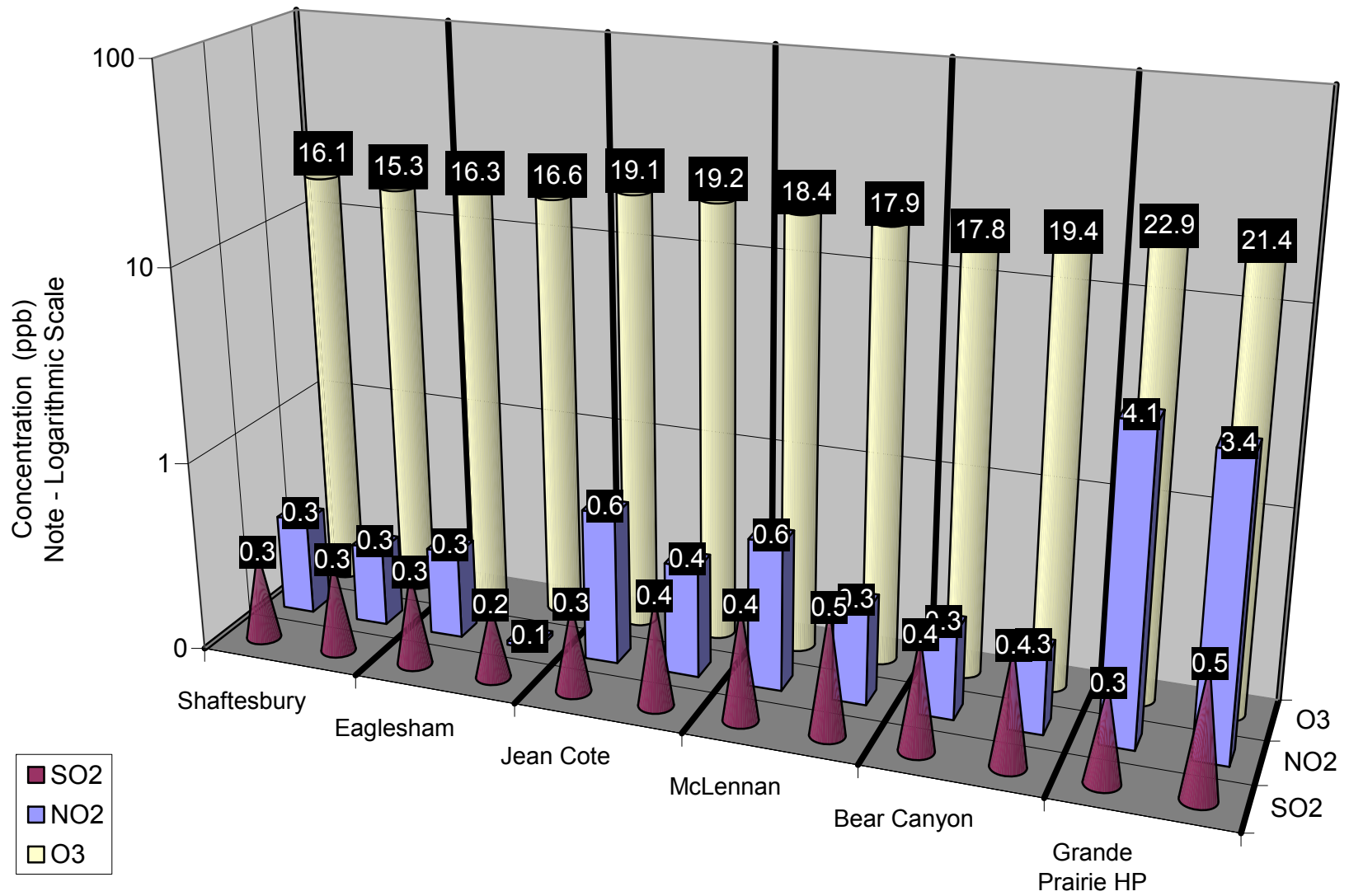


Figure 64. Duplicate Summary Chart

Table 2. Passive Summary Results for August 2007

Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂
	ppb	ppb	ppb
Passive Summary for August 2007 (PASZA Zone)			
Mean	0.3	18.6	0.7
Standard Deviation	0.1	2.4	0.6
Minimum	0.2	12.0	0.0
Minimum At	Sylvester (#14)	Gold Creek (#32)	Bay Tree (#2)
Maximum	0.7	24.8	6.0
Maximum At	Gordondale (#4)	Smoky Heights (#29)	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	21.1	2.3
PASZA Beaverlodge passive	N/A	N/A	1.9
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)			
	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.2	21.7	5.0
PASZA Grande Prairie passive	0.4	22.1	3.8

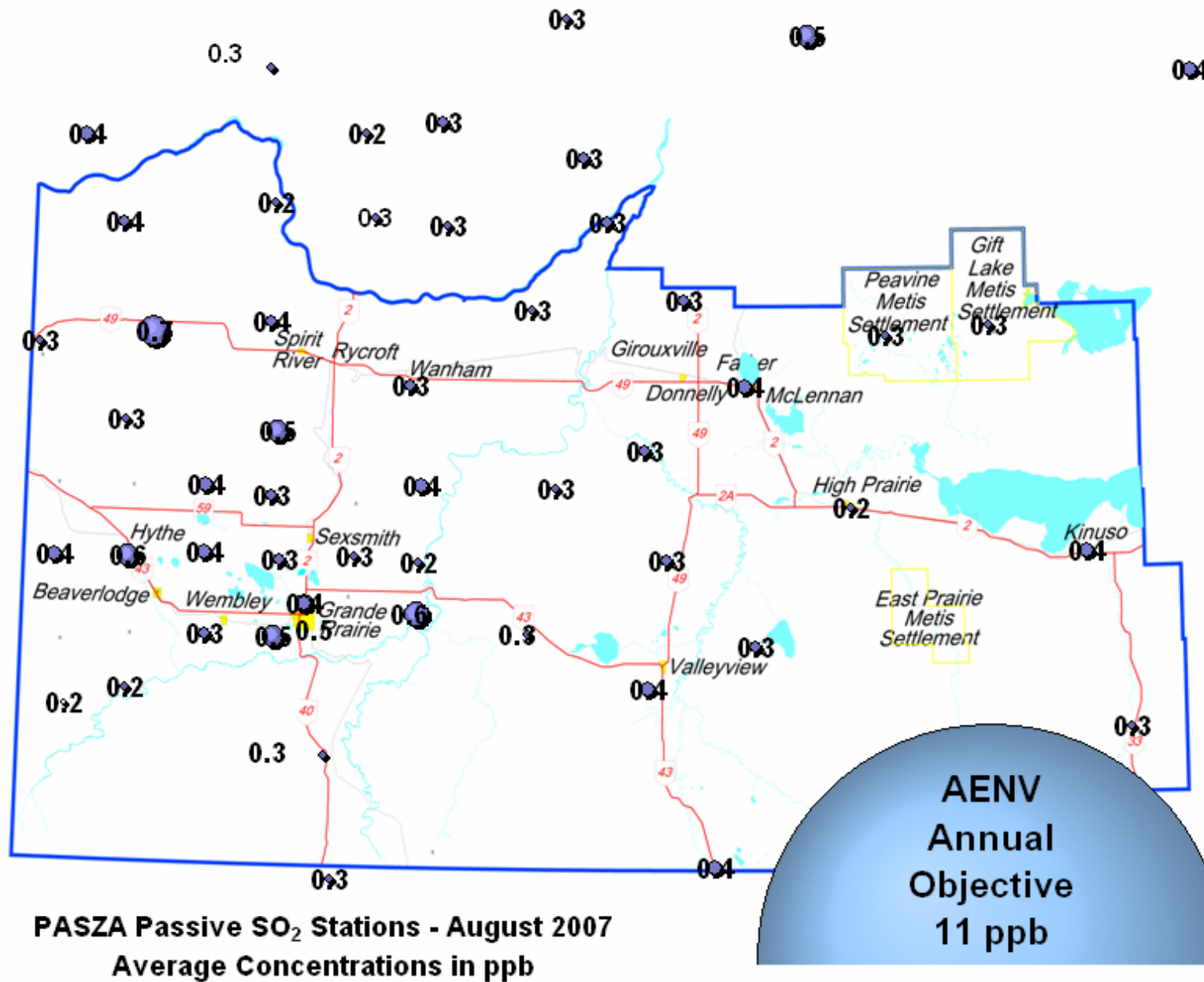


Figure 65. SO₂ Bubble Chart

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

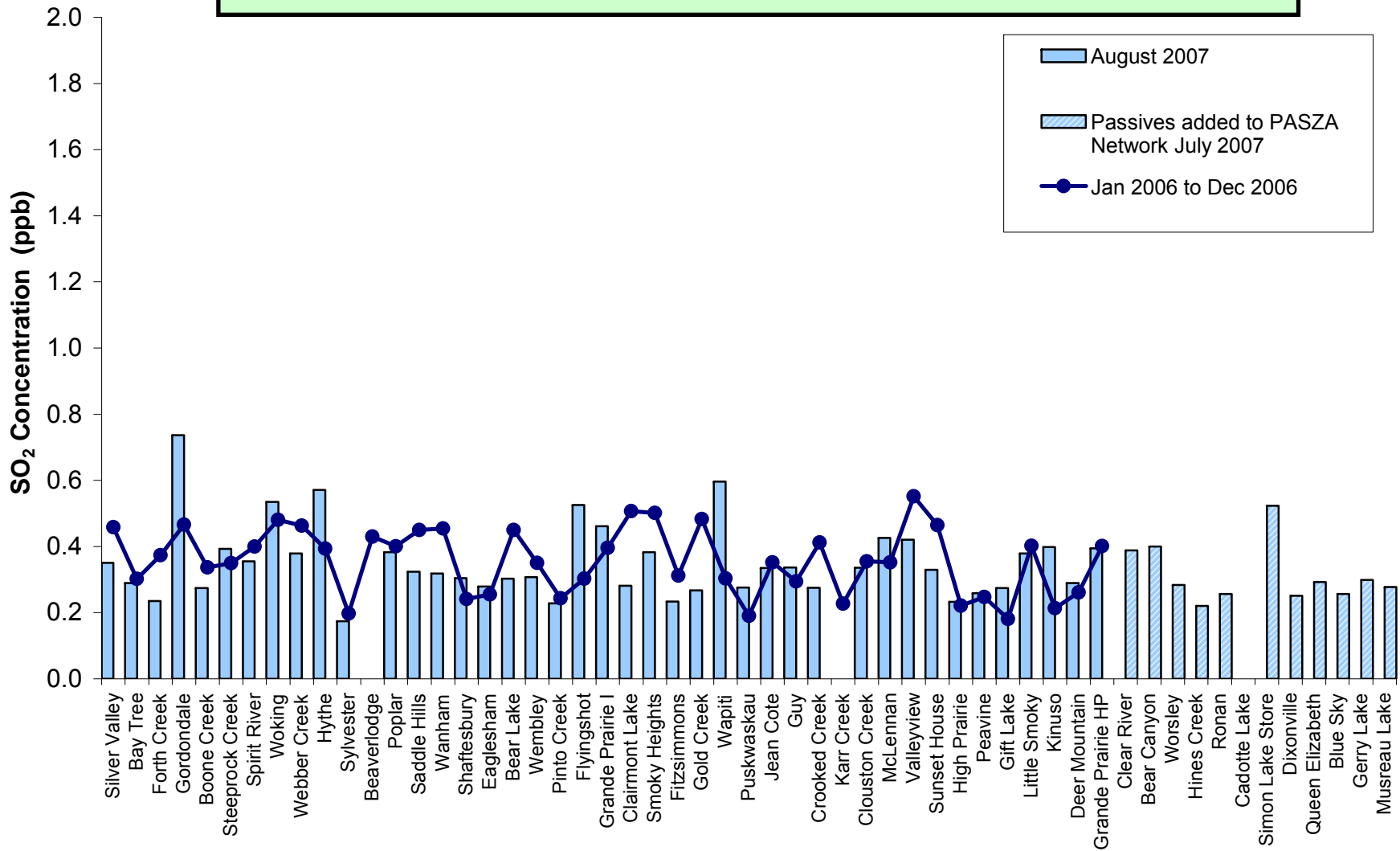
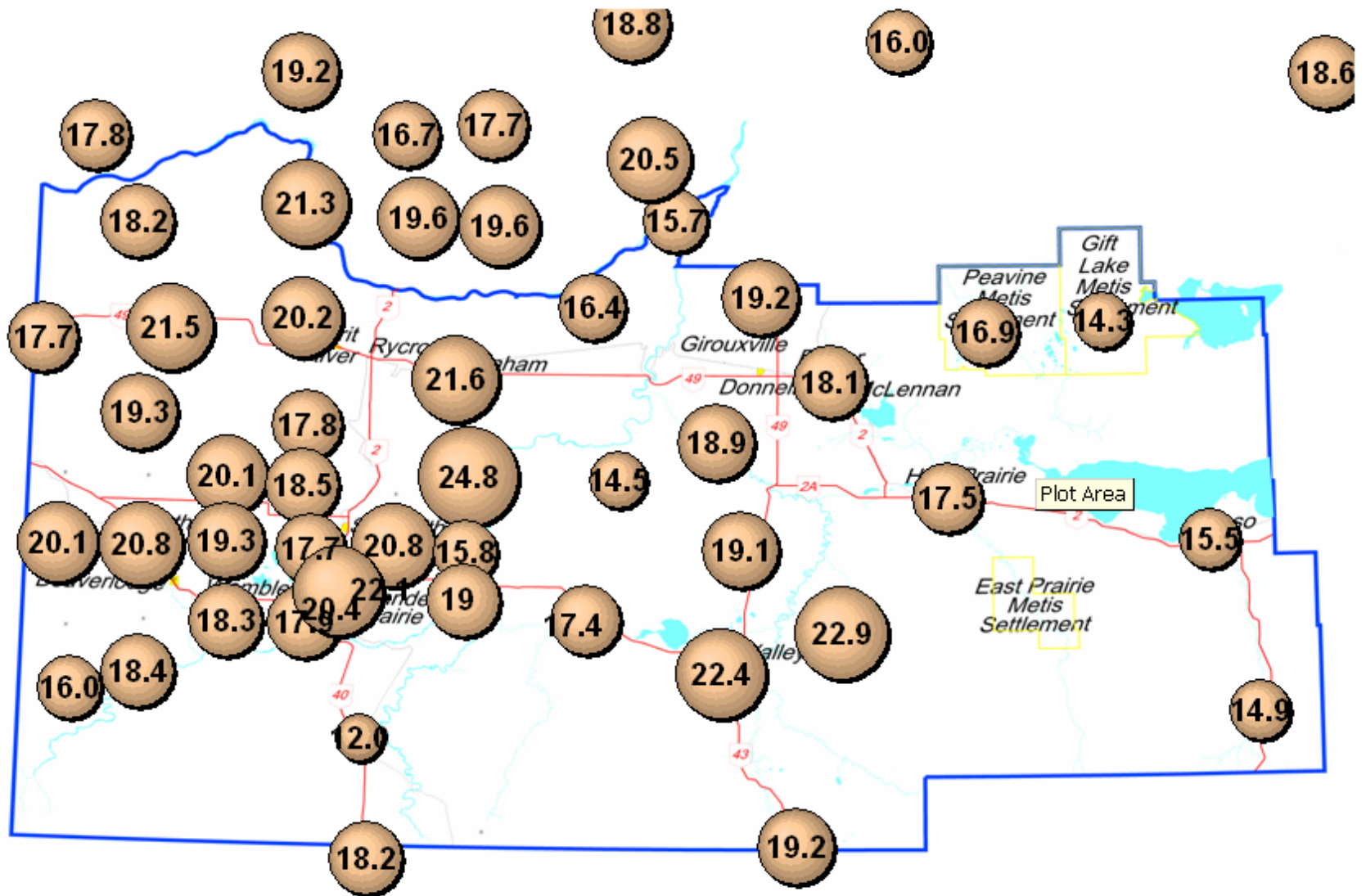


Figure 66. SO₂ Summary Chart



PASZA Passive O₃ Stations - August 2007
Average Concentrations in ppb

Figure 67. O₃ Bubble Chart

Alberta Ambient Air Quality Objective - No Annual O₃ Objective

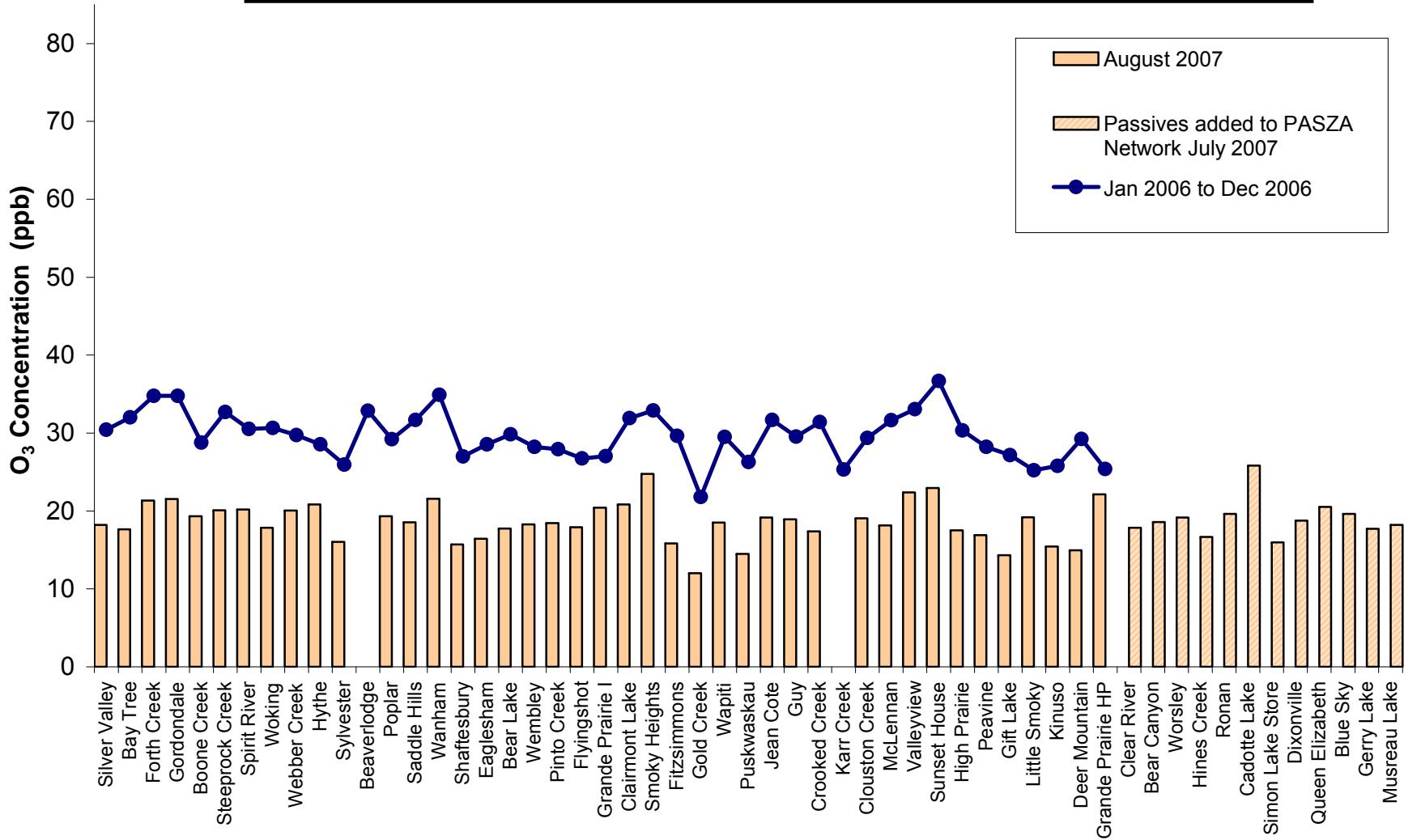
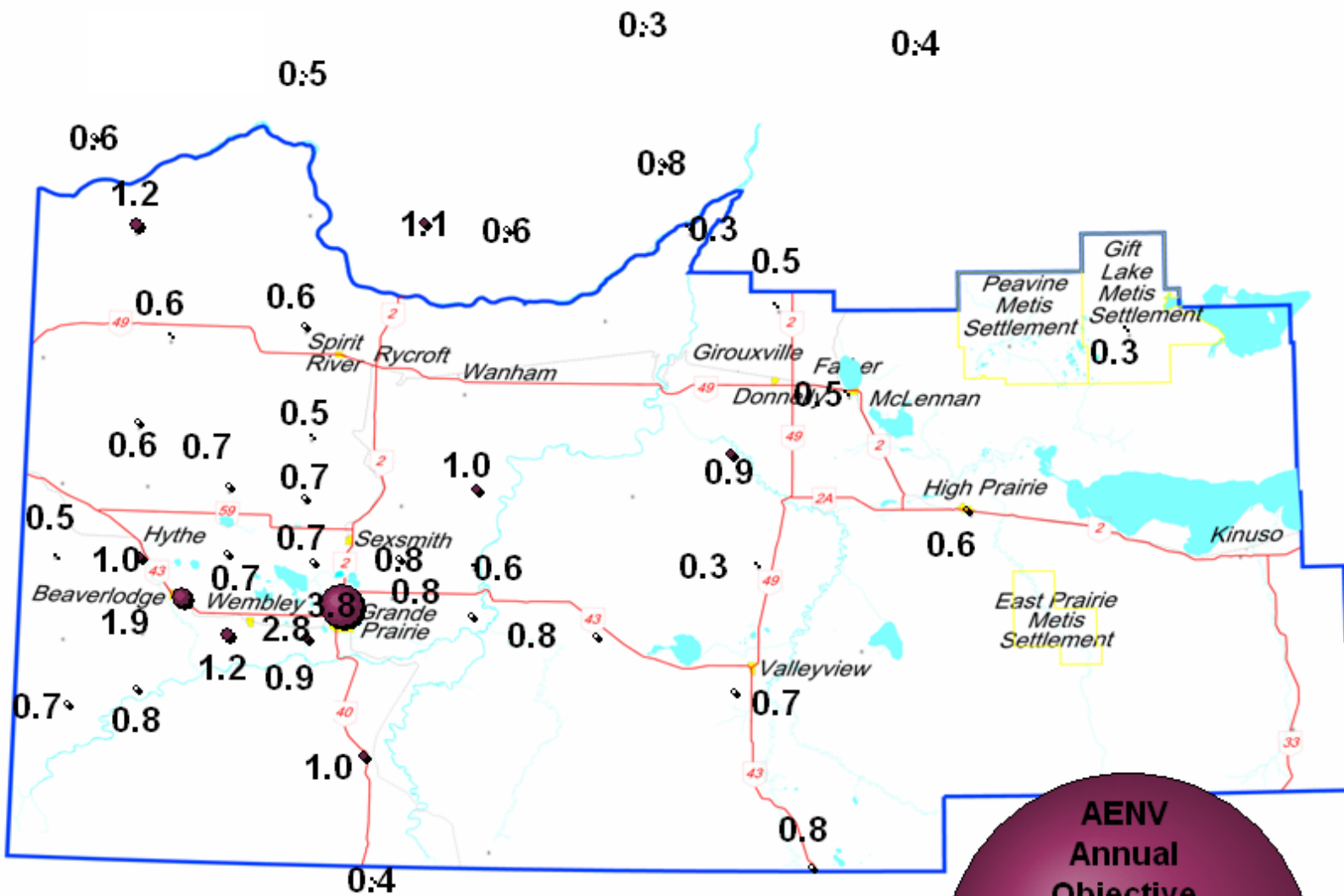


Figure 68. O₃ Summary Chart



PASZA Passive NO₂ Stations - August 2007
Average Concentrations in ppb

AENV
Annual
Objective
32 ppb

Figure 69. NO₂ Bubble Chart

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

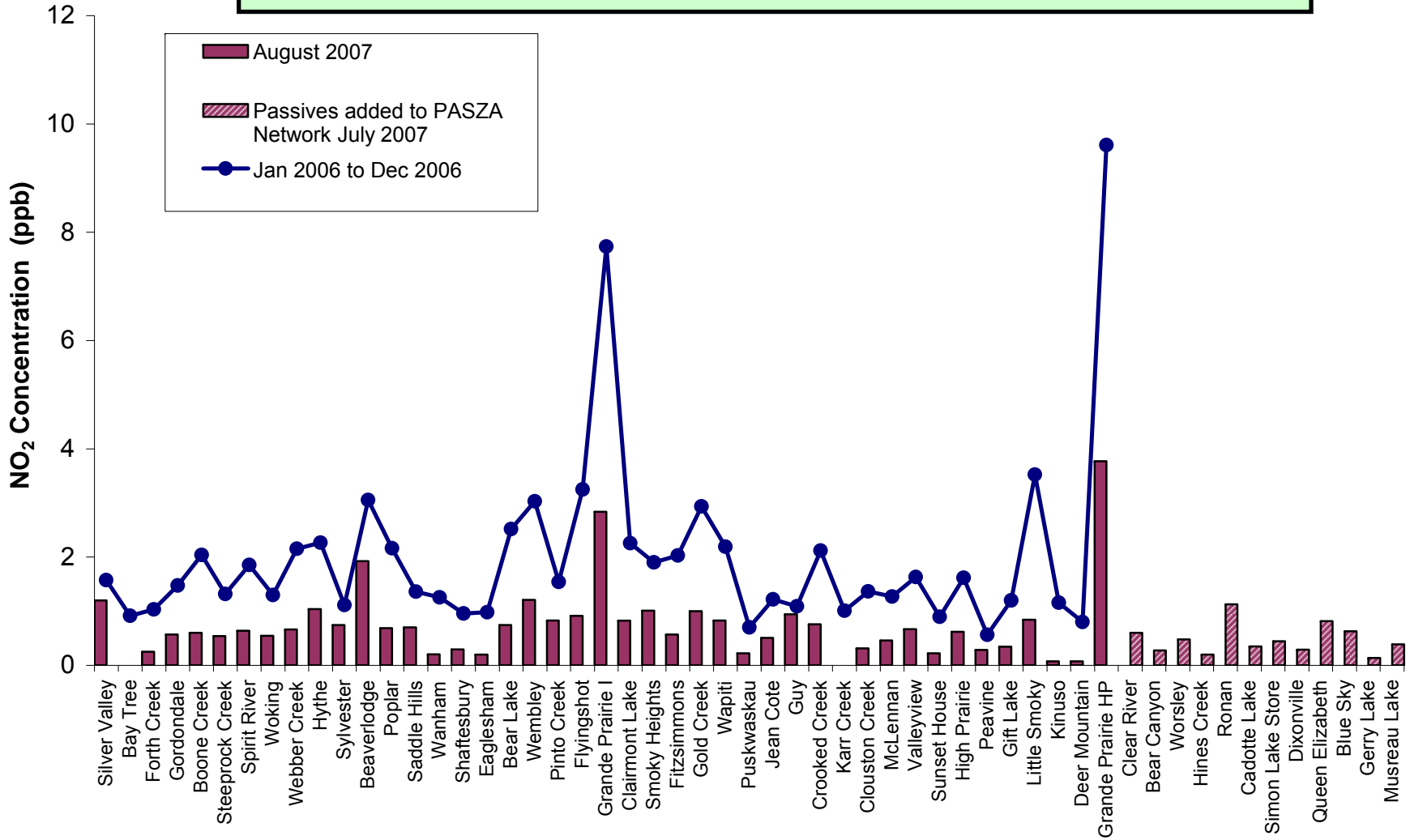


Figure 70. NO₂ Summary Chart

August 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	August 2, 2007	Previous Calibration	July 6, 2007
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	7:30	End Time (MST)	9:52
Barometric Pressure	0.924 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2488
Cal Gas Conc	49.6 ppb	Cal Gas Expiry Date	Jan 2 2009
		Cal Gas Cylinder #	FF-5013
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	10
	Before		After
Calculated slope	1.035076	Calculated slope	1.022539
Calculated intercept	-1.016890	Calculated intercept	-1.725110
Analyzer make	TEI 43C	Analyzer serial #	610816292

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	7.4		7.3	
Coefficient	0.785		0.785	
Pressure	642.0	mm Hg	650.4	mm Hg
Flow	0.459	lpm	0.455	lpm
Lamp Voltage	815	v	809	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	0.0	0.3	N/A
4994	39.93	393.4	385.7	1.0199
4994	19.96	197.5	195.5	1.0099
4994	9.98	98.9	99.8	0.9916
4994	0.00	0.0	0.3	As Found Zero
4994	39.93	393.4	385.7	As Found Span
Average Correction Factor				1.0072

Calculated value of As Found Response: 397.9 ppb Percent Change of As Found: -1.1%

	before calibration		after calibration	
Auto zero	-1.0	ppb	-1.6	ppb
Auto span	352.2	ppb	348.0	ppb

Notes: No adjustments or maintenance required

Calibration Performed By: Kelly Baragar, Conor Whiteley

Calibration Summary

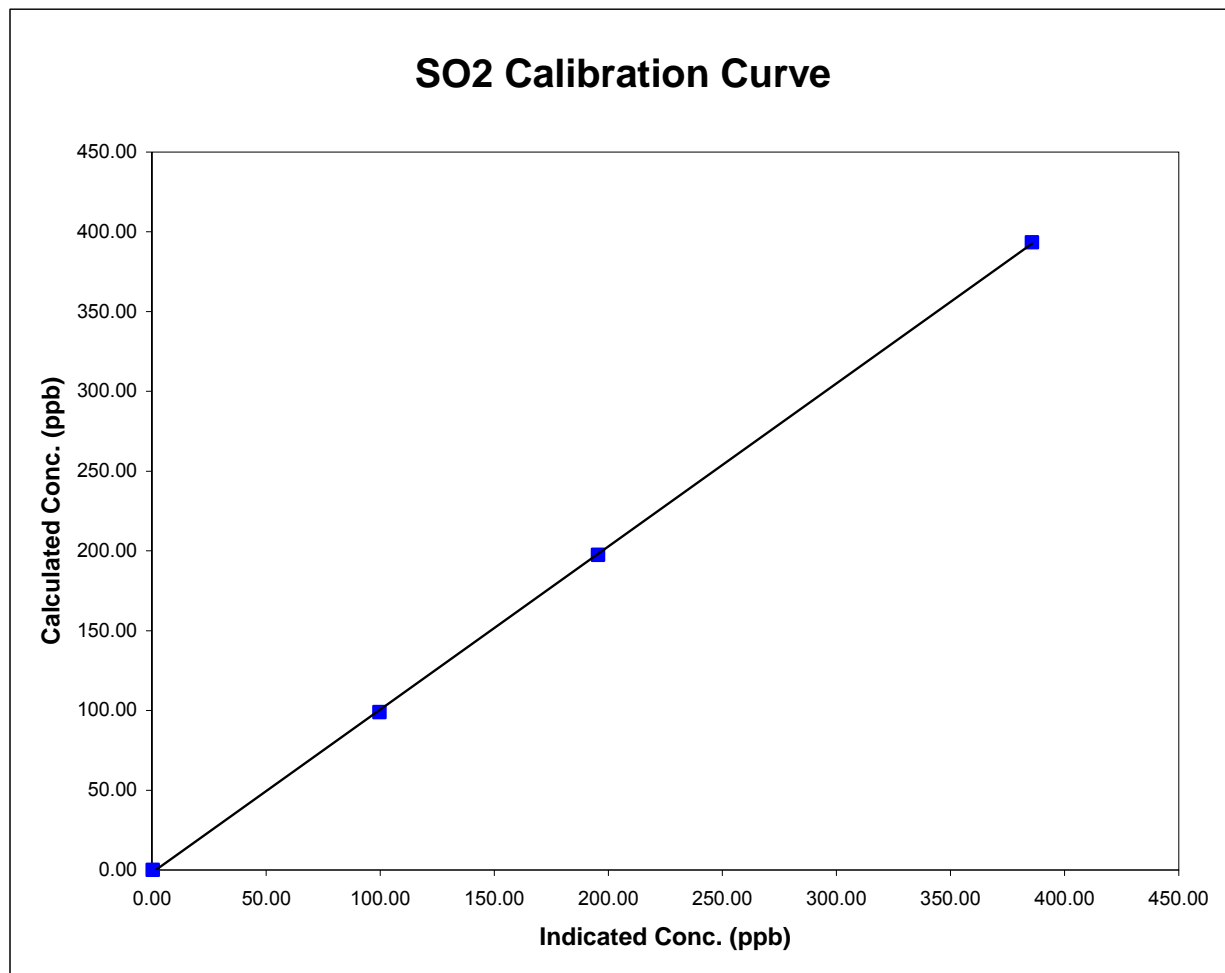
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

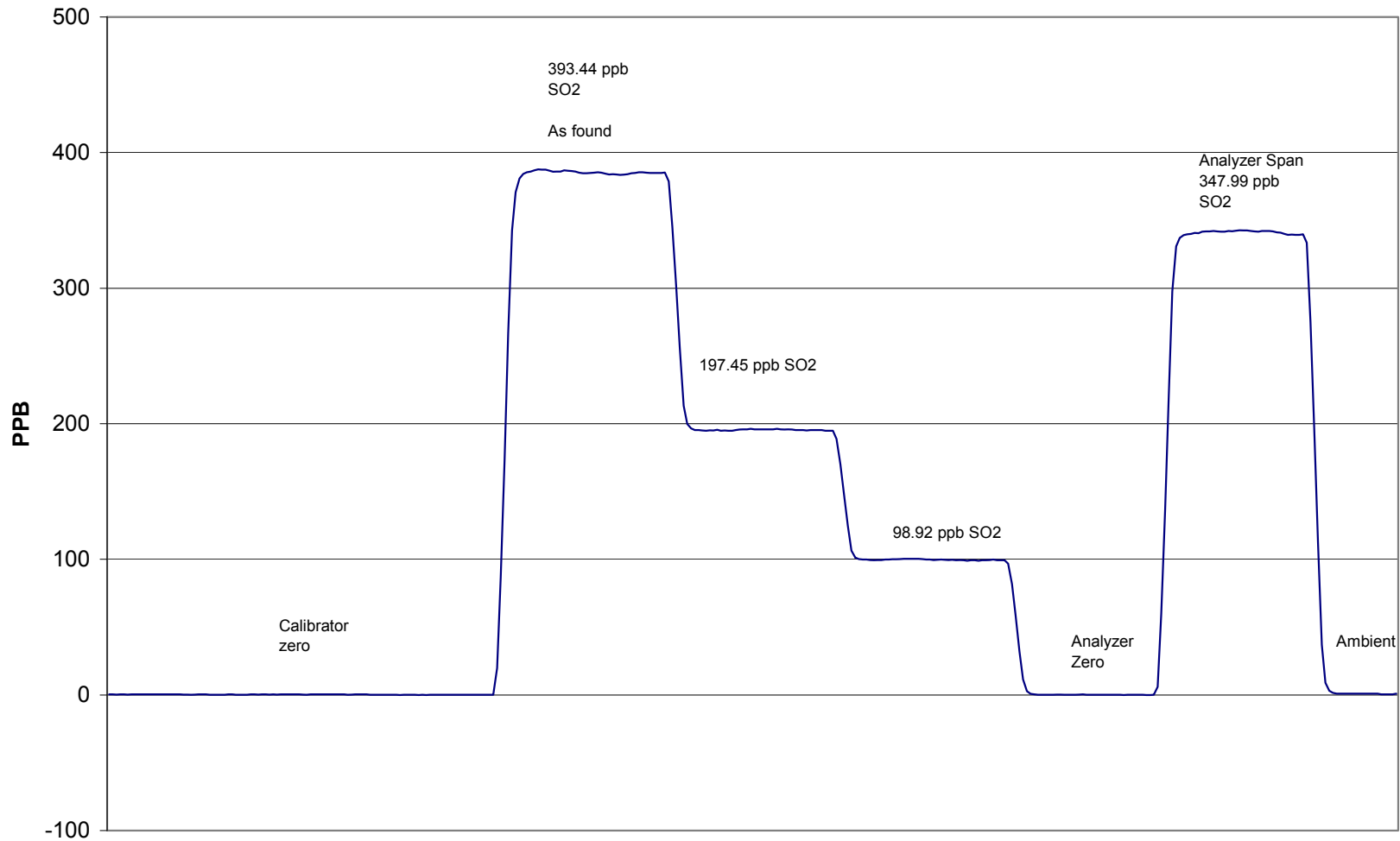
Calibration Date	August 2, 2007	Previous Calibration	July 6, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	7:30	End Time (MST)	9:52
Analyzer make/model	TEI 43C	Analyzer serial #	610816292

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
393.4	385.7	1.0199	Correlation Coefficient	0.999943
197.5	195.5	1.0099		
98.9	99.8	0.9916	Slope	1.022539
			Intercept	-1.725110



Henry Pirker SO2 Calibration



August 2, 2007

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA

**Station Information**

Calibration Date August 1, 2007 Previous Calibration July 4, 2007
 Station Number 1 Station Location Henry Pirker

Reason: Routine Installation Removal Other: _____

Start Time (MST) 11:00 End Time (MST) 16:10
 Barometric Pressure 0.931 Atm Station Temperature 21.0 Deg C
 Calibrator EnviroNics 6103 Serial Number 2844
 NO Cal Gas Conc 49.5 ppm Cal Gas Expiry Date 2-Jan-09
 NOx Cal Gas Conc 49.6 ppm Cal Gas Serial # FF-5013

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

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

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	49.6	Deg C
Cooler Temp	-2.4	Deg C	-2.5	Deg C
Converter Temp	319.0	Deg C	318.0	Deg C
Vacuum	162.1	mm Hg	161.9	mm Hg

Notes: Made a zero adjustment. No other maintenance performed.

Calibration Report

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



Station Information

Calibration Date: **August 1, 2007**

Station Location: **Henry Pirker**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4993	0.00	0.0	0.0	0.0	0.1	0.0	0.0	N/A	N/A
1	4993	39.93	393.5	392.7	0.8	399.9	400.0	-0.2	0.9841	0.9818
2	4993	19.96	197.5	197.1	0.4	202.3	202.6	-0.3	0.9762	0.9730
3	4993	9.97	98.9	98.7	0.2	103.2	103.5	-0.3	0.9580	0.9540
AFZ	4993	0.00	0.0	0.0	0.0	-2.9	-3.0	-0.3	0.0000	0.0000
AFS	4993	39.93	393.5	392.7	0.8	395.4	395.8	-0.4	0.9954	0.9923
Average Correction Factor									0.9728	0.9696

As Found Concentrations: NO_x= 397.5 NO= 398.2 As Found Percent Change NO_x= 1.0% NO= 1.4%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

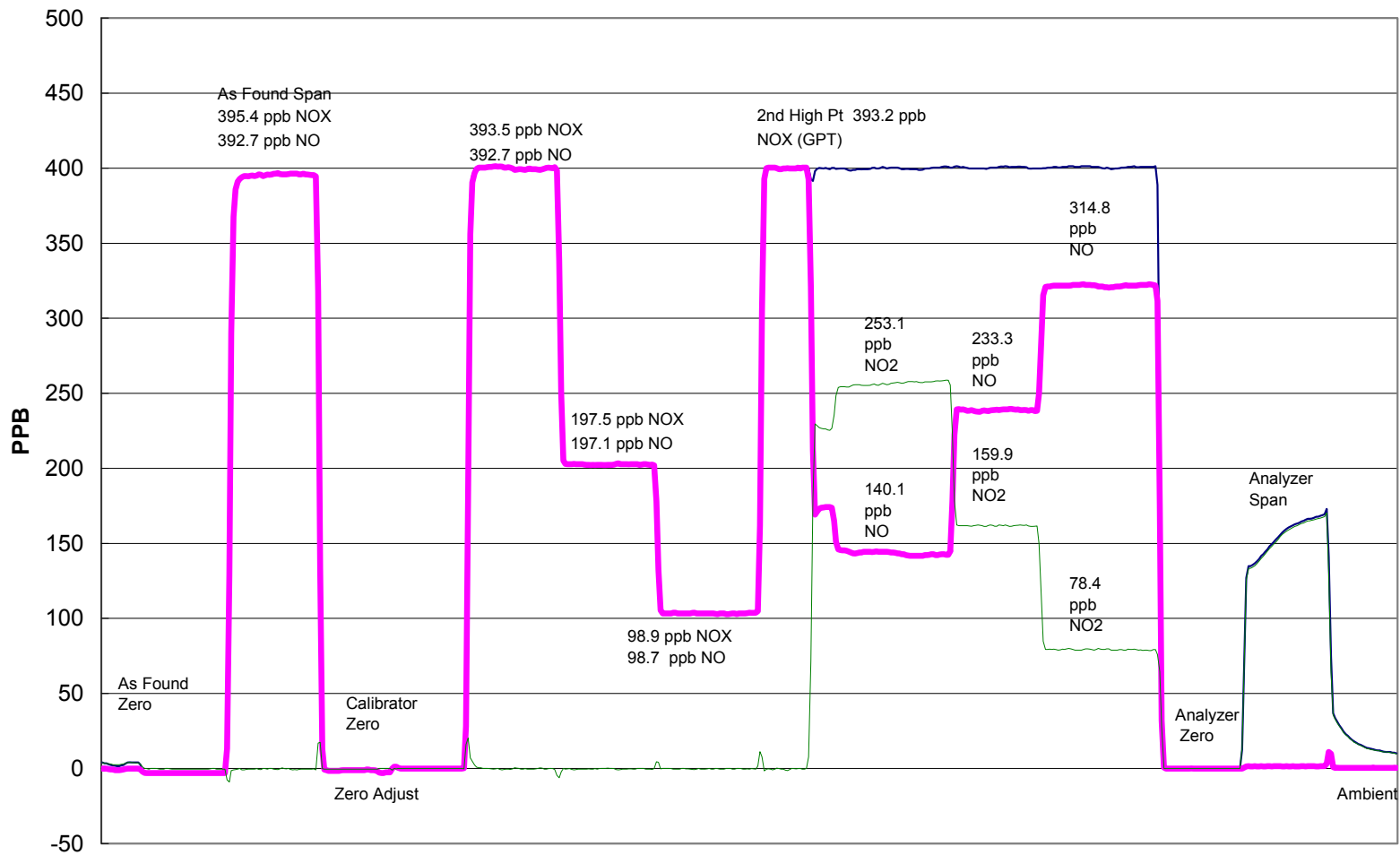
O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	393.2	391.9	1.3	399.6	400.0	-0.4	0.9842	0.9799	N/A	N/A
300	393.2	140.1	253.1	399.8	144.0	256.0	0.9835	0.9733	0.9886	101.2%
200	393.2	233.3	159.9	400.4	238.7	161.9	0.9822	0.9774	0.9881	101.2%
100	393.2	314.8	78.4	400.6	321.5	79.3	0.9816	0.9790	0.9887	101.1%
Average Correction Factor							0.9824	0.9766	0.9885	101.2%

AIC Data

	Previous calibration				Current calibration			
Parameter	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	3.7	1.0	2.9	ppb	0.9	1.0	1.0	ppb
Auto span	163.1	165.3	-2.2	ppb	155.8	156.1	0.0	ppb

Calibration Performed By: Kelly Baragar, Conor Whiteley

Henry Pirker - NOx Calibration



August 1, 2007

Calibration Summary

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

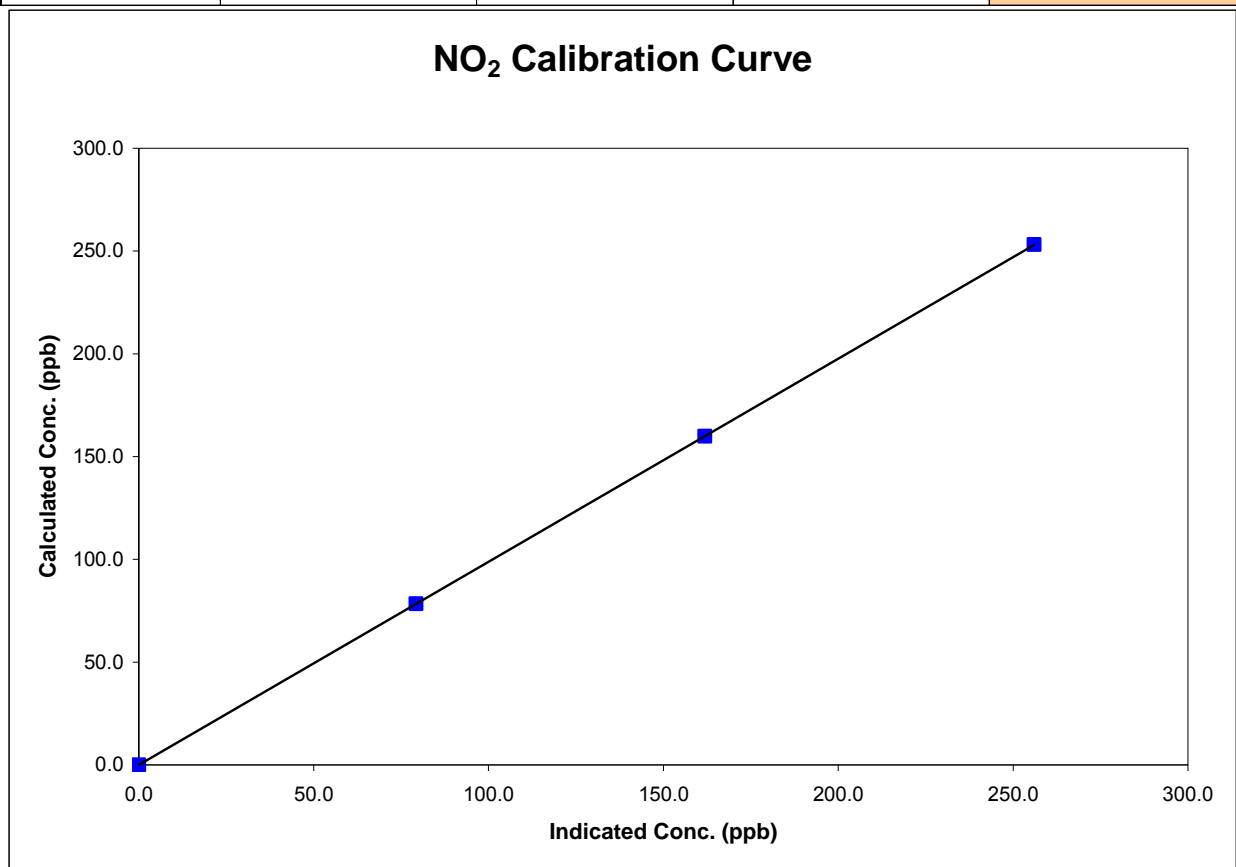


Station Information

Calibration Date	August 1, 2007	Previous Calibration	July 4, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:00	End Time (MST)	16:10
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	0.0000	Correlation Coefficient	1.000000
253.1	256.0	0.9886		
159.9	161.9	0.9881		
78.4	79.3	0.9887		
			Slope	0.988622
			Intercept	-0.032458



Calibration Summary

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

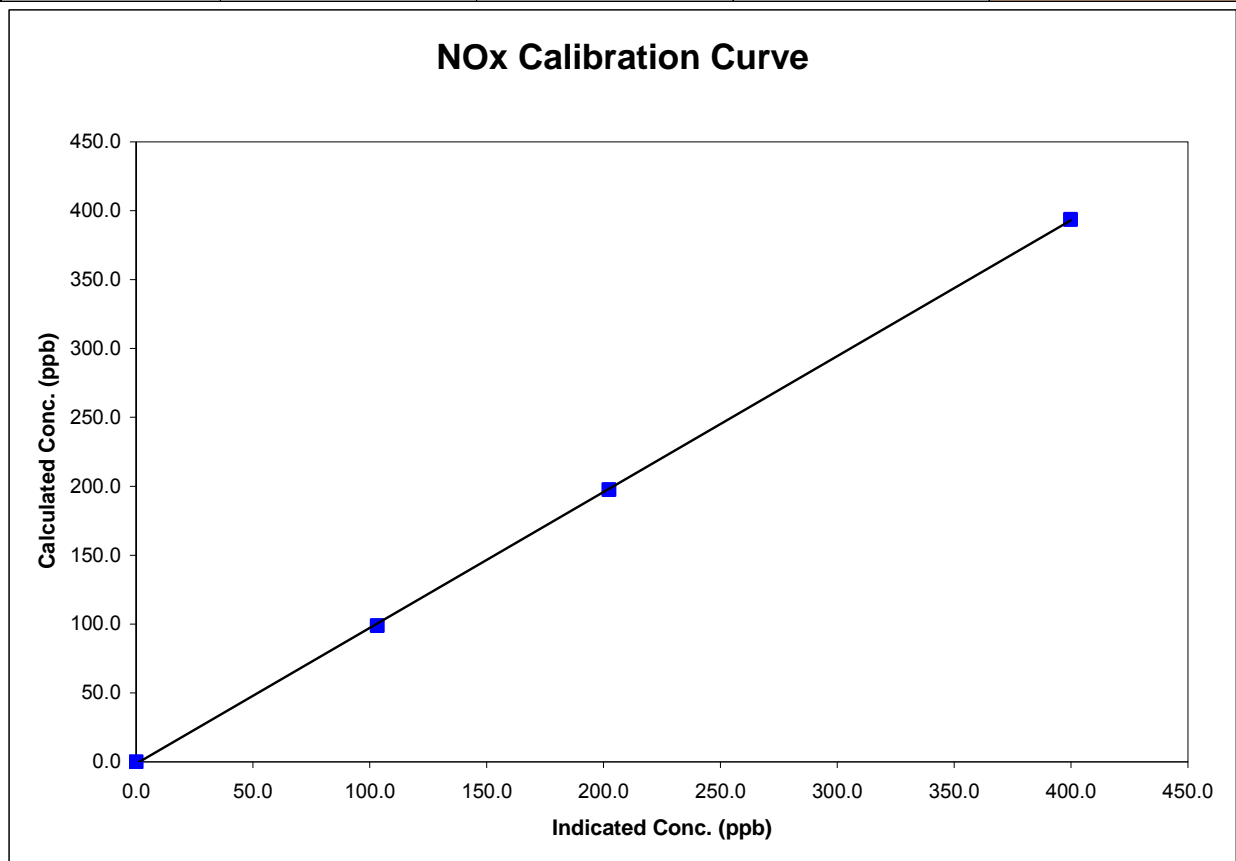


Station Information

Calibration Date	August 1, 2007	Previous Calibration	July 4, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:00	End Time (MST)	16:10
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	0.999944
393.5	399.9	0.9841		
197.5	202.3	0.9762		
98.9	103.2	0.9580		
			Slope	0.985996
			Intercept	-1.428598



Calibration Summary

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

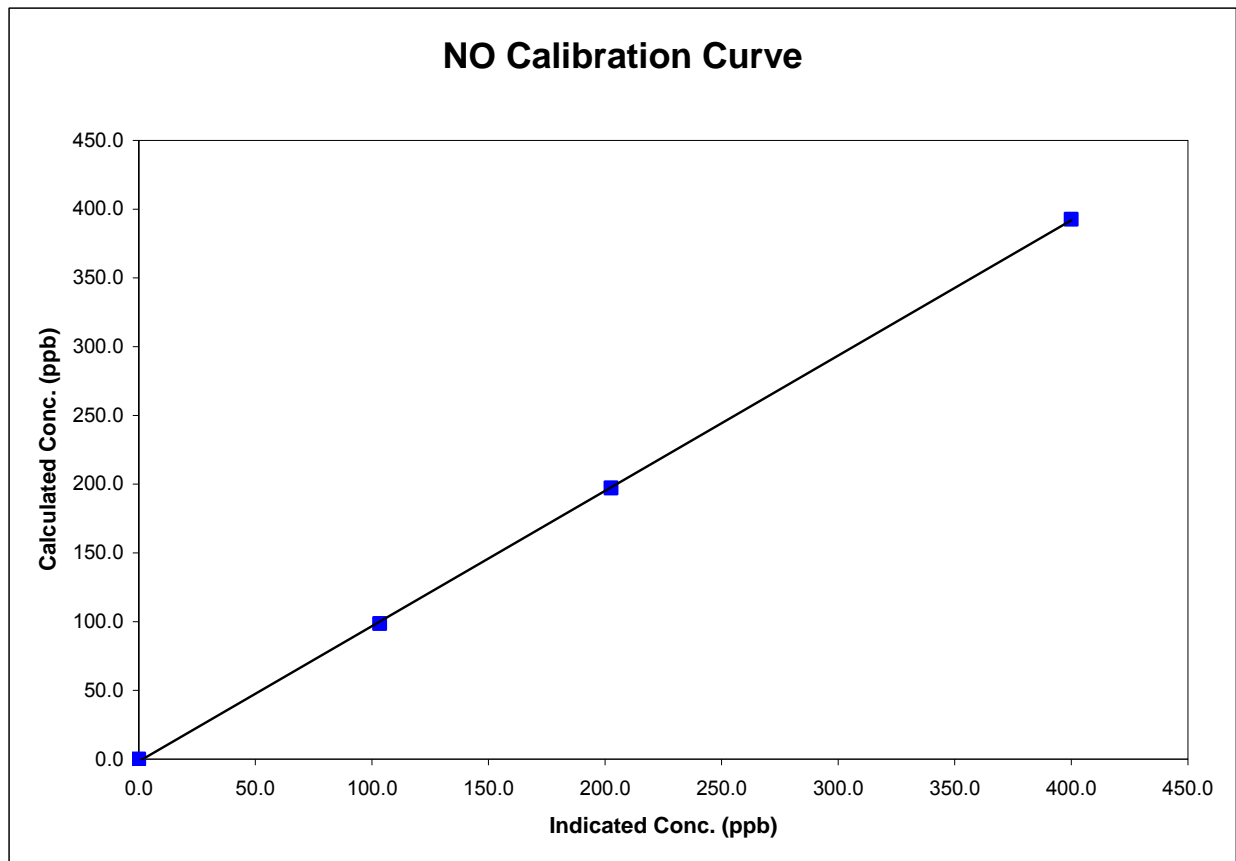


Station Information

Calibration Date	August 1, 2007	Previous Calibration	July 4, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:00	End Time (MST)	16:10
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		
392.7	400.0	0.9818	Correlation Coefficient	0.999932
197.1	202.6	0.9730		
98.7	103.5	0.9540		
			Slope	0.983626
			Intercept	-1.485390



Calibration Report

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

Station Information

Calibration Date	August 1, 2007	Previous Calibration	July 6, 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)	15:10	End Time (MST)	18:30
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	1.005890	Calculated slope	0.990585
Calculated intercept	2.131849	Calculated intercept	0.521140

Analyzer make	TECO 49C	Analyzer serial #	607415761
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	before		after	
Concentration range	500	ppb	500	ppb
offset	-0.5	ppb	-0.7	ppb
slope	0.861		1.103	
O3 Lamp temp	71	mV	71	mV
Intensities	97300/75000	mV	94900/72800	mV
Pressure	699.4	inches Hg	692.6	inches Hg
Flow A	664	ccm	664	ccm
Flow B	680	Deg C	674	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	300.0	303.2	0.9895
200	4992	200.0	200.7	0.9964
100	4992	95.0	94.1	1.0101
0	4992	0.0	0.6	As found zero
300	4992	303.0	235.8	As found span
Average Correction Factor				0.9987

Calculated value of As Found Response: 238.7 ppm Percent Change of As Found: -21.2%

	before calibration		after calibration	
Auto zero	2.7	ppb	-1.5	ppb
Auto span	280.8	ppb	312.6	ppb

Notes: Span Adjustment made, as found difference caused by calibrator deficiencies during July calibration.
Calibration points based on reference detector in calibrator.

Calibration Performed By: Kelly Baragar, Conor Whiteley

Calibration Summary

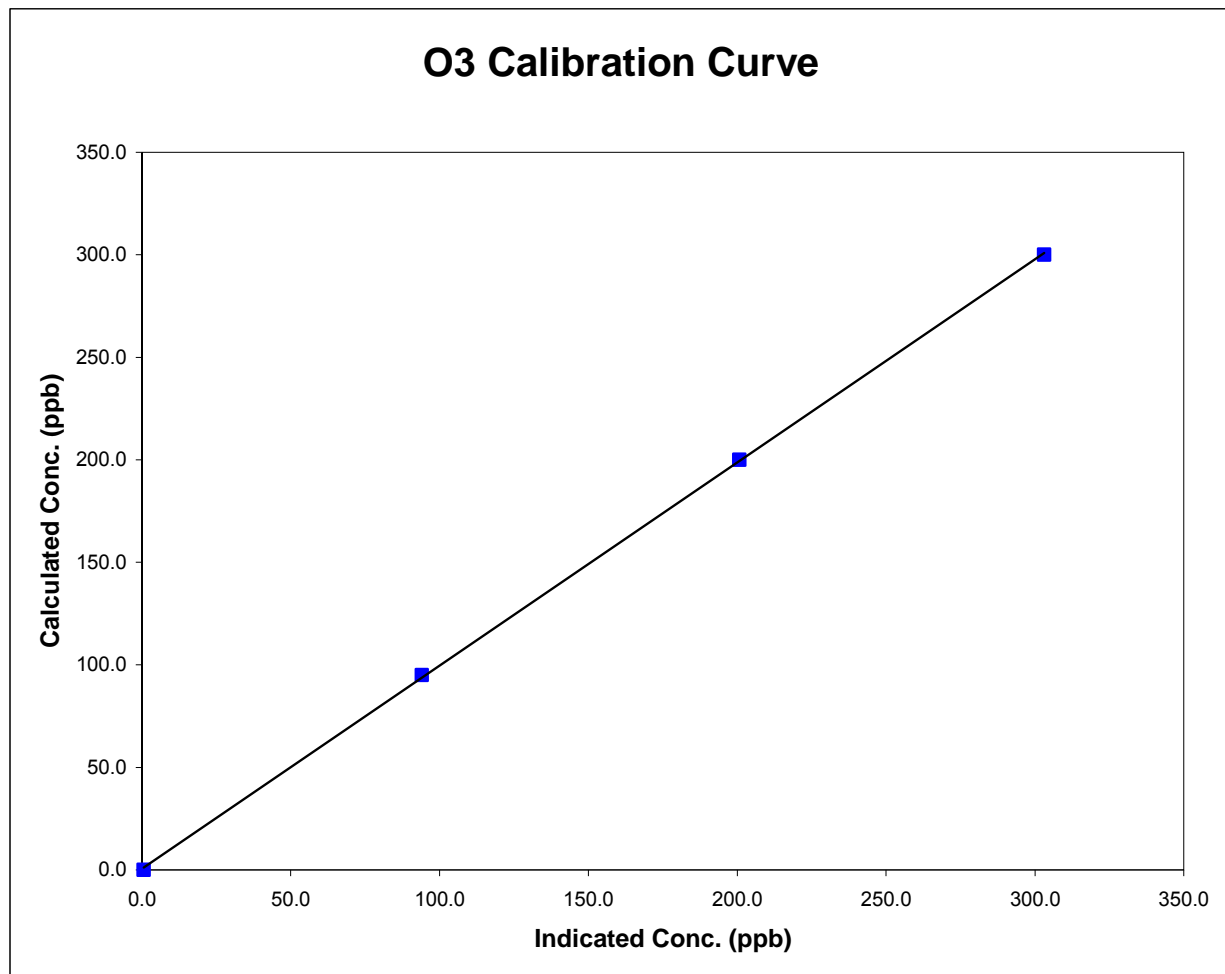
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

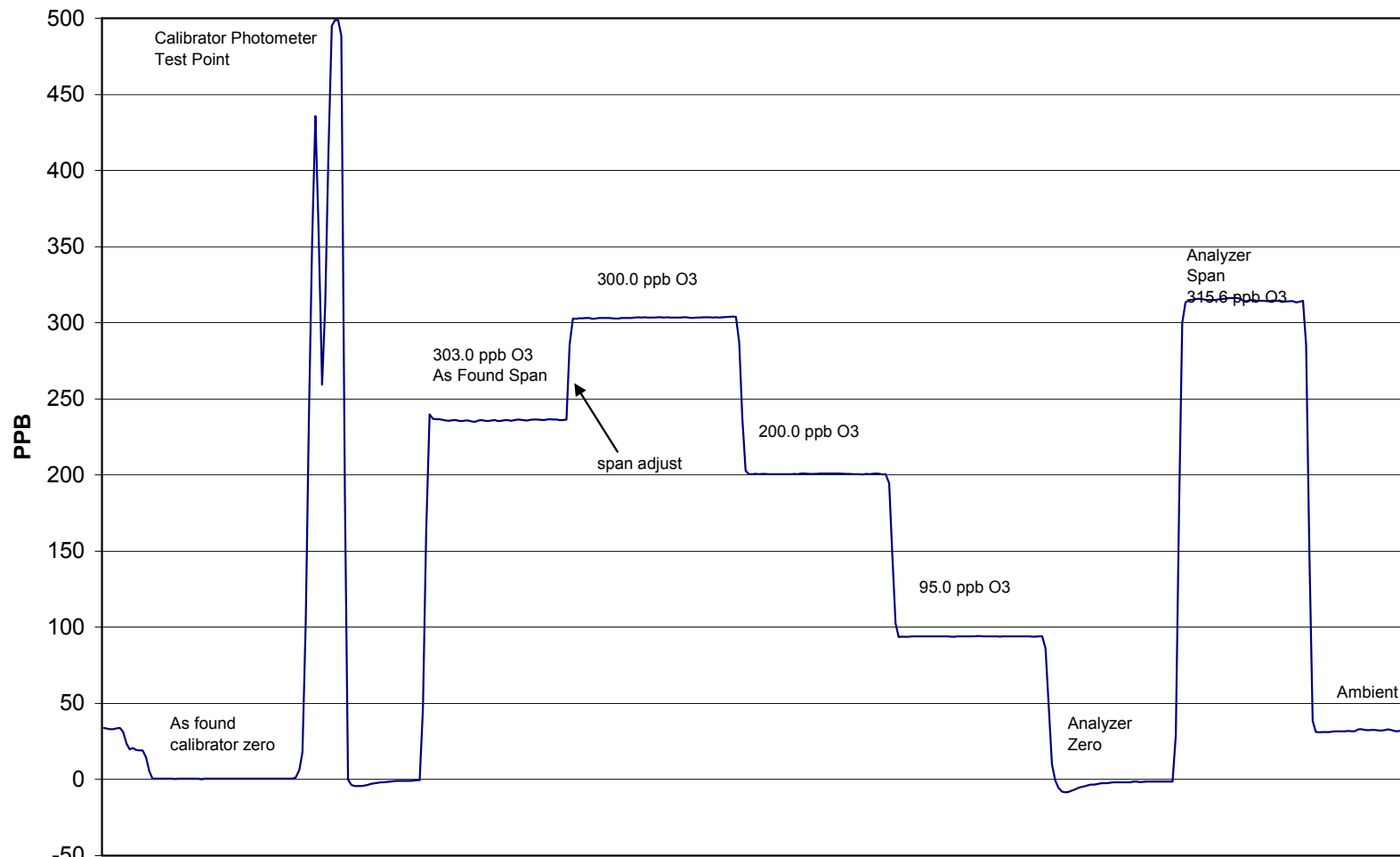
Calibration Date	August 1, 2007	Previous Calibration	July 6, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	15:10	End Time (MST)	18:30
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.6	NA		
300.0	303.2	0.9895	Correlation Coefficient	0.999919
200.0	200.7	0.9964		
95.0	94.1	1.0101	Slope	0.990585
			Intercept	0.521140



Henry Pirker - O3 Calibration



August 1, 2007

Calibration Report



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

Station Information

Calibration Date	August 2, 2007	Previous Calibration	July 3, 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)	11:20	End Time (MST)	14:20
Barometric Pressure	0.920 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2488
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	1.023566	Calculated slope	1.026012
Calculated intercept	-0.179696	Calculated intercept	-0.161590
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		9.913	
Sample pressure	681.7	mm Hg	686.7	mm Hg
Sample Flow	1.092	LPM	1.092	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	0.05	N/A
4994	39.94	23.80	23.30	1.0215
4994	19.91	11.91	11.82	1.0079
4994	9.98	5.98	6.10	0.9812
4994	0.00	0.00	0.05	As Found Zero
4994	39.94	23.80	23.30	As Found Span
Average Correction Factor				1.0035

Calculated value of As Found Response: 23.619 ppm Percent Change of As Found: 0.8%

	before calibration		after calibration	
Auto zero	-0.04	ppm	0.03	ppm
Auto span	19.77	ppm	19.83	ppm

Notes: No adjustments or maintenance performed.

Calibration Performed By: Kelly Baragar, Conor Whiteley

Calibration Summary

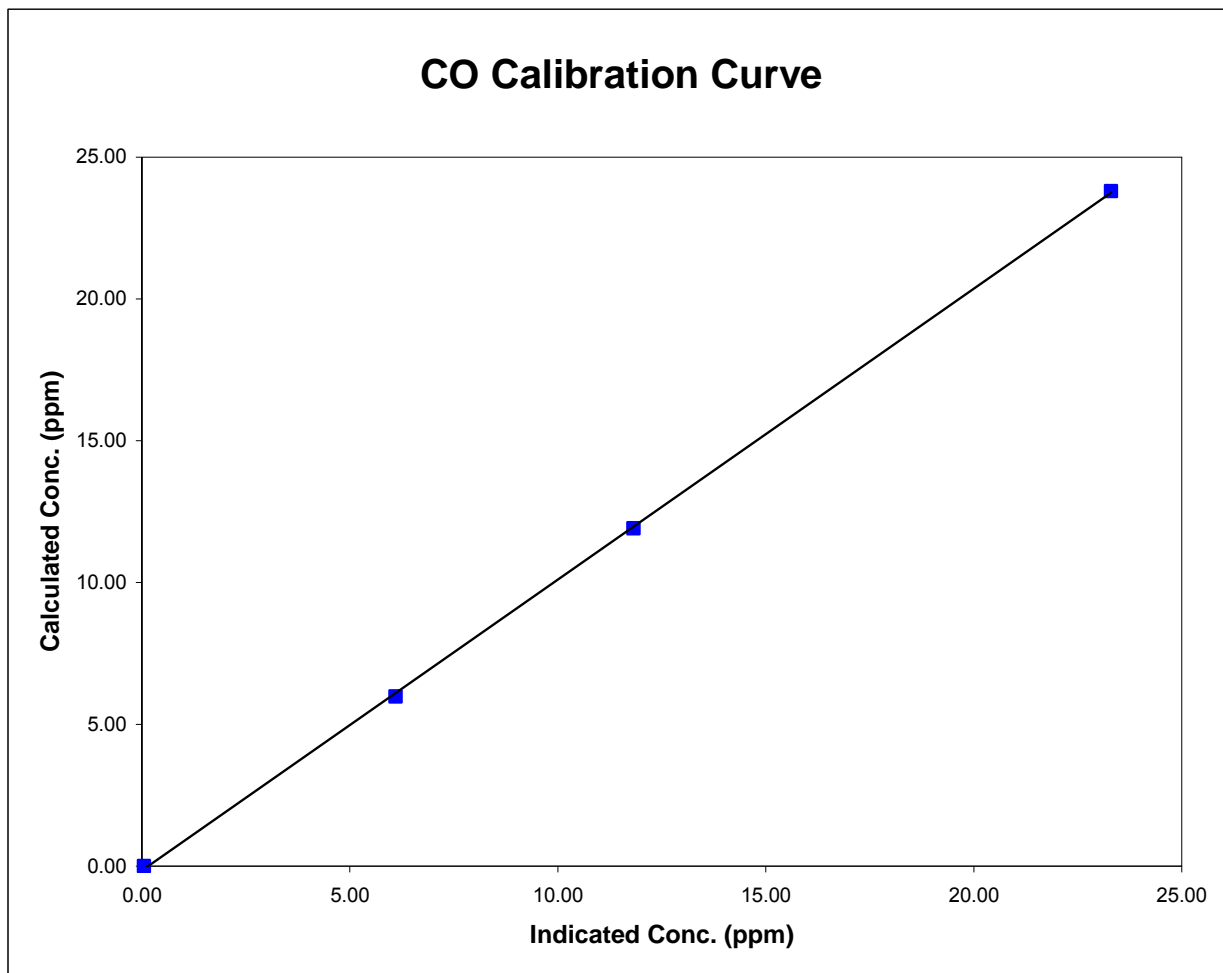
Parameter **CO**Air Monitoring Network **PASZA**

Station Information

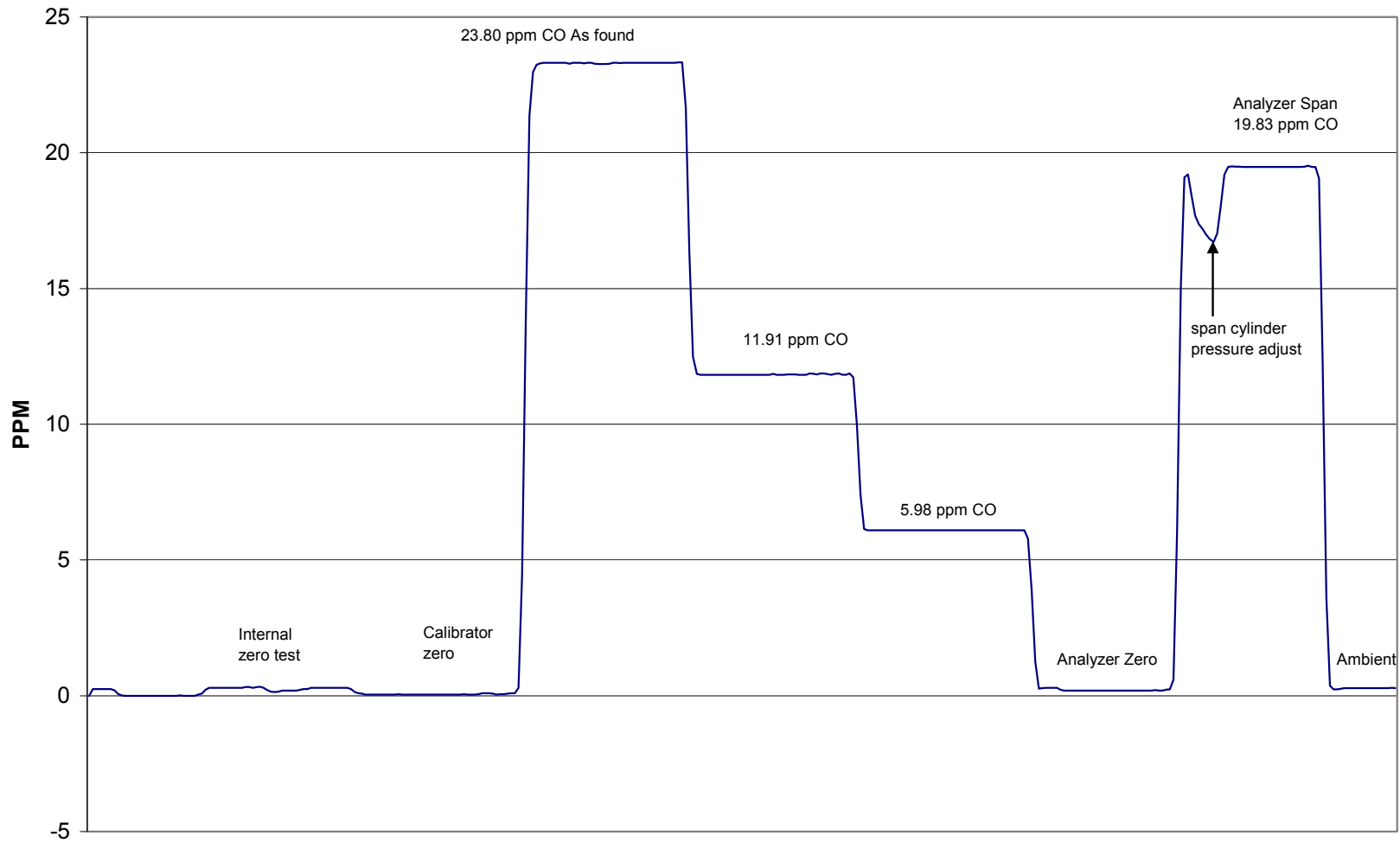
Calibration Date	August 2, 2007	Previous Calibration	July 3, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:20	End Time (MST)	14:20
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.052	N/A		
23.802	23.302	1.0215	Correlation Coefficient	0.999903
11.913	11.819	1.0079		
5.983	6.098	0.9812	Slope	1.026012
			Intercept	-0.161590



Henry Pirker - CO Calibration



August 2, 2007

Calibration Report

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



Station Information

Calibration Date	August 2, 2007	Previous Calibration	July 3, 2007
Station Number	1	Station Location	Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:05	End Time (MST)	12:04
Barometric Pressure	0.924 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2844
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 030358
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.002325	Calculated slope	1.005146
Calculated intercept	-0.104200	Calculated intercept	-0.031518
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	7465	capture	6889	capture
THC zero counts	432	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	-0.01	N/A
4994	64.90	19.53	19.46	1.0038
4994	29.96	9.08	9.05	1.0026
4994	9.98	3.04	3.11	0.9770
4992	0.00	0.00	-0.01	As Found Zero
4992	64.92	19.54	19.95	As Found Span
Average Correction Factor				0.9945

Calculated value of As Found Response: 19.902 ppm Percent Change of As Found: -1.8%

	before calibration		after calibration	
Auto zero	-0.51	ppm	0.12	ppm
Auto span	20.45	ppm	21.48	ppm

Notes: Minor Span adjustment made, no other maintenance required.

Calibration Performed By: Kelly Baragar, Conor Whiteley

Calibration Summary

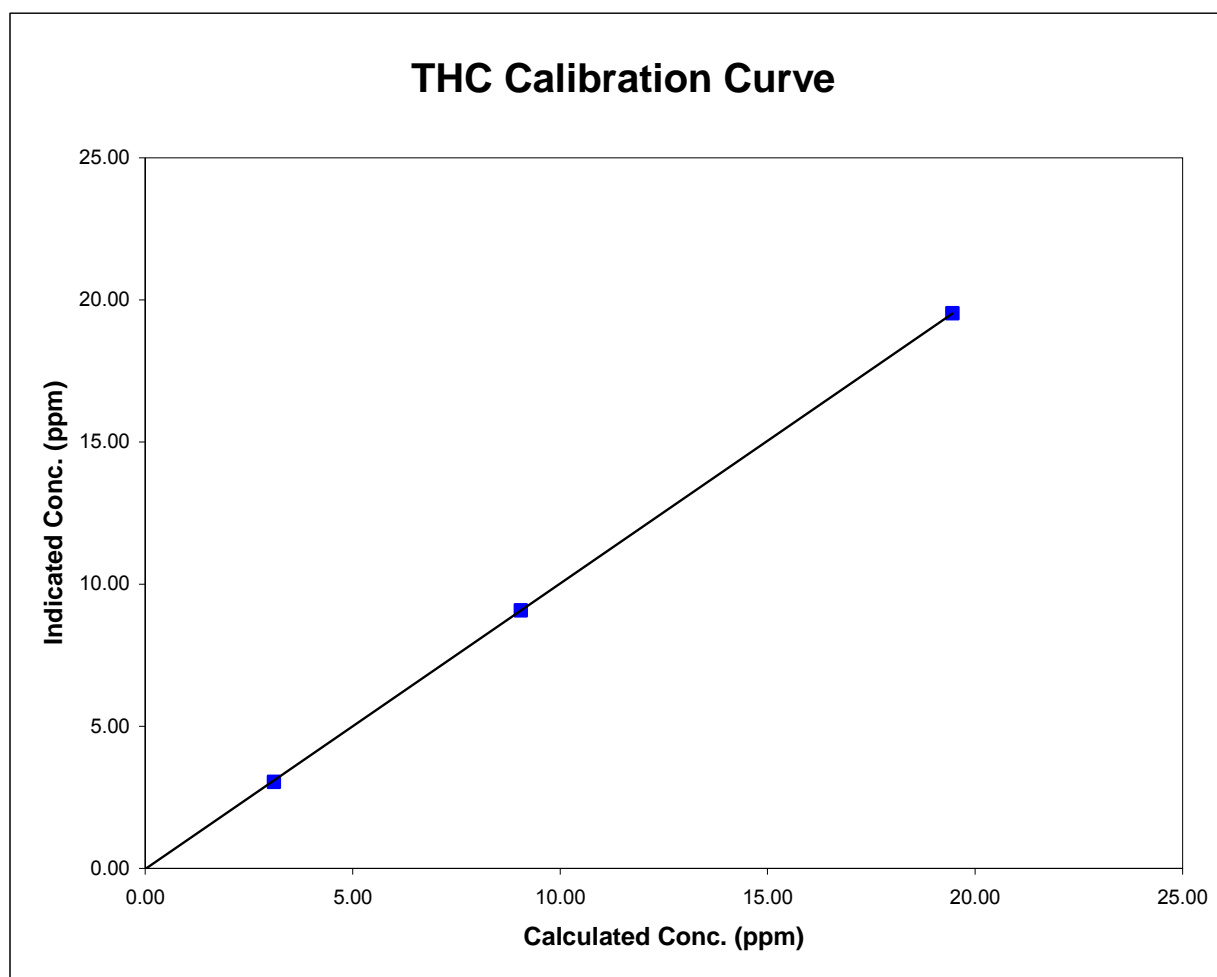
Parameter **THC**Air Monitoring Network **PASZA**

Station Information

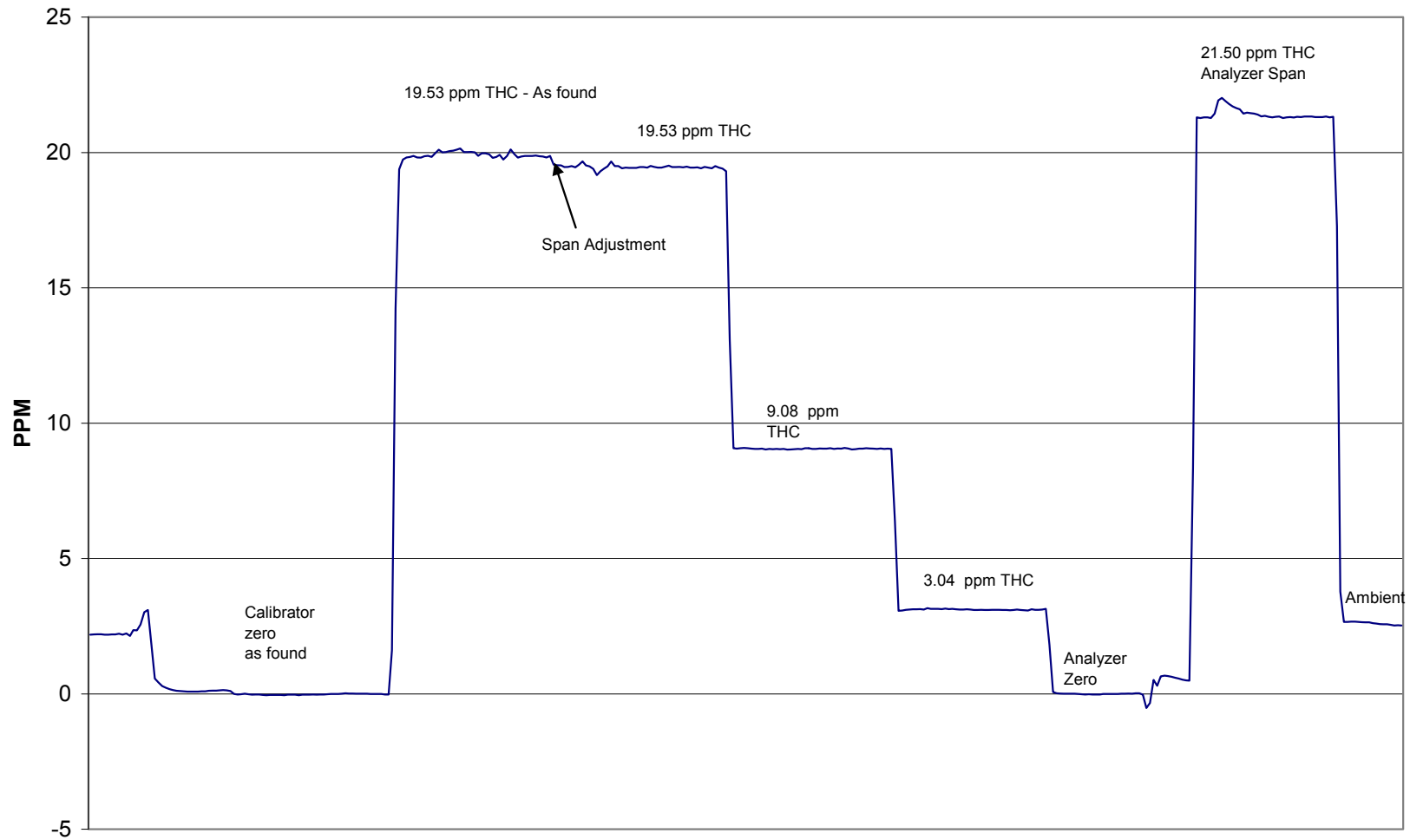
Calibration Date	August 2, 2007	Previous Calibration	July 3, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:05	End Time (MST)	12:04
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.011	N/A		
19.529	19.456	1.0038	Correlation Coefficient	0.999977
9.078	9.054	1.0026		
3.037	3.109	0.9770	Slope	1.005146
			Intercept	-0.031518



Henry Pirker - THC Calibration



August 2, 2007

Calibration Report

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

Station Information

Calibration Date	August 2, 2007	Previous Calibration	July 20, 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)	13:45	End Time (MST)	18:30
Barometric Pressure	0.924 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2488
Cal Gas Conc	5.02 ppb	Cal Gas Expiry Date	11/1/2005
		Cal Gas Cylinder #	BLM003489
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	0.975306	Calculated slope	0.990325
Calculated intercept	0.562541	Calculated intercept	-0.118128
Analyzer make	TEI 45C	Analyzer serial #	630718528

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Coefficient	0.852		0.871	
Background	14.9		16.9	
Pressure	656.8	mm Hg	665.0	mm Hg
Flow	459	ccm	461	ccm
Lamp Voltage	849	V	848	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	0.30	N/A
4994	69.89	69.29	70.24	0.9865
4994	39.94	39.83	40.09	0.9935
4994	9.97	10.01	10.14	0.9872
4994	0.00	0.00	-1.10	As Found Zero
4994	70.00	69.39	74.02	As Found Span
Average Correction Factor				0.9890

Calculated value of As Found Response: 73.8 ppb Percent Change of As Found: -6.4%

	before calibration		after calibration	
Auto zero	0.28	ppb	0.17	ppb
Auto span	38.91	ppb	36.20	ppb

Notes: Performed as found, Replaced Lamp Socket as lamp frequency was not consistent.
Zero adjustment made, Span Adjustment made, no other maintenance done.

Calibration Performed By: Kelly Baragar Conor Whiteley

Calibration Summary

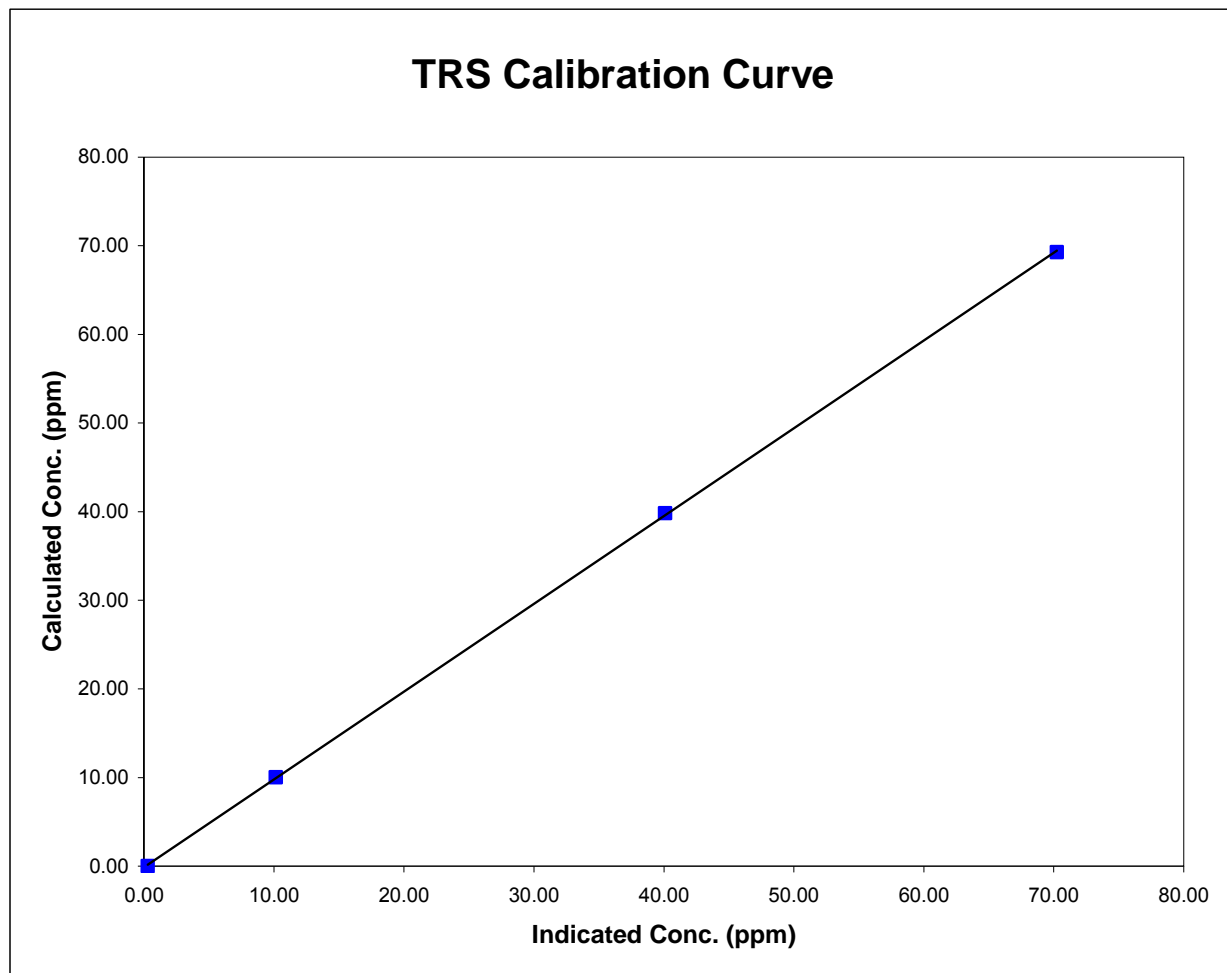
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

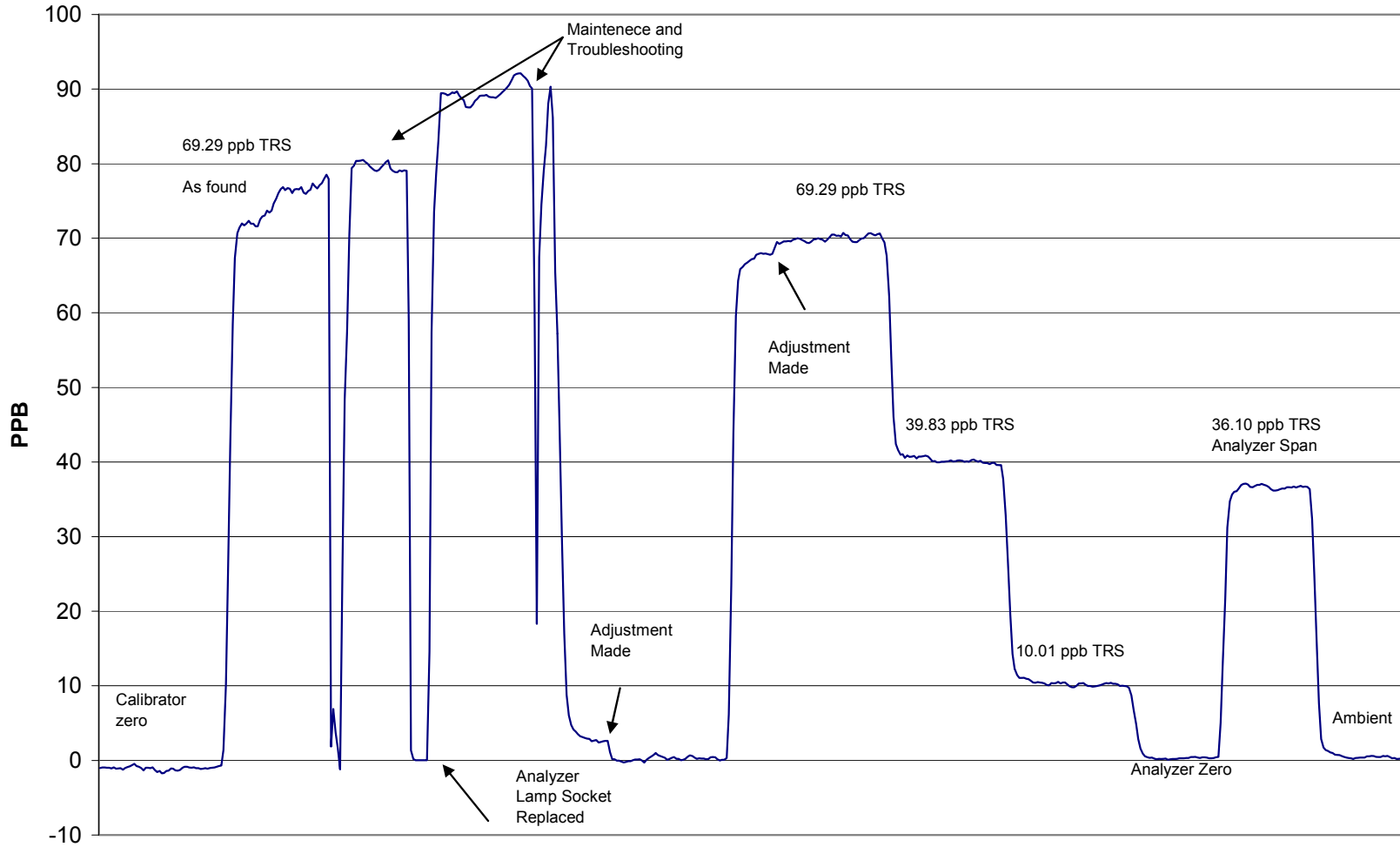
Calibration Date	August 2, 2007	Previous Calibration	July 20, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	13:45	End Time (MST)	18:30
Analyzer make/model	TEI 45C	Analyzer serial #	630718528

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.300	N/A		
69.288	70.237	0.9865	Correlation Coefficient	0.999958
39.829	40.091	0.9935		
10.006	10.136	0.9872	Slope	0.990325
			Intercept	-0.118128



Henry Pirker - TRS Calibration



August 2, 2007

Calibration ReportParameter **PM2.5**Air Monitoring Network **PASZA****Station Information**

Calibration Date	August 2, 2007	Previous Calibration	June 19, 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)	16:15	End Time (MST)	18:00
Barometric Pressure	0.924 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	0.29		0.29
flow recovery - main	45 - 60 Seconds	33	45 - 60 Seconds	33
flow recovery - aux	46 - 60 Seconds	50	46 - 60 Seconds	50
Temperature	measured	26.9	+/- 1.0 Deg C	27.1
Pressure	measured	0.921	+/- 1.5% Δ ATM	0.924
Total Flow	16.67 SLPM	16.50		16.50
Main Flow	13.67 SLPM	13.70	+/- 1.0 SLPM	13.70
Auxillary Flow	3.0 SLPM	2.995	+/- 0.2 SLPM	2.995
Leak Check - main	0.0	0.13	<0.15 SLPM	0.13
Leak Check - aux	0.0	0.32	<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: As found indicates flows were accurate; no adjustments made. BP sensor was adjusted.
Audit filter indicates accurate analyzer response. Replaced sample filter with new one.

Calibration Performed By: Kelly Baragar, Conor Whiteley

Calibration Report



Parameter

SO₂

Air Monitoring Network

PASZA

Station Information

Calibration Date	August 7, 2007	Previous Calibration	July 12, 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)	10:45	End Time (MST)	13:35
Barometric Pressure	0.925 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2488
Perm-tube Conc	49.6 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031443	Cal Gas Cylinder #	FF-5013
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	0.999416	Calculated slope	0.989955
Calculated intercept	1.258980	Calculated intercept	-0.390730
Analyzer make	Teco 43i	Analyzer serial #	701120008

	before		after	
Concentration range	1000	ppb	0 -1000	ppb
Background	8.9		8.9	
coefficient	0.928		0.928	
Lamp Voltage	837	volts	834	volts
Chamber Temp	45.4	Deg C	45.2	Deg C
Perm Gas Temp	45.01	Deg C	44.99	Deg C
Pressure	670.1	mm Hg	667.7	mm Hg
Sample Flow	448	ccm	446	ccm
Lamp Intensity	89	%	91	%

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)
4994	0.0	0.0	0.6	N/A
4994	39.9	393.2	397.7	0.9888
4994	19.9	197.3	199.6	0.9882
4994	10.0	99.0	100.1	0.9885
zero	0.0	0.0	0.6	As Found Zero
4994	39.9	393.2	397.7	As Found Span
Average Correction Factor				0.9885

Calculated value of As Found Response: 398.132 ppm Percent Change of As Found: -1.2%

	before calibration		after calibration	
Auto zero	1.7	ppm	0.1	ppm
Auto span	283.5	ppm	284.8	ppm

Notes:

Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Summary

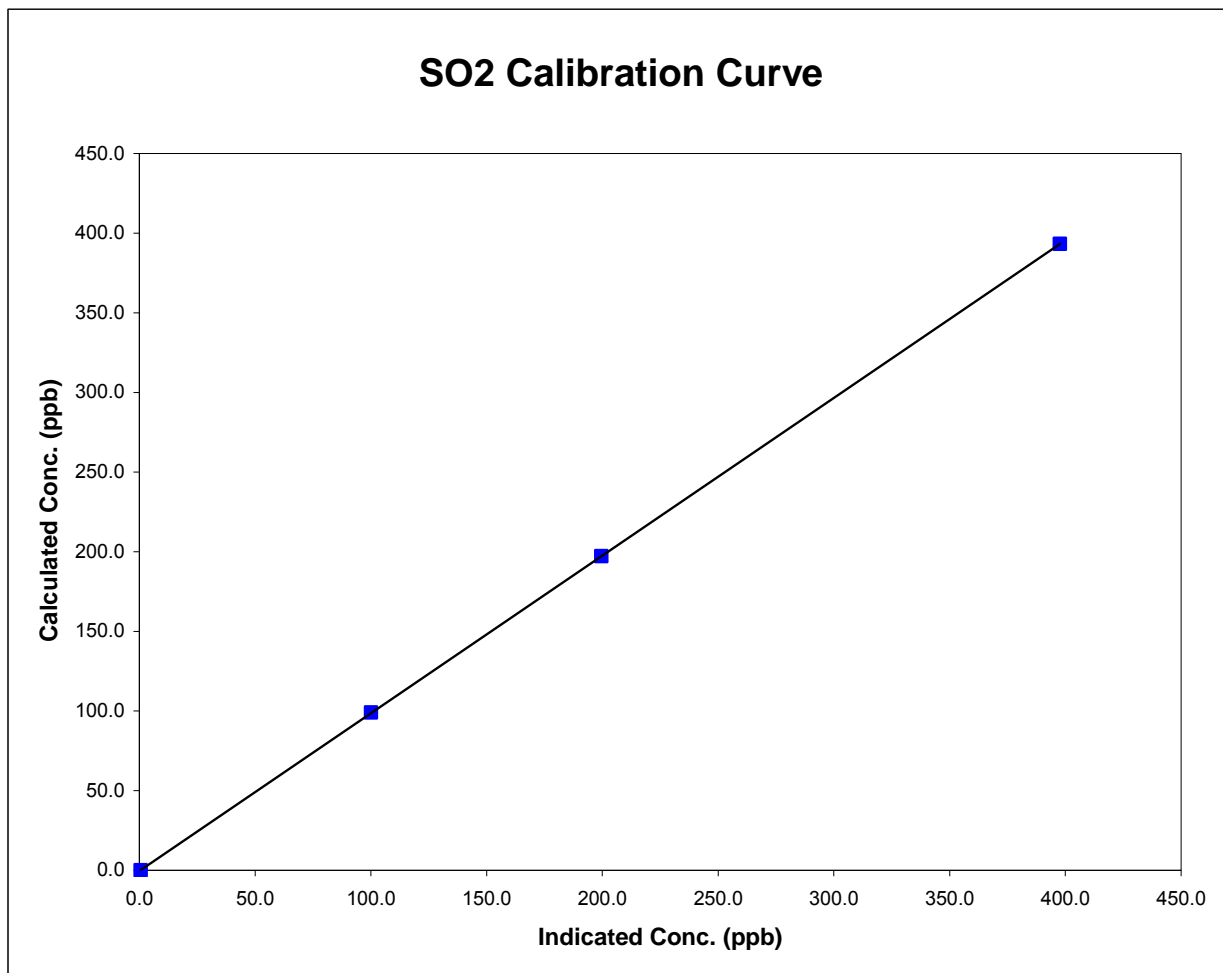
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

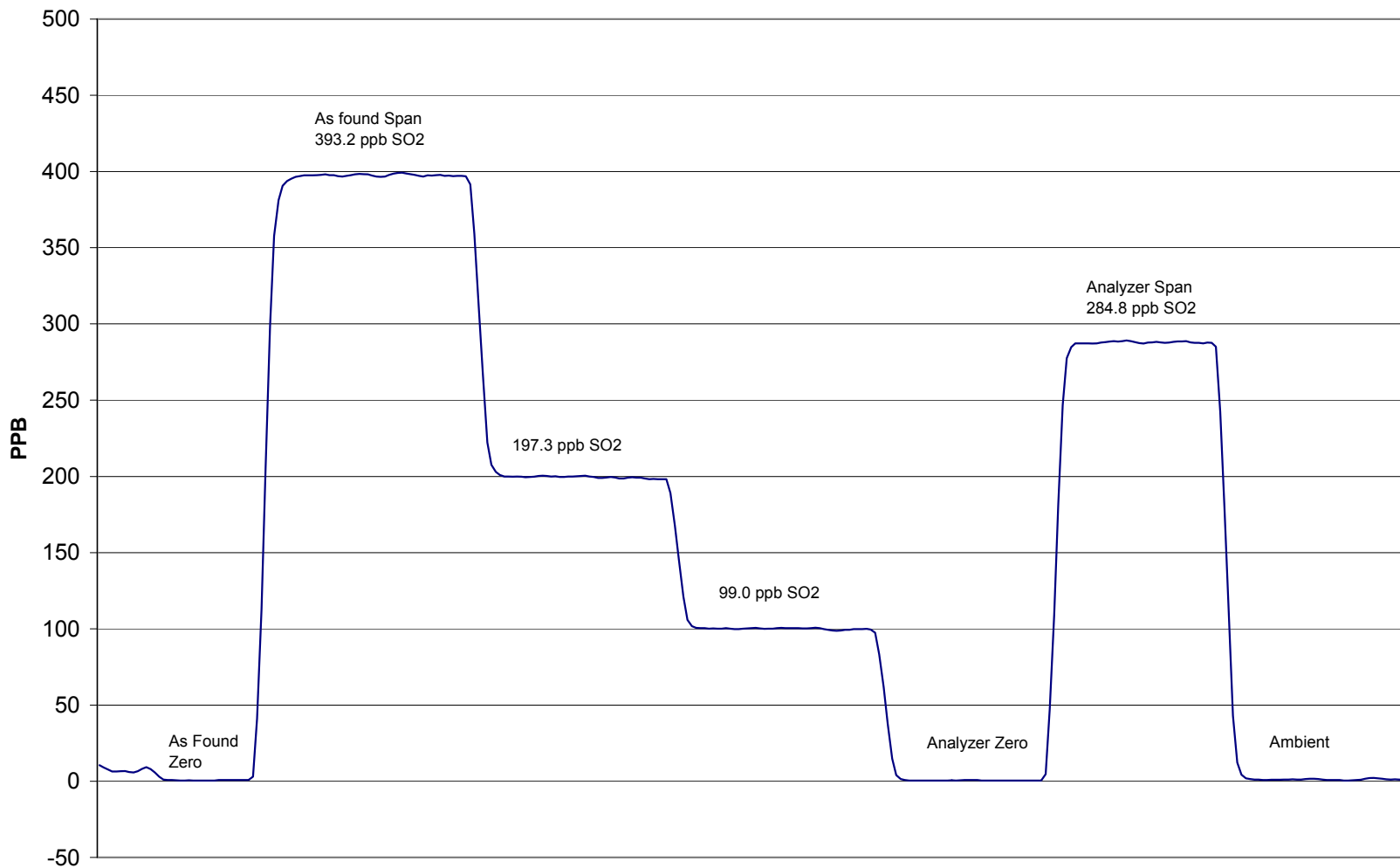
Calibration Date	August 7, 2007	Previous Calibration	July 12, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	10:45	End Time (MST)	13:35
Analyzer make/model	Teco 43i	Analyzer serial #	701120008

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.6	N/A		
393.2	397.7	0.9888	Correlation Coefficient	0.999999
197.3	199.6	0.9882		
99.0	100.1	0.9885	Slope	0.989955
			Intercept	-0.390730



Evergreen Park - SO2 Calibration



August 7, 2007

Calibration Report

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

Station Information

Calibration Date	August 7, 2007	Previous Calibration	July 12, 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)	12:30	End Time (MST)	15:30
Barometric Pressure	0.92 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2488
Cal Gas Conc	5.02 ppm	Cal Gas Expiry Date	Nov 15 2005
Correction factor	0.031341	Cal Gas Cylinder #	BLM003489
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	0.977102	Calculated slope	0.982718
Calculated intercept	1.878498	Calculated intercept	1.430907
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	17.5	ppb	17.4	ppb
coefficient	0.976		0.976	
Lamp Voltage	787	volts	787	volts
Chamber Temp	44.2	Deg C	44.3	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	630.9	mm Hg	634	mm Hg
Sample Flow	466	ccm	466	ccm
Lamp Intensity	45,700	mv	45,746	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	0.0	0.0	-1.6	N/A
4996	79.5	78.7	78.4	1.0038
4996	39.9	39.8	39.5	1.0071
4996	20.0	20.0	18.8	1.0620
zero	0.0	0.0	-1.6	As Found Zero
4996	80.0	79.1	78.4	As Found Span
Average Correction Factor				1.0243

Calculated value of As Found Response: 80.05 ppm Percent Change of As Found: -1.2%

	before calibration		after calibration	
Auto zero	0.3	ppm	-0.2	ppm
Auto span	66.3	ppm	69.0	ppm

Notes: _____

Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Summary



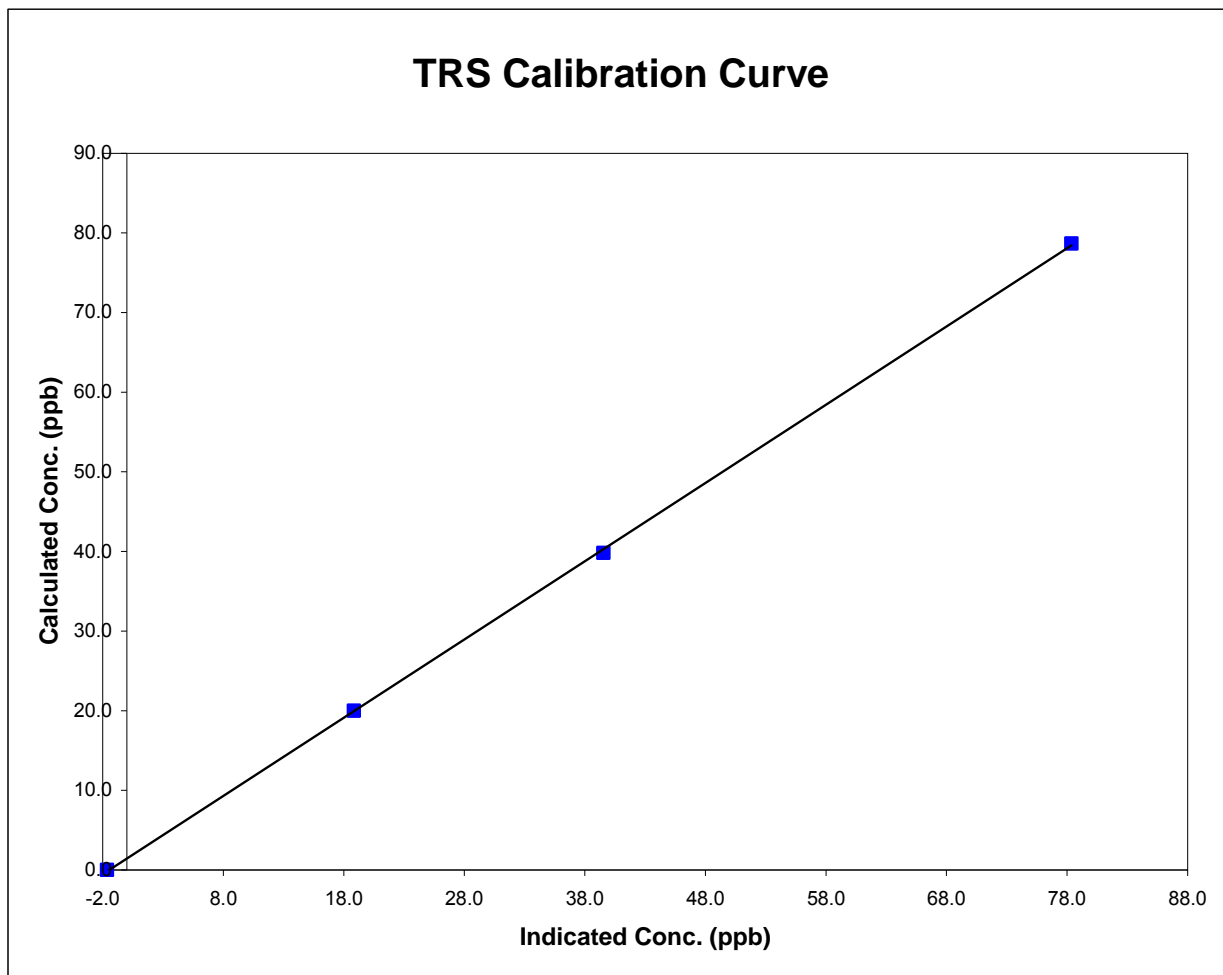
Parameter **TRS**
 Air Monitoring Network **PASZA**

Station Information

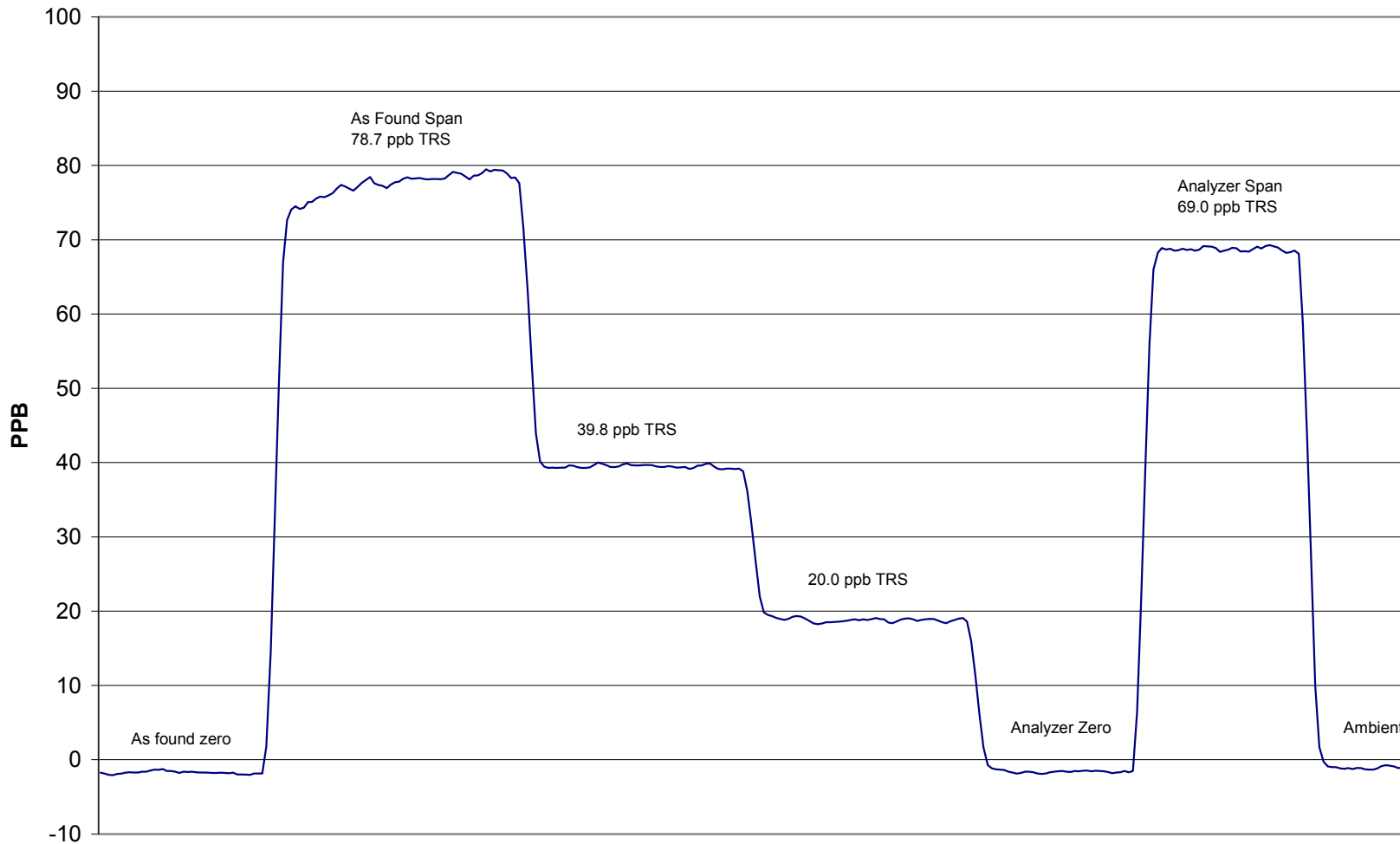
Calibration Date	August 7, 2007	Previous Calibration	July 12, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	12:30	End Time (MST)	15:30
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.6	N/A		
78.7	78.4	1.0038	Correlation Coefficient	0.999910
39.8	39.5	1.0071		
20.0	18.8	1.0620	Slope	0.982718
			Intercept	1.430907



Evergreen Park - TRS Calibration



August 7, 2007

Calibration Report

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

Station Information

Calibration Date	August 7, 2007	Previous Calibration	June 21, 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)	12:36	End Time (MST)	15:15
Barometric Pressure	0.918 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	35	%	17	%
Ko Factor	NA		NA	
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		0.00
zero flow - auxillary	0.0	-0.01		-0.01
flow recovery - main	45 - 60 Seconds	45	45 - 60 Seconds	45
flow recovery - aux	46 - 60 Seconds	55	46 - 60 Seconds	55
Temperature	measured	21.50	+/- 1.0 Deg C	21.50
Pressure	measured	0.92	+/- 1.5% ΔATM	0.92
Total Flow	16.67 SLPM	16.53		16.53
Main Flow	3.00 SLPM	2.97	+/- 1.0 SLPM	2.97
Auxillary Flow	13.67 SLPM	13.58	+/- 0.2 SLPM	13.58
Leak Check - main	0.0	0.00	<0.15 SLPM	0.00
Leak Check - aux	0.0	0.12	<0.15 SLPM	0.12
Ko Factor (w/o filter)	measured	NA	filter weight (g)	NA
Ko Factor (w/ filter)	measured	NA	% Ko difference	NA

Notes: No adjustments performed...Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Report



Parameter

SO₂

Air Monitoring Network

PASZA

Station Information

Calibration Date	August 8, 2007	Previous Calibration	July 10, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Install	<input checked="" type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:20	End Time (MST)	11:30
Barometric Pressure	0.9 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2488
Perm-tube Conc	49.6 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031273	Cal Gas Cylinder #	FF-5013
DACS make	Focus AP1000	DACS serial No.	45272
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	0.999416	Calculated slope	1.009859
Calculated intercept	1.258980	Calculated intercept	-0.193202
Analyzer make	Teco 43i	Analyzer serial #	701120009

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

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)
zero	0.0	0.00	0.2	As Found Zero
4994	39.9	393.2	389.6	As Found Span
Average Correction Factor				

Calculated value of As Found Response: 390.433 ppm Percent Change of As Found: 0.7%

	before calibration		after calibration	
Auto zero	1.7	ppm	NA	ppm
Auto span	283.5	ppm	NA	ppm

Notes:

Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Summary

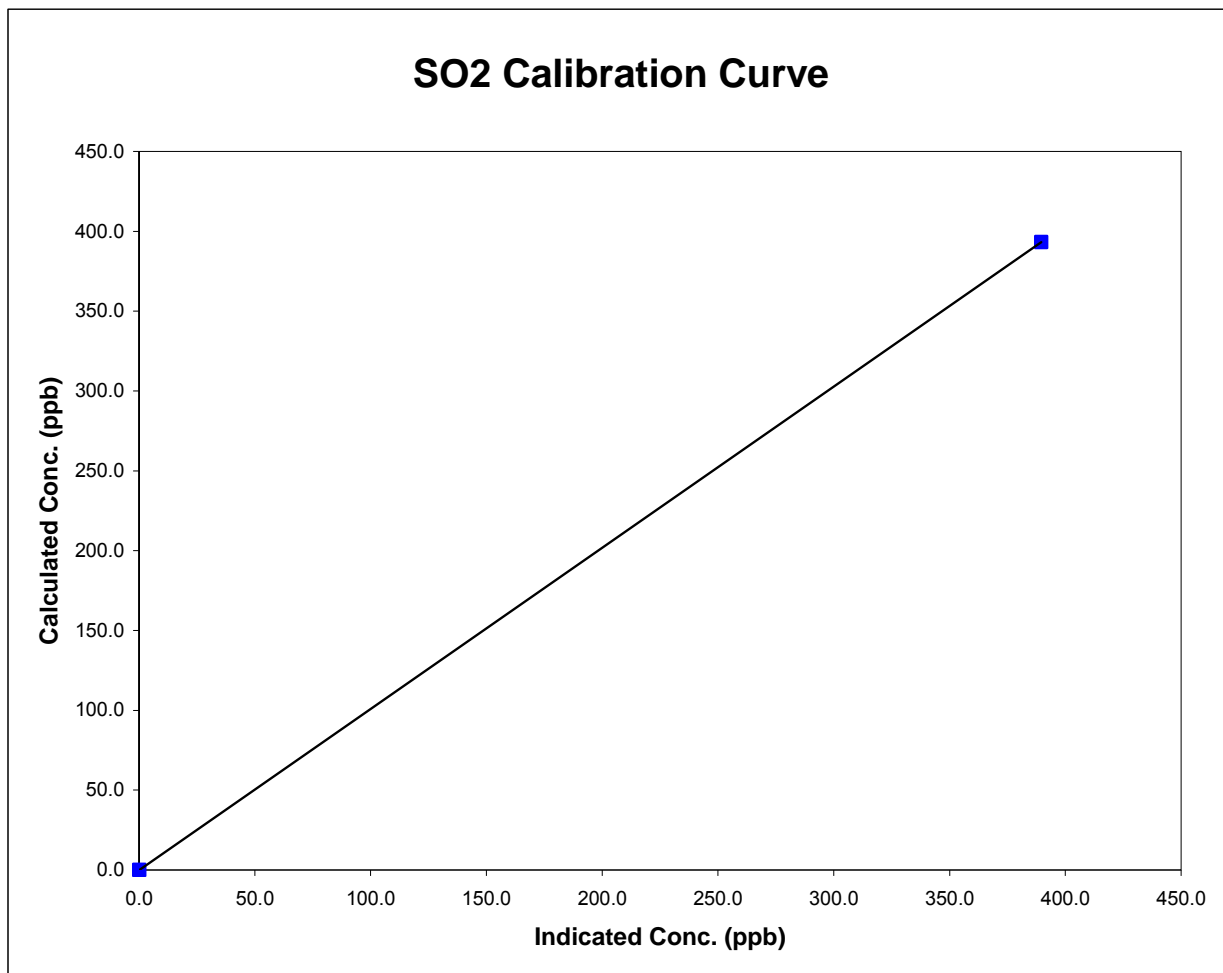
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

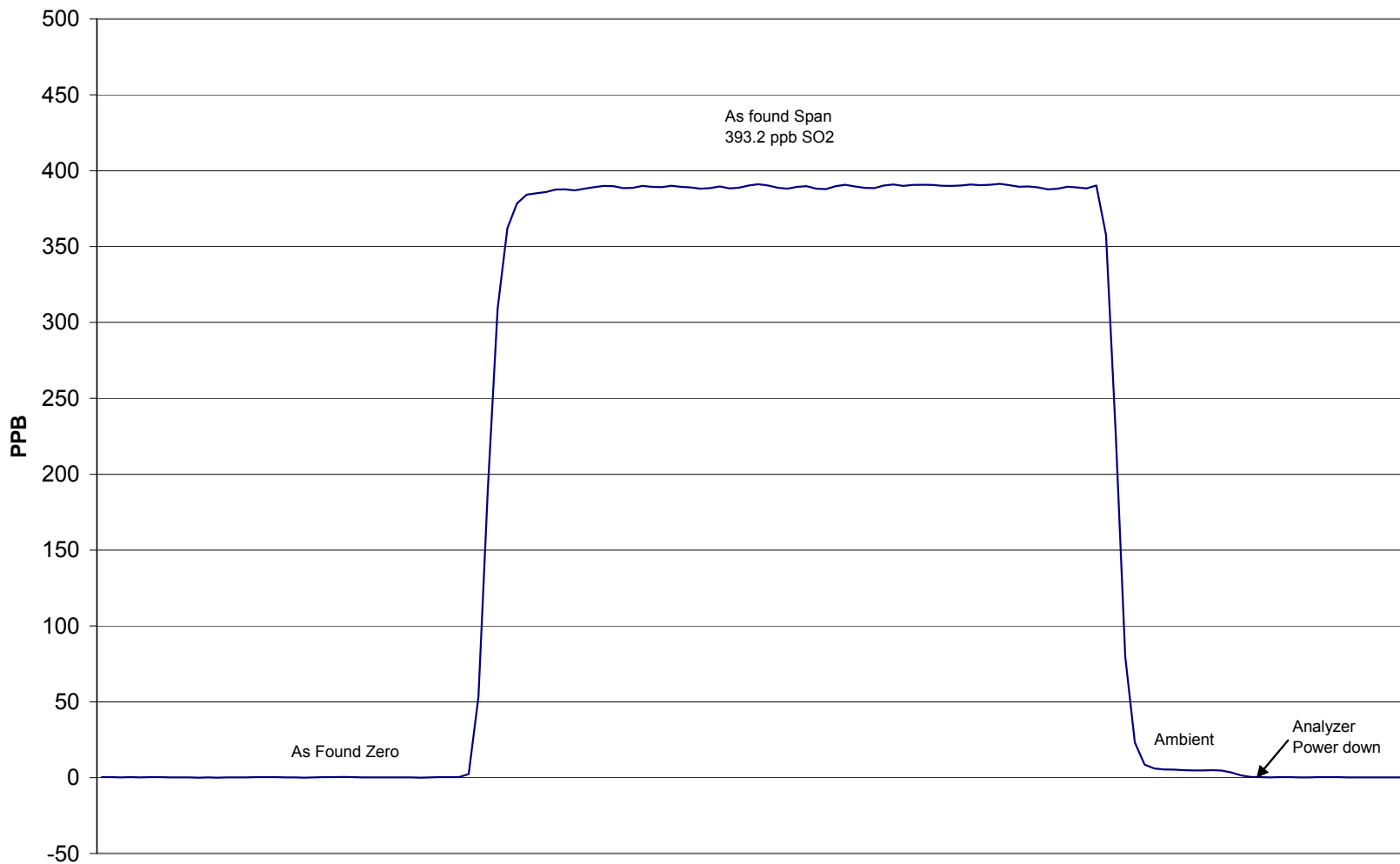
Calibration Date	August 8, 2007	Previous Calibration	July 10, 2007
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	10:20	End Time (MST)	11:30
Analyzer make/model	Teco 43i	Analyzer serial #	701120009

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	NA		
393.2	389.6	1.0094	Correlation Coefficient	1.000000
			Slope	1.009859
			Intercept	-0.193202



Smoky Heights - SO2 Removal Calibration



August 8, 2007

Calibration Report



Parameter

SO₂

Air Monitoring Network

PASZA

Station Information

Calibration Date	August 9, 2007	Previous Calibration	July 10, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:30	End Time (MST)	
Barometric Pressure	0.9 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2488
Perm-tube Conc	49.6 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031273	Cal Gas Cylinder #	FF-5013
DACS make	Focus AP1000	DACS serial No.	45272
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	1.009859	Calculated slope	0.995805
Calculated intercept	-0.193202	Calculated intercept	-4.735123
Analyzer make	TECO 43C	Analyzer serial #	3199000000491

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

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)
4994	0.0	0.00	3.2	N/A
4994	39.9	393.24	398.0	0.9880
4998	19.9	197.10	205.9	0.9575
4993	10.0	99.00	104.2	0.9505
Average Correction Factor				0.9653

Calculated value of As Found Response: NA

Percent Change of As Found: NA

	before calibration		after calibration	
Auto zero	1.7	ppm	-1.0	ppm
Auto span	283.5	ppm	225.2	ppm

Notes:

Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Summary

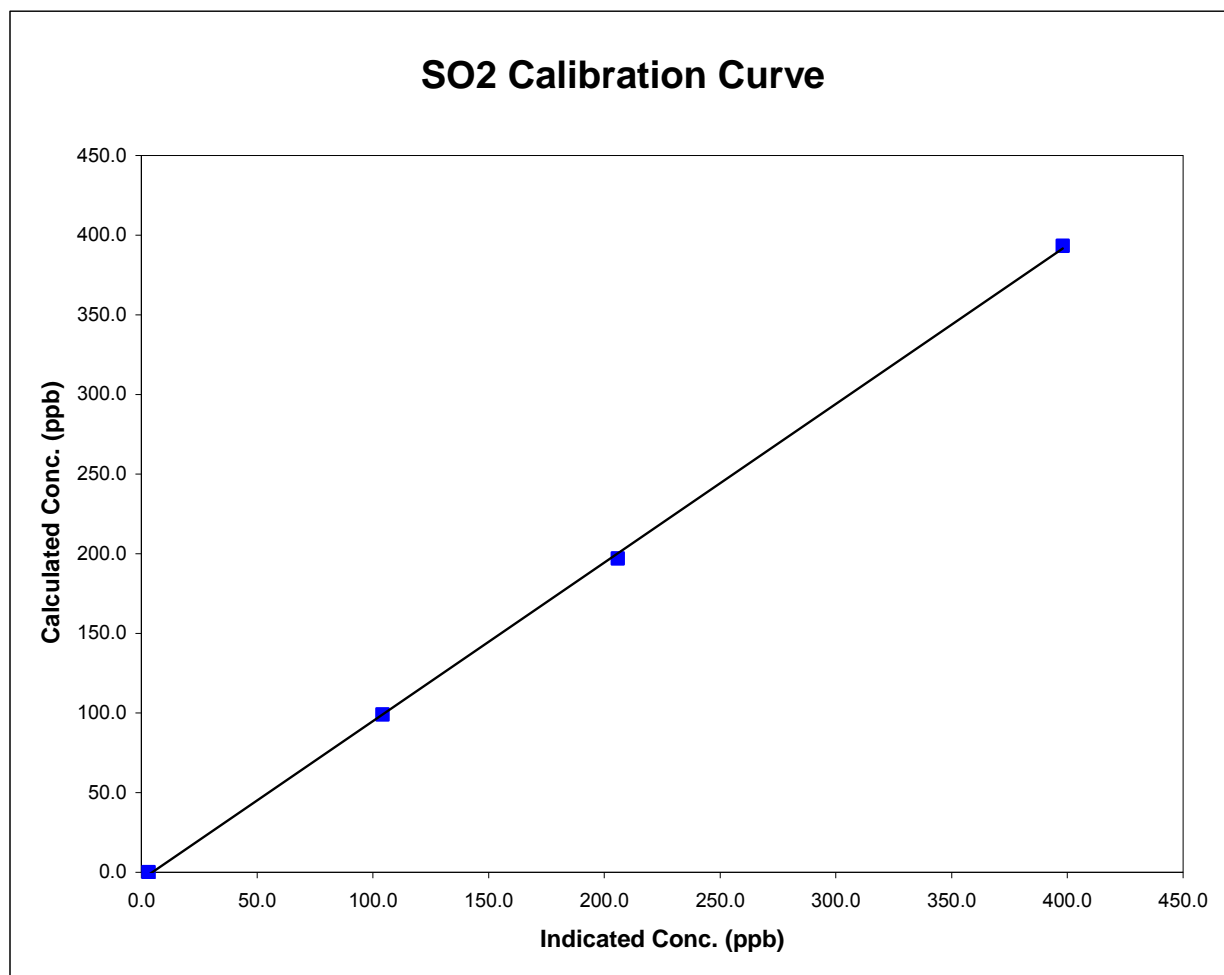
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

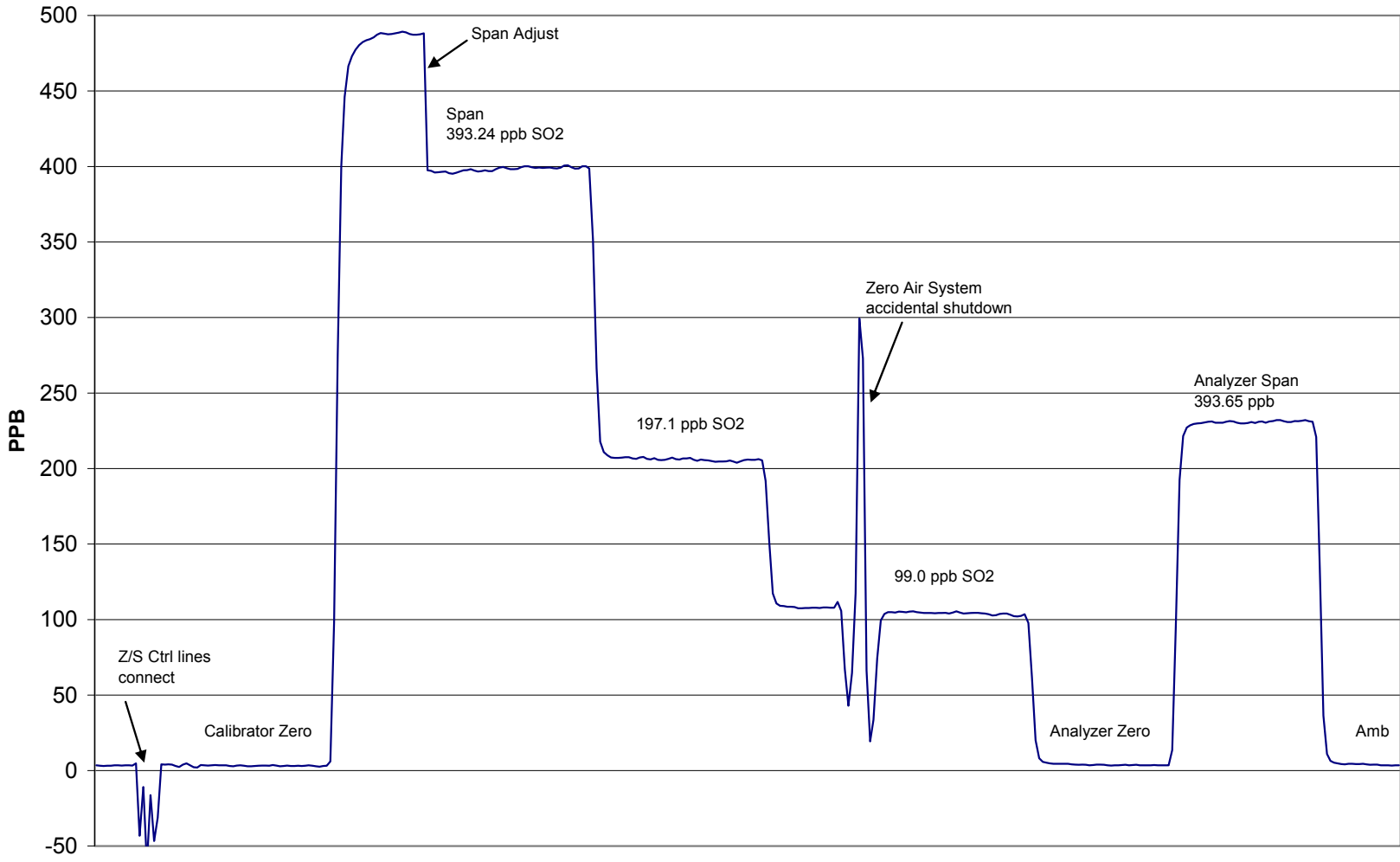
Calibration Date	August 9, 2007	Previous Calibration	July 10, 2007
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	9:30	End Time (MST)	0:00
Analyzer make/model	TECO 43C	Analyzer serial #	3.199E+13

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	3.2	N/A		
393.2	398.0	0.9880	Correlation Coefficient	0.999824
197.1	205.9	0.9575		
99.0	104.2	0.9505	Slope	0.995805
			Intercept	-4.735123



Smoky Heights - SO2 Installation Calibration



August 9, 2007

Calibration Report

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

Station Information

Calibration Date	August 8, 2007	Previous Calibration	July 12, 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)	11:18	End Time (MST)	13:49
Barometric Pressure	0.922 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6103	Serial Number	2488
Cal Gas Conc	5.02 ppm	Cal Gas Expiry Date	Nov 15 2005
Correction factor	0.031341	Cal Gas Cylinder #	BLM003489
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	0.995901	Calculated slope	0.991309
Calculated intercept	-0.115270	Calculated intercept	-0.304696
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	17.5	ppb	11.2	ppb
coefficient	0.976		1.006	
Lamp Voltage	787	volts	765	volts
Chamber Temp	44.2	Deg C	44	Deg C
Perm Gas Temp	45	Deg C	45.01	Deg C
Pressure	630.9	mm Hg	503.3	mm Hg
Sample Flow	466	ccm	781	ccm
Lamp Intensity	45,700	mv	45,746	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	0.0	0.0	0.3	N/A
4996	79.5	78.7	79.7	0.9873
4996	40.0	39.8	40.4	0.9848
4996	10.0	10.0	10.5	0.9576
zero	0.0	0.0	0.3	As Found Zero
4996	79.5	78.7	79.7	As Found Span
Average Correction Factor				0.9766

Calculated value of As Found Response: 78.96 ppm Percent Change of As Found: -0.4%

	before calibration		after calibration	
Auto zero	0.3	ppm	-0.1	ppm
Auto span	66.3	ppm	42.7	ppm

Notes:

Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Summary

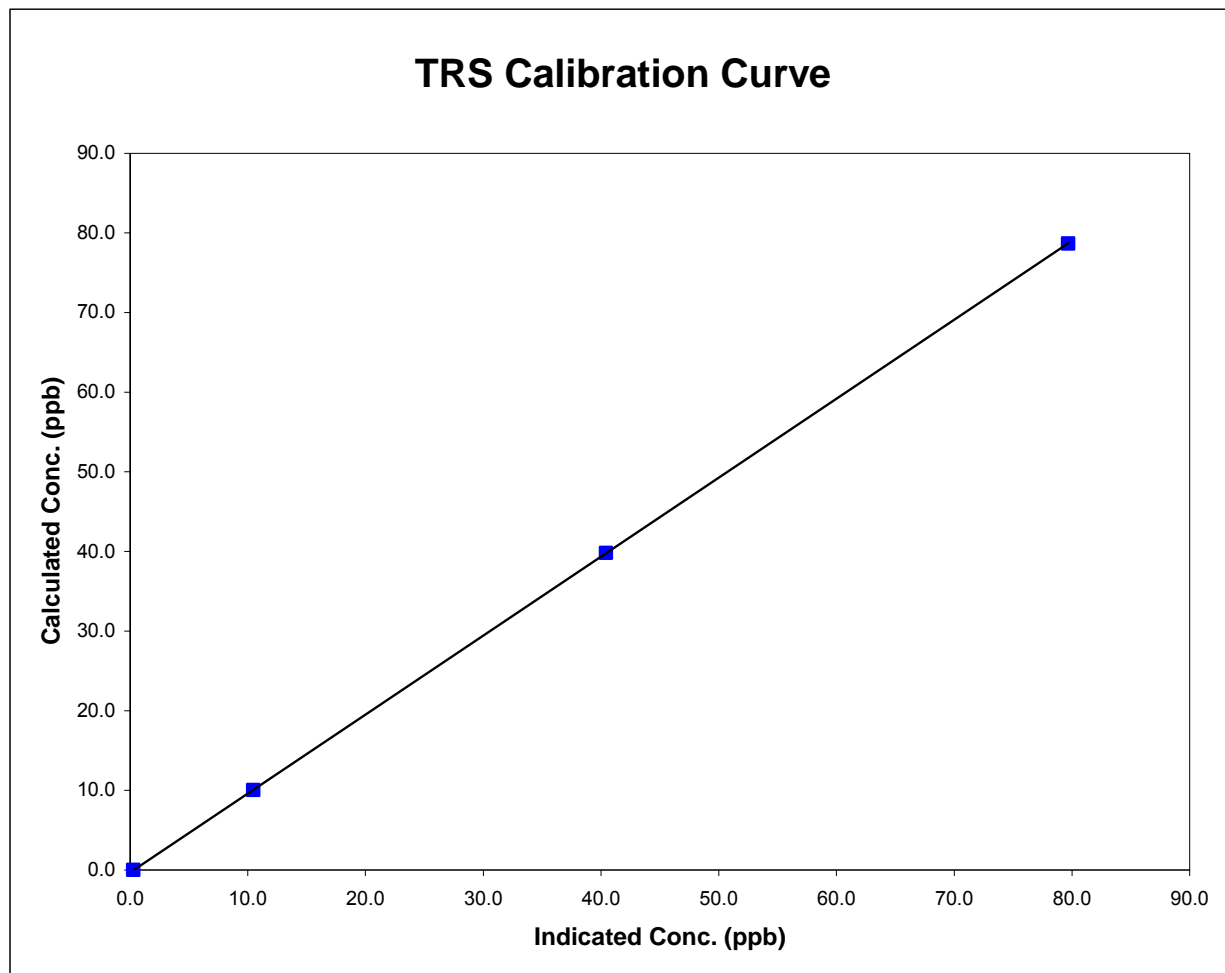
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

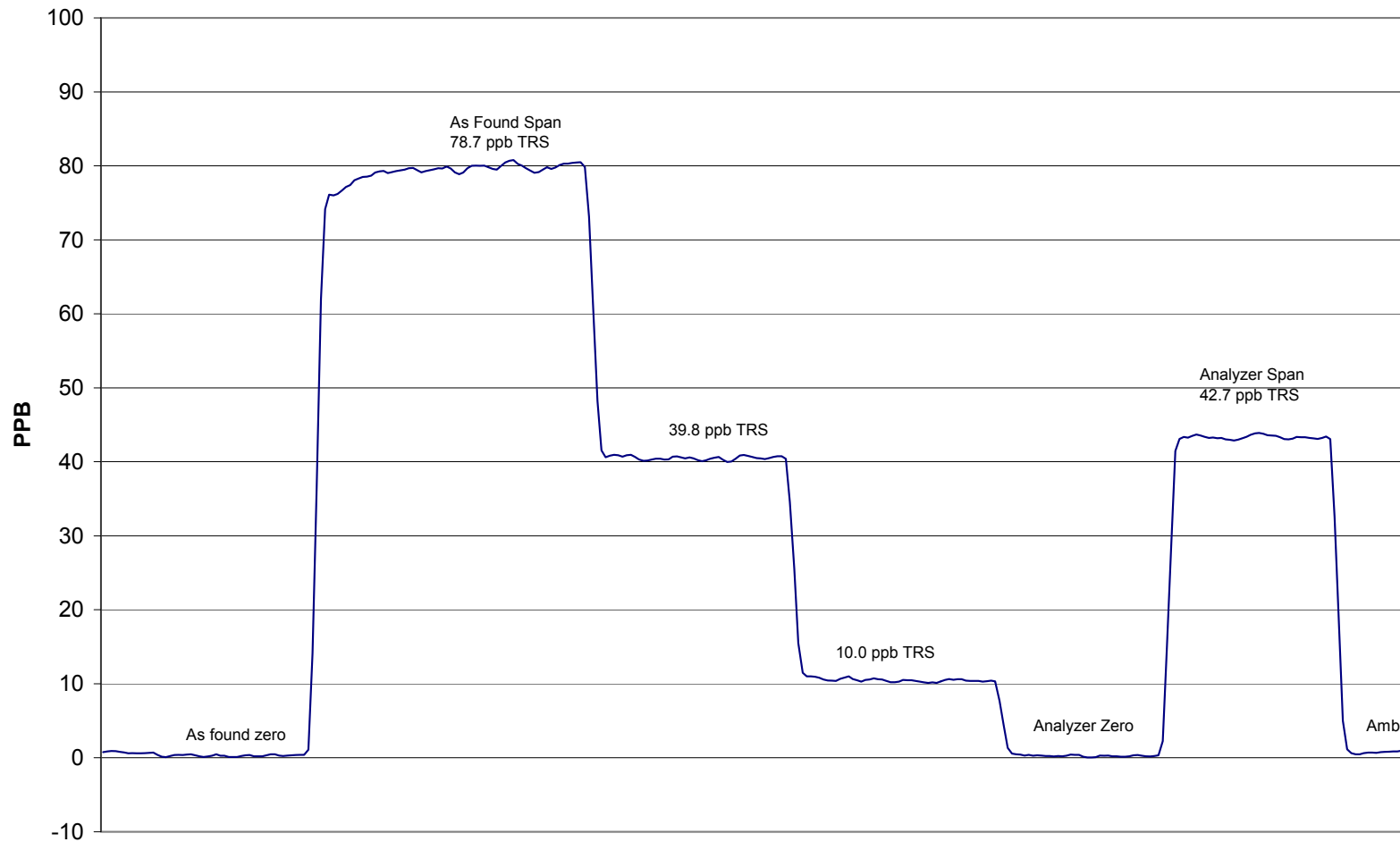
Calibration Date	August 8, 2007	Previous Calibration	July 12, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:18	End Time (MST)	13:49
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
78.7	79.7	0.9873	Correlation Coefficient	0.999999
39.8	40.4	0.9848		
10.0	10.5	0.9576	Slope	0.991309
			Intercept	-0.304696



Smoky Heights - TRS Calibration



August 8, 2007

Calibration Report

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

Station Information

Calibration Date	August 7, 2007	Previous Calibration	June 21, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	7:20	End Time (MST)	9:15
Barometric Pressure	0.931 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	0.11	zero flow - main	0.00
zero flow - auxillary	0.0	0.29	zero flow - auxillary	0.01
flow recovery - main	45 - 60 Seconds	30	45 - 60 Seconds	33
flow recovery - aux	46 - 60 Seconds	42	46 - 60 Seconds	45
Temperature	measured	9.5	+/- 1.0 Deg C	9.3
Pressure	measured	0.930	+/- 1.5% ΔATM	0.930
Total Flow	16.67 SLPM	16.18		16.52
Main Flow	3.0 SLPM	2.93	+/- 1.0 SLPM	3.01
Auxillary Flow	13.67SLPM	13.210	+/- 0.2 SLPM	13.530
Leak Check - main	0.0	0.11	<0.15 SLPM	0.00
Leak Check - aux	0.0	0.28	<0.15 SLPM	0.00
Ko Factor (w/o filter)	measured	NA	filter weight (g)	NA
Ko Factor (w/ filter)	measured	NA	% Ko difference	NA

Notes: Adjusted Flows, Adjusted Zero Flow
Replaced aux line filter

Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Report

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

Station Information

Calibration Date	August 23, 2007	Previous Calibration	July 13, 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)	7:10	End Time (MST)	9:20
Barometric Pressure	0.915 atm	Station Temperature	20.0 Deg C
Calibrator	Envionics 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.	45269
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.032451	Calculated slope	1.047022
Calculated intercept	5.202191	Calculated intercept	5.275609
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0-100	ppb	0 - 100	ppb
Background	1.97		3.13	
Coefficient	0.756		0.813	
PMT	N/A	V	-705	V
UV Lamp Voltage	896.0	LPM	897	LPM
Chamber Temp	44.4	V	44.1	V
Pressure	626.1	mm Hg	664	mm Hg
Sample Flow	0.576	LPM	0.616	LPM
Lamp Intesity	45370	Hz	29551	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	-0.8	N/A
5000	7.94	79.7	79.3	1.0060
5000	4.96	49.8	52.3	0.9539
5000	2.00	20.1	23.4	0.8590
5000	0.00	0.0	-0.8	As found zero
5000	8.00	80.4	79.3	As found span
Average Correction Factor				0.9396

Calculated value of As Found Response: 87.891 ppm Percent Change of As Found: -9.4%

	before calibration		after calibration	
Auto zero	-3.6	ppm	4.1	ppm
Auto span	991.4	ppm	32.9	ppm

Notes: Second Point dropped like rock, sourcing problem...
Possibly a software issue, analyzer is recording as normal...

Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Summary

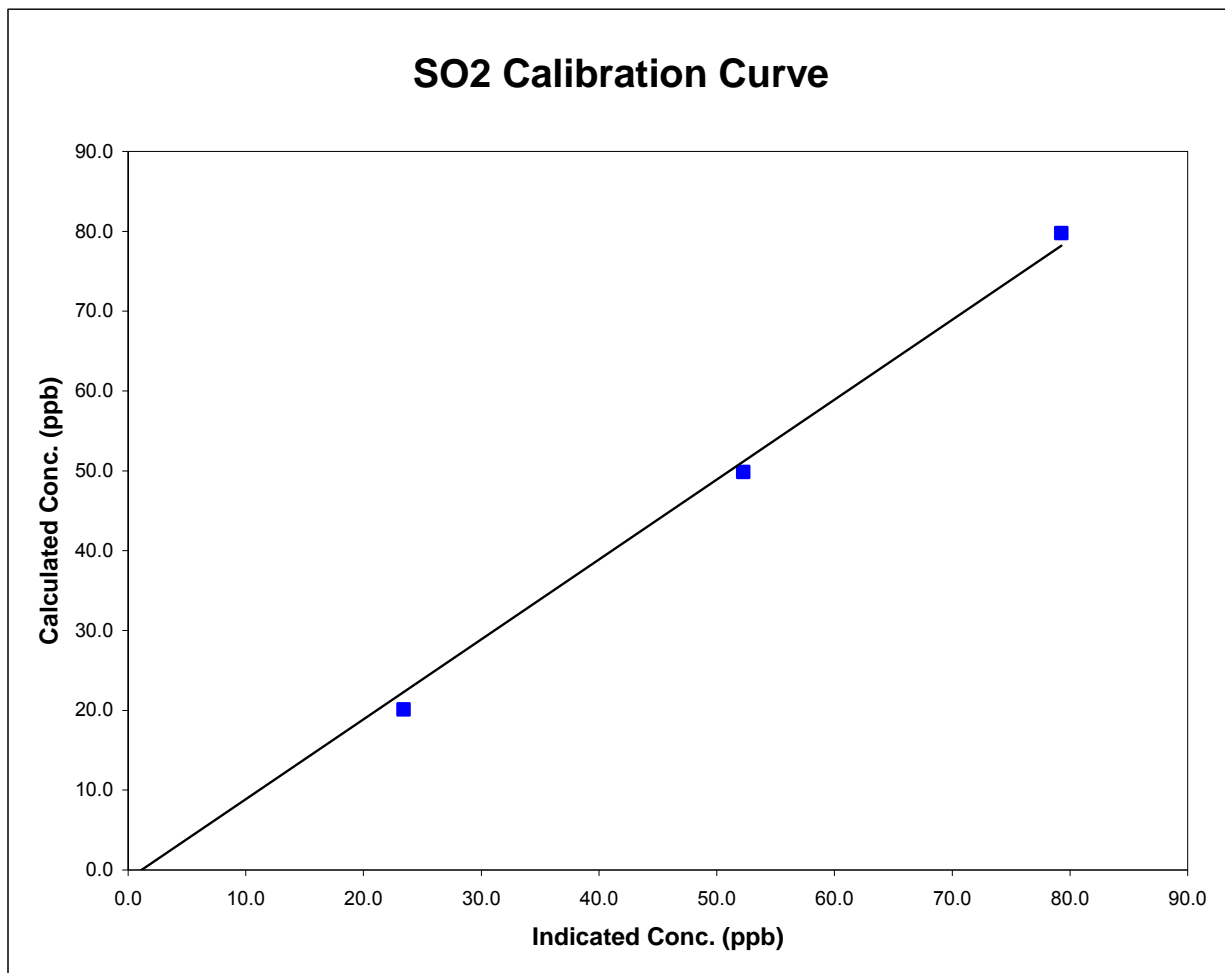
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

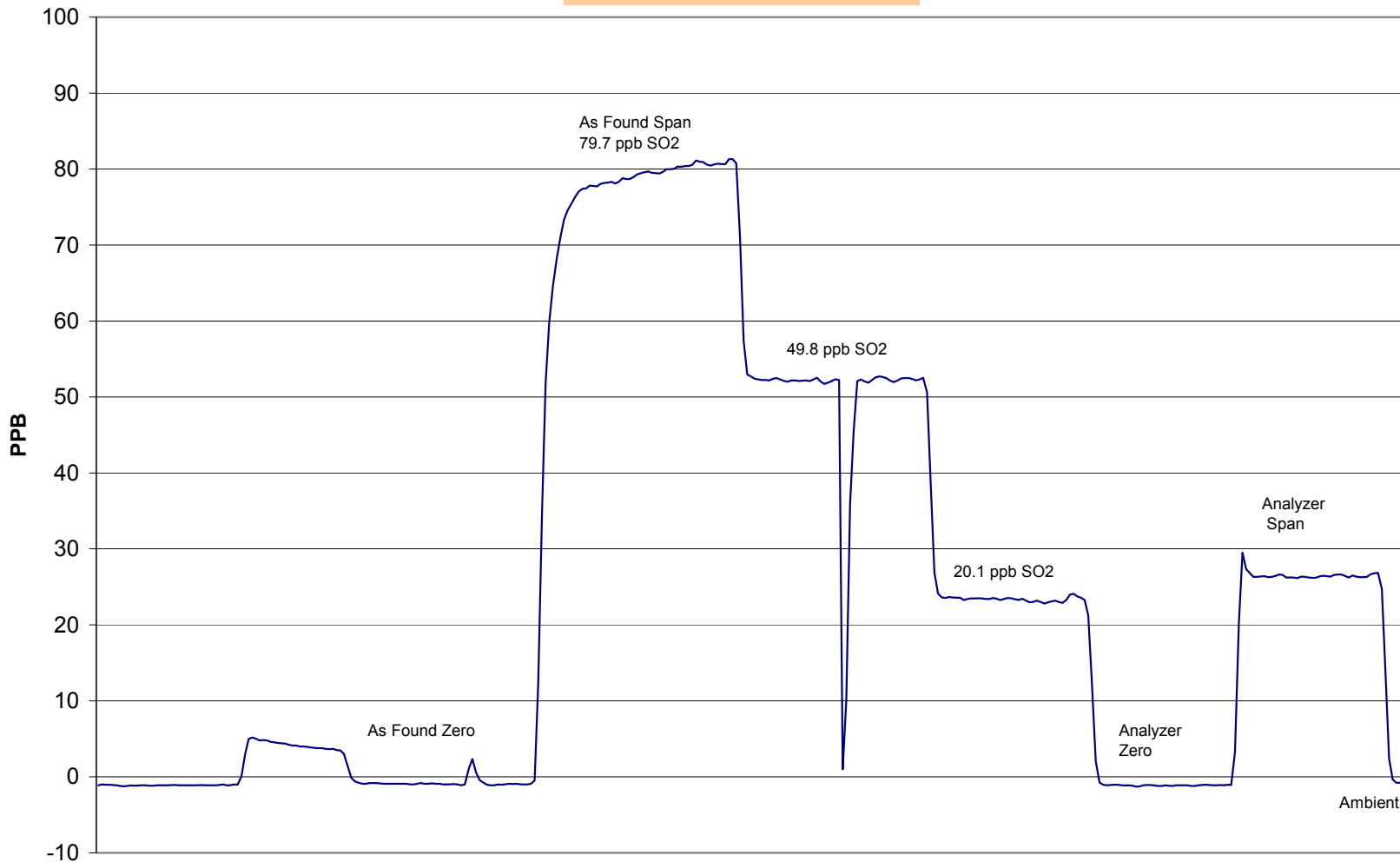
Calibration Date	August 23, 2007	Previous Calibration	July 13, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	7:10	End Time (MST)	9:20
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.8	N/A		
79.7	79.3	1.0060	Correlation Coefficient	0.996508
49.8	52.3	0.9539		
20.1	23.4	0.8590	Slope	1.001141
			Intercept	-1.147463



Beaverlodge - SO2 Calibration



August 23, 2007

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA



Station Information

Calibration Date August 23, 2007Previous Calibration July 13, 2007Station Number 4Station Location Beaverlodge

Reason:

 Routine Installation Removal

Other: _____

Start Time (MST) 18:40:00End Time (MST) 22:00:00Barometric Pressure 0.915 AtmStation Temperature 20.0 Deg CCalibrator EnviroNics 6103Serial Number 2488NO Cal Gas Conc 48.9 ppmCal Gas Expiry Date 2-Jan-09NOx Cal Gas Conc 48.9 ppmCal Gas Serial # LL 16161

DACS Information

DACs make

FOCUS AP1000

DACs serial No.

45269

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

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	1.4	mV
NO coefficient	1.102		1.102	
NOx coefficient	0.999		0.999	
PMT Voltage	n/a	V	-635	V
Chamber Temp	49.3	Deg C	49.3	Deg C
Cooler Temp	-2.1	Deg C	-2.2	Deg C
Converter Temp	323.0	Deg C	324.0	Deg C
Sample Flow	0.768	LPM	0.779	LPM
Ozonator Flow	0.086	LPM	0.870	LPM
Pressure	172.4	inches HG	176.1	inches Hg

Notes: Calibrating at 40ccm as we initially started calibrating both SO2 and Nox

Calibration Report

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



Station Information

Calibration Date: **August 23, 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	39.92	387.6	387.6	0.0	382.8	383.9	-1.6	1.0126	1.0098
2	4996	19.95	194.5	194.5	0.0	193.9	194.5	-1.0	1.0031	1.0000
3	4996	9.97	97.4	97.4	0.0	97.9	98.6	-0.4	0.9945	0.9873
AFZ	4996	0.00	0.0	0.0	0.0	-0.2	-0.3	-0.3	0.0000	0.0000
AFS	4996	79.86	769.4	769.4	0.0	382.8	383.9	-1.6	2.0098	2.0042
Average Correction Factor									1.0034	0.9990

As Found Concentrations: NO_x= 383.4 NO= 385.1 As Found Percent Change NO_x= -50.2% NO= -49.9%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

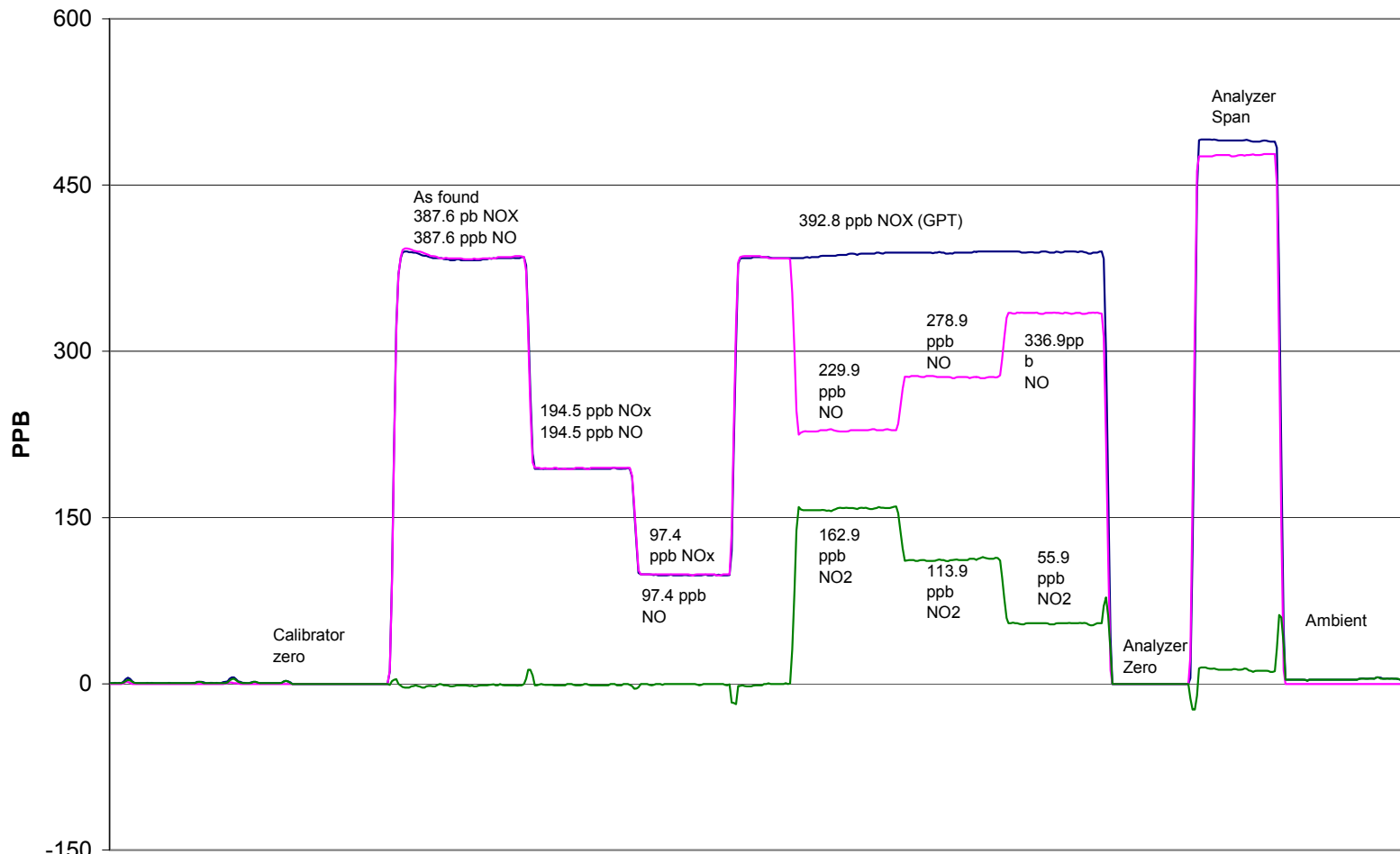
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	392.8	387.5	5.3	384.5	384.5	-0.5	1.0214	1.0077	N/A	N/A
300	392.8	229.9	162.9	387.2	228.6	158.0	1.0144	1.0058	1.0310	97.0%
200	392.8	278.9	113.9	388.9	277.0	111.3	1.0099	1.0066	1.0230	97.8%
100	392.8	336.9	55.9	389.7	334.5	54.5	1.0078	1.0073	1.0248	97.6%
Average Correction Factor							1.0107	1.0066	1.0263	97.4%

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	495.8	13.3	480.7	ppb

Calibration Performed By: Lenin Flores, Conor Whiteley

Beaverlodge - NOx Calibration



August 23, 2007

Calibration Summary

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

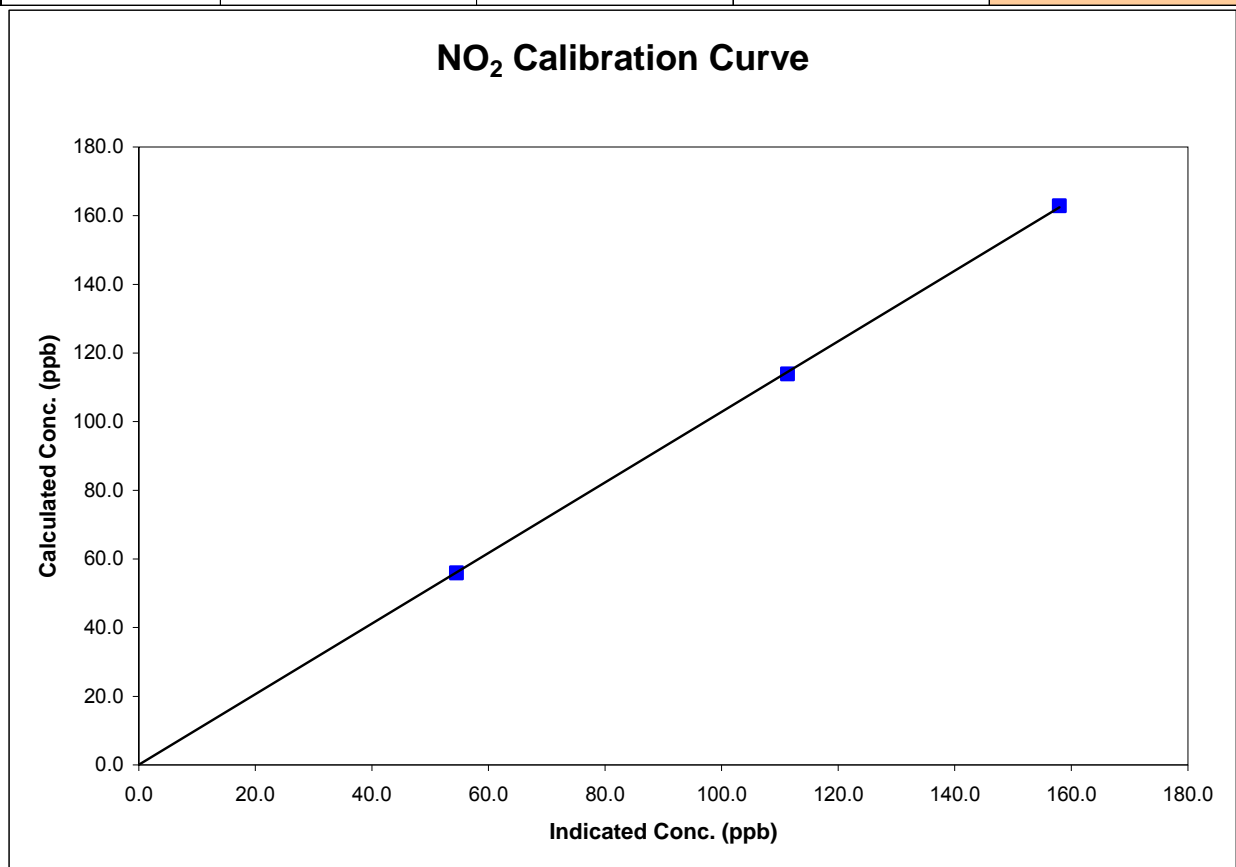


Station Information

Calibration Date	August 23, 2007	Previous Calibration	July 13, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	18:40	End Time (MST)	22:00
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	Correlation Coefficient	0.999955
162.9	158.0	1.0310		
113.9	111.3	1.0230		
55.9	54.5	1.0248		
			Slope	1.027895
			Intercept	0.023815



Calibration Summary

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



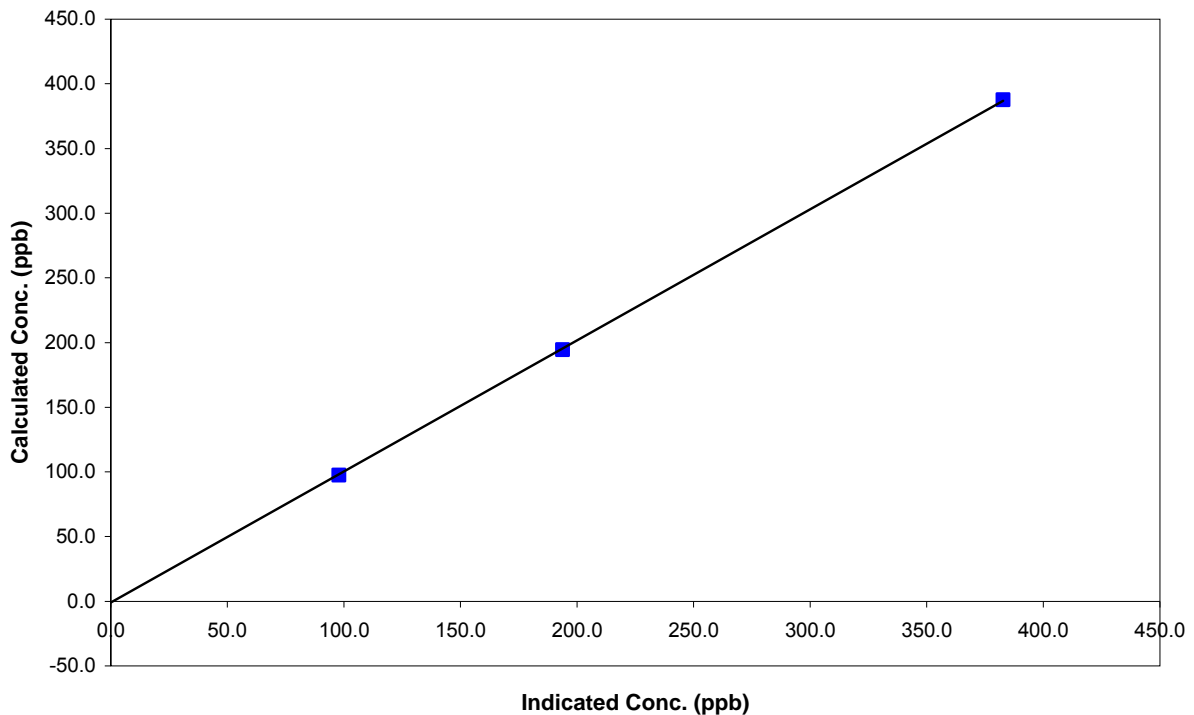
Station Information

Calibration Date	August 23, 2007	Previous Calibration	July 13, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	18:40	End Time (MST)	22:00
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	0.999954
387.6	382.8	1.0126		
194.5	193.9	1.0031		
97.4	97.9	0.9945		
			Slope	1.013103
			Intercept	-0.928142

NO_x Calibration Curve



Calibration Summary

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

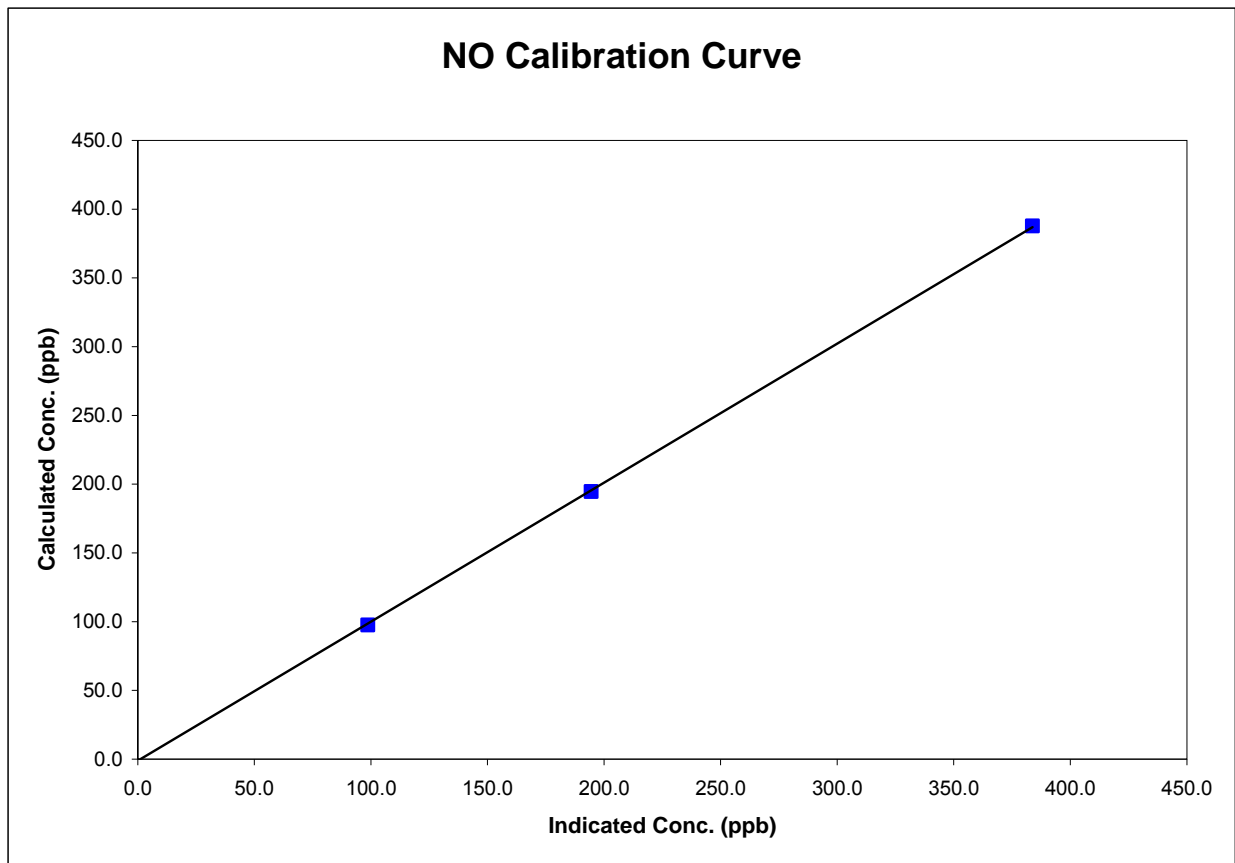


Station Information

Calibration Date	August 23, 2007	Previous Calibration	July 13, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	18:40	End Time (MST)	22:00
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	Correlation Coefficient	0.999939
387.6	383.9	1.0098		
194.5	194.5	1.0000	Slope	1.010483
97.4	98.6	0.9873		
			Intercept	-1.064740



Calibration Report

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

Station Information

Calibration Date	August 24, 2007	Previous Calibration	July 13, 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)	9:20	End Time (MST)	11:30
Barometric Pressure	0.908 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	1633
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	1.003356	Calculated slope	1.146396
Calculated intercept	2.491021	Calculated intercept	-6.167398
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	71	mV	56.3	mV
Lamp Intensity A/B	84200/82100	mV	80176/77508	mV
Pressure	581.4	mm Hg	650	mm Hg
Flow A	750	ccm	730	ccm
Flow B	705	ccm	684	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	-0.1	N/A
4992	0.00	300.00	272.4	1.1013
4992	0.00	200.00	180.7	1.1067
4992	0.00	100.00	84.2	1.1873
4992	0.00	0.0	-0.1	As found zero
4992	0.00	316.8	272.4	As found span
Average Correction Factor				1.1318

Calculated value of As Found Response: 275.9 ppm Percent Change of As Found: -12.9%

	before calibration		after calibration	
Auto zero	2.5	ppb	-6.4	ppb
Auto span	114.2	ppb	116.2	ppb

Notes: No Adjustments.

Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Summary

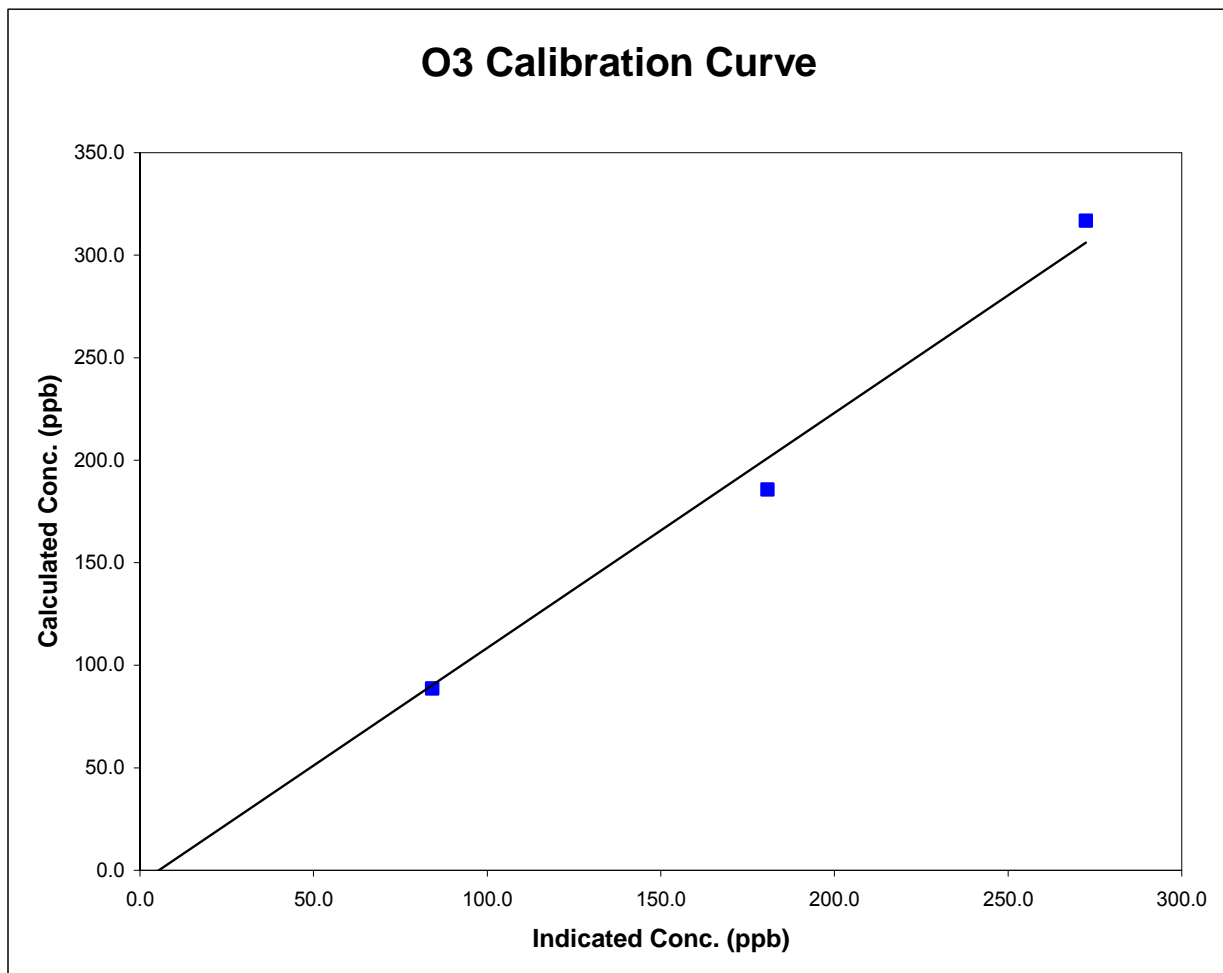
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

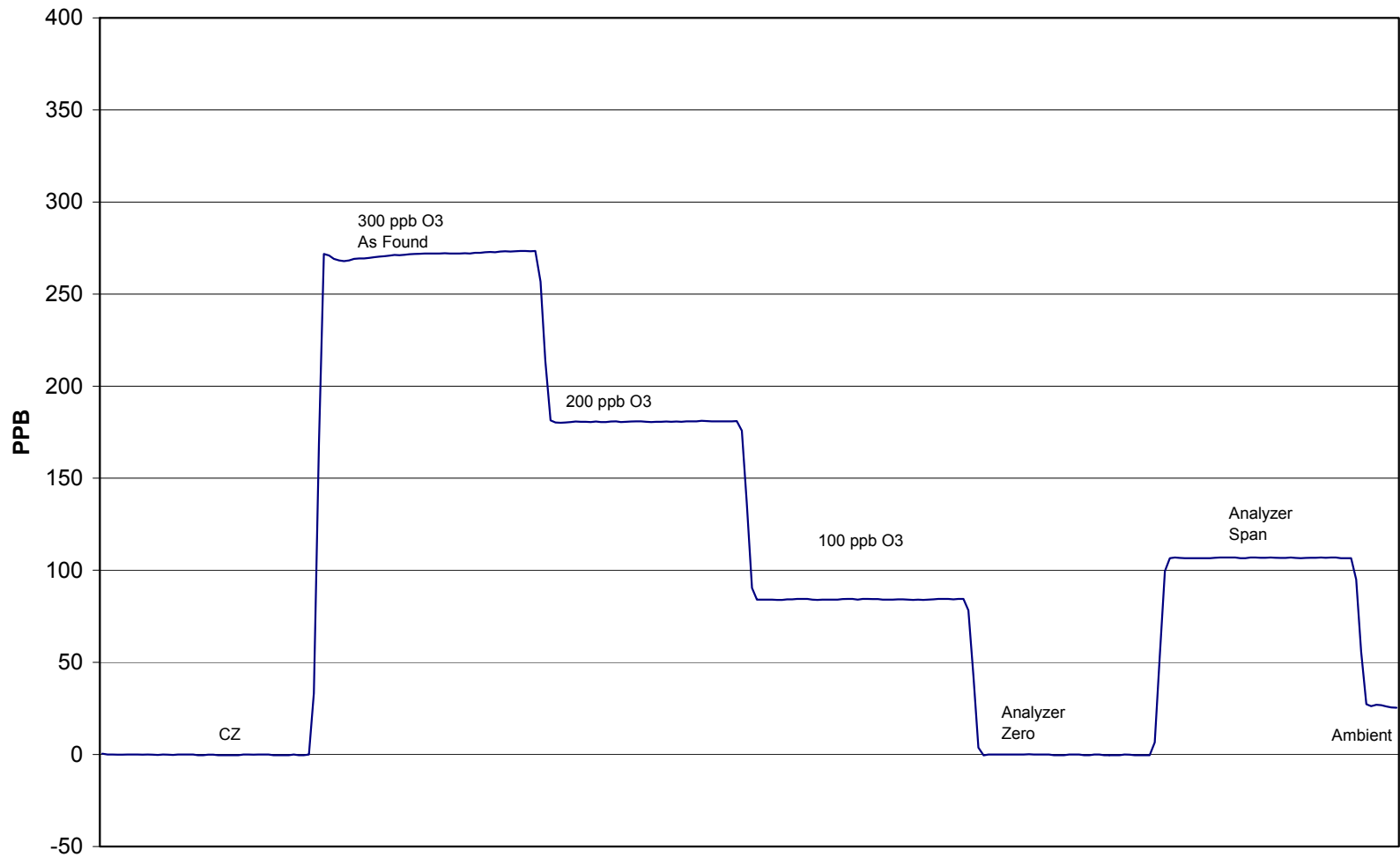
Calibration Date	August 24, 2007	Previous Calibration	July 13, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	9:20	End Time (MST)	11:30
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	NA		
316.8	272.4	1.1629	Correlation Coefficient	0.992937
185.7	180.7	1.0276		
88.7	84.2	1.0531	Slope	1.146396
			Intercept	-6.167398



Beaverlodge - O3 Calibration



August 24, 2007

Calibration Report

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



Station Information

Calibration Date	August 24, 2007	Previous Calibration	May 29, 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)	7:15	End Time (MST)	10:37
Barometric Pressure	0.913 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	0.08		0.01
zero flow - auxillary	0.0	-0.05		0.01
flow recovery - main	45 - 60 Seconds	36.00	45 - 60 Seconds	34.00
flow recovery - aux	46 - 60 Seconds	48.00	46 - 60 Seconds	48.00
Temperature	measured	9.3	+/- 1.0 Deg C	9.3
Pressure	measured	0.913	+/- 1.5% Δ _{ATM}	0.913
Total Flow	16.67 SLPM	17.10		16.45
Auxillary Flow	13.67 SLPM	13.97	+/- 1.0 SLPM	13.44
Main Flow	3.0 SLPM	3.160	+/- 0.2 SLPM	3.010
Leak Check - main	0.0	0.15	<0.15 SLPM	0.01
Leak Check - aux	0.0	0.84	<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: Adjusted Zero and Span, detected signifigent leak in both Main and Aux line repaired both
Adjusted Flow as necessary, temp/pressure both exactly on

Calibration Performed By: Lenin Flores, Conor Whiteley

Calibration Report

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

Station Information

Calibration Date	August 28, 2007	Previous Calibration	July 25, 2007
Station Number	6	Station Location	Portable - Falher
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)	14:20
Barometric Pressure	28.05 inches Hg	Station Temperature	29.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	49.6 ppm	Cal Gas Expiry Date	12/5/2007
Gas Cert Reference	BAL786		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.981359	Calculated slope	1.036126
Calculated intercept	8.147592	Calculated intercept	11.558994
Analyzer make	TEI 43C APS1AB	Analyzer serial #	609716238

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Background	8		8.1	
Coefficient	1.137		1.137	
UV Lamp Voltage	742	LPM	739	LPM
Chamber Temp	44.3	V	44.4	V
Perm Gas Temp	45	C	45	C
Pressure	695.2	in Hg	680	in Hg
Sample Flow	0.498	LPM	0.49	LPM
Lamp Intesity	34500	Hz	33792	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	0.0	N/A
4992	39.94	393.7	374.8	1.0503
4992	19.96	197.6	169.4	1.1663
4992	9.98	99.0	77.3	1.2806
4992	0.00	0.0	0.0	As found zero
4992	39.94	393.7	374.8	As found span
Average Correction Factor				1.1657

Calculated value of As Found Response: 375.961 ppm Percent Change of As Found: 4.5%

	before calibration		after calibration	
Auto zero	4.7	ppm	12.0	ppm
Auto span	35.0	ppm	309.0	ppm

Notes: Issues with possible contamination of Calibrator
Restarted zero and high point after spike

Calibration Performed By: Reid Balawyder, Conor Whiteley

Calibration Summary

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

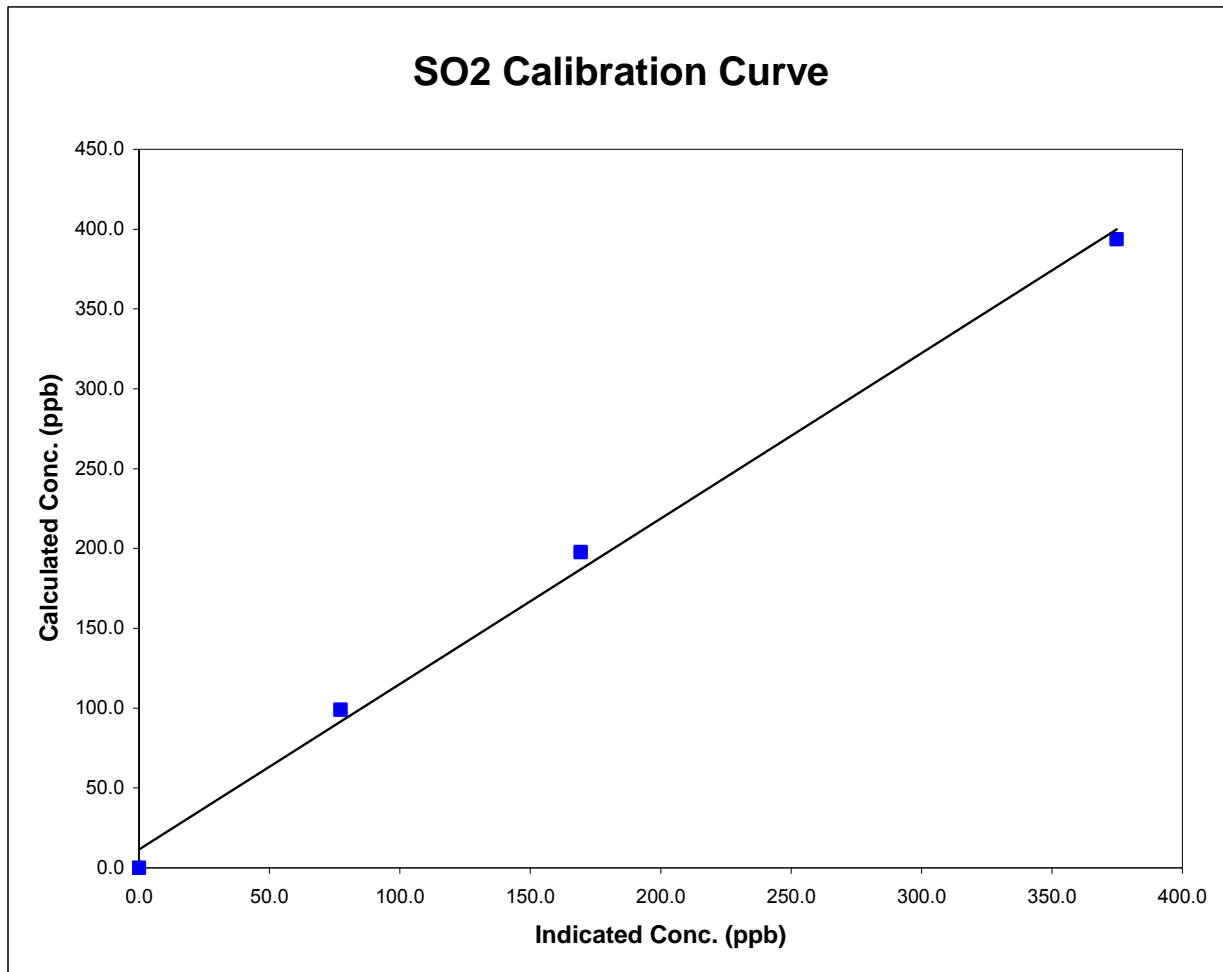


Station Information

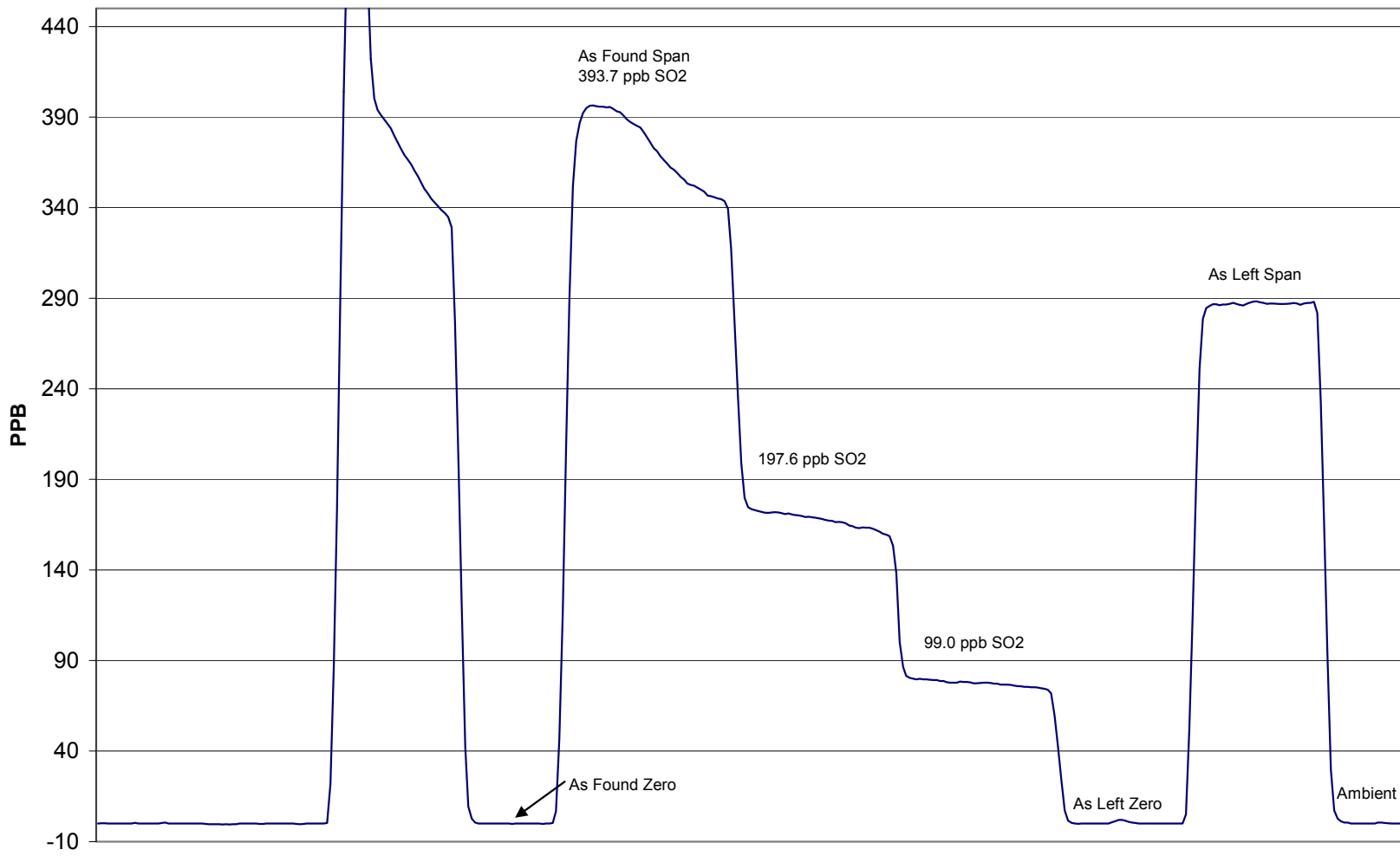
Calibration Date	August 28, 2007	Previous Calibration	July 25, 2007
Station Number	6	Station Location	Portable - Falher
Start Time (MST)	11:00	End Time (MST)	14:20
Analyzer make/model	TEI 43C APS1AB	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
393.7	374.8	1.0503	Correlation Coefficient	0.996022
197.6	169.4	1.1663		
99.0	77.3	1.2806	Slope	1.036126
			Intercept	11.558994



Portable - Falher - SO2 Calibration



August 28, 2007

Calibration Report



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

Station Information

Calibration Date	August 29, 2007	Previous Calibration	July 25, 2006
Station Number	6	Station Location	Portable - Falher Rover
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:00	End Time (MST)	12:30
Barometric Pressure	28.0 inches Hg	Station Temperature	21.0 Deg C
Calibrator	Envionics 6103	Serial Number	2844
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	1.020770	Calculated slope	1.008925
Calculated intercept	0.141693	Calculated intercept	0.396422
Analyzer make	TEI 43C MOD	Analyzer serial #	609716238

	before		after	
Concentration range	0-100	ppb	0 - 100	ppb
Background	8.7	ppb	4.8	ppb
Coefficient	1.496		1.055	
Lamp Voltage	801	V	801	V
Chamber Temp	43.9	C	43.9	C
Perm gas Temp	45	C	45	C
Pressure	663.9	mmHg	675	mmHg
Sample Flow	437	ccm	441	ccm
Lamp Intensity	38756	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	-0.3	N/A
4992	69.85	70.9	69.8	1.0156
4992	39.93	40.8	40.2	1.0146
4992	9.96	10.2	9.6	1.0694
4992	0.00	0.0	-0.3	As found zero
4992	79.86	80.9	69.8	As found span
Average Correction Factor				1.0332

Calculated value of As Found Response: 71.75 ppm Percent Change of As Found: 11.3%

	before calibration		after calibration	
Auto zero	-0.2	ppm	0.1	ppm
Auto span	77.1	ppm	76.3	ppm

Notes:

Calibration Performed By: Reid Balawyder, Conor Whiteley

Calibration Summary

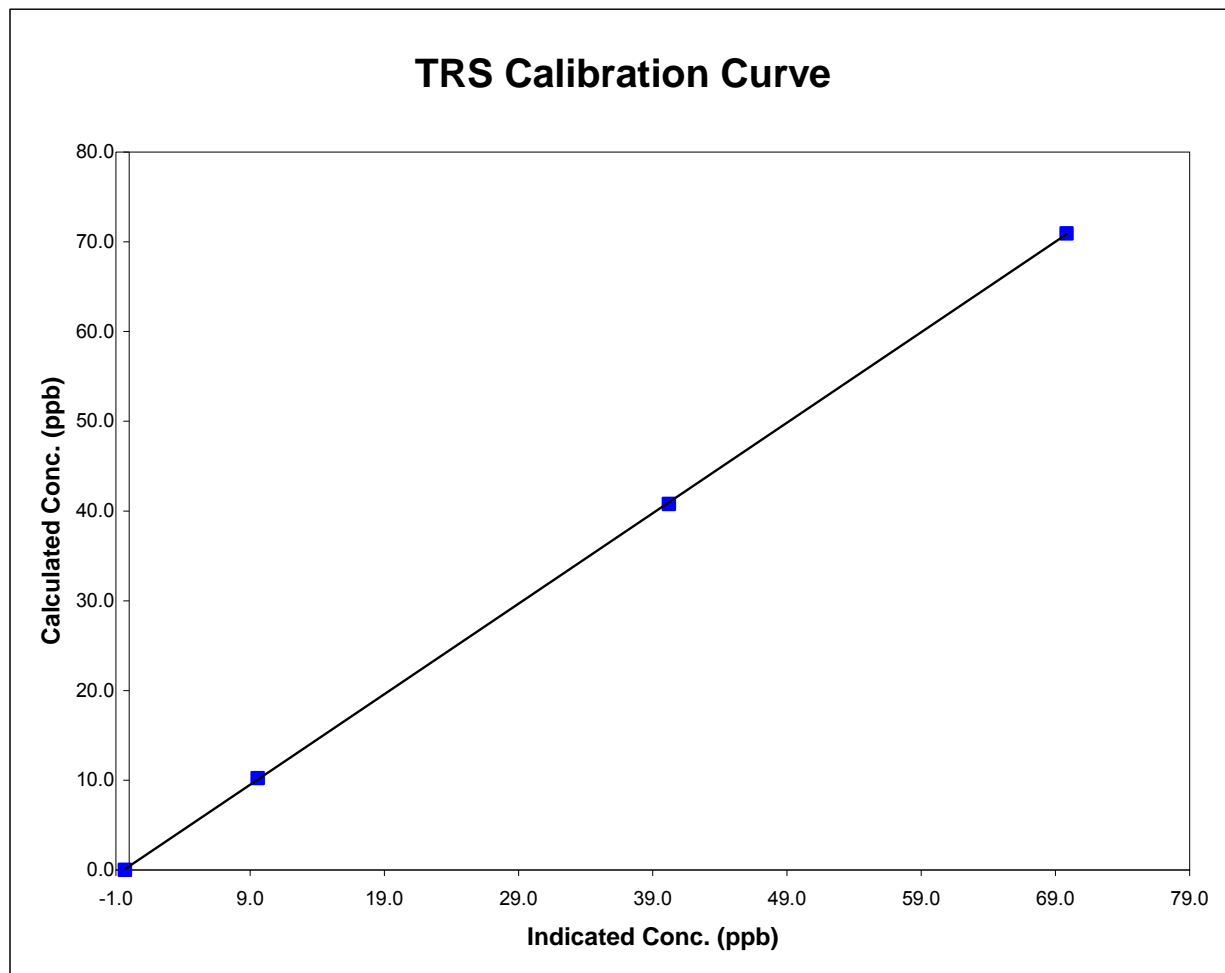
Parameter **TRS**Air Monitoring Network **PASZA**

Station Information

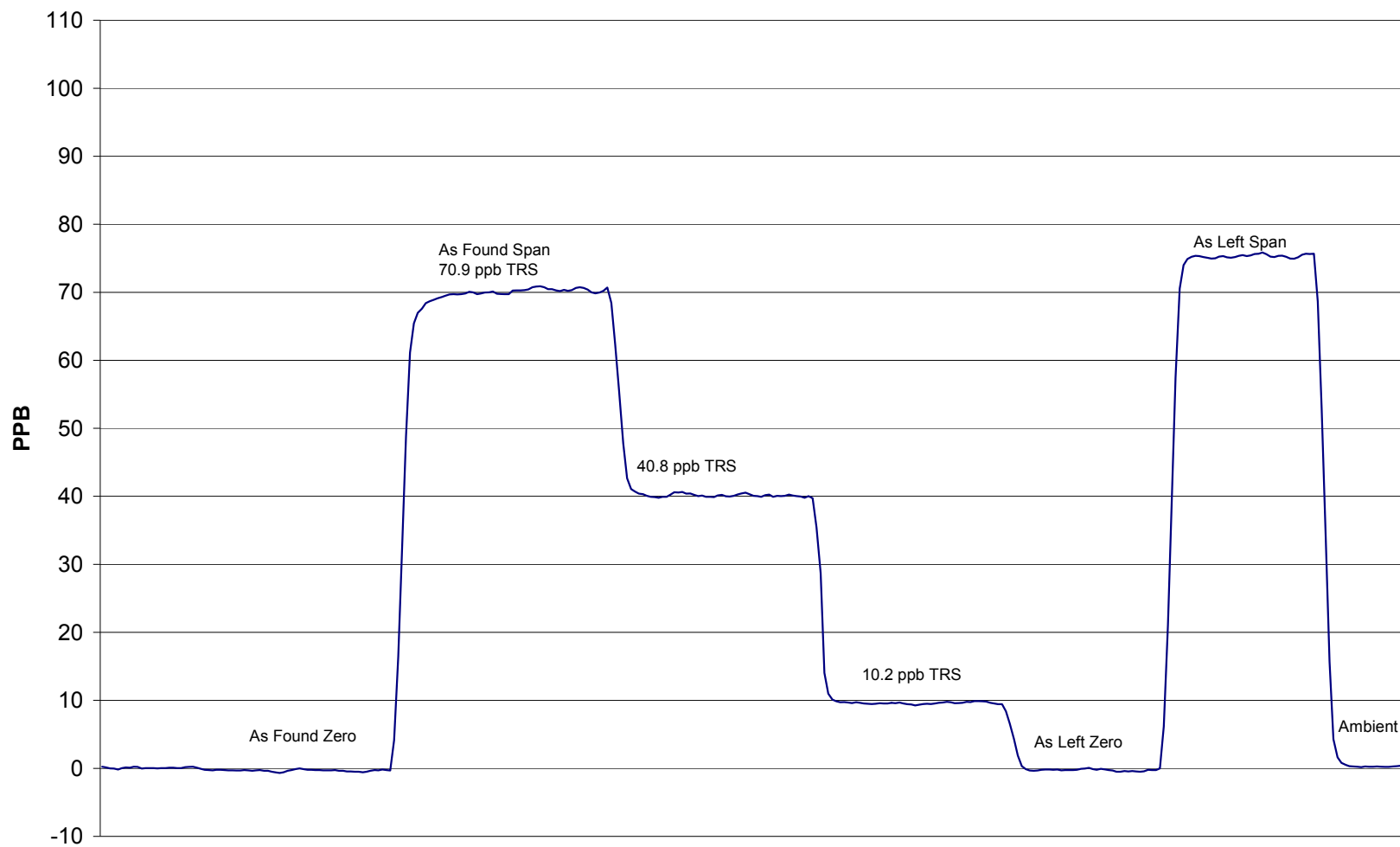
Calibration Date	August 29, 2007	Previous Calibration	July 25, 2006
Station Number	6	Station Location	Portable - Falher Rover
Start Time (MST)	9:00	End Time (MST)	12:30
Analyzer make/model	TEI 43C MOD	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	N/A		
70.9	69.8	1.0156	Correlation Coefficient	0.999976
40.8	40.2	1.0146		
10.2	9.6	1.0694	Slope	1.008925
			Intercept	0.396422



Portable - Falher - TRS Calibration



August 29, 2007

Calibration Report

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

Station Information

Calibration Date	August 28, 2007	Previous Calibration	July 25, 2007
Station Number	6	Station Location	Portable - Falher
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>
Start Time (MST)	9:00	End Time (MST)	12:00
Barometric Pressure	0.937 atm	Station Temperature	21.0 Deg C
Calibrator	Enviroics 6100	Serial Number	3474
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0-5	DACS channel #	7
	Before		After
Calculated slope	0.991835	Calculated slope	0.951964
Calculated intercept	6.255458	Calculated intercept	-6.727298
Analyzer make	TEI Model 49C	Analyzer serial #	609-716240

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Offset	0.2	ppb	0.2	ppb
Span	1.022		1.022	
Cell A	81360	Hz	81360	Hz
Cell B	80,638	Hz	80,638	Hz
Pressure	688	in Hg	688	in Hg
CellA Flow	667	ccm	667	ccm
Cell B Flow	669	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	0.2	N/A
4992	0.00	350.0	367.0	0.9536
4992	0.00	200.0	227.3	0.8798
4992	0.00	100.0	116.5	0.8581
4992	0.00	0.0	0.2	As found zero
4992	0.00	300.0	367.0	As found span
Average Correction Factor				0.8972

Calculated value of As Found Response: 370.1 ppm Percent Change of As Found: 23.4%

	before calibration		after calibration	
Auto zero	-1.6	ppb	-7.8	ppb
Auto span	47.1	ppb	288.3	ppb

Notes: _____

Calibration Performed By: Reid Balawyder, Conor Whiteley

Calibration Summary

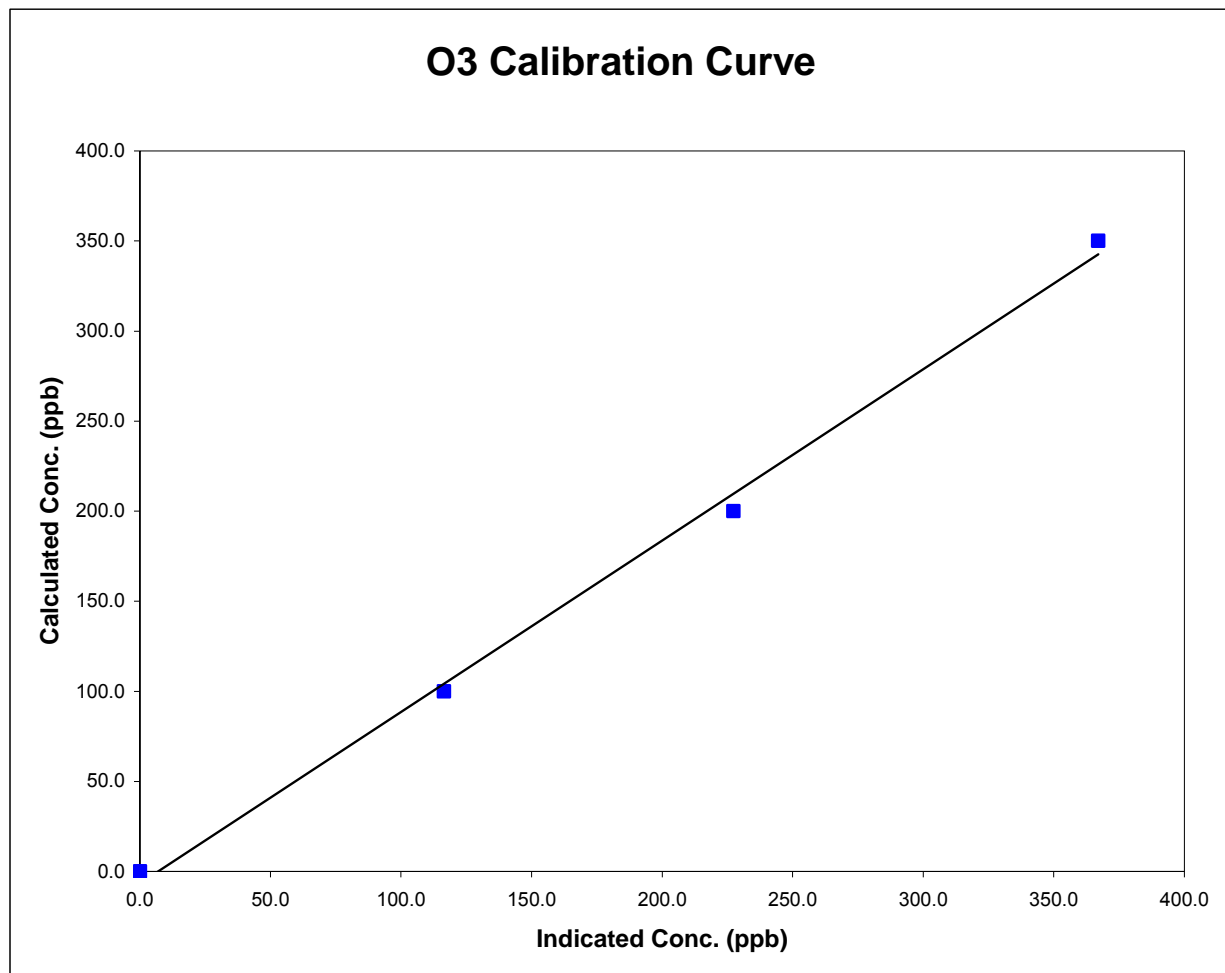
Parameter **O3**Air Monitoring Network **PASZA**

Station Information

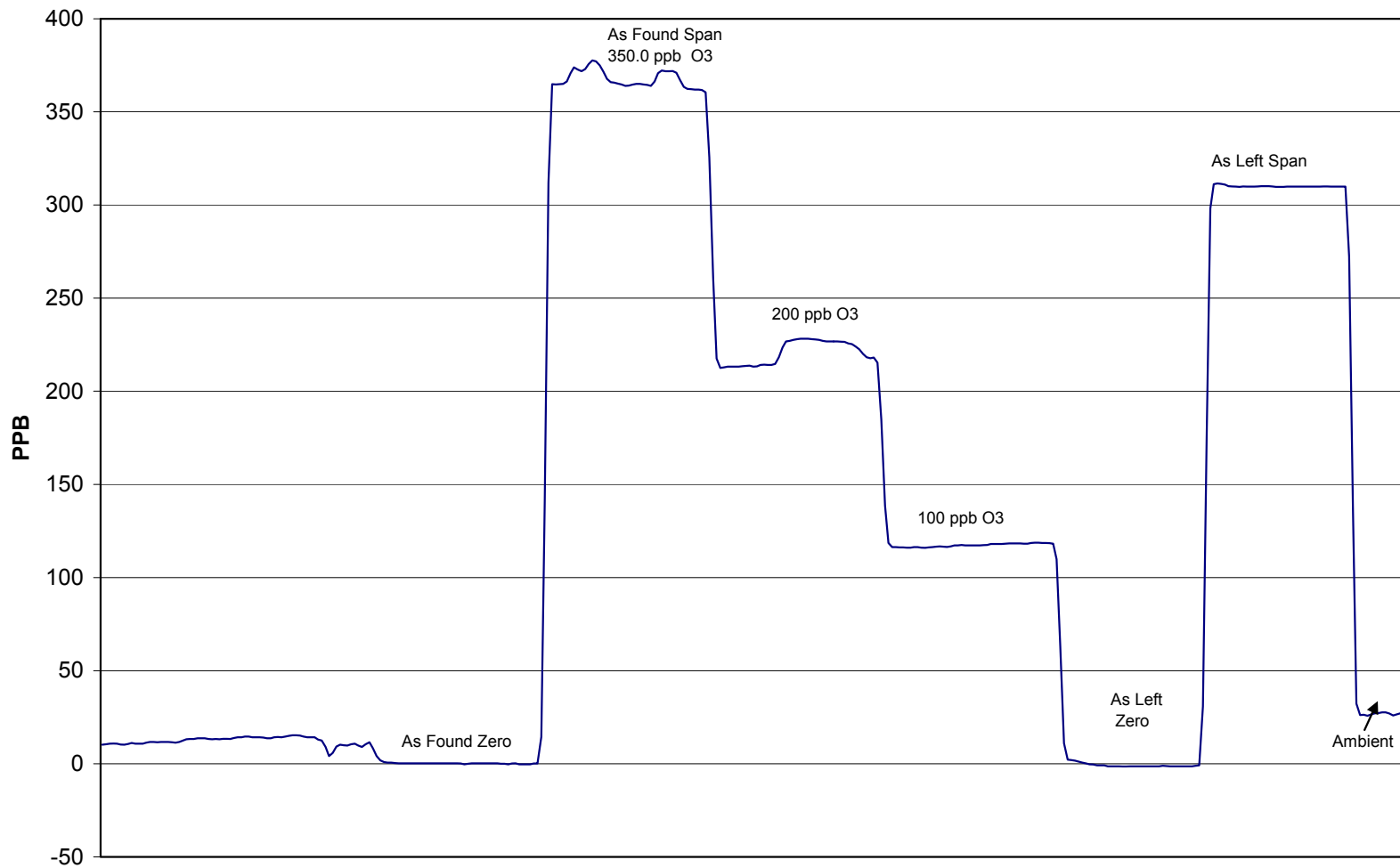
Calibration Date	August 28, 2007	Previous Calibration	July 25, 2007
Station Number	6	Station Location	Portable - Falher
Start Time (MST)	9:00	End Time (MST)	12:00
Analyzer make/model	TEI Model 49C	Analyzer serial #	609-716240

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	NA		
350.0	367.0	0.9536	Correlation Coefficient	0.996881
200.0	227.3	0.8798		
100.0	116.5	0.8581	Slope	0.951964
			Intercept	-6.727298



Portable - Falher - O3 Calibration



August 28, 2007

Calibration Report

Parameter

NOx-NO-NO₂

Air Monitoring Network

PASZA**Station Information**

Calibration Date	August 28, 2007	Previous Calibration	July 25, 2006
Station Number	6	Station Location	Portable - Falher
Reason:	Routine	Installation	Removal
Other:	_____		
Start Time (MST)	11:17	End Time (MST)	15:20
Barometric Pressure	0.930 Atm	Station Temperature	20.0 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	0.996721	1.000107	1.000921
	Data Offset	-1.394613	-3.692769	-3.317014
After	Data Slope	0.994826	1.016569	1.031642
	Data Offset	-2.946945	-0.577758	-0.453136
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	4.6	ppb	4.6	mV
NOx background	4.8	ppb	4.8	mV
NO coefficient	0.643		0.643	
NOx coefficient	1.013		0.996	
Chamber Temp	50.3	Deg C	50.0	Deg C
Cooler Temp	-2.9	Deg C	-3.1	Deg C
NO2 Converter Temp	324.2	Deg C	325.0	Deg C
Sample Flow	701.0	ccm	702.0	ccm
Ozonator Flow	0.087	LPM	0.087	LPM
Pressure	157.2	mm Hg	156.9	mm Hg

Notes: Due to operational error, during the time of data recording from point 343 to 503 data was being captured at half the correct voltage rate and subsequently data between those points was half of its true value, the data has been corrected (see NOX data M345 - S502) however, there are points that are midway between the error that could not be doubled, 343 and 503

Calibration Performed By: Conor Whiteley

Calibration Report

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



Station Information

Calibration Date: **August 28, 2007** Station Location: **Portable - Falher**

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	-0.5	1.1	N/A	N/A	
1	4992	79.95	770.8	770.8	0.0	758.5	746.9	13.2	1.0162	1.0320	
2	4992	39.93	388.0	388.0	0.0	382.9	377.7	7.0	1.0133	1.0275	
3	4992	19.91	194.3	194.3	0.0	191.6	189.3	3.8	1.0137	1.0262	
AFZ	4992	0.00	0.0	0.0	0.0	0.3	-0.5	1.1	0.0000	0.0000	
AFS	4992	80.00	771.3	771.3	0.0	758.5	746.9	13.2	1.0169	1.0326	
									Average Correction Factor	1.0144	1.0286

As Found Concentrations: NO_x= 754.5 NO= 744.1 As Found Percent Change NO_x= -2.2% NO= -3.5%

GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.94 ccm

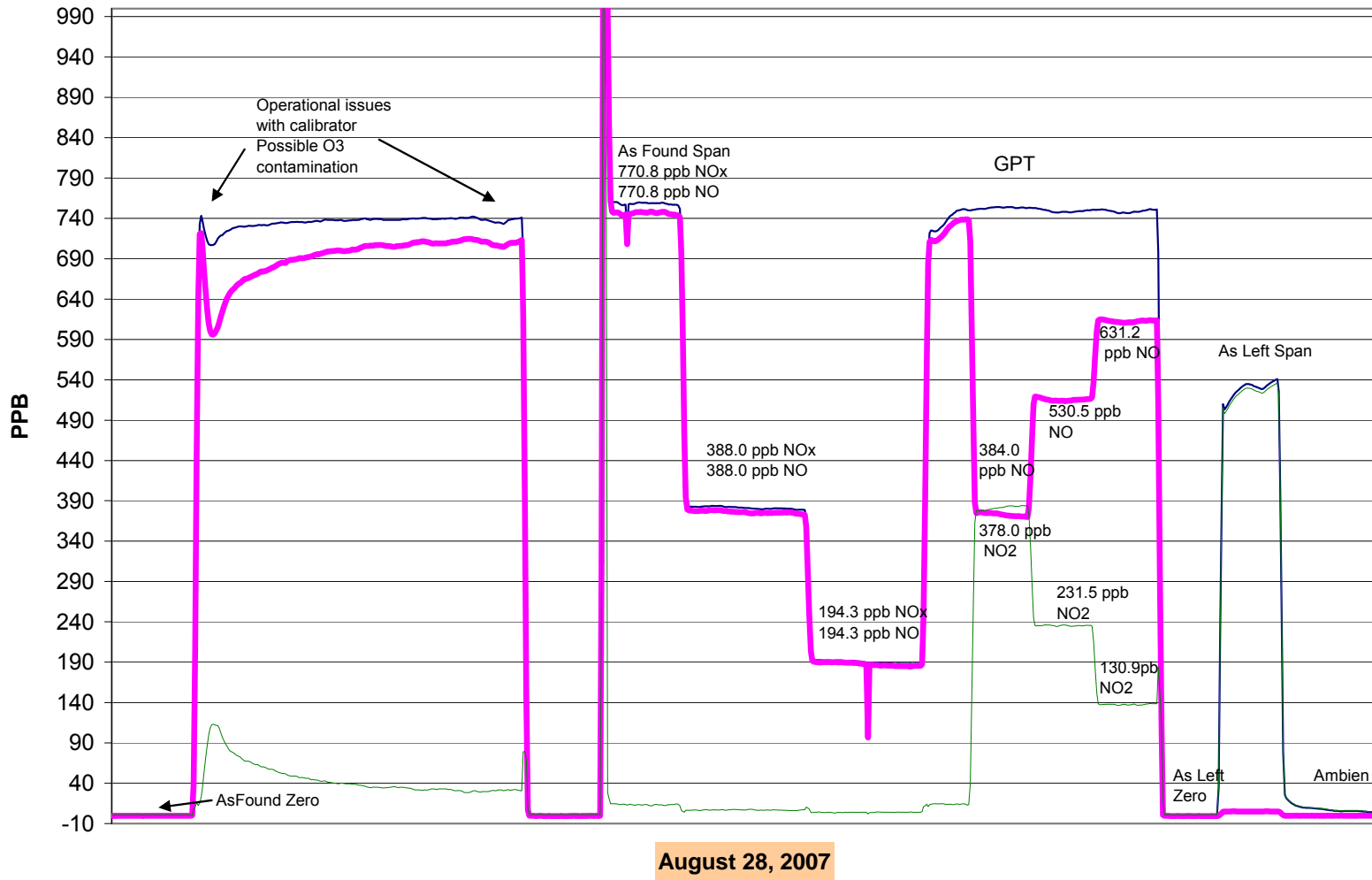
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency	
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	
NO point	762.0	749.0	13.0	738.6	726.5	14.2	1.0316	1.0310	N/A	N/A	
350	762.0	384.0	378.0	753.4	372.7	382.0	1.0114	1.0304	0.9896	101.0%	
200	762.0	530.5	231.5	748.5	514.7	235.4	1.0180	1.0308	0.9833	101.7%	
100	762.0	631.2	130.9	748.5	612.2	137.6	1.0180	1.0309	0.9509	105.2%	
							Average Correction Factor	1.0158	1.0307	0.9746	102.6%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	1.2	0.7	0.8	ppb	0.3	-0.2	2.7	ppb
Auto span	342.0	20.9	320.1	ppb	541.3	522.3	4.7	ppb

Calibration Performed By: Conor Whiteley

Portable - Falher - NOx Calibration



Calibration Summary

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

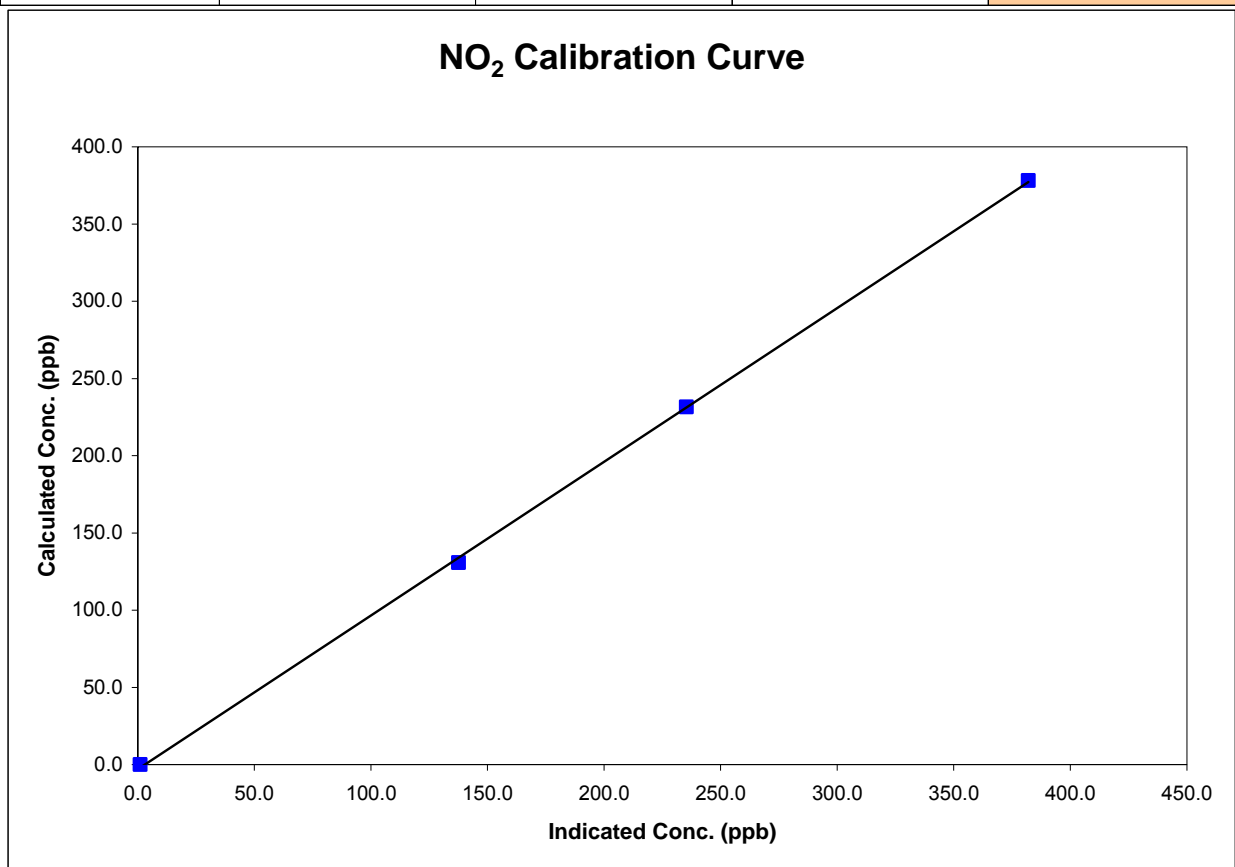


Station Information

Calibration Date	August 28, 2007	Previous Calibration	July 25, 2006
Station Number	6	Station Location	Portable - Falher
Start Time (MST)	11:17	End Time (MST)	15:20
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.1	0.0000	Correlation Coefficient	0.999815
378.0	382.0	0.9896		
231.5	235.4	0.9833		
130.9	137.6	0.9509		
			Slope	0.994826
			Intercept	-2.946945



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**

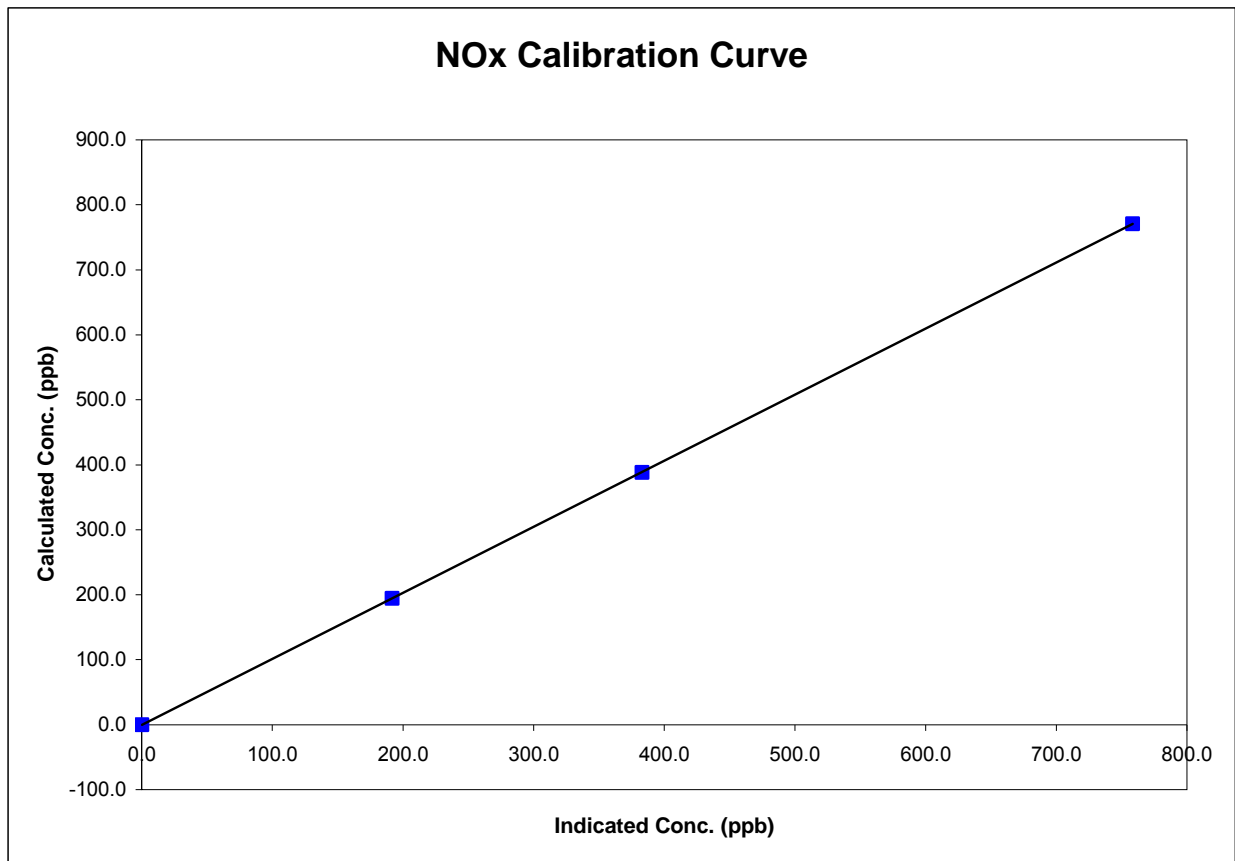


Station Information

Calibration Date	August 28, 2007	Previous Calibration	July 25, 2006
Station Number	6	Station Location	Portable - Falher
Start Time (MST)	11:17	End Time (MST)	15:20
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	0.0000	Correlation Coefficient	0.999998
770.8	758.5	1.0162		
388.0	382.9	1.0133		
194.3	191.6	1.0137		
			Slope	1.016569
			Intercept	-0.577758



Calibration Summary

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

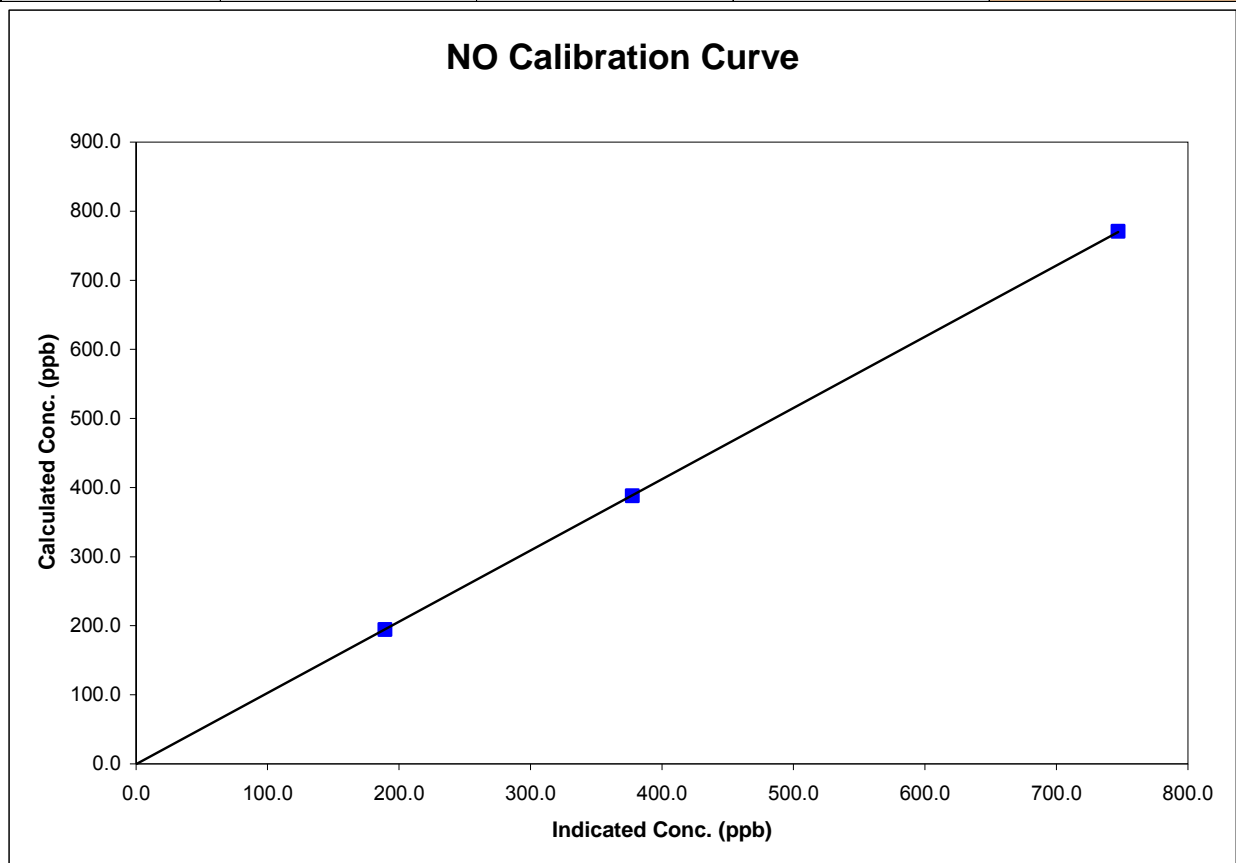


Station Information

Calibration Date	August 28, 2007	Previous Calibration	July 25, 2006
Station Number	6	Station Location	Portable - Falher
Start Time (MST)	11:17	End Time (MST)	15:20
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	-0.5	N/A		
770.8	746.9	1.0320	Correlation Coefficient	0.999991
388.0	377.7	1.0275		
194.3	189.3	1.0262	Slope	1.031642
			Intercept	-0.453136



Calibration Report

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

Station Information

Calibration Date	August 16, 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)	9:15	End Time (MST)	12:55
Barometric Pressure	27.81 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	1.002309	Calculated slope	0.993487
Calculated intercept	-2.952907	Calculated intercept	-3.158269
Analyzer make	TEI 43i	Analyzer serial #	43C-57351-313

	before		after	
Concentration range	0-1000	ppb	0 - 1000	ppb
Background	29.1		28.1	
Coefficient	0.778		0.797	
UV Lamp Voltage	691	LPM	691	LPM
Chamber Temp	44.4	V	44.1	V
Perm Gas Temp	30?	C	30.5(?)	C
Pressure	626.1	in Hg	630.5	in Hg
Sample Flow	0.468	LPM	0.469	LPM
Lamp Intesity	45370	Hz	44915	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	0.6	N/A
4993	39.93	399.1	403.2	0.9897
4993	19.96	200.3	206.8	0.9684
4992	9.99	100.5	106.5	0.9433
4992	0.00	0.0	0.6	As found zero
4992	39.94	399.2	455.4	As found span
Average Correction Factor				0.9671

Calculated value of As Found Response: 452.971 ppm Percent Change of As Found: -13.5%

	before calibration		after calibration	
Auto zero	-3.6	ppm	-2.5	ppm
Auto span	991.4	ppm	990.3	ppm

Notes: Adjusted SpanCalibration Performed By: Conor Whiteley

Calibration Summary

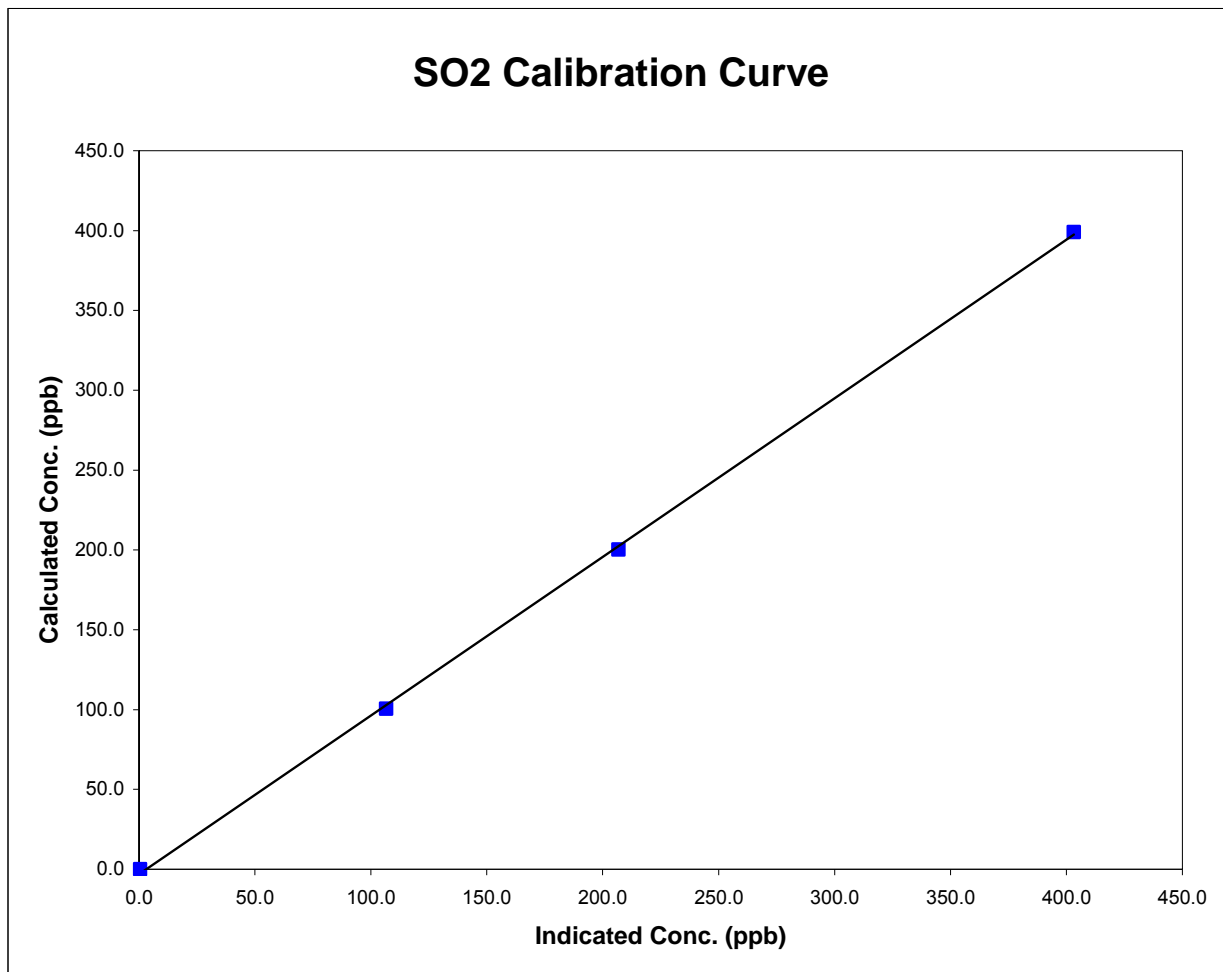
Parameter **SO2**Air Monitoring Network **PASZA**

Station Information

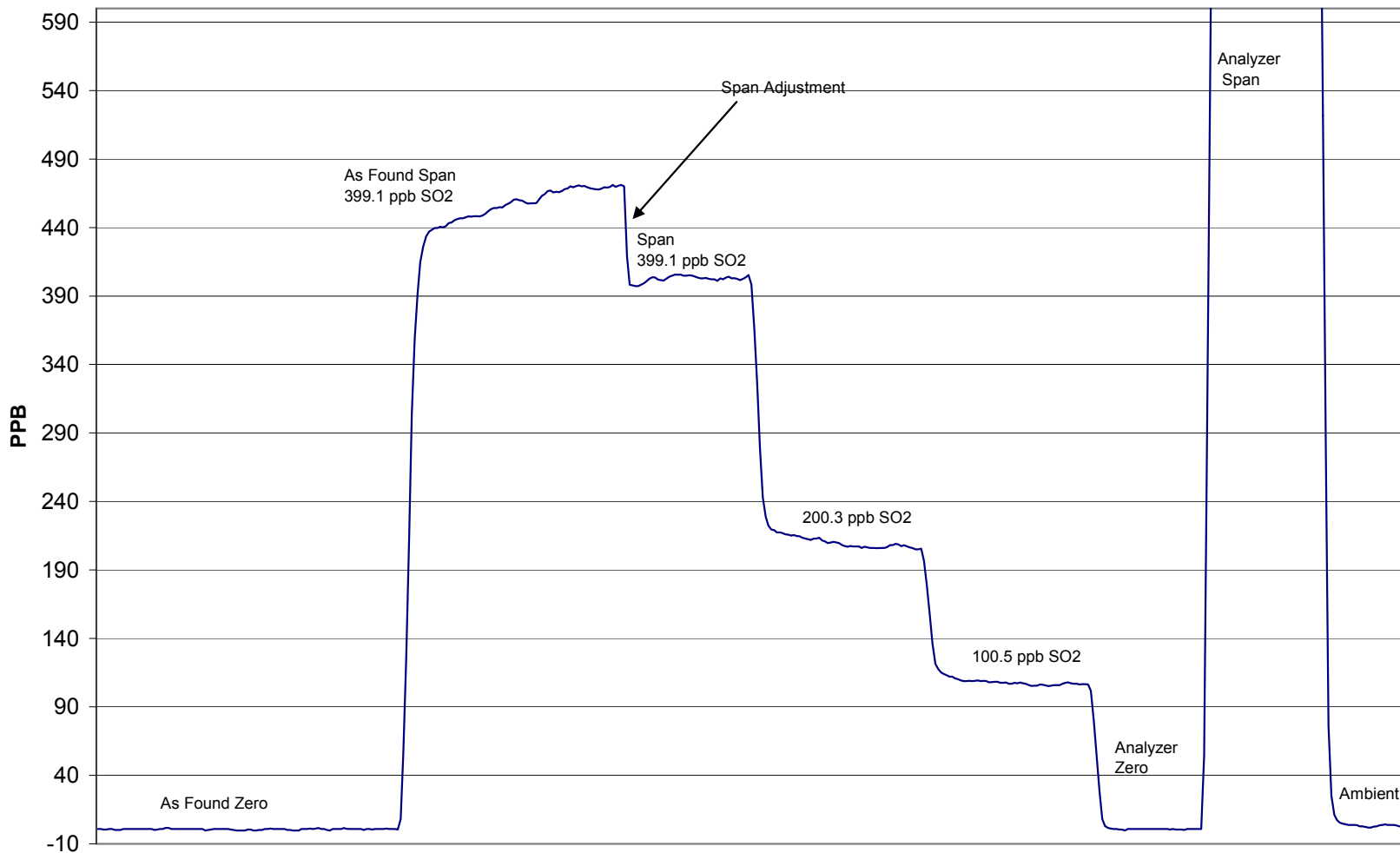
Calibration Date	August 16, 2007	Previous Calibration	July 26, 2007
Station Number	6	Station Location	Valleyview
Start Time (MST)	9:15	End Time (MST)	12:55
Analyzer make/model	TEI 43i	Analyzer serial #	43C-57351-313

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.6	N/A		
399.1	403.2	0.9897	Correlation Coefficient	0.999789
200.3	206.8	0.9684		
100.5	106.5	0.9433	Slope	0.993487
			Intercept	-3.158269



Valleyview - SO2 Calibration



August 16, 2007

Calibration Report

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

Station Information

Calibration Date	August 15, 2007	Previous Calibration	July 26, 2007
Station Number	5	Station Location	Valleyview
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:45	End Time (MST)	14:10:00 PM
Barometric Pressure	27.8 inches Hg	Station Temperature	23.0 Deg C
Calibrator	Enviroics 6100	Serial Number	3474
Cal Gas Concentration	5.1 ppm	Cal Gas Expiry Date	11/29/2006
Gas Cert Reference	BLM003489		
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.997227	Calculated slope	1.008197
Calculated intercept	0.236935	Calculated intercept	0.031722
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	811	v	805	v
Chamber Temp	45	c	45	c
Perm Oven Temp	45	c	45	c
Pressure	639	mm Hg	653	mm Hg
Sample Flow	428	ccm	436	ccm
Lamp Intensity	91.0	%	90.0	%

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	-0.2	N/A
4992	69.92	70.4	69.7	1.0108
4992	39.90	40.4	40.3	1.0031
4992	9.96	10.2	10.1	1.0033
4992	0.00	0.0	-0.2	As found zero
4992	69.88	70.4	69.7	As found span
Average Correction Factor				1.0057

Calculated value of As Found Response: 69.93 ppm Percent Change of As Found: 0.7%

	before calibration		after calibration	
Auto zero	0.1	ppm	0.0	ppm
Auto span	66.4	ppm	67.3	ppm

Notes: No adjustments made
ESC triggered Zero seemed to click out while I was checking diagnostics, won't use ESC again
Instead will only use internal analyzer zero and span.

Calibration Performed By: Conor Whiteley

Calibration Summary

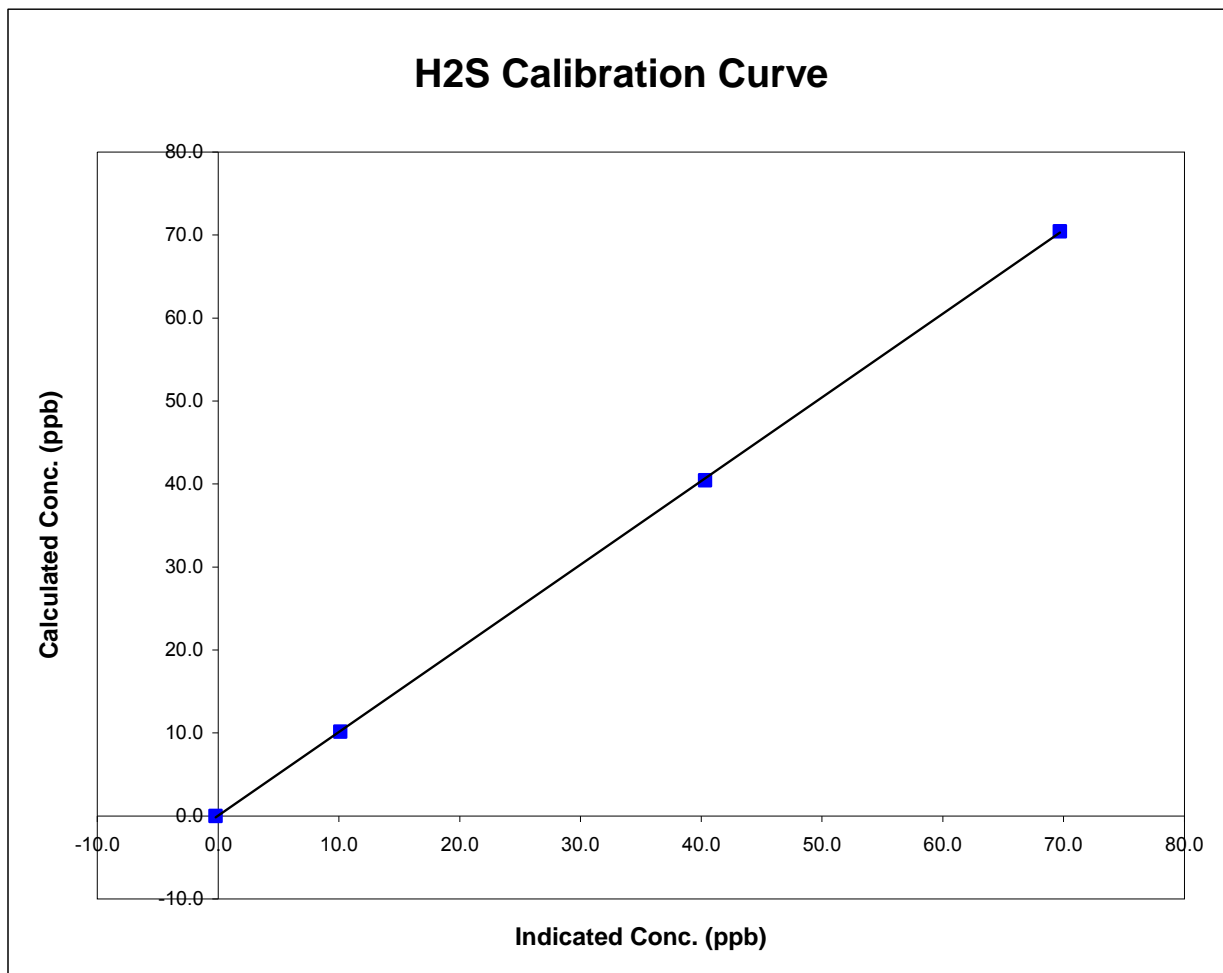
Parameter **H2S**Air Monitoring Network **PASZA**

Station Information

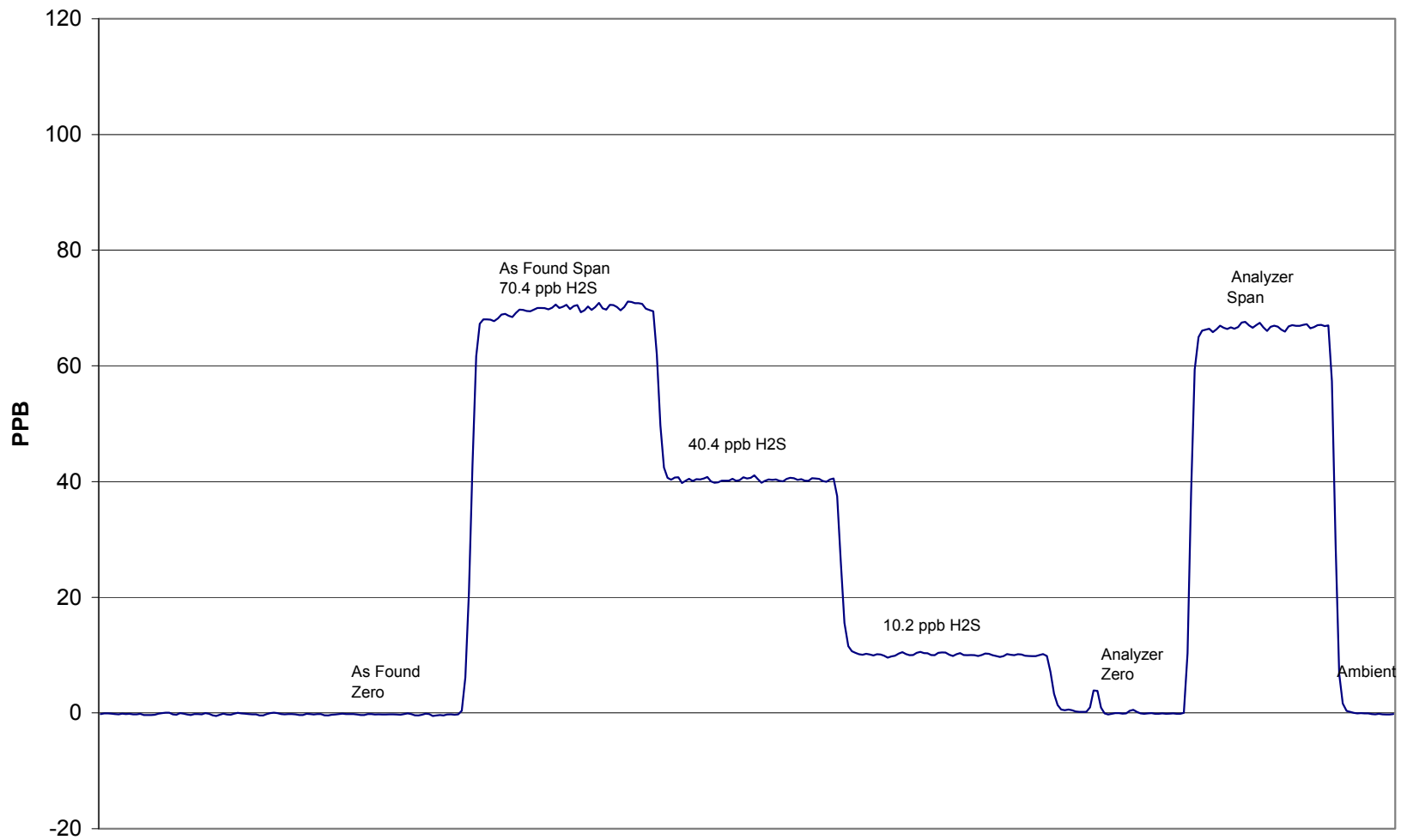
Calibration Date	August 15, 2007	Previous Calibration	July 26, 2007
Station Number	5	Station Location	Valleyview
Start Time (MST)	11:45	End Time (MST)	14:10:00 PM
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-25575-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	N/A		
70.4	69.7	1.0108	Correlation Coefficient	0.999963
40.4	40.3	1.0031		
10.2	10.1	1.0033	Slope	1.008197
			Intercept	0.031722



Valleyview - H2S Calibration



August 15, 2007