



# Air Quality Monitoring Network for June 2007

Prepared by  
**FOCUS**  
 AMBIENT AIR MONITORING

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

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Enclosed is the PASZA Ambient Monitoring Network Report for the month of **June 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 and Falher stations. However, the Valleyview station had one (1) hourly exceedance of the provincial objectives of H<sub>2</sub>S on June 21<sup>st</sup>.

During the month of June the following events were noted:

An Alberta Environment Audit of the network was conducted June 26<sup>th</sup> and 27<sup>th</sup>. For specific questions regarding the audit results contact Michael Bisaga, PASZA Program Manager.

**Henry Pirker Station:**

- ◆ There were two incidences of elevated readings of PM<sub>2.5</sub>: June 3<sup>rd</sup> at 02:00 - 96.9 µg/m<sup>3</sup> and June 4<sup>th</sup> at 23:00 – 81.9 µg/m<sup>3</sup>.
- ◆ The CO spans dropped on June 20<sup>th</sup> and 21<sup>st</sup> due to a drop in cylinder pressure.
- ◆ The THC spans dropped on the June 15<sup>th</sup> to the 18<sup>th</sup> due to span cylinder running out. Cylinder replaced on June 18<sup>th</sup>.
- ◆ One hour of maintenance (cleaning the manifold) was flagged on June 19<sup>th</sup> for the remainder of analyzers not flagged for calibration.
- ◆ The flame went out on the THC analyzer on June 29<sup>th</sup> resulting in thirty (30) hours of downtime.
- ◆ A power bump on June 27<sup>th</sup> resulted in one (1) hour of invalid data for all parameters.
- ◆ Alberta Environment audit was conducted at the station on June 27<sup>th</sup>.
- ◆ All analyzers / sensors at the Henry Pirker station were above 90% uptime.
- ◆ The AQI for the month resulted in 642 hours of Good readings, 28 hours of Fair readings and 2 hours of Poor readings (due to the above noted PM<sub>2.5</sub> readings).

**Evergreen Park Station:**

- ◆ Alberta Environment audit was conducted at the station on June 26<sup>th</sup>.
- ◆ A minor power bump on June 4<sup>th</sup> resulted in one (1) hour of invalid data for the TEOM.
- ◆ All analyzers / sensors at the Evergreen Park station were above 90% uptime.

**Smoky Heights Station:**

- ◆ A major power failure on June 21<sup>st</sup> resulted in: forty-eight (48) hours of invalid data for temperature, wind speed and wind direction sensors, forty-nine (49) hours of invalid data for the SO<sub>2</sub> and TRS analyzers, and fifty-one (51) hours of invalid data for the TEOM.
- ◆ Alberta Environment audit was conducted at the station on June 27<sup>th</sup>.
- ◆ All analyzers / sensors at the Smoky Heights station operated at 90% uptime.

**Beaverlodge Station:**

- ◆ On June 1<sup>st</sup> the NO<sub>x</sub> analyzer had eighteen (18) hours of invalid data due to a degraded O-ring. It was replaced on June 1<sup>st</sup>.
- ◆ A major power failure on June 11<sup>th</sup> resulted in twenty-eight (28) hours of invalid data for all parameters (SO<sub>2</sub>, NO<sub>x</sub>, NO<sub>2</sub>, NO, O<sub>3</sub>, PM<sub>2.5</sub>, relative humidity, temperature, wind speed and wind direction).
- ◆ Alberta Environment audit was conducted at the station on June 26<sup>th</sup>.
- ◆ All analyzers / sensors at the Beaverlodge station were above 90% uptime.
- ◆ The AQI for the month resulted in 603 hours of Good readings and 28 hours of Fair readings.

**Portable - Falher Station:**

- ◆ Alberta Environment audit was conducted at the station on June 26<sup>th</sup>
- ◆ On June 14<sup>th</sup> the wind speed and wind direction sensors had thirty (30) hours of downtime – reason is unknown. This ultrasonic wind sensor was subsequently replaced in July for factory repair.
- ◆ The other remaining analyzers / sensors at the Falher station operated at 100% uptime.

**Valleyview Station:**

- ◆ On June 17<sup>th</sup> (23:00-24:00) H<sub>2</sub>S indicated a maximum instantaneous reading of 34 ppb, wind direction was from the south with a wind speed of 2 km/hr.
  - ◆ On June 21<sup>st</sup> (20:00-21:00) there was an H<sub>2</sub>S exceedence of 12.2 ppb, wind direction was from the NNW with a wind speed of 5 km/hr – AE reference # 188357.
  - ◆ A power failure (lightening strike) on June 20<sup>th</sup> into June 21<sup>st</sup> resulted in ten (10) hours of invalid data for all parameters.
  - ◆ Continued problems with power resulted in an additional thirty-four (34) hours of invalid data for all parameters between June 22<sup>nd</sup> 07:00 to June 23<sup>rd</sup> 18:00.
  - ◆ Problems with the DACS and the PC (due to the above mentioned power failures) resulted in twenty-two (22) additional hours of downtime on June 21<sup>st</sup> – 22<sup>nd</sup> plus an additional eighteen (18) hours on June 29<sup>th</sup> – 30<sup>th</sup> flagged as invalid for the relative humidity and temperature sensors.
  - ◆ A power failure on June 30<sup>th</sup> resulted in thirteen (13) hours of invalid data for all parameters.
  - ◆ The relative humidity and temperature sensors had less than 90% uptime for the month of June – AE reference # 191330.
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**Passive Monitoring: 42 Stations throughout the PASZA zone:**

There were no outstanding issues from the field notes for the month of June. There were five duplicate sites sampled in the month of June; Boone Creek, Bay Tree, Silver Valley, Forth Creek and Grande Prairie HP. An SO<sub>2</sub> duplicate sample from Grande Prairie I was missing and consequently there was no result for that sample. 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 SO<sub>2</sub> passives ranged from 0.1 ppb to 0.5 ppb, with a mean of 0.3 ppb.
- Monthly average concentrations for NO<sub>2</sub> passives ranged from 0.1 ppb to 5.1 ppb, with a mean of 1.4 ppb.
- Monthly average concentrations for O<sub>3</sub> passives ranged from 25.4 ppb to 40.2 ppb, with a mean of 33.1 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..  
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## PASZA Monthly Continuous Data Summary

Jun-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 <sub>2</sub> (ppb)	172	57	Henry Pirker	0.1	0	0	3.6	Jun-27 09:00	9.3	SSE	0.6	Jun-27	99.9%
SO <sub>2</sub> (ppb)	172	57	Evergreen Park	0.3	0	0	7.8	Jun-07 15:00	21.2	W	1.1	Jun-07	100.0%
SO <sub>2</sub> (ppb)	172	57	Smoky Heights	0.3	0	0	7.0	Jun-18 00:00	12.3	WSW	1.1	Jun-12	93.2%
SO <sub>2</sub> (ppb)	172	57	Beaverlodge	0.2	0	0	2.5	Jun-01 08:00	5.1	NW	0.9	Jun-04	96.1%
SO <sub>2</sub> (ppb)	172	57	Portable-Falher	0.2	0	0	1.7	Jun-05 20:00	26.6	E	0.6	Jun-05	100.0%
SO <sub>2</sub> (ppm)	172	57	Valleyview	0.34	0	0	7.54	Jun-19 06:00	10.9	W	1.01	Jun-12	92.1%
NO (ppb)			Henry Pirker	1.5	-	-	23.4	Jun-01 06:00	6.5	SW	3.6	Jun-01	99.9%
NO <sub>2</sub> (ppb)	212	106	Henry Pirker	7.3	0	0	27.4	Jun-06 22:00	6.4	ESE	13.6	Jun-01	99.9%
NO <sub>x</sub> (ppb)			Henry Pirker	8.7	-	-	48.1	Jun-01 06:00	6.5	SW	17.2	Jun-01	99.9%
NO (ppb)			Beaverlodge	0.2	-	-	3.9	Jun-07 08:00	4.8	SSW	0.7	Jun-20	93.6%
NO <sub>2</sub> (ppb)	212	106	Beaverlodge	2.3	0	0	8.5	Jun-05 01:00	6.5	WSW	3.7	Jun-02	93.6%
NO <sub>x</sub> (ppb)			Beaverlodge	2.5	-	-	10.2	Jun-20 06:00	3.7	SW	3.8	Jun-02	93.6%
NO (ppb)			Portable-Falher	3.4	-	-	51.0	Jun-25 23:00	3.3	ENE	11.0	Jun-26	100.0%
NO <sub>2</sub> (ppb)	212	106	Portable-Falher	5.4	0	0	24.6	Jun-22 22:00	5.6	S	8.5	Jun-26	100.0%
NO <sub>x</sub> (ppb)			Portable-Falher	8.7	-	-	68.8	Jun-25 23:00	3.3	ENE	19.3	Jun-26	100.0%
O <sub>3</sub> (ppb)	82		Henry Pirker	30.3	0	-	67.1	Jun-04 17:00	18.0	ENE	46.0	Jun-04	99.7%
O <sub>3</sub> (ppb) - 8-hr		65	Henry Pirker			0					62.5	Jun-04	
O <sub>3</sub> (ppb)	82		Beaverlodge	30.5	0	-	61.5	Jun-04 15:00	20.6	ESE	46.0	Jun-04	96.1%
O <sub>3</sub> (ppb) - 8-hr		65	Beaverlodge			0					59.1	Jun-04	
O <sub>3</sub> (ppb)	82		Portable-Falher	25.1	0	-	52.7	Jun-01 13:00	9.8	NNE	36.8	Jun-04	100.0%
O <sub>3</sub> (ppb) - 8-hr		65	Portable-Falher			0					52.0	Jun-01	
CO (ppm)	13		Henry Pirker	0.20	0	-	0.5	Jun-15 13:00	11.5	NE	0.3	Jun-05	99.7%
CO (ppm) - 8-hr		5	Henry Pirker			0					0.4	Jun-06	
THC (ppm)			Henry Pirker	2.06	-	-	2.8	Jun-02 06:00	6.8	SSW	2.2	Jun-02	95.7%
TRS (ppb)			Henry Pirker	0.3	-	-	3.8	Jun-02 05:00	4.7	NNW	0.7	Jun-02	99.9%
TRS (ppb)			Evergreen Park	0.6	-	-	2.0	Jun-07 15:00	21.2	W	0.9	Jun-05	100.0%
TRS (ppb)			Smoky Heights	0.6	-	-	2.9	Jun-07 03:00	3.1	WSW	0.9	Jun-07	93.2%
TRS (ppb)			Portable-Falher	0.7	-	-	2.7	Jun-07 05:00	4.6	S	0.8	Jun-18	100.0%
H <sub>2</sub> S (ppb)	10	3	Valleyview	0.1	1	0	12.2	Jun-21 20:00	5.0	NNW	0.3	Jun-29	92.1%
PM <sub>2.5</sub> (µg/m <sup>3</sup> )		30 <sup>a</sup>	Henry Pirker	5.7	0	0	96.9	Jun-03 01:00	5.6	NE	18.4	Jun-04	98.9%
PM <sub>2.5</sub> (µg/m <sup>3</sup> )		30 <sup>a</sup>	Evergreen Park	5.7	0	0	63.9	Jun-01 00:00	2.7	SW	15.0	Jun-01	98.8%
PM <sub>2.5</sub> (µg/m <sup>3</sup> )		30 <sup>a</sup>	Smoky Heights	5.2	0	0	78.8	Jun-04 02:00	8.8	NNE	19.2	Jun-05	91.9%
PM <sub>2.5</sub> (µg/m <sup>3</sup> )		30 <sup>a</sup>	Beaverlodge	6.2	0	0	72.5	Jun-03 06:00	4.4	SSW	19.1	Jun-02	92.8%

## PASZA Monthly Continuous Data Summary - continued

Jun-2007		Peace Airshed Zone Association					Maximum Recorded Values						
							1-hr				24-hr / 8-hr		
RH (%)			Henry Pirker	60.0	-	-	-	-	-	-	-	-	99.9%
RH (%)			Beaverlodge	57.4	-	-	-	-	-	-	-	-	96.1%
RH (%)			Portable-Falher	62.3	-	-	-	-	-	-	-	-	100.0%
RH (%)			Valleyview	65.8	-	-	-	-	-	-	-	-	86.5%
SR (W/m <sup>2</sup> )			Henry Pirker	139.3	-	-	-	-	-	-	-	-	99.9%
Temp (°C)			Henry Pirker	15.7	-	-	-	-	-	-	-	-	99.9%
Temp (°C)			Evergreen Park	15.0	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Smoky Heights	15.1	-	-	-	-	-	-	-	-	93.3%
Temp (°C)			Beaverlodge	15.2	-	-	-	-	-	-	-	-	96.1%
Temp (°C)			Portable-Falher	15.5	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Valleyview	15.3	-	-	-	-	-	-	-	-	86.5%
WSPD v (km/hr)			Henry Pirker	11.2	-	-	42.3	Jun-30 13:00	42.3	WSW	24.1	Jun-30	99.9%
WSPD v (km/hr)			Evergreen Park	7.4	-	-	32.2	Jun-30 13:00	32.2	W	17.8	Jun-30	100.0%
WSPD v (km/hr)			Smoky Heights	10.5	-	-	38.4	Jun-30 17:00	38.4	WSW	26.5	Jun-30	93.3%
WSPD v (km/hr)			Beaverlodge	8.9	-	-	40.0	Jun-30 15:00	40.0	W	22.6	Jun-30	96.1%
WSPD v (km/hr)			Portable-Falher	11.7	-	-	32.8	Jun-04 17:00	32.8	ESE	24.6	Jun-04	95.8%
WSPD v (km/hr)			Valleyview	5.6	-	-	20.2	Jun-23 17:00	20.2	NW	8.9	Jun-08	92.1%
WSPD s (km/hr)			Henry Pirker	12.2	-	-	42.5	Jun-30 13:00	42.5	WSW	24.6	Jun-30	99.9%
WSPD s (km/hr)			Evergreen Park	8.2	-	-	32.6	Jun-30 13:00	32.6	W	18.1	Jun-30	100.0%
WSPD s (km/hr)			Smoky Heights	11.2	-	-	38.5	Jun-30 17:00	38.5	WSW	26.9	Jun-30	93.3%
WSPD s (km/hr)			Beaverlodge	9.5	-	-	40.1	Jun-30 15:00	40.1	W	22.9	Jun-30	96.1%
WSPD s (km/hr)			Portable-Falher	12.3	-	-	33.1	Jun-04 17:00	33.1	ESE	24.8	Jun-04	95.8%
WSPD s (km/hr)			Valleyview	6.1	-	-	21.6	Jun-23 17:00	21.6	NW	9.7	Jun-08	92.1%
WDIR			Henry Pirker	WSW	-	-	-	-	-	-	-	-	99.9%
WDIR			Evergreen Park	W	-	-	-	-	-	-	-	-	100.0%
WDIR			Smoky Heights	WNW	-	-	-	-	-	-	-	-	93.3%
WDIR			Beaverlodge	W	-	-	-	-	-	-	-	-	96.1%
WDIR			Portable-Falher	ESE	-	-	-	-	-	-	-	-	95.8%
WDIR			Valleyview	NW	-	-	-	-	-	-	-	-	92.1%

Note: <sup>a</sup> the draft 24-hr Alberta Ambient Air Quality Objective

# Continuous Network Equipment Summary

## PASZA – Henry Pirker Station

### General Station Issues

Routine calibrations were performed on: June 7<sup>th</sup> (CO), June 11<sup>th</sup> (NO<sub>x</sub>), June 12<sup>th</sup> (NO<sub>x</sub> and O<sub>3</sub>) and on June 19<sup>th</sup> (THC, TRS, O<sub>3</sub>, SO<sub>2</sub> and TEOM). On June 19<sup>th</sup> maintenance activity (cleaned manifold) resulted in one (1) hour of invalid data for all CO, NO<sub>x</sub> and O<sub>3</sub> analyzers. On June 27<sup>th</sup> a power bump resulted in one (1) hour of invalid data for all parameters. An Alberta Environment audit was conducted at the station on June 27<sup>th</sup>.

Parameter	Make	Model	Notes
SO <sub>2</sub>	TECO	43	Power bump on June 27 <sup>th</sup> resulted in one (1) hour of invalid data.
NO <sub>x</sub> /NO/NO <sub>2</sub>	TECO	42C	Two calibrations were performed due to pump rebuild. Power bump on June 27 <sup>th</sup> resulted in one (1) hour of invalid data.
O <sub>3</sub>	API	400	Power bump on June 27 <sup>th</sup> resulted in one (1) hour of invalid data.
CO	TECO	48C	Regulator pressure caused the spans to drop on June 20 <sup>th</sup> and 21 <sup>st</sup> - pressure was increased. Power bump on June 27 <sup>th</sup> resulted in one (1) hour of invalid data.
THC	TEI	51-CLT	THC spans dropped from June 15 <sup>th</sup> to the 18 <sup>th</sup> – span cylinder ran out. Flame went out on June 29 <sup>th</sup> resulting in thirty (30) hours of invalid data. Power bump on June 27 <sup>th</sup> resulted in one (1) hour of invalid data.
TRS	TEI	42C	Power bump on June 27 <sup>th</sup> resulted in one (1) hour of invalid data.
PM <sub>2.5</sub>	R&P	1400AB	Six (6) hours were removed due to excessive baseline drift. Two power bumps (June 27 <sup>th</sup> and 29 <sup>th</sup> ) resulted in two (2) hours of invalid data.
RH	Met One	083D	Power bump on June 27 <sup>th</sup> resulted in one (1) hour of invalid data.
AT	Met One	083D	Power bump on June 27 <sup>th</sup> resulted in one (1) hour of invalid data.
SR	Met One	096-1	Power bump on June 27 <sup>th</sup> resulted in one (1) hour of invalid data.
WS	Met One	010C	Power bump on June 27 <sup>th</sup> resulted in one (1) hour of invalid data.
WD	Met One	020C	Power bump on June 27 <sup>th</sup> resulted in one (1) hour of invalid data.

## PASZA – Evergreen Park Station

### General Station Issues

Calibrations were performed on June 21<sup>st</sup> (SO<sub>2</sub>, TRS). An Alberta Environment audit was conducted at the station on June 26<sup>th</sup>.

Parameter	Make	Model	Notes
SO <sub>2</sub>	API	100	No operational issues observed.
TRS	TEI	42C	No operational issues observed.
PM <sub>2.5</sub>	R&P	1400AB	Seven (7) hours were removed due to excessive baseline drift. One power bump (June 4 <sup>th</sup> ) resulted in one (1) hour of invalid data.
AT	Met One	083D	No operational issues observed.
WS	Met One	010C	No operational issues observed.
WD	Met One	020C	No operational issues observed.



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**PASZA – Smoky Heights Station**


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**General Station Issues**

Calibrations were performed on June 23<sup>rd</sup> (SO<sub>2</sub>, TRS and TEOM). An Alberta Environment audit was conducted at the station on June 27<sup>th</sup>.

Parameter	Make	Model	Notes
SO <sub>2</sub>	API	100A	A power failure on June 21 <sup>st</sup> resulted in forty-nine (49) hours of invalid data.
TRS	TEI	42C	A power failure on June 21 <sup>st</sup> resulted in forty-nine (49) hours of invalid data.
PM <sub>2.5</sub>	R&P	1400AB	A power failure on June 21 <sup>st</sup> resulted in fifty-one (51) hours of invalid data for the TEOM. Five (5) hours were removed due to excessive baseline drift. Two power bumps (June 5 <sup>th</sup> and June 14 <sup>th</sup> ) resulted in another two (2) hour of invalid data.
AT	Met One	083D	A power failure on June 21 <sup>st</sup> resulted in: forty-eight (48) hours of invalid data.
WS	Met One	010C	A power failure on June 21 <sup>st</sup> resulted in: forty-eight (48) hours of invalid data.
WD	Met One	020C	A power failure on June 21 <sup>st</sup> resulted in: forty-eight (48) hours of invalid data.

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**PASZA – Beaverlodge Station**


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**General Station Issues**

Calibrations were performed on June 4<sup>th</sup> (NO<sub>x</sub>), June 5<sup>th</sup> (SO<sub>2</sub>, O<sub>3</sub> and TEOM) and June 28<sup>th</sup> (a second SO<sub>2</sub> calibration). An Alberta Environment audit was conducted at the station on June 26<sup>th</sup>.

Parameter	Make	Model	Notes
SO <sub>2</sub>	TECO	43CTL	A power failure on June 11 <sup>th</sup> resulted in twenty-eight (28) hours of invalid data.
NO <sub>x</sub> /NO/NO <sub>2</sub>	TECO	42C	On June 31 <sup>st</sup> the NO <sub>x</sub> analyzer had eighteen (18) hours of invalid data due a degraded O-ring. It was replaced on July 1 <sup>st</sup> . A power failure on June 11 <sup>th</sup> resulted in twenty-eight (28) hours of invalid data.
O <sub>3</sub>	API	400	A power failure on June 11 <sup>th</sup> resulted in twenty-eight (28) hours of invalid data.
PM <sub>2.5</sub>	R&P	1400AB	Twenty-one (21) hours were removed due to excessive baseline drift. A power failure on June 11 <sup>th</sup> resulted in twenty-eight (28) hours of invalid data. Two power bumps (June 5 <sup>th</sup> and June 12 <sup>th</sup> ) resulted in another two (2) hour of invalid data.
AT	n/a	n/a	A power failure on June 11 <sup>th</sup> resulted in twenty-eight (28) hours of invalid data.
RH	n/a	n/a	A power failure on June 11 <sup>th</sup> resulted in twenty-eight (28) hours of invalid data.
WS	Blue Sky	857	A power failure on June 11 <sup>th</sup> resulted in twenty-eight (28) hours of invalid data..
WD	Blue Sky	857	A power failure on June 11 <sup>th</sup> resulted in twenty-eight (28) hours of invalid data.

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**PASZA – Falher (Portable) Station**

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**General Station Issues**

Calibrations were performed on June 18<sup>th</sup> (SO<sub>2</sub>, TRS, O<sub>3</sub> and NO<sub>x</sub>). An Alberta Environment audit was conducted at the station on June 26<sup>th</sup>.

Parameter	Make	Model	Notes
SO <sub>2</sub>	TEI	43C	No operational problems observed.
NOx/NO/NO <sub>2</sub>	TECO	43C	No operational problems observed.
TRS	TEI	43C	No operational problems observed.
O <sub>3</sub>	TEI	49C	No operational problems observed.
AT	Gill Met Pak 3		No operational problems observed.
RH	Gill Met Pak 3		No operational problems observed.
WS	Gill Met Pak 3		On June 14 <sup>th</sup> the wind speed and wind direction sensors had thirty (30) hours of downtime – reason is unknown.
WD	Gill Met Pak 3		On June 14 <sup>th</sup> the wind speed and wind direction sensors had thirty (30) hours of downtime – reason is unknown.

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**PASZA – Valleyview Station**

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**General Station Issues**

Calibrations were performed on June 20<sup>th</sup> for SO<sub>2</sub> and H<sub>2</sub>S. An Alberta Environment audit was conducted at the station on June 26<sup>th</sup>.

Parameter	Make	Model	Notes
SO <sub>2</sub>	ML	332	A total of fifty-seven (57) hours of invalid data throughout month of June due to power failures and DACS / computer issues).
H <sub>2</sub> S	TEI	43C	A total of fifty-seven (57) hours of invalid data throughout month of June due to power failures and DACS / computer issues. On June 21 <sup>st</sup> (20:00-21:00 hour) there was an H <sub>2</sub> S exceedence of 12 ppb – AE reference # 188357.
AT	Gill Met Pak 3		A total of ninety-seven (97) hours of invalid data throughout month of June due to power failures and DACS / computer issues) – AE reference # 191330.
RH	Gill Met Pak 3		A total of ninety-seven (97) hours of invalid data throughout month of June due to power failures and DACS / computer issues) – AE reference # 191330.
WS	Gill Met Pak 3		A total of fifty-seven (57) hours of invalid data throughout month of June due to power failures and DACS / computer issues).
WD	Gill Met Pak 3		A total of fifty-seven (57) hours of invalid data throughout month of June due to power failures and DACS / computer issues).

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# 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: June 1, 2007 to July 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:	642
Number of 1-hr Fair Readings:	28
Number of 1-hr Poor Readings:	2
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-Jun-07	13	10	12	7	10	9	12	14	15	13	23	30	30	29	N	27	25	24	24	23	21	18	12	15
2-Jun-07	23	16	14	15	13	14	19	17	17	16	24	25	27	N	28	28	27	27	24	22	22	21	21	21
3-Jun-07	20	58	20	10	11	14	16	20	23	25	26	25	N	25	25	26	27	27	26	25	21	21	21	20
4-Jun-07	19	18	18	17	24	16	16	18	20	23	28	N	32	34	34	35	38	39	35	28	22	23	51	15
5-Jun-07	14	14	15	14	12	11	11	11	11	9	N	15	15	15	15	16	15	15	17	22	24	27	37	
6-Jun-07	39	17	15	N	17	17	16	15	14	N	19	21	21	22	23	23	23	23	24	23	19	12	14	16
7-Jun-07	19	13	12	9	8	11	10	13	N	12	18	21	22	21	19	18	15	15	13	13	12	12	14	14
8-Jun-07	13	12	12	12	13	N	11	12	14	16	18	19	19	19	20	20	20	20	20	19	17	16	20	18
9-Jun-07	17	17	13	13	N	11	13	14	16	18	19	21	21	22	21	21	21	20	18	18	19	17	21	21
10-Jun-07	20	19	19	N	17	15	13	13	12	15	18	N	20	18	N	22	22	22	20	19	17	17	15	18
11-Jun-07	18	16	N	13	12	10	11	N	15	17	18	19	20	21	21	21	21	21	19	17	14	16	16	15
12-Jun-07	15	15	15	14	14	N	12	13	12	13	14	14	N	3	1	13	13	12	12	12	13	13	11	11
13-Jun-07	11	9	10	9	9	N	7	8	11	13	15	16	16	16	17	15	15	15	15	14	13	10	11	10
14-Jun-07	10	10	9	9	N	5	6	7	8	11	14	16	17	17	17	17	18	18	18	17	17	15	13	10
15-Jun-07	8	7	7	N	6	7	9	8	11	15	17	18	18	17	18	18	18	17	14	15	14	13	10	9
16-Jun-07	8	7	N	9	10	8	10	11	11	12	13	15	15	14	15	15	15	15	15	15	13	12	8	5
17-Jun-07	5	N	5	6	6	5	6	7	8	12	15	17	17	N	18	19	19	18	16	16	16	27	10	6
18-Jun-07	N	9	7	6	7	7	7	10	13	14	17	18	17	17	14	N	14	14	15	15	14	12	12	N
19-Jun-07	10	10	10	10	9	7	8	7	12	13	N	N	N	N	17	17	15	16	18	14	15	13	12	13
20-Jun-07	13	12	11	10	8	N	8	6	8	8	11	13	15	17	17	17	18	18	17	16	15	13	13	11
21-Jun-07	11	11	11	10	N	9	10	9	11	14	15	16	19	20	20	20	20	20	20	19	17	15	15	11
22-Jun-07	13	10	9	6	5	N	7	9	13	16	17	21	23	20	19	23	24	24	24	24	22	19	19	18
23-Jun-07	16	15	14	12	N	13	13	15	17	18	17	17	17	17	17	17	17	17	16	15	14	13	13	
24-Jun-07	12	12	9	N	8	9	12	13	15	16	16	18	19	19	20	18	14	17	16	16	14	9	8	8
25-Jun-07	8	6	N	8	9	6	6	8	10	11	14	16	17	18	18	17	17	16	16	15	13	14	13	12
26-Jun-07	11	N	9	8	8	7	9	12	13	16	17	18	18	18	19	19	19	20	20	19	17	15	15	15
27-Jun-07	N	16	15	14	12	11	12	N	N	N	N	N	N	22	24	24	24	21	20	20	20	21	19	17
28-Jun-07	19	18	17	14	13	N	13	16	16	16	16	18	19	20	20	20	20	20	13	13	19	16	15	13
29-Jun-07	17	14	11	10	N	6	7	10	14	17	20	20	21	21	21	21	16	17	N	18	18	17	17	17
30-Jun-07	17	15	15	N	13	11	9	10	11	12	13	13	14	14	13	14	14	13	13	14	14	12	12	13

## PASZA - Henry Pirker - Sulphur Dioxide Monthly Summary

Station: Henry Pirker  
Station Owner: PASZA

### HOURLY AVERAGE TABLE

Sulphur Dioxide (SO<sub>2</sub>)

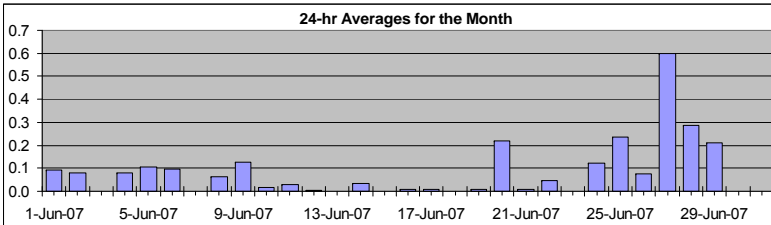
Monitoring Dates: June 1, 2007 to July 1, 2007

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

#### Summary

Number of 1-hr Exceedances:	0					
Number of 24-hr Exceedances:	0					
Maximum 1-hr Average:	3.6	ppb	27-Jun	9:00	10:00	
Maximum 24-hr Average:	0.6	ppb	27-Jun			

AIC Time:	31 hrs	Operational Time:	682 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.1	0.5	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	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
1-Jun-07	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.5
2-Jun-07	1:00	2:00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0.1	1.1
3-Jun-07	2:00	3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.0	0.0	
4-Jun-07	3:00	4:00	0	0	0	0	0	0	0	0	0	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0	0.1	0.9
5-Jun-07	4:00	5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0.1	0.7
6-Jun-07	5:00	6:00	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.1
7-Jun-07	6:00	7:00	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
8-Jun-07	7:00	8:00	0	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6
9-Jun-07	8:00	9:00	0	0	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
10-Jun-07	9:00	10:00	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
11-Jun-07	10:00	11:00	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	0.4
12-Jun-07	11:00	12:00	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
13-Jun-07	12:00	13:00	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
14-Jun-07	13:00	14:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4
15-Jun-07	14:00	15:00	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
16-Jun-07	15:00	16:00	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
17-Jun-07	16:00	17:00	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
18-Jun-07	17:00	18:00	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	0.0
19-Jun-07	18:00	19:00	0	0	0	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0.0	0.1
20-Jun-07	19:00	20:00	0	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.4
21-Jun-07	20:00	21:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
22-Jun-07	21:00	22:00	0	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	0.5
23-Jun-07	22:00	23:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
24-Jun-07	23:00	0:00	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.1	1.3
25-Jun-07	0:00	1:00	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0.2	1.9
26-Jun-07	1:00	2:00	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	0.1
27-Jun-07	2:00	3:00	A	0	0	0	1	1	1	P	2	4	C	C	C	0	0	0	0	1	1	0	0	0	0	0	0.6	3.6
28-Jun-07	3:00	4:00	0	0	0	0	0	A	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.3	0.9
29-Jun-07	4:00	5:00	0	1	1	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.2
30-Jun-07	5:00	6:00	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
Hourly Avg	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0		
Hourly Max	0.6	1.2	1.0	0.9	0.5	0.9	0.6	1.3	2.0	3.6	1.1	0.9	0.7	0.5	0.5	0.7	0.5	0.6	0.9	1.1	1.9	0.4	0.6	0.7				

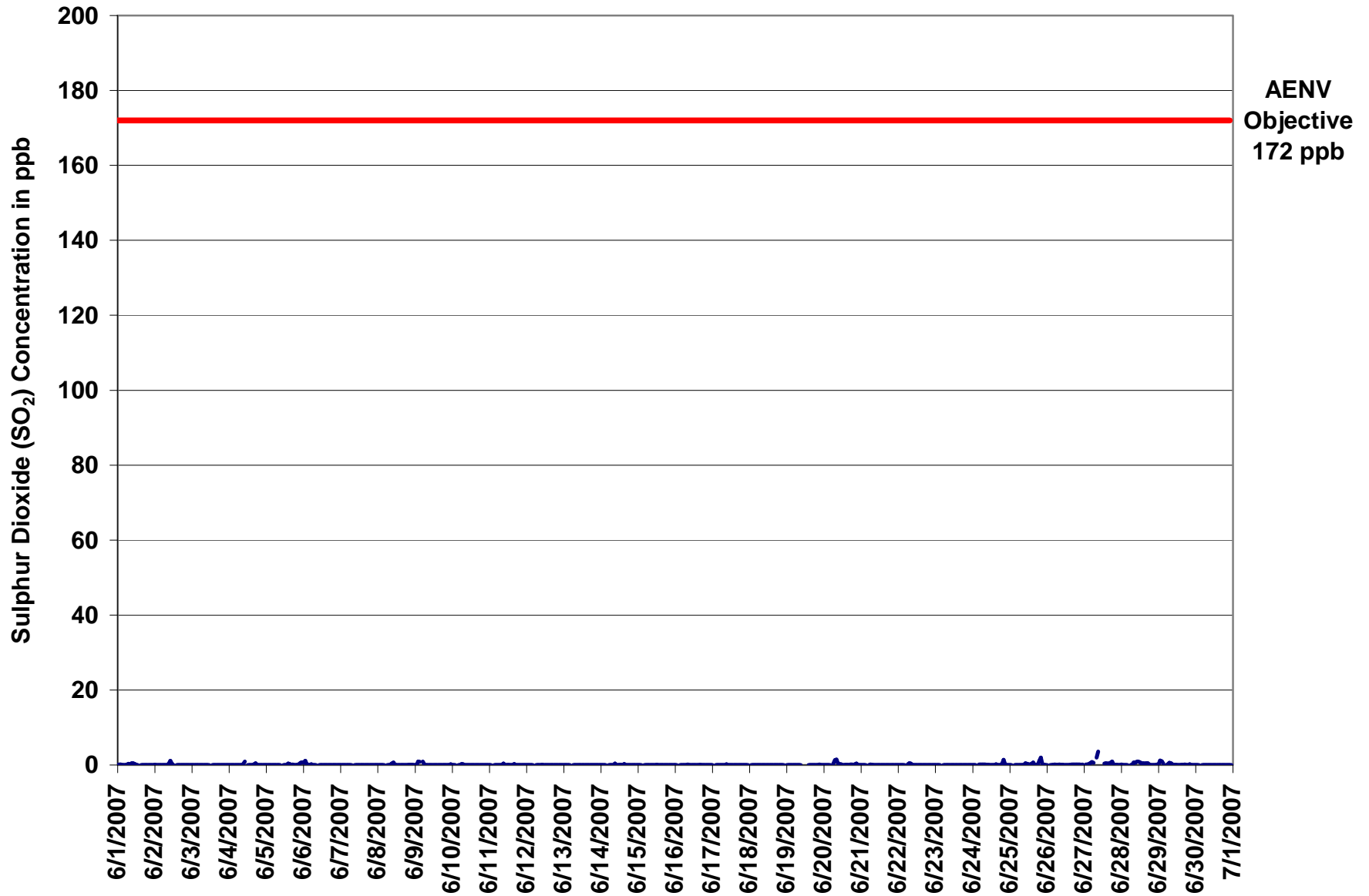


Figure 1. PASZA - Henry Pirker Sulphur Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

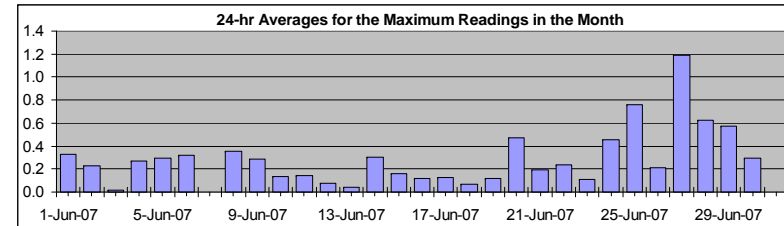
**Sulphur Dioxide (SO<sub>2</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	5.0	ppb	27-Jun	9:00 10:00
Maximum 24-hr Value:	1.2	ppb	27-Jun	

AIC Time:	31 hrs	Operational Time:	682 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	1.0	0.4	0.1	0.0	0.0	0.0	0.3 ppb	0.1 ppb



**Status Flag Characters**

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

**Day Mountain Standard Time**

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-Jun-07	0	0	0	0	0	0	0	0	0	0	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	0.7
2-Jun-07	0	0	0	0	0	0	0	0	0	1	2	1	0	A	0	0	0	0	0	0	0	0	0	0	0.2	2.0
3-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
4-Jun-07	0	0	0	0	0	0	0	0	0	0	2	A	0	0	0	0	1	1	1	0	0	0	0	0	0.3	2.3
5-Jun-07	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	1	1	0.3	1.0	
6-Jun-07	1	2	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.7
7-Jun-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	0.0
8-Jun-07	0	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0
9-Jun-07	0	0	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.5
10-Jun-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	0.1	0.5
11-Jun-07	0	0	A	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.1	0.7
12-Jun-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	0.1	0.4
13-Jun-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3
14-Jun-07	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0.3	2.8
15-Jun-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0.2	2.2
16-Jun-07	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.1	1.2
17-Jun-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	0.1	0.5
18-Jun-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	0.1	0.4
19-Jun-07	0	0	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	1	0	0	0	1	0	0	0.1	1.0
20-Jun-07	0	0	0	0	0	A	1	2	2	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0.5	1.7
21-Jun-07	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1
22-Jun-07	0	0	0	0	0	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0
23-Jun-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
24-Jun-07	0	0	0	A	1	0	0	0	0	0	0	0	0	1	1	0	0	0	2	4	1	0	0	0	0.5	3.5
25-Jun-07	0	0	A	0	0	0	0	0	0	0	1	1	1	0	1	3	0	1	1	5	4	0	0	0	0.8	4.5
26-Jun-07	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0.2	0.6	
27-Jun-07	A	0	0	1	1	1	1	P	4	5	C	C	C	1	1	1	2	1	3	1	0	0	0	0	1.2	5.0
28-Jun-07	1	0	0	0	0	A	0	1	2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0.6	2.4	
29-Jun-07	1	2	2	1	A	0	1	1	1	1	0	0	0	0	0	0	2	0	0	1	1	0	0	0.6	2.0	
30-Jun-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.7	
Hourly Avg	0.2	0.2	0.3	0.2	0.1	0.2	0.3	0.3	0.5	0.5	0.5	0.3	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.2	0.1	0.2		
Hourly Max	1.0	2.0	2.0	1.4	0.9	1.5	1.1	1.7	3.6	5.0	2.3	1.1	1.0	0.6	2.2	2.8	2.2	1.6	3.0	4.5	4.0	1.0	1.0	1.5		

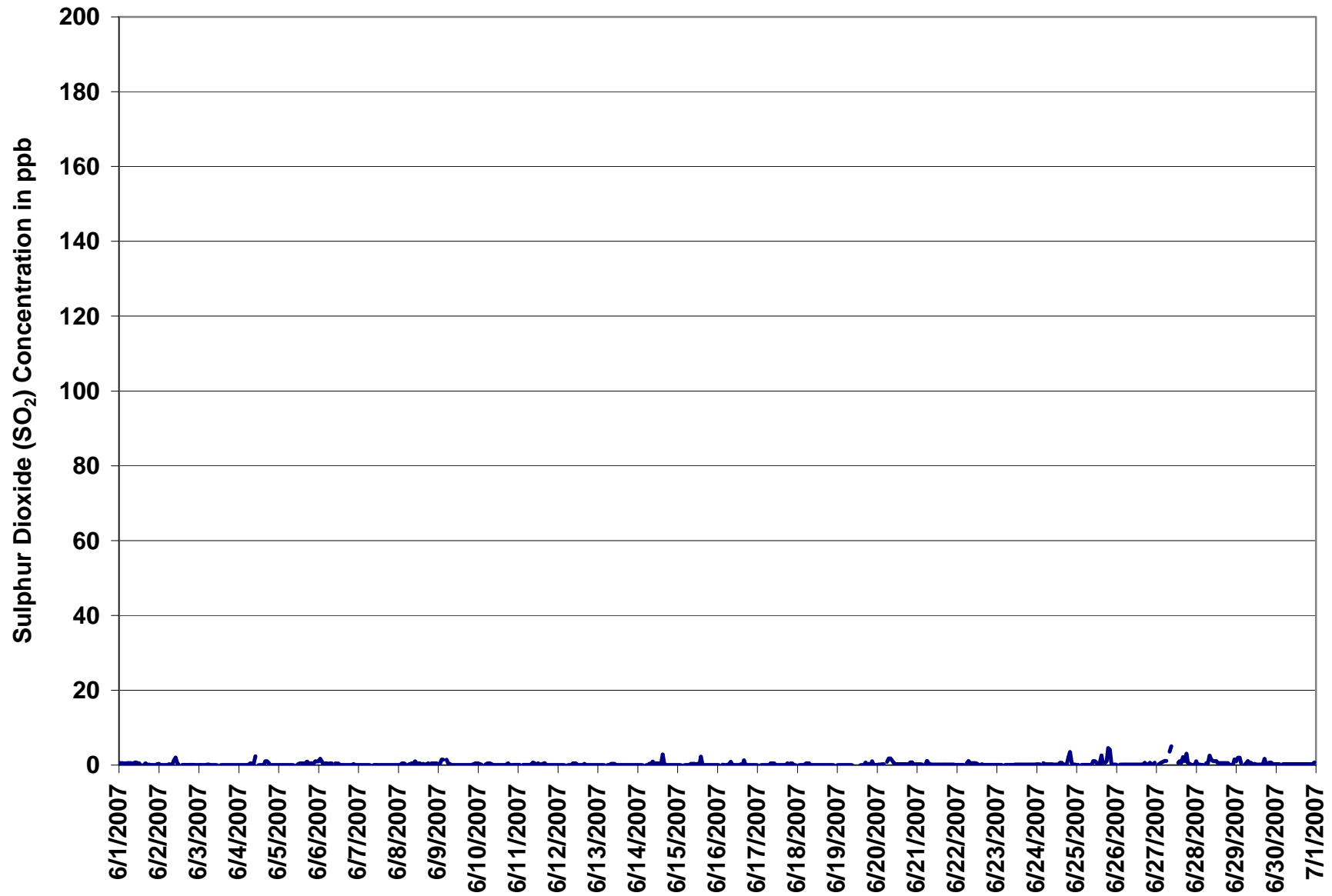
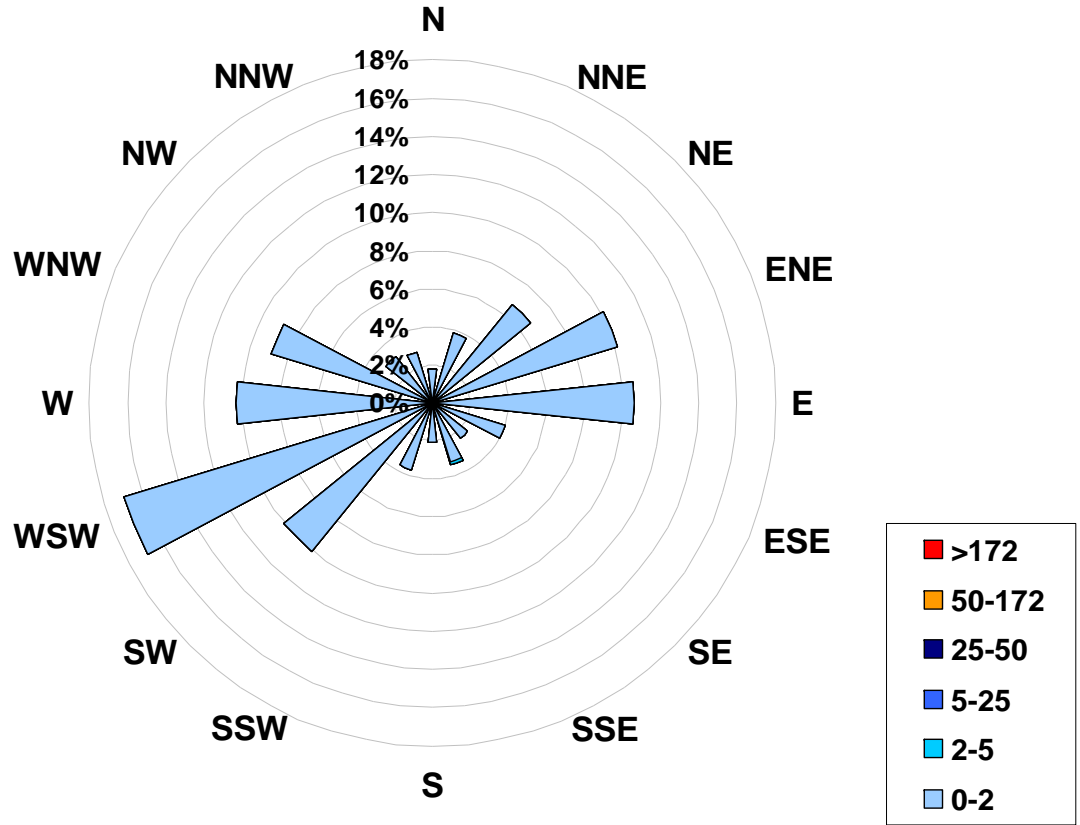


Figure 2. PASZA - Henry Pirker Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			
Range		Frequency (hrs)	
0.0	< 2	681	
2	to 5	1	
5	to 25	0	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			682

# PASZA - Henry Pirker - Nitrogen Dioxide Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

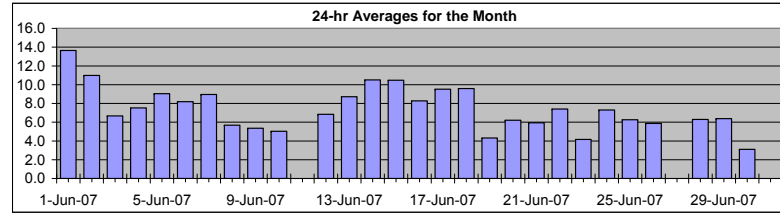
## Nitrogen Dioxide (NO<sub>2</sub>)

Monitoring Dates: June 1, 2007 to July 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:	27.4 ppb	6-Jun	22:00 23:00
Maximum 24-hr Average:	13.6 ppb	1-Jun	



AIC Time:	32 hrs	Operational Time:	671 hrs						
Calibration Time:	15 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	23.2	16.5	9.2	6.3	4.1	2.0	1.2	7.3 ppb	6.3 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-Jun-07	12	15	15	18	18	20	25	22	22	18	13	6	4	4	A	5	6	6	6	8	14	16	24	18	13.6	24.7
2-Jun-07	16	18	10	15	16	20	21	20	16	12	6	6	6	A	6	5	5	5	5	8	10	10	9	7	11.0	21.3
3-Jun-07	8	10	9	14	15	10	9	7	5	5	4	4	A	5	4	4	4	4	5	7	6	4	4	6.7	15.2	
4-Jun-07	4	4	5	5	6	7	9	6	5	6	5	A	7	6	6	7	8	7	8	16	9	15	15	7.5	15.6	
5-Jun-07	13	13	10	8	11	12	13	11	15	16	A	7	7	5	6	6	7	6	6	9	8	7	8	7	9.0	15.5
6-Jun-07	7	6	4	3	3	5	7	9	12	A	6	5	4	4	4	4	6	4	3	4	12	22	27	27	8.2	27.4
7-Jun-07	24	21	19	13	11	12	11	9	A	9	6	5	4	5	6	7	7	5	6	5	7	6	4	4	9.0	24.4
8-Jun-07	5	6	6	5	6	A	12	11	7	4	4	3	3	3	3	4	4	3	4	6	8	10	5	8	5.7	12.4
9-Jun-07	10	7	8	7	A	12	8	6	4	4	4	3	3	3	3	3	4	4	4	5	5	8	5	4	5.4	11.7
10-Jun-07	4	4	4	A	6	6	7	7	8	7	4	3	4	7	4	3	4	4	5	5	6	6	5	4	5.0	7.9
11-Jun-07	3	4	A	6	7	8	7	5	2	C	C	C	C	C	C	C	1	2	3	4	6	3	4	4	N	8.2
12-Jun-07	4	3	3	4	4	A	11	8	7	C	C	C	A	13	6	6	7	8	7	8	6	7	9	8	6.8	13.4
13-Jun-07	7	9	8	7	7	A	18	13	8	7	6	6	5	6	7	6	7	7	9	8	10	15	11	12	8.7	18.5
14-Jun-07	11	9	12	9	A	17	19	15	11	8	7	7	7	9	8	10	9	8	9	9	9	9	13	13	10.5	19.4
15-Jun-07	11	12	10	A	14	15	15	10	8	9	9	8	8	8	7	9	8	8	12	12	12	14	9	10.5	14.7	
16-Jun-07	11	10	A	11	10	12	11	8	7	6	6	6	6	7	7	7	5	6	7	7	9	11	14	8.3	14.4	
17-Jun-07	13	A	16	10	9	9	8	7	8	8	8	6	5	5	5	5	4	5	7	7	9	17	27	24	9.5	26.8
18-Jun-07	A	23	19	12	11	12	13	13	11	14	7	6	7	8	6	8	6	5	5	5	6	8	8	A	9.6	23.0
19-Jun-07	10	8	7	5	7	10	6	10	3	C	3	0	0	M	0	0	3	2	1	4	3	4	5	4	4.3	10.1
20-Jun-07	4	4	4	4	7	A	12	14	9	9	7	7	4	3	3	3	3	3	5	6	8	9	8	9	6.2	14.5
21-Jun-07	6	4	4	4	A	12	15	15	8	5	5	4	4	3	4	4	4	3	3	4	5	7	6	9	5.9	15.3
22-Jun-07	6	10	12	17	17	A	20	20	9	4	5	3	3	5	7	3	3	2	1	2	4	7	5	4	7.4	19.9
23-Jun-07	5	5	5	4	A	12	10	6	4	3	2	2	3	2	2	2	2	2	3	4	6	6	6	6	4.2	11.7
24-Jun-07	6	6	10	A	14	11	9	6	3	2	3	2	1	1	1	6	8	6	7	8	10	18	16	13	7.3	18.1
25-Jun-07	10	12	A	11	8	16	15	9	6	5	2	2	2	2	2	3	2	3	4	6	10	5	6	6	6.3	15.6
26-Jun-07	5	A	10	13	13	14	10	6	5	3	2	1	1	1	1	1	2	3	4	5	7	12	9	7	5.9	14.1
27-Jun-07	A	6	5	5	7	10	10	P	C	C	C	C	4	2	A	4	3	3	3	5	4	5	6	7	N	9.6
28-Jun-07	4	4	4	5	9	A	17	7	6	5	6	4	4	4	4	4	6	7	10	7	4	8	7	7	6.3	16.9
29-Jun-07	2	3	7	7	A	14	14	17	11	8	4	4	3	3	3	4	8	8	5	4	6	6	3	2	6.4	17.1
30-Jun-07	2	3	3	A	7	5	5	6	4	4	3	2	2	2	2	2	2	2	2	2	4	3	3	3	3.1	6.8
Hourly Avg	7.9	8.6	8.4	8.5	9.7	11.7	12.2	10.4	8.0	7.2	5.3	4.4	4.1	4.7	4.4	4.6	5.0	4.7	5.2	5.9	7.6	9.0	9.4	8.8		
Hourly Max	24.4	23.0	19.1	17.7	18.2	20.4	24.7	22.3	21.8	17.7	12.6	9.3	8.0	13.4	8.4	10.1	9.1	8.5	12.5	11.7	15.6	22.3	27.4	26.7		

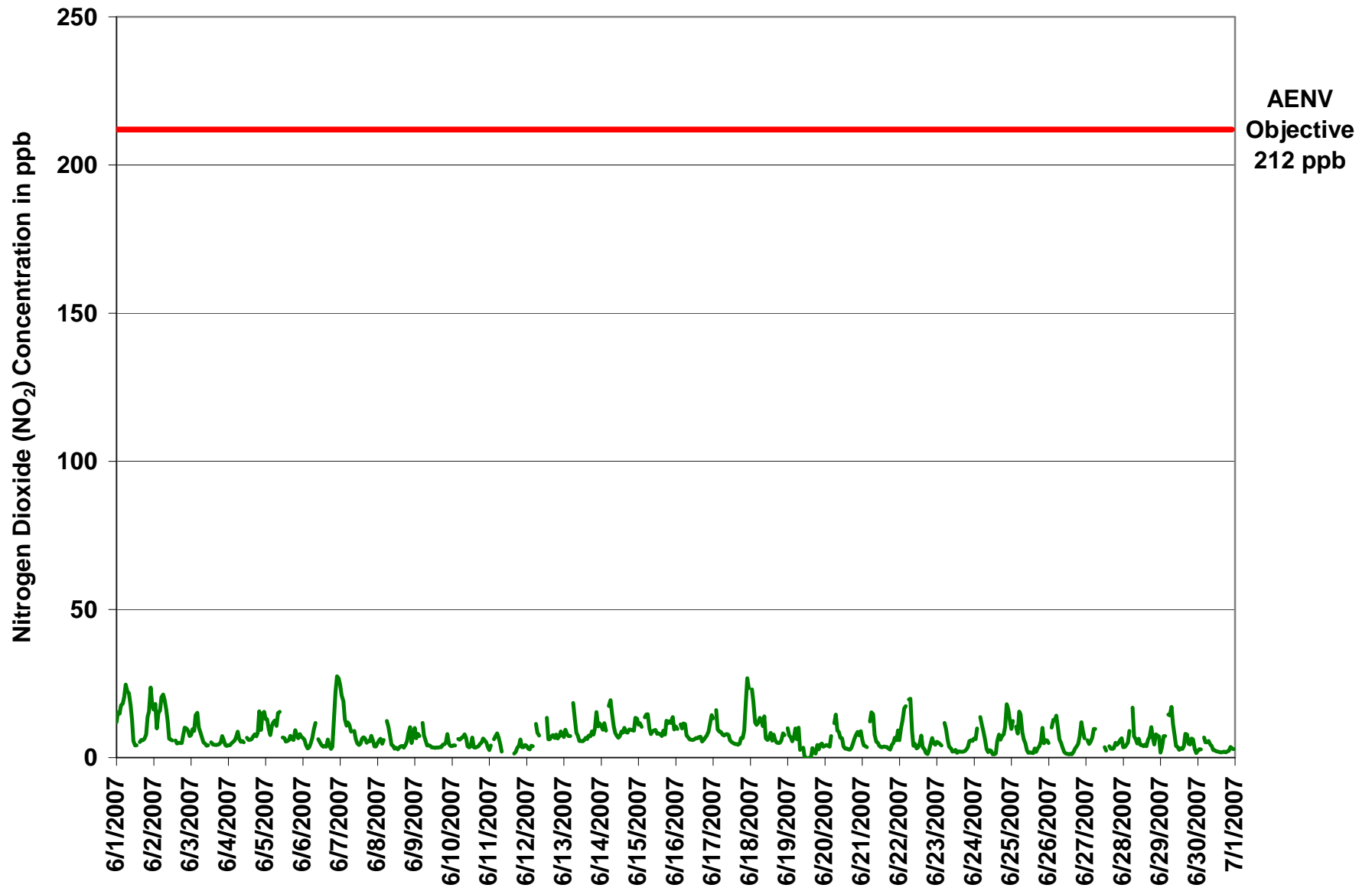


Figure 3. PASZA - Henry Pirker Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

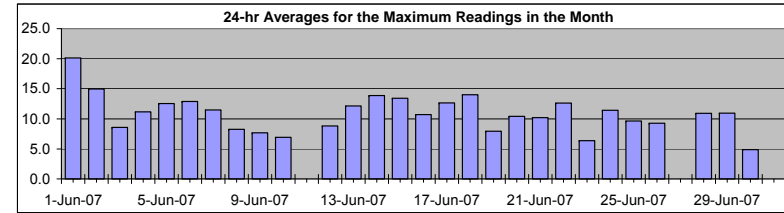
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Nitrogen Dioxide (NO<sub>2</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	44.3	ppb	1-Jun	7:00 8:00
Maximum 24-hr Value:	20.1	ppb	1-Jun	



AIC Time:	32 hrs	Operational Time:	671 hrs						
Calibration Time:	15 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	31.6	23.6	13.7	9.1	6.3	3.8	2.5	10.7 ppb	9.1 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	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-Jun-07	15	19	18	24	19	30	29	44	27	22	20	8	8	11	A	8	8	9	11	13	36	24	33	27	20.1	44.3	
2-Jun-07	20	21	15	19	22	25	28	22	19	18	11	8	8	A	8	6	8	9	7	14	17	16	13	10	15.0	28.1	
3-Jun-07	10	11	11	19	18	12	12	10	8	6	5	5	A	7	6	6	5	6	6	8	10	7	6	5	8.6	18.5	
4-Jun-07	5	11	7	7	7	10	13	9	7	12	7	A	9	7	8	8	11	10	14	16	20	15	19	27	11.2	26.9	
5-Jun-07	19	16	15	9	16	15	15	15	22	22	A	12	9	8	8	9	10	8	8	13	10	10	9	13	12.5	22.2	
6-Jun-07	9	7	7	4	5	7	11	19	16	A	11	7	6	8	6	7	27	8	6	6	23	35	32	30	12.9	35.0	
7-Jun-07	28	23	23	15	12	13	14	10	A	14	10	8	6	8	10	9	9	7	7	8	11	9	5	5	11.5	28.0	
8-Jun-07	7	9	8	6	7	A	15	12	11	7	6	4	5	4	5	6	8	5	6	9	11	16	8	12	8.2	15.5	
9-Jun-07	14	10	18	12	A	14	9	9	5	5	5	6	4	4	5	4	5	4	5	6	8	10	6	5	7.7	18.0	
10-Jun-07	4	5	5	A	7	7	7	10	12	10	5	5	6	4	12	5	5	4	4	8	6	9	7	6	7	6.9	12.0
11-Jun-07	3	8	A	9	10	10	8	7	5	C	C	C	C	C	C	C	2	5	5	6	8	5	6	6	N	10.4	
12-Jun-07	6	4	4	5	5	A	14	11	9	C	C	C	A	17	9	8	10	12	8	10	7	8	12	9	8.8	17.0	
13-Jun-07	8	11	9	9	10	A	21	18	11	9	7	10	8	10	12	13	9	9	17	10	15	25	13	14	12.1	24.9	
14-Jun-07	14	13	15	11	A	21	21	19	13	11	10	14	11	15	11	14	11	10	11	15	14	12	15	15	13.9	21.1	
15-Jun-07	13	14	14	A	18	17	16	14	9	11	11	12	11	10	10	9	13	14	18	16	17	13	16	12	13.4	17.8	
16-Jun-07	13	12	A	15	13	15	20	10	9	7	7	7	8	8	8	10	8	6	10	8	9	11	15	16	10.7	20.2	
17-Jun-07	16	A	25	11	10	10	9	8	9	8	9	7	6	6	5	5	5	9	11	11	17	30	32	31	12.6	31.9	
18-Jun-07	A	28	26	15	13	16	16	25	16	40	8	8	10	11	8	10	8	6	6	7	9	12	10	A	14.0	39.7	
19-Jun-07	13	9	9	8	10	16	14	17	6	C	7	1	0	M	0	2	8	5	15	9	5	7	7	8	7.9	16.5	
20-Jun-07	6	6	9	8	10	A	15	20	12	11	12	15	12	5	8	4	4	6	7	9	14	14	19	11	10.4	19.6	
21-Jun-07	12	5	5	5	A	18	23	19	15	8	8	14	6	6	7	7	7	5	5	8	8	19	12	12	10.2	22.7	
22-Jun-07	8	16	25	21	23	A	30	24	18	6	9	5	5	9	13	6	5	3	3	5	6	20	24	6	12.6	30.5	
23-Jun-07	7	8	8	6	A	14	12	10	5	7	3	4	5	3	3	4	3	4	5	5	5	7	9	8	6.4	14.1	
24-Jun-07	12	8	14	A	24	15	11	8	7	4	5	5	2	2	3	13	19	9	13	11	16	24	22	15	11.4	24.5	
25-Jun-07	14	17	A	14	12	22	19	11	8	6	4	2	5	8	4	5	6	5	6	8	17	8	7	12	9.6	22.3	
26-Jun-07	10	A	13	15	18	18	16	8	7	6	7	3	4	6	5	3	4	7	7	7	10	18	13	10	9.3	18.1	
27-Jun-07	A	10	6	10	8	13	12	P	C	C	C	C	5	4	A	6	6	8	6	14	10	8	9	13	N	13.6	
28-Jun-07	7	7	8	9	15	A	27	11	7	6	8	7	5	6	6	7	9	14	15	17	8	16	20	15	10.9	26.8	
29-Jun-07	3	8	15	11	A	22	21	34	17	10	6	5	5	7	5	7	18	14	8	7	11	9	6	4	10.9	34.0	
30-Jun-07	3	5	6	A	9	7	7	8	6	6	3	4	3	4	3	3	3	4	3	4	4	6	6	6	4.9	9.3	
Hourly Avg	10.7	11.5	12.5	11.3	12.9	15.3	16.2	15.3	11.3	11.0	7.9	7.1	6.4	7.6	6.7	7.0	8.4	7.6	8.6	9.6	12.2	14.1	13.6	12.6			
Hourly Max	28.0	28.3	25.7	23.7	24.5	29.8	30.5	44.3	27.0	39.7	19.6	14.6	12.1	17.0	13.0	14.3	26.8	14.2	17.8	17.5	36.2	35.0	32.9	30.9			

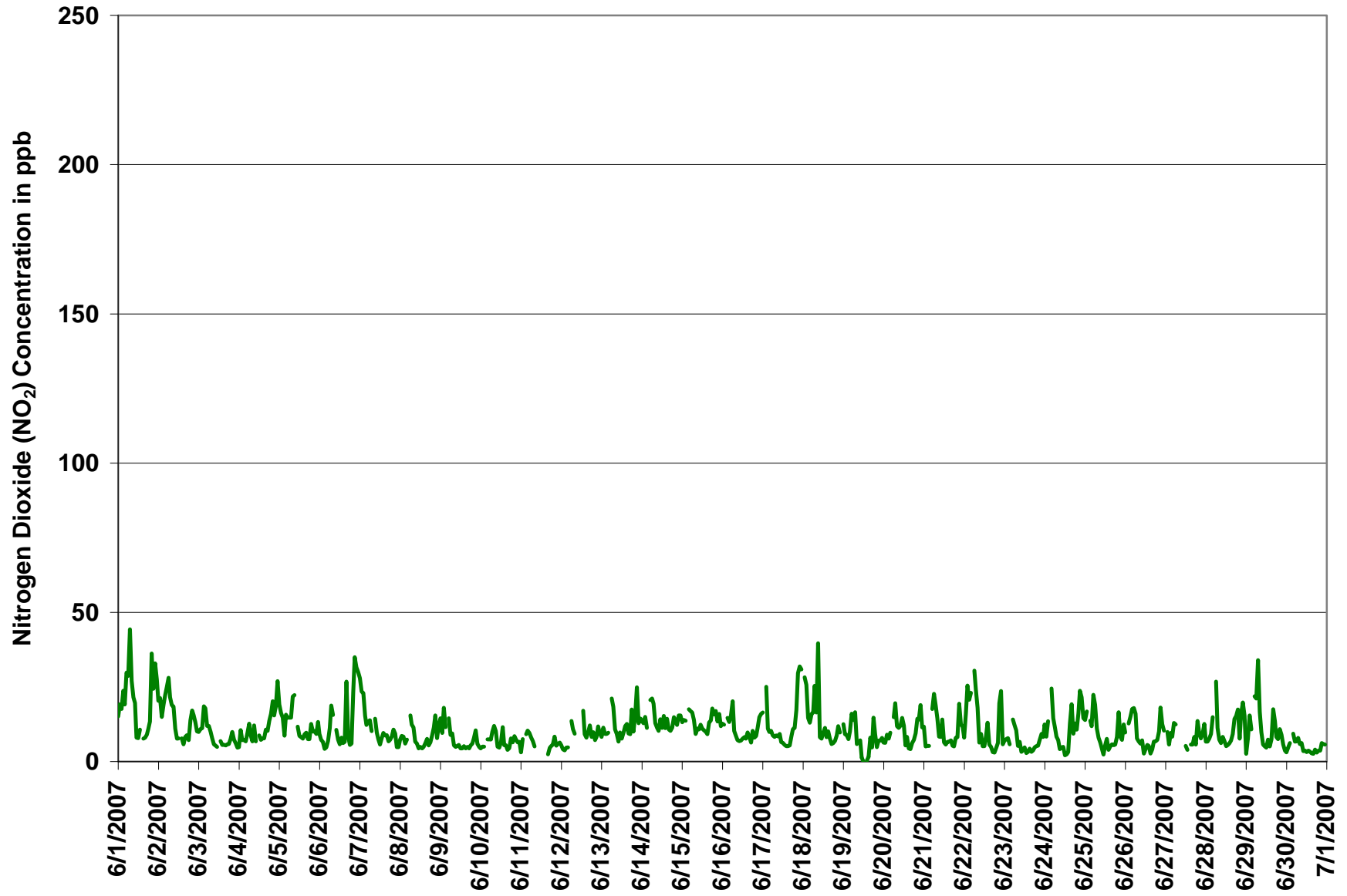
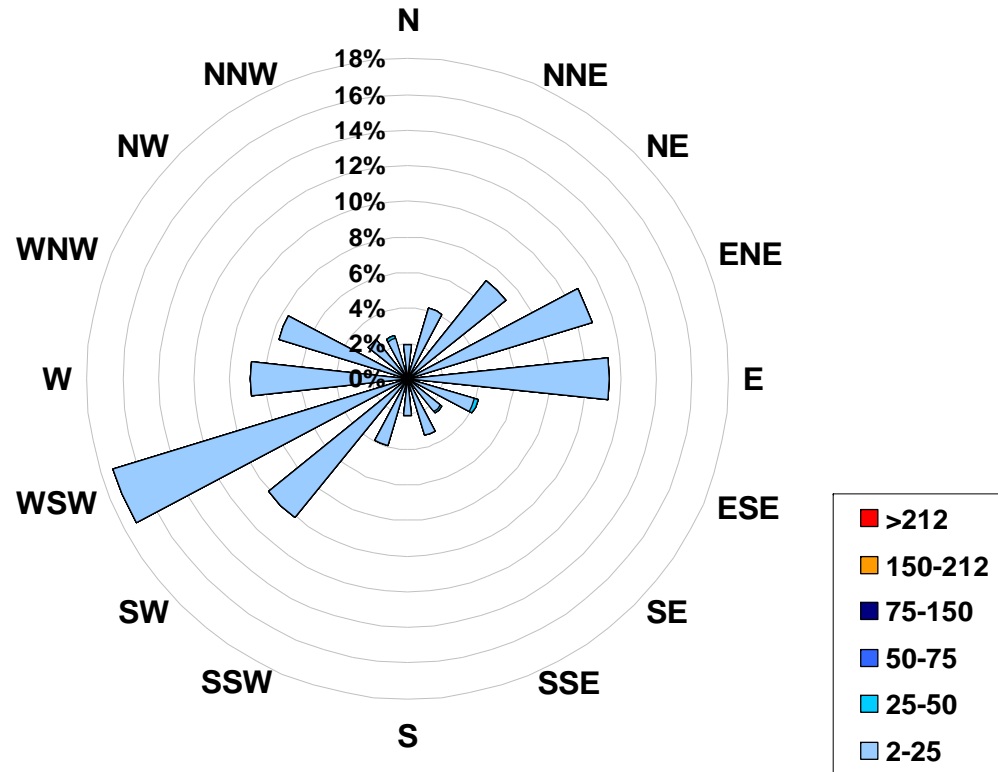


Figure 4. PASZA - Henry Pirker Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of NO <sub>2</sub> in ppb		
Range		Frequency (hrs)
2.0	< 25	671
25	to 50	0
50	to 75	0
75	to 150	0
150	to 212	0
	> 212	0
Total Non-Zero Values		671

# PASZA - Henry Pirker - Nitric Oxide Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

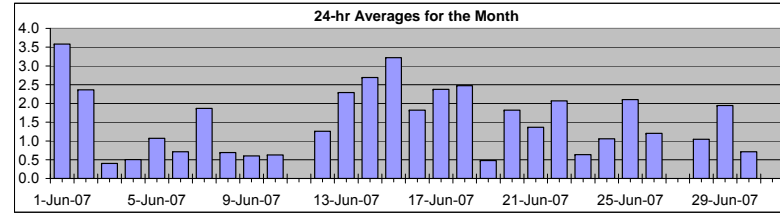
## Nitric Oxide (NO)

Monitoring Dates: June 1, 2007 to July 1, 2007

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

Maximum 1-hr Average:	23.4	ppb	1-Jun	6:00 7:00
Maximum 24-hr Average:	3.6	ppb	1-Jun	

AIC Time:	32 hrs	Operational Time:	671 hrs						
Calibration Time:	15 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	12.2	5.7	1.5	0.8	0.4	0.0	0.0	1.5 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																								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-Jun-07	0	1	1	2	2	10	23	15	13	8	3	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	3.6	23.4
2-Jun-07	1	2	0	0	1	10	16	8	6	3	1	1	1	A	0	0	1	0	0	0	0	0	0	0	0	0	2.4	16.4	
3-Jun-07	0	0	0	1	1	1	1	1	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9	
4-Jun-07	0	0	0	0	0	1	2	1	1	1	1	A	1	1	1	1	0	0	0	0	0	0	0	1	1	0.5	2.0		
5-Jun-07	1	0	0	0	1	1	2	2	2	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.3		
6-Jun-07	0	1	0	0	0	1	1	1	2	A	1	1	1	1	1	1	3	1	0	0	0	0	0	0	0	0.7	2.6		
7-Jun-07	1	1	1	1	1	6	9	8	A	3	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1.9	9.4		
8-Jun-07	0	0	0	0	0	A	2	3	2	1	1	0	1	0	1	1	1	0	0	1	0	0	0	0	0	0.7	2.6		
9-Jun-07	0	0	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0.6	1.4		
10-Jun-07	0	0	0	A	0	0	1	1	2	2	1	1	0	1	1	1	0	0	1	1	1	0	0	0	0	0.6	2.1		
11-Jun-07	0	0	A	0	0	1	2	1	0	C	C	C	C	C	C	C	0	0	0	0	0	0	0	0	N	2.3	3.5		
12-Jun-07	0	0	0	0	0	A	2	1	2	C	C	C	A	4	2	2	2	2	2	2	1	1	1	1	1	1.3	3.5		
13-Jun-07	1	1	1	1	1	A	10	8	4	2	1	1	1	1	2	1	2	2	4	1	1	2	1	1	2.3	10.3			
14-Jun-07	1	1	2	2	A	5	11	10	7	4	2	2	1	2	2	2	2	1	1	1	1	1	1	1	2	2.7	10.6		
15-Jun-07	2	3	3	A	4	10	16	8	3	2	2	2	2	2	2	1	2	1	2	2	2	1	2	2	3.2	16.3			
16-Jun-07	2	2	A	2	2	3	3	2	3	2	2	1	1	2	2	2	1	1	1	1	1	1	1	2	3	1.8	3.1		
17-Jun-07	3	A	3	2	2	4	6	6	6	3	2	1	1	1	1	0	1	1	1	1	1	1	3	4	2.4	6.2			
18-Jun-07	A	3	5	2	2	2	5	9	4	8	1	1	1	2	1	2	2	1	1	1	1	1	1	A	2.5	9.0			
19-Jun-07	0	0	0	0	0	2	1	6	0	C	0	0	0	M	0	0	0	0	0	0	0	0	0	0	0.5	6.4			
20-Jun-07	0	0	0	0	0	A	4	9	4	6	4	3	2	1	1	1	1	1	1	1	1	1	1	0	1.8	9.3			
21-Jun-07	1	0	0	0	A	1	1	4	3	3	3	2	2	2	2	2	1	1	1	1	1	1	0	0	1.4	4.4			
22-Jun-07	0	0	1	1	4	A	13	12	4	1	2	1	1	1	2	1	1	0	0	0	0	1	0	0	2.1	13.4			
23-Jun-07	0	0	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0.6	1.2			
24-Jun-07	0	0	0	A	1	2	3	3	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1.1	3.3			
25-Jun-07	1	1	A	0	1	8	14	7	4	3	1	1	1	1	1	1	1	1	1	1	1	0	0	0	2.1	13.6			
26-Jun-07	0	A	0	0	1	5	5	4	3	2	1	1	1	1	1	0	1	1	1	1	1	1	0	0	1.2	5.2			
27-Jun-07	A	0	0	0	1	2	3	P	C	C	C	C	1	0	A	1	1	1	1	1	1	0	0	0	N	2.6	2.6		
28-Jun-07	0	0	0	0	0	A	4	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1.0	3.7	3.7		
29-Jun-07	0	0	0	0	A	6	7	11	5	3	1	1	1	1	1	1	1	1	1	3	1	1	0	0	1.9	10.6	10.6		
30-Jun-07	0	0	0	A	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0.7	1.2	1.2		
Hourly Avg	0.5	0.7	0.7	0.7	1.1	3.5	5.7	5.1	3.0	2.6	1.4	1.1	0.9	1.1	1.0	0.9	1.0	0.8	0.9	0.7	0.6	0.6	0.6	0.7					
Hourly Max	3.1	3.3	4.6	2.3	4.0	10.1	23.4	15.1	13.0	8.0	4.4	3.5	1.7	3.5	2.4	2.0	2.6	2.1	3.7	1.7	1.6	1.7	3.4	3.6					

# PASZA - Henry Pirker - Oxides of Nitrogen Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

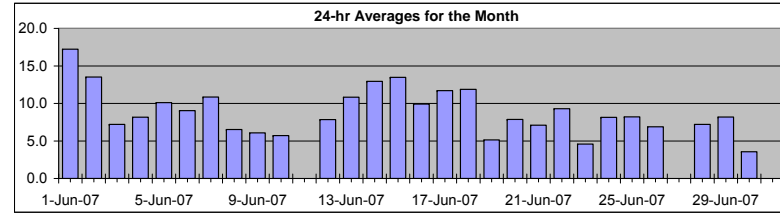
## HOURLY AVERAGE TABLE

## Oxides of Nitrogen (NO<sub>x</sub>)

Monitoring Dates: June 1, 2007 to July 1, 2007

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

Maximum 1-hr Average:	48.1	ppb	1-Jun	6:00 7:00
Maximum 24-hr Average:	17.2	ppb	1-Jun	



AIC Time:	32 hrs	Operational Time:	671 hrs						
Calibration Time:	15 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	30.6	21.0	10.6	7.3	4.7	2.5	1.0	8.7 ppb	7.3 ppb

### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Jun-07	12	16	16	20	20	31	48	37	35	25	15	6	4	5	A	5	7	6	7	8	15	16	24	19	17.2	48.1	
2-Jun-07	17	20	10	16	17	30	38	28	23	16	7	7	7	A	6	5	6	6	6	8	11	10	10	8	13.5	37.8	
3-Jun-07	8	10	9	15	16	11	10	8	6	5	5	5	A	6	5	5	5	5	5	6	8	6	5	4	7.2	16.1	
4-Jun-07	4	5	5	6	6	8	11	7	6	7	6	A	7	7	7	7	8	8	8	9	16	10	15	16	8.2	16.0	
5-Jun-07	14	13	10	8	11	13	15	12	17	18	A	8	8	6	7	7	9	7	7	10	8	7	8	8	10.1	17.7	
6-Jun-07	7	7	5	4	4	5	8	11	13	A	8	6	5	5	5	5	9	5	3	4	13	23	28	27	9.0	27.8	
7-Jun-07	25	22	20	14	12	18	21	16	A	12	8	5	5	5	8	8	8	6	7	6	8	7	4	4	10.8	25.1	
8-Jun-07	5	6	7	5	6	A	15	13	10	5	5	4	4	3	4	5	5	4	5	6	9	11	5	8	6.5	14.8	
9-Jun-07	10	7	9	8	A	13	9	7	5	5	5	4	4	4	4	4	4	4	5	5	5	8	5	4	6.1	13.0	
10-Jun-07	4	4	4	A	7	7	7	8	10	9	5	4	4	8	4	4	4	4	5	6	7	6	5	4	5.7	9.9	
11-Jun-07	3	4	A	6	8	10	9	6	3	C	C	C	C	C	C	C	0	0	2	2	5	2	2	3	N	9.6	
12-Jun-07	3	2	2	4	4	A	13	10	9	C	C	C	A	17	8	8	9	10	8	9	8	8	10	8	7.8	16.6	
13-Jun-07	8	11	9	8	8	A	28	21	12	10	7	7	7	7	8	8	9	9	12	9	11	17	11	13	10.8	28.4	
14-Jun-07	12	11	13	10	A	22	30	25	17	12	9	8	8	10	10	12	10	10	11	10	10	10	14	14	13.0	29.6	
15-Jun-07	13	14	13	A	17	24	31	17	11	11	11	11	9	10	9	9	10	9	14	13	14	13	15	11	13.5	30.8	
16-Jun-07	13	12	A	13	12	14	14	10	9	8	8	7	8	8	8	9	8	6	7	8	8	10	13	17	9.9	17.2	
17-Jun-07	16	A	19	12	11	13	14	13	13	11	10	7	6	6	5	5	5	5	8	7	10	18	30	27	11.7	29.7	
18-Jun-07	A	26	23	14	13	14	18	22	14	22	7	7	8	10	7	10	8	6	6	6	6	9	8	A	11.9	25.9	
19-Jun-07	10	8	7	5	7	13	8	18	3	C	5	0	0	M	0	0	3	2	2	5	3	5	5	4	5.2	17.5	
20-Jun-07	4	4	4	4	8	A	16	23	13	14	11	10	5	4	4	4	3	4	5	7	8	9	8	9	7.9	23.5	
21-Jun-07	6	4	4	4	A	13	16	19	10	8	8	6	5	5	5	5	5	4	3	5	5	7	6	9	7.1	18.7	
22-Jun-07	6	10	13	17	21	A	33	31	13	5	6	4	4	6	10	4	3	2	1	3	4	7	5	4	9.3	32.8	
23-Jun-07	5	5	4	4	A	12	10	6	4	4	3	3	4	2	3	3	3	3	3	3	4	6	6	6	4.6	12.0	
24-Jun-07	6	6	10	A	15	13	12	9	4	3	4	3	1	1	2	6	9	7	8	9	11	19	17	13	8.2	18.8	
25-Jun-07	10	13	A	11	9	23	28	15	11	8	4	2	2	3	2	4	3	4	4	6	11	5	6	6	8.2	28.1	
26-Jun-07	5	A	10	13	13	19	15	10	7	5	3	2	2	2	2	1	2	4	4	5	8	12	9	7	6.9	18.9	
27-Jun-07	A	6	5	5	7	11	12	P	C	C	C	C	4	3	A	4	4	4	4	6	5	5	6	7	N	11.9	
28-Jun-07	4	4	4	5	9	A	20	9	8	6	8	6	5	5	5	5	7	8	11	7	5	9	8	7	7.2	20.3	
29-Jun-07	2	4	7	7	A	20	21	27	16	10	5	4	3	4	4	5	9	9	8	5	7	6	3	2	8.2	27.4	
30-Jun-07	2	3	3	A	7	6	6	7	5	5	3	3	3	3	3	3	3	3	3	2	3	3	4	3	0	3.6	6.9
Hourly Avg	8.4	9.1	9.1	9.1	10.8	15.1	17.8	15.4	11.0	9.7	6.7	5.4	4.9	5.7	5.4	5.4	5.9	5.4	6.0	6.6	8.2	9.4	9.8	9.3			
Hourly Max	25.1	25.9	23.0	19.6	21.0	30.6	48.1	37.3	34.7	25.4	15.2	11.0	9.4	16.6	9.8	11.7	10.4	9.6	13.8	13.1	16.0	22.8	29.7	27.1			



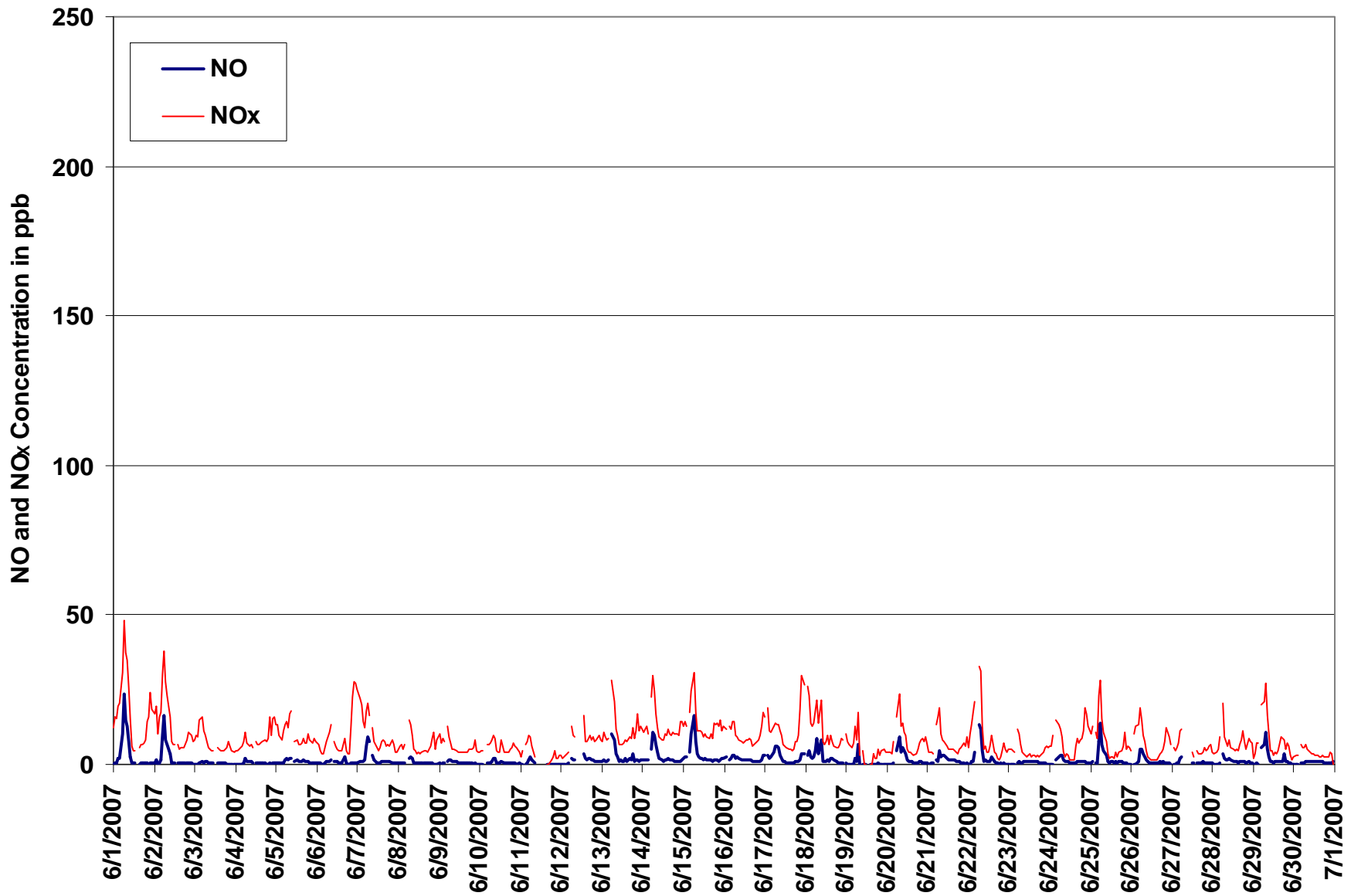


Figure 5. PASZA - Henry Pirker Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

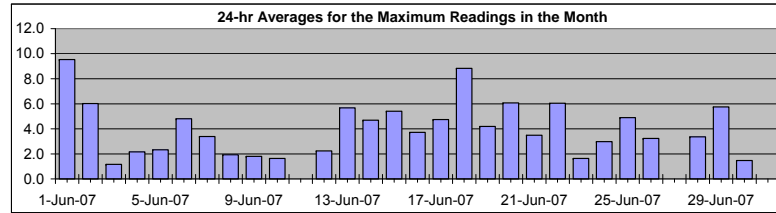
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Nitric Oxide (NO)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	85.1	ppb	18-Jun	9:00 10:00
Maximum 24-hr Value:	9.5	ppb	1-Jun	



AIC Time:	32 hrs	Operational Time:	671 hrs						
Calibration Time:	15 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	33.4	12.1	4.1	2.0	1.0	0.5	0.0	3.9 ppb	2.0 ppb

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
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-Jun-07	1	2	3	13	6	32	40	47	22	12	6	1	2	5	A	1	2	3	1	1	7	3	6	2	9.5	47.5	
2-Jun-07	3	6	2	1	11	27	32	10	10	8	4	1	1	A	1	1	4	2	2	1	5	2	2	2	6.0	32.4	
3-Jun-07	1	1	1	1	2	2	2	3	2	1	1	1	A	1	1	1	1	1	1	1	1	2	1	0	1.2	2.5	
4-Jun-07	1	8	3	1	1	2	8	2	2	8	1	A	1	1	1	1	1	1	1	1	1	1	4	1	2.2	8.3	
5-Jun-07	3	1	1	1	1	2	3	3	4	8	A	2	3	2	2	2	2	2	2	2	2	2	2	4	2.3	8.0	
6-Jun-07	3	2	3	2	1	3	4	5	11	A	5	3	3	5	3	4	39	3	2	1	2	3	2	3	4.8	39.2	
7-Jun-07	3	3	3	3	3	10	13	10	A	6	3	2	1	3	2	2	2	2	2	2	2	1	1	1	3.4	12.8	
8-Jun-07	1	1	1	1	1	A	5	9	5	2	1	1	1	1	1	2	2	1	1	3	2	1	1	2	1.9	9.1	
9-Jun-07	2	2	2	1	A	4	2	7	2	2	2	2	1	1	2	2	1	1	1	1	1	1	1	1	1.8	7.1	
10-Jun-07	1	1	1	A	1	1	1	2	3	5	1	1	1	3	1	3	1	1	4	2	1	1	1	3	1.6	5.0	
11-Jun-07	1	1	A	0	1	3	4	3	2	C	C	C	C	C	C	C	0	0	0	0	0	0	0	0	N	3.7	
12-Jun-07	0	0	0	0	1	A	3	2	3	C	C	C	A	5	5	3	3	6	3	3	1	1	1	2	2.2	6.4	
13-Jun-07	1	3	2	2	2	A	17	16	6	4	3	5	3	4	6	4	4	2	33	2	4	4	2	2	5.7	33.3	
14-Jun-07	2	2	2	2	A	8	15	15	9	7	4	10	4	8	3	3	3	2	2	2	2	1	2	2	4.7	15.5	
15-Jun-07	3	3	4	A	6	18	21	17	4	4	4	4	5	5	4	3	3	3	3	4	3	2	2	2	5.4	21.0	
16-Jun-07	4	3	A	2	6	4	18	6	4	3	3	3	2	4	3	4	2	2	2	1	1	2	3	4	3.7	17.7	
17-Jun-07	5	A	5	3	3	7	7	7	6	5	3	2	2	1	1	1	1	5	10	6	7	9	6	7	4.7	10.0	
18-Jun-07	A	5	8	3	4	5	8	46	7	85	2	2	2	2	2	3	3	2	2	1	2	1	1	A	8.8	85.1	
19-Jun-07	1	0	0	0	1	6	8	18	1	C	3	1	0	M	0	0	1	1	22	9	3	3	4	11	4.2	22.1	
20-Jun-07	3	0	8	1	1	A	9	16	10	13	11	11	8	2	6	2	2	1	2	6	11	4	10	1	6.1	16.0	
21-Jun-07	9	1	1	2	A	3	3	11	5	6	6	7	4	3	3	4	3	2	2	2	1	1	1	2	3.5	10.5	
22-Jun-07	0	2	10	6	13	A	39	20	9	3	4	7	2	3	5	2	2	1	1	1	1	4	4	0	6.0	38.8	
23-Jun-07	0	1	0	1	A	1	2	1	2	2	2	2	2	2	6	3	3	4	1	1	1	1	1	1	1.6	6.0	
24-Jun-07	1	0	1	A	9	5	5	5	4	2	3	3	1	1	1	4	4	5	2	2	3	4	2	2	3.0	9.5	
25-Jun-07	2	4	A	1	1	14	22	11	6	6	3	2	5	21	2	3	3	3	1	1	1	1	1	1	4.9	21.5	
26-Jun-07	1	A	0	1	4	10	10	5	4	4	7	2	2	4	3	1	3	4	2	4	2	2	2	1	3.2	10.0	
27-Jun-07	A	1	1	1	2	4	4	P	C	C	C	C	1	1	A	2	2	5	6	5	2	1	2	4	N	5.5	
28-Jun-07	5	1	1	1	2	A	7	5	3	3	4	3	2	2	2	1	2	9	8	2	5	5	2	1	3.4	9.3	
29-Jun-07	1	1	1	1	A	23	13	34	11	4	2	2	1	2	2	2	5	6	12	3	5	1	1	1	5.7	33.6	
30-Jun-07	1	1	1	A	1	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	5	1.5	5.4	
Hourly Avg	1.9	1.9	2.2	1.8	3.4	8.1	10.8	11.6	5.7	8.2	3.4	3.1	2.3	3.6	2.6	2.2	3.4	2.7	4.4	2.3	2.5	2.1	2.2	2.3			
Hourly Max	9.0	7.7	9.6	13.3	13.0	32.3	39.7	47.5	22.3	85.1	11.2	11.0	8.2	21.5	6.4	4.5	39.2	9.3	33.3	8.7	10.9	8.9	10.4	10.7			

Station: Henry Pirker  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

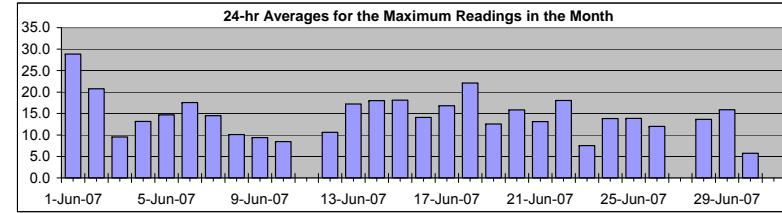
**Oxides of Nitrogen (NO<sub>x</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	120.5	ppb	18-Jun	9:00 10:00
Maximum 24-hr Value:	28.9	ppb	1-Jun	

AIC Time:	32 hrs	Operational Time:	671 hrs						
Calibration Time:	15 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	62.7	33.7	16.7	11.5	7.9	4.8	3.0	14.2 ppb	11.5 ppb



**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jun-07	15	20	21	36	25	62	68	84	49	34	26	9	10	16	A	8	10	12	12	14	41	25	39	28	28.9	83.7	
2-Jun-07	22	27	16	20	33	52	61	31	28	26	15	10	9	A	8	7	12	11	9	15	22	18	15	12	20.8	60.5	
3-Jun-07	10	12	12	20	20	14	13	13	10	6	6	6	A	8	6	6	6	6	6	8	11	8	7	5	9.6	19.6	
4-Jun-07	5	18	9	8	7	11	20	11	8	20	8	A	9	8	9	8	12	11	14	16	21	16	23	28	13.2	27.9	
5-Jun-07	21	17	15	9	17	17	17	18	25	30	A	14	11	10	10	11	12	9	9	15	11	12	11	18	14.7	29.9	
6-Jun-07	13	10	9	6	5	10	15	24	25	A	16	10	9	13	8	10	66	11	6	7	25	38	34	32	17.6	66.4	
7-Jun-07	29	25	25	18	14	24	25	21	A	21	13	9	7	10	12	10	11	8	9	10	12	10	5	5	14.5	29.2	
8-Jun-07	8	9	9	7	8	A	21	21	17	9	8	6	6	6	6	8	10	7	8	10	13	16	8	14	10.1	20.9	
9-Jun-07	15	12	20	13	A	18	11	17	7	7	8	8	6	6	7	6	7	6	6	7	8	11	6	6	9.4	20.1	
10-Jun-07	5	6	6	A	8	8	9	12	15	15	6	6	7	14	7	8	5	5	12	8	10	8	7	10	8.5	15.1	
11-Jun-07	4	8	A	10	11	13	12	10	8	C	C	C	C	C	C	C	0	3	4	4	7	4	5	5	N	12.8	
12-Jun-07	5	3	3	4	5	A	16	12	12	C	C	C	A	22	14	10	13	18	11	12	9	9	13	10	10.6	21.7	
13-Jun-07	9	15	10	11	12	A	36	34	16	13	9	14	10	13	18	17	13	12	45	11	19	29	14	16	17.2	45.1	
14-Jun-07	15	14	17	13	A	27	36	33	21	19	14	24	15	23	14	17	14	12	13	16	15	13	17	17	18.0	36.0	
15-Jun-07	15	16	17	A	21	33	37	30	12	14	14	17	16	14	13	11	16	16	20	20	20	15	17	14	18.1	37.3	
16-Jun-07	16	15	A	16	18	19	38	16	12	11	9	10	10	13	10	14	10	8	12	9	10	13	17	20	14.1	37.5	
17-Jun-07	21	A	30	14	13	17	16	15	15	14	12	8	8	7	6	6	6	13	20	16	24	36	37	37	16.8	36.8	
18-Jun-07	A	32	32	17	16	20	23	69	22	121	10	9	12	13	9	13	11	8	8	8	10	13	10	A	22.1	120.5	
19-Jun-07	13	9	9	7	12	22	23	35	8	C	11	3	0	M	1	3	9	6	37	19	8	10	12	19	12.5	37.5	
20-Jun-07	10	7	17	8	11	A	21	35	20	23	23	25	20	7	14	6	6	8	8	16	24	15	29	12	15.8	35.2	
21-Jun-07	21	5	6	7	A	19	24	26	19	14	14	21	9	9	10	10	10	8	7	10	9	20	13	13	13.1	26.2	
22-Jun-07	8	16	34	25	35	A	65	44	26	9	13	12	7	11	17	8	6	4	4	6	7	23	27	6	18.0	65.0	
23-Jun-07	7	8	8	6	A	15	13	11	6	8	5	5	7	5	9	7	6	6	5	6	6	8	9	8	7.5	14.6	
24-Jun-07	13	8	13	A	33	18	16	13	11	6	7	7	3	4	4	16	22	13	15	12	18	27	23	15	13.8	32.9	
25-Jun-07	14	19	A	14	13	35	40	21	14	12	7	4	10	26	6	7	8	9	7	9	17	9	8	12	13.9	39.8	
26-Jun-07	10	A	13	15	21	26	25	12	11	9	14	4	6	9	8	4	6	10	8	11	11	19	13	11	12.0	25.8	
27-Jun-07	A	10	6	10	10	16	16	P	C	C	C	C	C	6	5	A	7	7	13	8	16	11	8	10	16	N	16.5
28-Jun-07	12	7	8	9	16	A	32	16	10	8	11	10	7	8	9	8	11	23	22	19	12	21	20	16	13.7	32.2	
29-Jun-07	3	8	16	11	A	45	33	67	28	14	7	7	6	10	6	8	21	17	13	10	16	10	6	4	15.9	67.4	
30-Jun-07	4	5	6	A	10	7	8	9	7	8	5	5	5	6	5	5	4	6	4	4	5	7	6	4	5.8	9.6	
Hourly Avg	12.2	12.9	14.3	12.8	15.7	22.8	26.3	26.2	16.6	18.8	11.1	10.1	8.5	10.8	9.1	9.0	11.5	9.9	12.0	11.5	14.3	15.7	15.3	14.2			
Hourly Max	29.2	32.2	34.4	36.2	34.8	61.7	68.0	83.7	49.1	120.5	25.8	25.2	20.2	25.7	17.9	17.0	66.4	23.3	45.1	20.0	41.4	38.4	39.2	36.8			

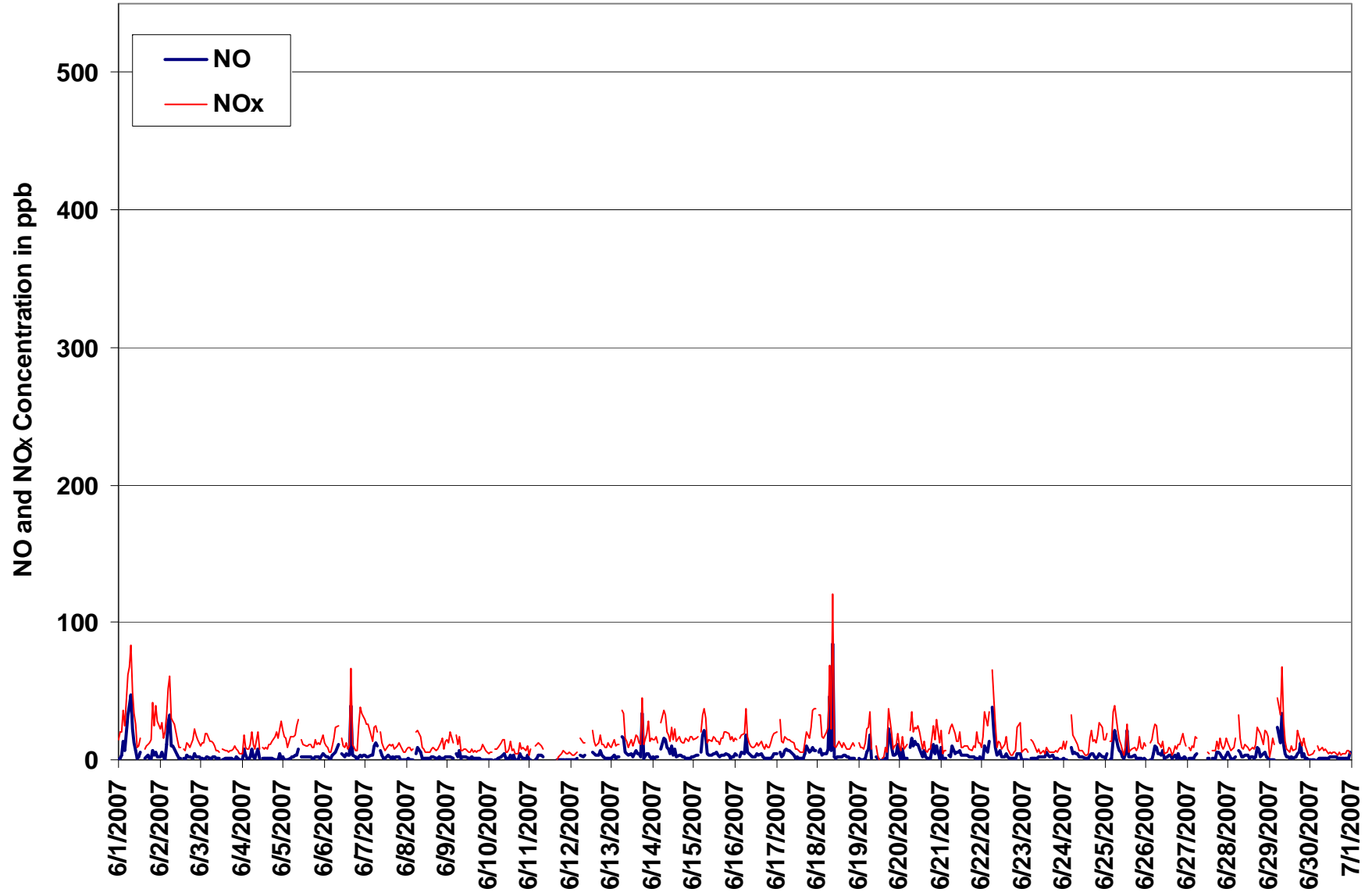


Figure 6. PASZA - Henry Pirker Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

# PASZA - Henry Pirker - Ozone Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

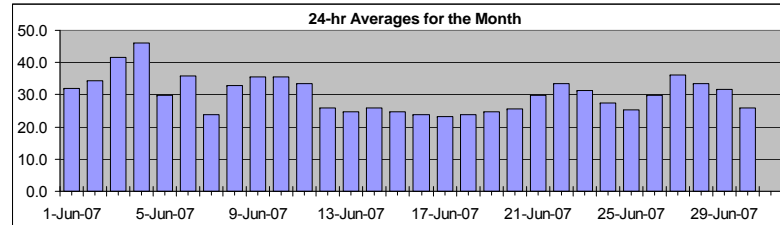
## Ozone (O<sub>3</sub>)

Monitoring Dates: June 1, 2007 to July 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:	67.1	ppb	4-Jun	17:00	18:00
Maximum 24-hr Average:	46.0	ppb	4-Jun		

AIC Time:	32 hrs	Operational Time:	680 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	57.0	48.2	36.6	30.2	23.4	12.0	8.3	30.3 ppb	30.2 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-Jun-07	21	16	13	10	9	8	9	15	17	26	45	57	56	55	A	52	50	48	47	46	42	35	25	30	31.9	56.6
2-Jun-07	17	14	29	15	13	7	8	9	14	31	49	50	52	A	54	54	53	52	52	47	43	43	41	43	34.4	54.1
3-Jun-07	39	34	30	18	18	28	31	40	47	50	51	50	A	49	50	51	52	52	51	50	43	41	41	40	41.6	52.4
4-Jun-07	38	36	35	35	34	32	32	36	40	45	54	A	59	61	61	62	66	67	62	53	43	46	32	29	46.0	67.1
5-Jun-07	28	28	30	28	23	22	21	22	18	18	A	30	30	30	29	30	32	30	30	33	44	46	40	44	29.8	45.9
6-Jun-07	40	29	30	33	35	34	32	30	27	A	37	41	43	43	45	46	46	47	47	46	38	25	17	13	35.8	47.2
7-Jun-07	11	9	8	8	9	9	10	13	A	24	35	43	43	41	36	34	31	30	26	26	23	24	28	27	23.9	43.3
8-Jun-07	25	24	23	25	26	A	22	24	29	32	35	38	38	38	39	39	39	40	39	38	35	31	39	35	32.8	40.0
9-Jun-07	33	33	26	26	A	22	25	28	32	35	39	41	43	43	42	42	41	40	36	36	39	34	41	41	35.6	43.4
10-Jun-07	39	38	37	A	34	30	27	25	24	29	36	38	39	36	42	43	44	43	40	38	33	33	31	36	35.6	44.1
11-Jun-07	36	31	A	27	23	19	21	27	31	34	37	39	40	41	42	42	43	42	37	33	29	33	32	30	33.4	43.0
12-Jun-07	29	29	29	28	27	A	24	25	25	26	28	28	C	C	A	26	25	24	25	24	26	25	23	23	25.9	29.2
13-Jun-07	22	18	19	19	18	A	14	17	22	26	30	31	32	32	34	31	29	30	30	28	25	20	22	19	24.7	33.6
14-Jun-07	19	20	18	19	A	11	8	13	17	23	29	32	35	34	34	33	35	36	36	35	33	31	26	21	25.9	36.3
15-Jun-07	17	14	14	A	10	8	9	16	22	30	34	37	36	35	35	36	35	35	28	30	28	26	19	18	24.8	36.6
16-Jun-07	16	14	A	19	19	15	21	23	23	24	27	30	30	28	31	30	30	29	31	29	27	23	17	9	23.7	30.5
17-Jun-07	11	A	9	12	12	11	11	13	16	24	30	34	34	35	37	39	38	35	32	33	31	20	7	9	23.2	38.6
18-Jun-07	A	6	6	12	14	15	14	20	26	28	34	35	35	33	28	25	27	28	29	30	28	25	24	A	23.8	35.3
19-Jun-07	21	21	20	20	17	14	16	15	25	26	C	C	A	M	34	34	31	33	35	28	29	26	24	25	24.7	35.3
20-Jun-07	26	24	21	21	16	A	15	12	16	17	23	26	30	34	33	34	36	35	34	31	29	27	25	23	25.5	35.9
21-Jun-07	23	22	22	20	A	19	20	19	22	29	30	32	37	39	39	39	40	40	40	38	33	31	29	22	29.8	40.4
22-Jun-07	26	19	19	11	10	A	15	19	26	32	35	42	46	40	37	47	47	48	49	47	45	38	38	35	33.5	48.8
23-Jun-07	32	30	27	25	A	26	26	31	34	35	35	35	34	35	35	34	34	34	35	33	31	28	27	26	31.3	35.1
24-Jun-07	25	23	19	A	16	19	23	25	29	31	33	35	37	39	39	36	29	34	32	32	28	17	16	15	27.5	39.2
25-Jun-07	16	13	A	17	18	12	12	17	20	22	29	32	35	36	36	33	35	33	32	30	25	28	26	25	25.2	36.3
26-Jun-07	23	A	19	16	16	15	18	23	26	31	34	36	36	36	37	38	39	40	40	39	35	30	29	31	29.9	40.3
27-Jun-07	A	32	30	27	25	23	23	P	31	36	35	C	C	45	48	48	48	43	39	39	41	42	38	34	36.3	48.0
28-Jun-07	37	36	34	29	26	A	26	32	31	32	32	36	38	41	40	40	41	40	26	26	38	33	29	27	33.5	41.0
29-Jun-07	33	28	21	19	A	11	14	20	28	34	41	40	42	41	42	42	32	33	33	37	36	34	34	34	31.8	42.4
30-Jun-07	33	31	30	A	26	21	19	19	23	24	25	27	27	27	27	27	27	26	27	28	27	25	24	26	25.9	33.2
Hourly Avg	26.3	24.1	22.9	20.7	19.8	17.9	19.0	21.7	25.6	29.5	35.0	36.9	38.8	38.9	38.8	38.9	38.5	38.3	36.7	35.5	33.5	30.7	28.2	27.2		
Hourly Max	39.5	38.3	37.4	34.7	34.5	34.1	32.0	39.6	47.0	49.7	54.0	56.6	58.6	60.7	61.4	61.8	65.8	67.1	61.9	53.1	44.6	45.9	41.5	43.9		

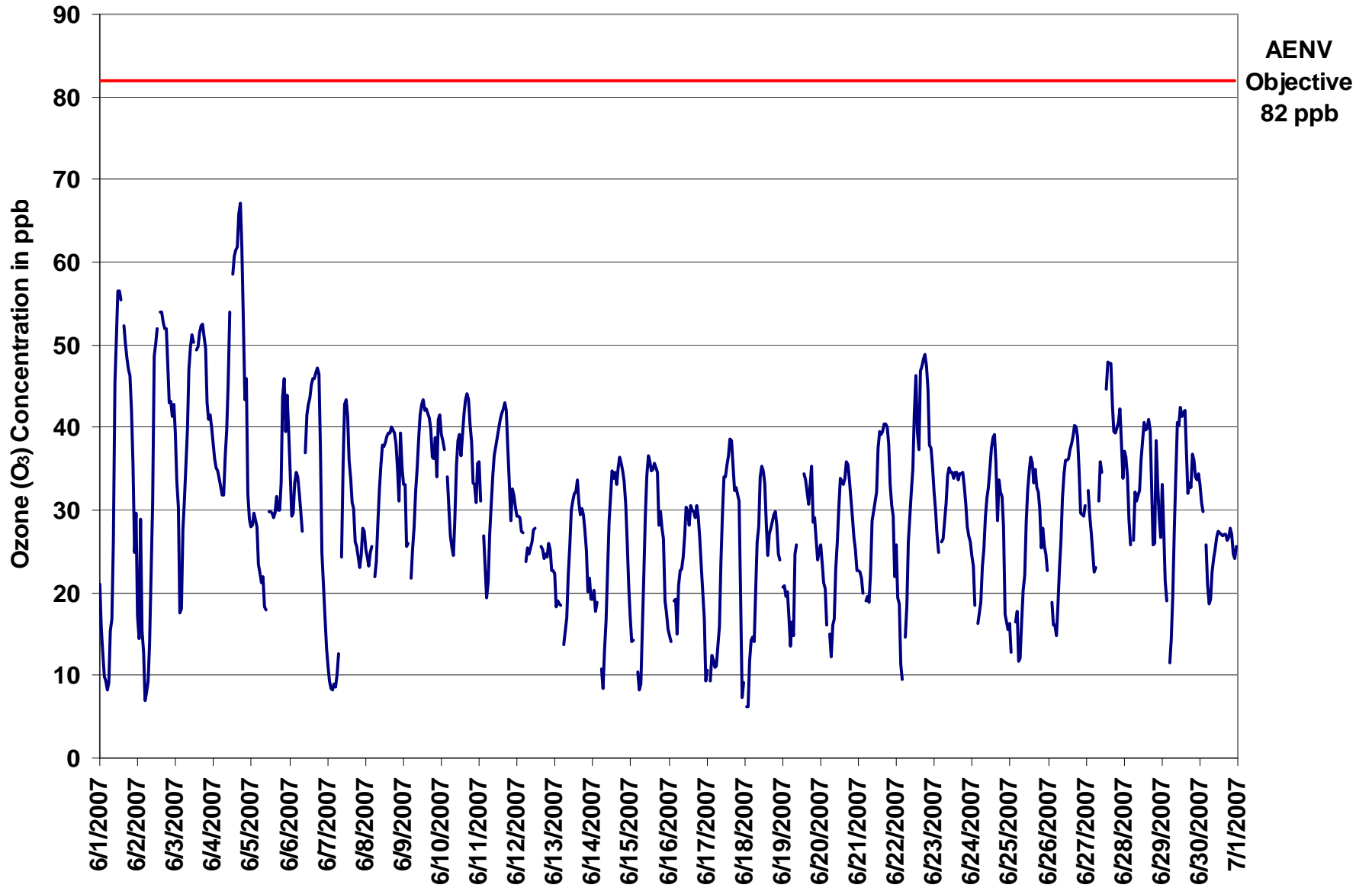


Figure 7. PASZA - Henry Pirker Ozone 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

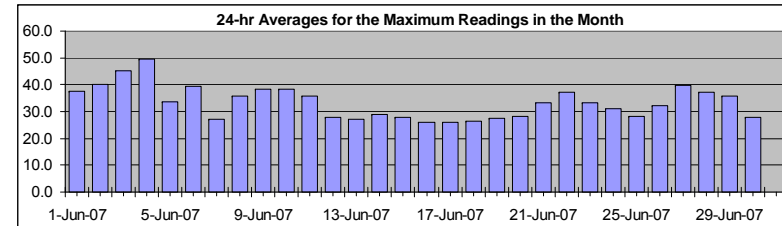
**Ozone (O<sub>3</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	72.9	ppb	4-Jun	17:00 18:00
Maximum 24-hr Value:	49.6	ppb	4-Jun	

AIC Time:	32 hrs	Operational Time:	680 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	99.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	60.2	51.8	39.7	33.4	26.6	15.3	10.8	33.4 ppb	33.4 ppb



**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-07	27	20	19	14	12	10	14	19	23	37	56	59	60	59	A	55	53	51	50	60	53	43	32	37	37.4	59.9
2-Jun-07	35	29	34	21	24	9	13	11	23	46	54	54	59	A	56	56	55	54	54	52	48	46	45	45	40.1	59.5
3-Jun-07	43	35	35	30	28	29	37	46	51	52	53	52	A	51	52	53	54	54	53	52	49	43	43	41	45.1	54.0
4-Jun-07	39	38	37	36	35	34	34	39	42	51	58	A	61	63	63	64	71	73	66	57	51	51	41	38	49.6	72.9
5-Jun-07	32	31	34	30	27	25	24	26	24	25	A	32	32	31	32	32	35	32	33	45	47	49	46	46	33.5	48.6
6-Jun-07	45	32	31	36	36	36	34	33	30	A	40	44	45	46	48	49	49	49	49	49	45	34	24	18	39.3	49.3
7-Jun-07	16	13	14	13	11	10	11	15	A	32	41	45	45	44	38	38	34	32	30	29	26	27	29	29	27.1	45.4
8-Jun-07	27	26	26	26	28	A	25	27	34	35	39	39	40	41	41	42	42	42	42	42	38	37	42	41	35.7	42.3
9-Jun-07	37	37	30	29	A	26	28	31	34	37	42	44	44	45	44	44	43	42	38	40	42	39	44	44	38.5	44.8
10-Jun-07	41	40	38	A	36	32	29	27	27	35	39	40	43	41	45	46	46	46	45	41	36	35	33	39	38.2	46.2
11-Jun-07	38	34	A	30	25	24	26	30	33	36	38	41	42	43	43	44	45	45	42	35	31	34	33	32	35.9	44.7
12-Jun-07	31	30	30	29	28	A	26	28	27	29	29	29	C	C	A	27	28	26	27	26	27	27	25	24	27.7	30.9
13-Jun-07	24	21	21	20	20	A	15	21	24	29	31	32	33	34	36	35	32	32	32	30	29	23	24	23	27.1	35.6
14-Jun-07	22	23	22	21	A	13	10	16	19	27	33	34	36	36	38	36	37	38	38	38	37	34	30	25	28.9	38.4
15-Jun-07	21	16	16	A	12	10	13	20	28	34	36	38	37	36	37	37	38	36	33	32	31	30	23	20	27.7	38.5
16-Jun-07	19	15	A	21	22	20	22	24	24	26	29	32	32	30	32	32	32	30	32	32	29	27	23	12	26.1	32.4
17-Jun-07	13	A	12	13	13	13	12	16	18	27	33	37	37	38	38	40	40	39	34	34	35	30	11	14	26.1	40.0
18-Jun-07	A	9	10	16	15	17	17	29	29	33	35	36	37	36	33	28	29	29	31	32	30	26	26	A	26.5	36.7
19-Jun-07	22	22	22	23	21	17	20	24	28	28	C	C	A	M	36	35	34	38	38	31	31	29	26	27	27.5	38.4
20-Jun-07	28	27	23	23	20	A	17	15	17	20	27	30	34	36	36	36	37	38	36	35	33	30	29	25	28.2	37.6
21-Jun-07	24	24	24	22	A	25	27	26	27	32	33	38	40	42	41	42	42	43	42	40	37	35	34	27	33.3	42.7
22-Jun-07	28	23	26	15	14	A	19	24	31	34	39	47	48	47	42	50	49	50	50	49	48	43	41	38	37.1	50.1
23-Jun-07	35	32	28	27	A	28	29	33	36	37	36	36	35	36	36	35	36	35	36	34	33	32	28	29	33.2	37.3
24-Jun-07	27	26	24	A	21	23	27	27	31	33	34	38	39	40	40	40	33	37	39	36	32	26	19	18	30.9	40.4
25-Jun-07	19	16	A	20	20	16	16	20	22	26	32	34	36	38	38	37	37	37	34	32	30	30	27	29	28.1	37.8
26-Jun-07	25	A	21	18	18	19	23	25	29	34	36	38	37	37	39	39	40	42	43	40	39	33	31	32	32.1	42.8
27-Jun-07	A	33	31	29	26	25	25	P	34	38	38	C	C	47	53	51	55	47	42	48	47	46	42	38	39.8	55.5
28-Jun-07	39	40	37	37	31	A	33	35	33	34	33	38	41	43	43	42	44	43	37	37	41	36	33	33	37.4	43.5
29-Jun-07	35	32	26	23	A	16	22	30	32	41	43	43	44	44	44	44	41	37	42	40	38	36	36	36	35.8	44.1
30-Jun-07	35	33	32	A	29	25	21	21	25	26	27	28	29	28	28	28	29	28	29	30	29	27	26	29	27.7	35.2
Hourly Avg	29.5	27.0	26.0	23.9	22.9	21.0	22.3	25.4	28.8	33.6	38.1	39.3	41.1	41.2	41.1	41.2	41.3	40.9	40.0	39.2	37.3	34.6	31.6	30.7		
Hourly Max	45.0	39.5	38.4	36.6	36.4	35.9	37.1	46.3	51.1	51.7	57.8	59.3	61.4	62.5	63.2	63.6	71.2	72.9	66.3	59.9	52.9	50.8	45.7	45.9		

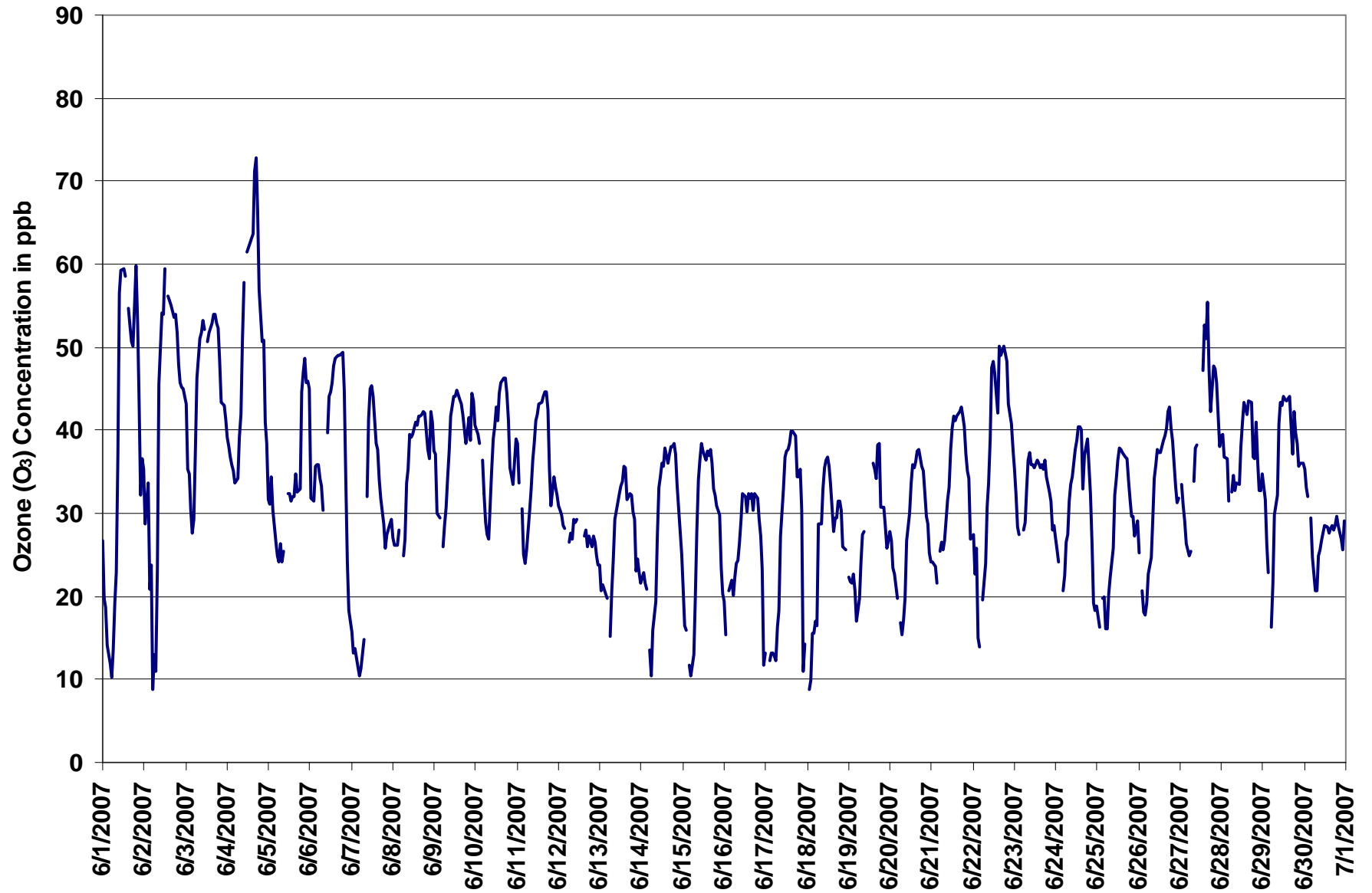
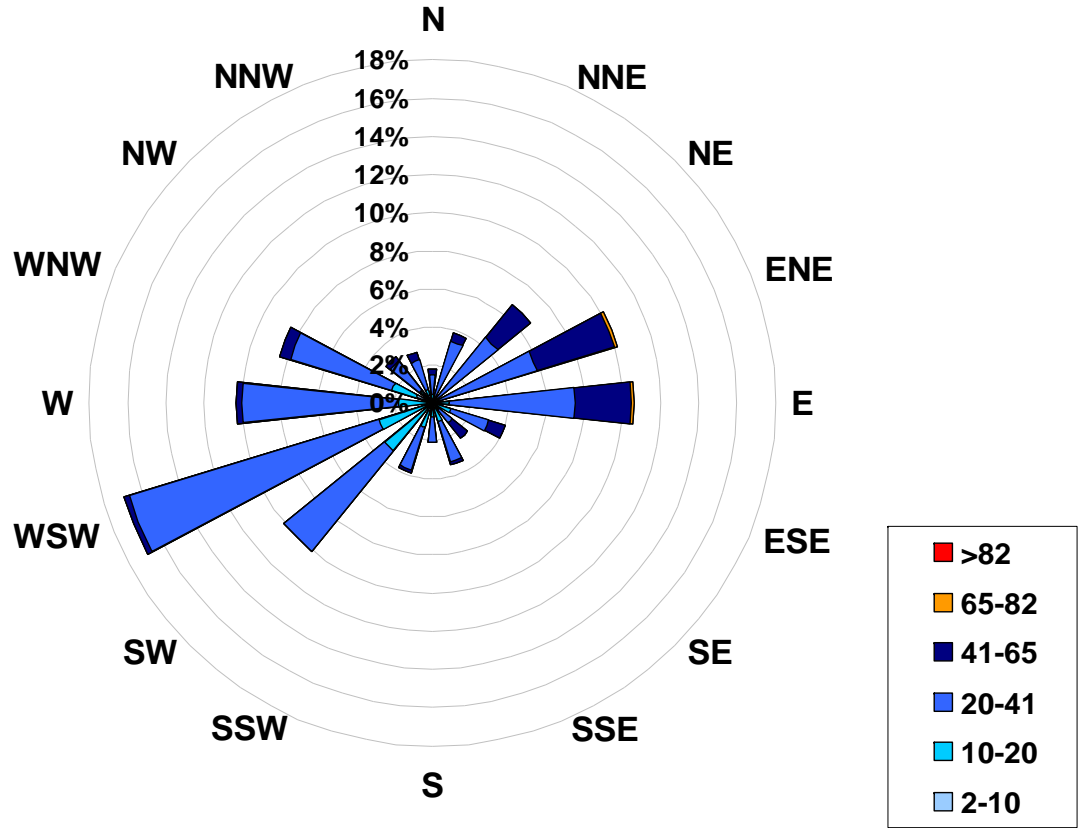


Figure 8. PASZA - Henry Pirker Ozone Instantaneous (30 Second) Maximum Value Monthly Trend



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



**Calms: 0%**

Frequency Distribution of O <sub>3</sub> in ppb			
Range		Frequency (hrs)	
2.0	< 10	22	
10	to 20	100	
20	to 41	459	
41	to 65	97	
65	to 82	2	
	> 82	0	
Total Non-Zero Values			680

# PASZA - Henry Pirkler - Ozone Eight Hour Average Summary

Station: Henry Pirkler  
Station Owner: PASZA

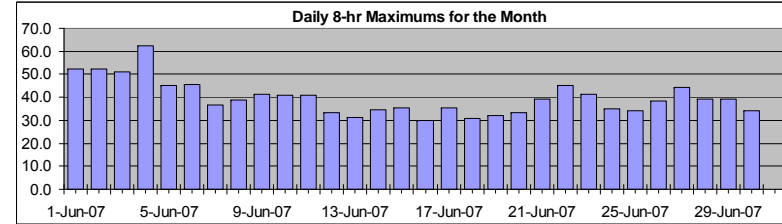
## EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O<sub>3</sub>)

Monitoring Dates: June 1, 2007 to July 1, 2007

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	62.5 ppb 4-Jun 18:00 19:00



Percentile	99	95	75	50	25	5	1
	53.9	45.7	36.0	30.1	24.0	15.5	10.9

### Status Flag Characters

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

### Day Mountain Standard Time

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily Maximum	
1-Jun-07	42	38	34	29	24	19	16	13	12	13	18	23	29	35	39	44	49	52	52	51	49	46	43	40	52.3	
2-Jun-07	36	32	30	26	22	19	17	14	14	16	18	23	28	30	37	43	49	52	52	52	51	50	48	47	52.4	
3-Jun-07	45	43	40	36	33	31	30	30	31	33	35	39	42	45	48	50	51	51	51	51	50	49	48	46	51.0	
4-Jun-07	45	43	41	39	38	36	35	35	35	36	38	39	43	47	51	54	58	61	62	61	59	58	54	50	62.5	
5-Jun-07	45	40	36	33	31	28	26	25	24	23	22	22	23	24	25	26	28	30	30	30	32	34	35	37	45.0	
6-Jun-07	38	38	38	38	37	35	35	33	31	32	33	34	35	36	38	40	43	44	45	45	45	42	39	35	45.4	
7-Jun-07	31	26	21	16	13	11	10	10	9	12	15	20	25	30	34	37	36	37	36	33	31	29	28	27	36.7	
8-Jun-07	26	26	25	25	25	26	25	24	25	26	28	29	31	32	34	36	37	38	39	39	39	38	38	37	38.9	
9-Jun-07	36	36	34	32	32	31	29	28	27	28	30	32	33	36	38	40	41	41	41	41	40	39	39	39	41.5	
10-Jun-07	38	38	38	39	38	37	35	33	31	30	29	31	31	32	34	36	38	40	41	41	41	40	40	38	37	40.9
11-Jun-07	36	35	34	32	31	29	28	26	26	26	27	29	31	34	36	38	40	41	41	40	39	38	36	35	40.7	
12-Jun-07	33	32	31	30	30	29	28	27	27	26	26	26	N	N	N	N	N	N	N	N	N	25	25	24	33.2	
13-Jun-07	24	23	23	22	21	20	19	18	18	19	21	23	25	25	28	30	31	31	31	31	30	28	27	25	31.2	
14-Jun-07	24	23	21	20	20	18	16	15	15	15	17	19	21	24	27	29	32	34	34	35	35	34	33	32	34.8	
15-Jun-07	29	27	24	22	19	16	13	13	13	16	18	21	24	27	30	33	35	35	34	34	34	33	32	30	27	35.2
16-Jun-07	25	22	21	20	19	17	17	18	19	21	21	23	24	26	27	28	29	29	30	30	29	29	27	24	29.8	
17-Jun-07	22	21	18	15	13	12	11	11	12	14	16	19	22	25	28	31	34	35	36	35	35	33	29	26	35.6	
18-Jun-07	24	20	16	13	11	10	11	12	14	17	20	23	26	28	30	31	31	31	30	29	29	27	27	27	30.7	
19-Jun-07	26	25	24	23	21	19	18	18	18	19	N	N	N	N	N	N	N	N	N	N	32	31	30	29	32.1	
20-Jun-07	28	27	25	24	23	22	21	19	18	17	17	18	20	22	24	27	29	31	33	33	33	32	31	30	33.4	
21-Jun-07	28	27	25	24	23	22	21	21	21	21	23	24	26	29	31	34	36	37	39	39	39	38	36	34	39.3	
22-Jun-07	32	30	27	24	21	19	17	17	17	19	21	25	31	32	35	38	41	43	45	45	45	45	45	43	45.2	
23-Jun-07	41	39	36	34	32	30	29	28	29	29	30	32	32	33	34	34	34	34	34	34	34	34	33	32	31	41.5
24-Jun-07	30	28	26	25	23	22	22	21	22	23	25	27	29	32	34	35	35	35	35	35	35	33	31	28	25	35.1
25-Jun-07	24	21	20	18	16	15	15	15	15	17	18	20	22	25	28	30	32	34	34	34	34	33	32	30	29	34.1
26-Jun-07	28	27	25	23	22	20	19	19	19	21	23	25	28	30	33	34	36	37	38	38	38	37	36	35	35	38.2
27-Jun-07	35	34	32	30	29	28	27	N	27	28	28	N	N	N	N	N	N	N	N	44	44	43	42	41	44.2	
28-Jun-07	39	38	38	36	35	33	32	32	31	30	30	31	33	34	35	36	37	38	38	38	36	36	35	34	32	39.2
29-Jun-07	31	30	29	29	27	24	22	21	20	21	24	27	29	33	36	39	39	39	38	38	37	36	35	34	39.3	
30-Jun-07	34	34	34	33	32	30	28	26	24	23	22	23	24	25	26	26	27	27	27	27	27	27	26	26	26	34.3

Hourly Max	45.1	42.8	40.6	38.7	37.9	37.4	35.4	34.8	35.0	36.1	38.4	39.3	42.5	46.6	50.9	54.5	58.2	61.3	62.5	61.3	59.4	57.6	53.9	49.8
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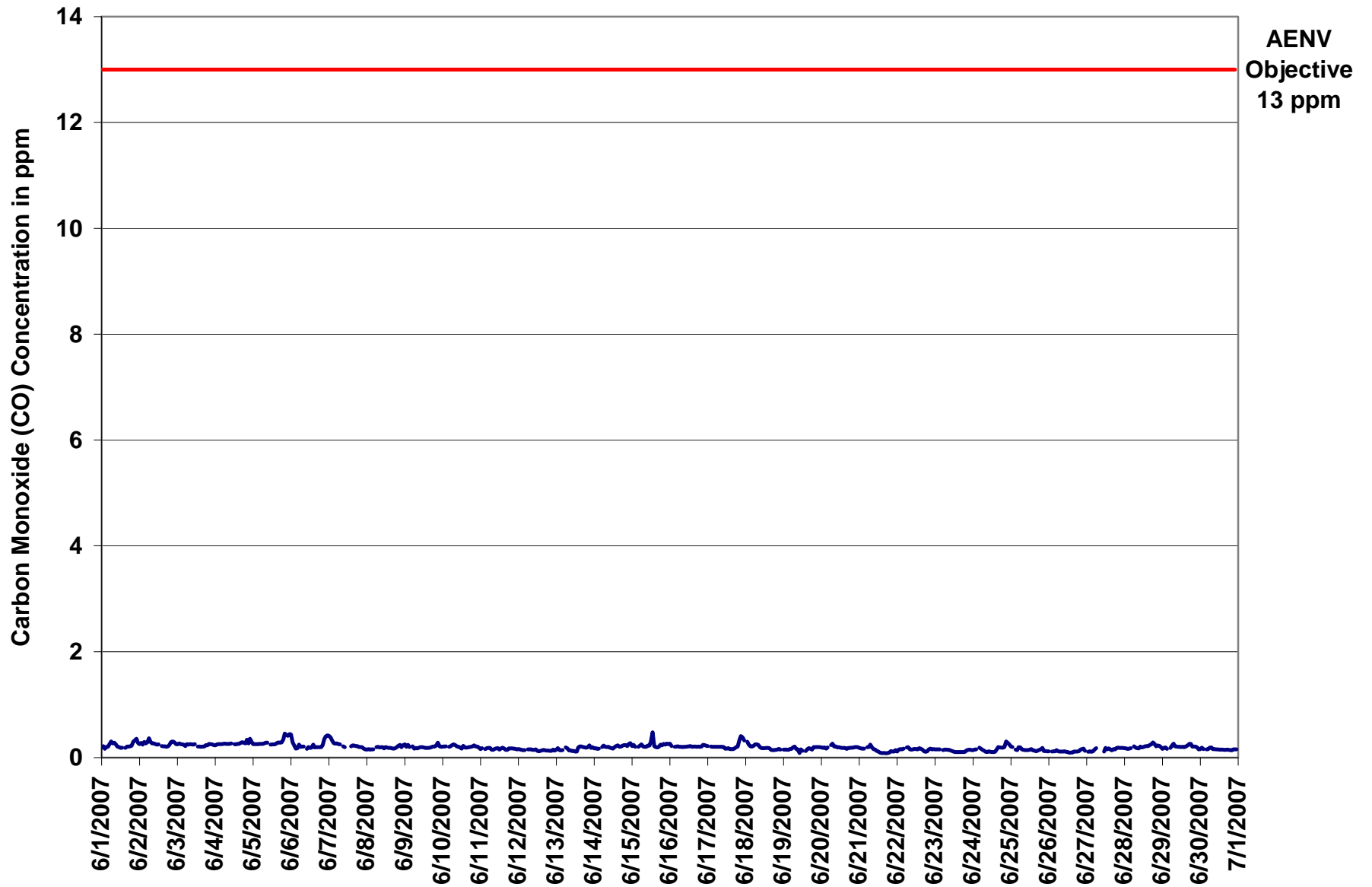


Figure 9. PASZA - Henry Pirker Carbon Monoxide 1-hr Average Monthly Trend



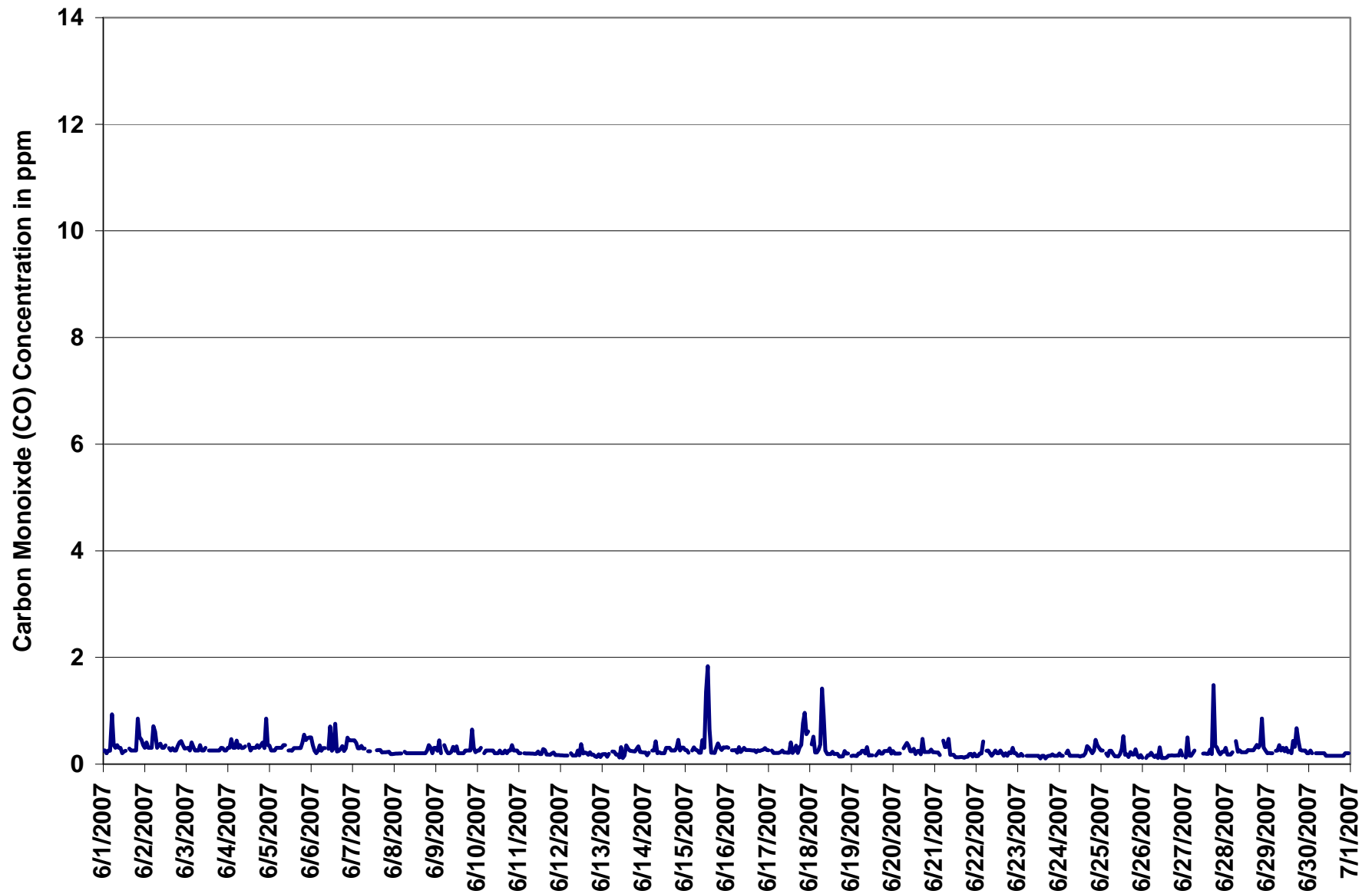
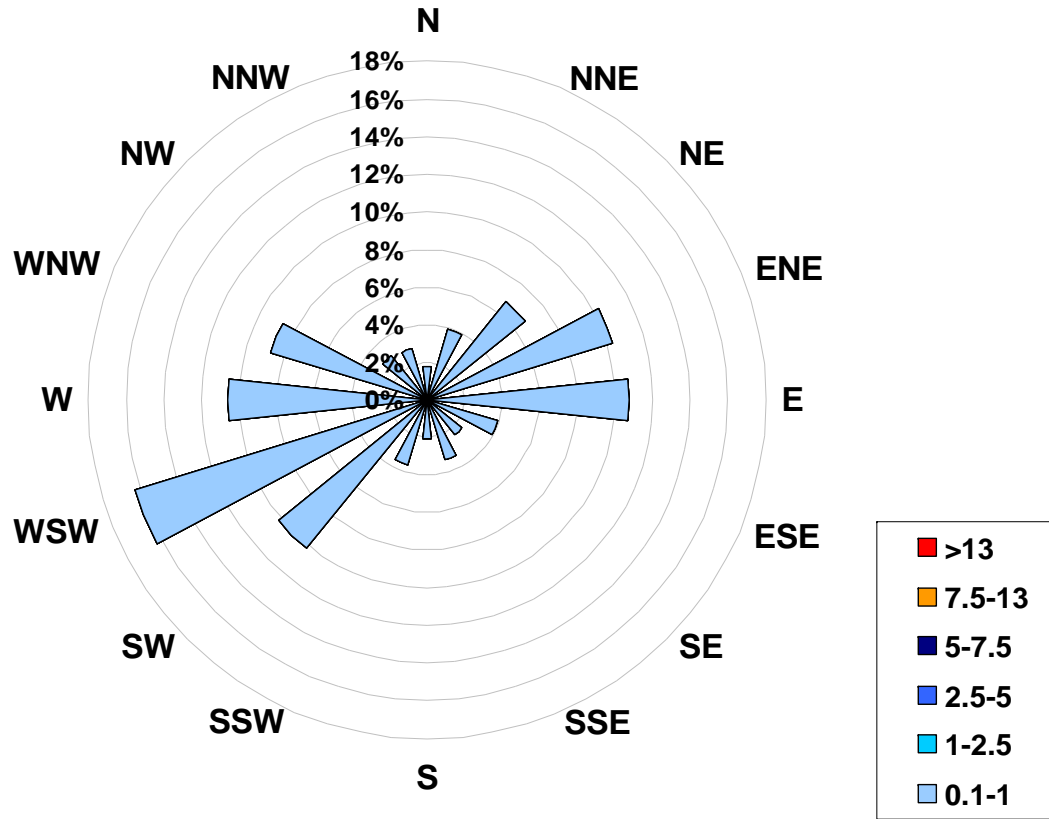


Figure 10. PASZA - Henry Pirker Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of CO in ppm			Frequency (hrs)
Range			
0.1	<	1	682
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			682





# PASZA - Henry Pirker - Total Hydrocarbons Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

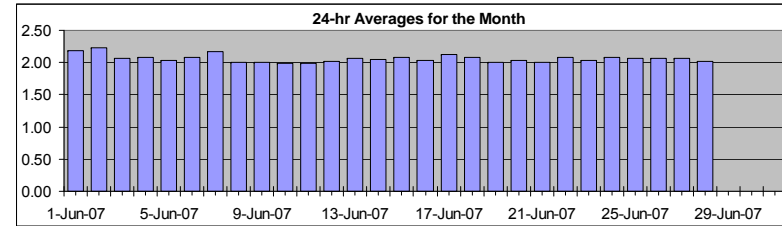
## Total Hydrocarbons (THC)

Monitoring Dates: June 1, 2007 to July 1, 2007

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

Maximum 1-hr Average:	2.8	ppm	2-Jun	6:00 7:00
Maximum 24-hr Value:	2.2	ppm	2-Jun	

AIC Time:	30 hrs	Operational Time:	656 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	95.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	2.3	2.1	2.0	2.0	2.0	1.9	2.1 ppm	2.0 ppm



### Status Flag Characters

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

Day	Mountain Standard Time																								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-Jun-07	2.2	2.2	2.3	2.5	2.5	2.5	2.6	2.3	2.3	2.2	2.1	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.18	2.57	
2-Jun-07	2.3	2.3	2.3	2.6	2.6	2.7	2.8	2.7	2.4	2.2	2.1	2.1	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.0	2.23	2.76	
3-Jun-07	2.1	2.2	2.2	2.4	2.4	2.1	2.1	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.07	2.40	
4-Jun-07	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.4	2.3	2.08	2.38	
5-Jun-07	2.2	2.2	2.2	2.1	2.1	2.1	2.0	2.1	2.1	2.0	A	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	2.0	2.0	2.1	2.1	2.03	2.20		
6-Jun-07	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.2	2.0	2.0	2.2	2.5	2.5	2.08	2.51	
7-Jun-07	2.6	2.6	2.6	2.6	2.7	2.3	2.2	2.2	A	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.17	2.68	
8-Jun-07	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.0	2.0	2.00	2.20	
9-Jun-07	2.1	2.0	2.1	2.1	A	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.01	2.09	
10-Jun-07	2.0	2.0	2.0	A	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	2.0	2.0	2.0	1.9	1.99	2.13	
11-Jun-07	1.9	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	1.98	2.05	
12-Jun-07	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.02	2.14	
13-Jun-07	2.1	2.2	2.2	2.1	2.1	A	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.06	2.27	
14-Jun-07	2.1	2.1	2.1	2.1	A	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.3	2.04	2.27	
15-Jun-07	2.1	2.2	2.2	A	2.4	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.08	2.38	
16-Jun-07	2.1	2.1	A	2.1	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.04	2.19	
17-Jun-07	2.2	A	2.4	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.4	2.3	2.12	2.41	
18-Jun-07	A	2.7	2.6	2.2	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.1	A	2.08	2.73	
19-Jun-07	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.1	2.0	2.0	2.0	2.0	C	C	A	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	2.0	2.01	2.14	
20-Jun-07	2.0	2.0	2.0	2.1	2.1	A	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.03	2.13	
21-Jun-07	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.00	2.09	
22-Jun-07	2.1	2.2	2.2	2.4	2.4	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	2.0	2.1	2.0	2.0	2.0	2.08	2.41	
23-Jun-07	2.2	2.1	2.1	2.1	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.03	2.17	
24-Jun-07	2.1	2.2	2.3	A	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.2	2.08	2.26	
25-Jun-07	2.2	2.3	A	2.2	2.1	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.07	2.34	
26-Jun-07	2.1	A	2.3	2.3	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.07	2.34	
27-Jun-07	A	2.0	2.0	2.1	2.1	2.1	2.1	P	2.2	2.2	2.2	2.2	2.1	C	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.06	2.23	
28-Jun-07	2.0	2.0	2.1	2.1	2.1	A	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.02	2.10	
29-Jun-07	1.9	2.0	2.0	2.2	A	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	N	N	N	N	N	N	N	2.19	
30-Jun-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	0.00
Hourly Avg	2.11	2.15	2.16	2.18	2.20	2.17	2.13	2.10	2.07	2.04	2.01	1.99	1.99	1.98	1.99	1.98	1.98	1.98	1.98	1.99	1.99	2.01	2.05	2.09	2.11		
Hourly Max	2.65	2.73	2.57	2.63	2.68	2.70	2.76	2.69	2.44	2.21	2.23	2.17	2.12	2.04	2.27	2.04	2.07	2.05	2.22	2.04	2.11	2.22	2.51	2.46			

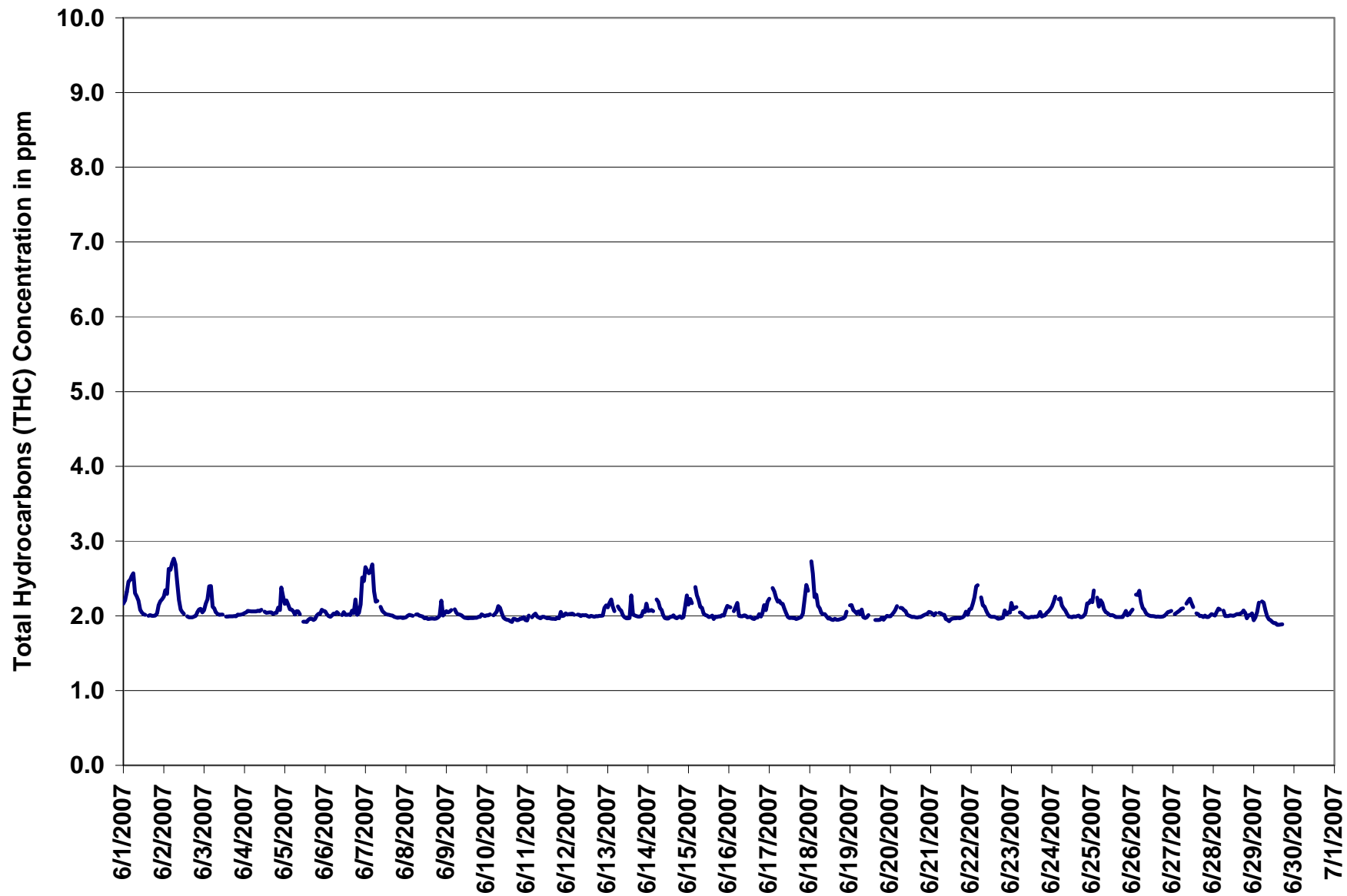


Figure 11. PASZA - Henry Pirker Total Hydrocarbons 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

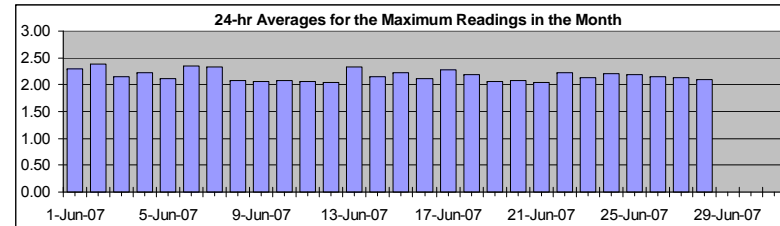
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Total Hydrocarbons (THC)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	5.7	ppm	13-Jun	14:00 15:00
Maximum 24-hr Value:	2.4	ppm	2-Jun	



AIC Time:	30 hrs	Operational Time:	656 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	95.7%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.3	2.7	2.2	2.1	2.0	2.0	1.9	2.2 ppm	2.1 ppm

**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	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-Jun-07	2.3	2.3	2.5	2.6	2.5	2.6	2.7	2.4	2.3	2.3	2.2	2.1	2.1	2.1	A	2.0	2.1	2.0	2.0	2.1	2.2	2.4	2.3	2.4	2.29	2.75	
2-Jun-07	2.5	2.5	3.1	3.1	2.9	3.0	3.0	2.8	2.7	2.4	2.1	2.1	2.1	A	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.2	2.1	2.39	3.10	
3-Jun-07	2.1	2.7	2.6	2.6	2.7	2.2	2.2	2.1	2.1	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.15	2.69	
4-Jun-07	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.2	2.0	2.1	2.1	2.1	2.1	2.2	2.3	2.3	2.5	3.4	2.9	2.22	3.38	
5-Jun-07	2.2	2.5	2.3	2.2	2.1	2.1	2.0	2.5	2.2	2.2	A	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.2	2.1	2.1	2.1	2.1	2.12	2.47	
6-Jun-07	2.1	2.1	2.0	2.0	2.0	2.1	2.0	2.1	2.1	A	2.0	2.3	2.1	2.1	2.3	2.0	2.7	2.2	5.0	2.0	2.1	2.5	3.2	3.0	2.34	4.99	
7-Jun-07	3.3	3.3	3.0	2.9	3.0	2.6	2.2	2.3	A	2.3	2.2	2.2	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.33	3.34	
8-Jun-07	2.0	2.0	2.1	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.9	2.2	2.2	2.07	2.92	
9-Jun-07	2.1	2.1	2.1	2.5	A	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.06	2.51	
10-Jun-07	2.0	2.0	2.1	A	2.0	2.0	2.1	2.3	2.3	2.2	2.0	2.0	2.2	2.0	2.0	2.0	2.3	2.1	2.0	2.0	2.0	2.1	2.0	2.0	2.07	2.31	
11-Jun-07	2.0	2.3	A	2.0	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.3	2.1	2.0	2.1	2.06	2.32	
12-Jun-07	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.04	2.21	
13-Jun-07	2.2	2.4	2.6	2.2	2.1	A	2.2	2.1	2.2	2.0	2.0	2.0	2.0	2.0	5.7	2.0	2.0	2.0	2.0	2.0	2.1	2.3	2.1	3.1	2.33	5.65	
14-Jun-07	2.1	2.3	2.2	2.1	A	2.3	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.2	2.0	2.0	2.0	2.1	2.0	2.0	2.6	3.0	2.16	3.02	
15-Jun-07	2.6	2.6	2.2	A	2.5	2.4	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.1	2.7	2.0	2.2	2.0	2.1	2.1	2.1	2.0	2.3	2.4	2.23	2.72	
16-Jun-07	2.2	2.1	A	2.1	2.2	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.1	2.2	2.0	2.3	2.5	2.1	2.3	2.12	2.49	
17-Jun-07	2.3	A	3.0	2.4	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.2	2.4	2.7	3.4	2.28	3.44	
18-Jun-07	A	3.5	2.9	2.4	2.4	2.2	2.1	2.2	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	A		2.19	3.55	
19-Jun-07	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.0	2.1	2.0	2.0	C	C	A	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.06	2.20	
20-Jun-07	2.0	2.1	2.1	2.1	2.5	A	2.1	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.1	2.08	2.49	
21-Jun-07	2.1	2.1	2.0	2.1	A	2.1	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.04	2.26	
22-Jun-07	2.2	2.3	2.5	2.7	2.5	A	2.4	2.2	2.3	2.2	2.1	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.1	2.5	2.4	2.2	2.2	2.22	2.71	
23-Jun-07	2.7	2.5	2.3	2.3	A	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.4	2.0	2.0	2.0	2.1	2.1	2.1	2.13	2.72	
24-Jun-07	2.2	2.4	2.7	A	2.5	2.4	2.2	2.2	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.1	2.3	2.4	2.4	2.20	2.70	
25-Jun-07	2.3	3.0	A	2.4	2.2	2.4	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.3	2.0	2.0	2.1	2.0	2.0	2.2	2.4	2.0	2.0	2.19	3.05	
26-Jun-07	2.2	A	2.8	2.5	2.6	2.3	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.15	2.82	
27-Jun-07	A	2.0	2.2	2.1	2.1	2.1	2.1	P	2.2	2.3	2.3	2.2	2.2	C	2.1	2.1	2.1	2.1	2.0	2.1	2.0	2.1	2.2	2.1	2.13	2.33	
28-Jun-07	2.1	2.1	2.3	2.4	2.2	A	2.2	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.10	2.38	
29-Jun-07	2.0	2.0	2.2	2.4	A	2.3	2.3	2.3	2.0	2.0	2.1	1.9	1.9	1.9	1.9	2.0	2.0	N	N	N	N	N	N	N	N	2.38	
30-Jun-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	0.00
Hourly Avg	2.23	2.36	2.38	2.32	2.33	2.27	2.21	2.17	2.13	2.10	2.07	2.05	2.04	2.02	2.19	2.02	2.07	2.04	2.14	2.06	2.11	2.19	2.25	2.32			
Hourly Max	3.31	3.55	3.10	3.07	3.04	2.99	3.03	2.76	2.71	2.42	2.33	2.34	2.20	2.28	5.65	2.16	2.65	2.39	4.99	2.29	2.49	2.92	3.38	3.44			

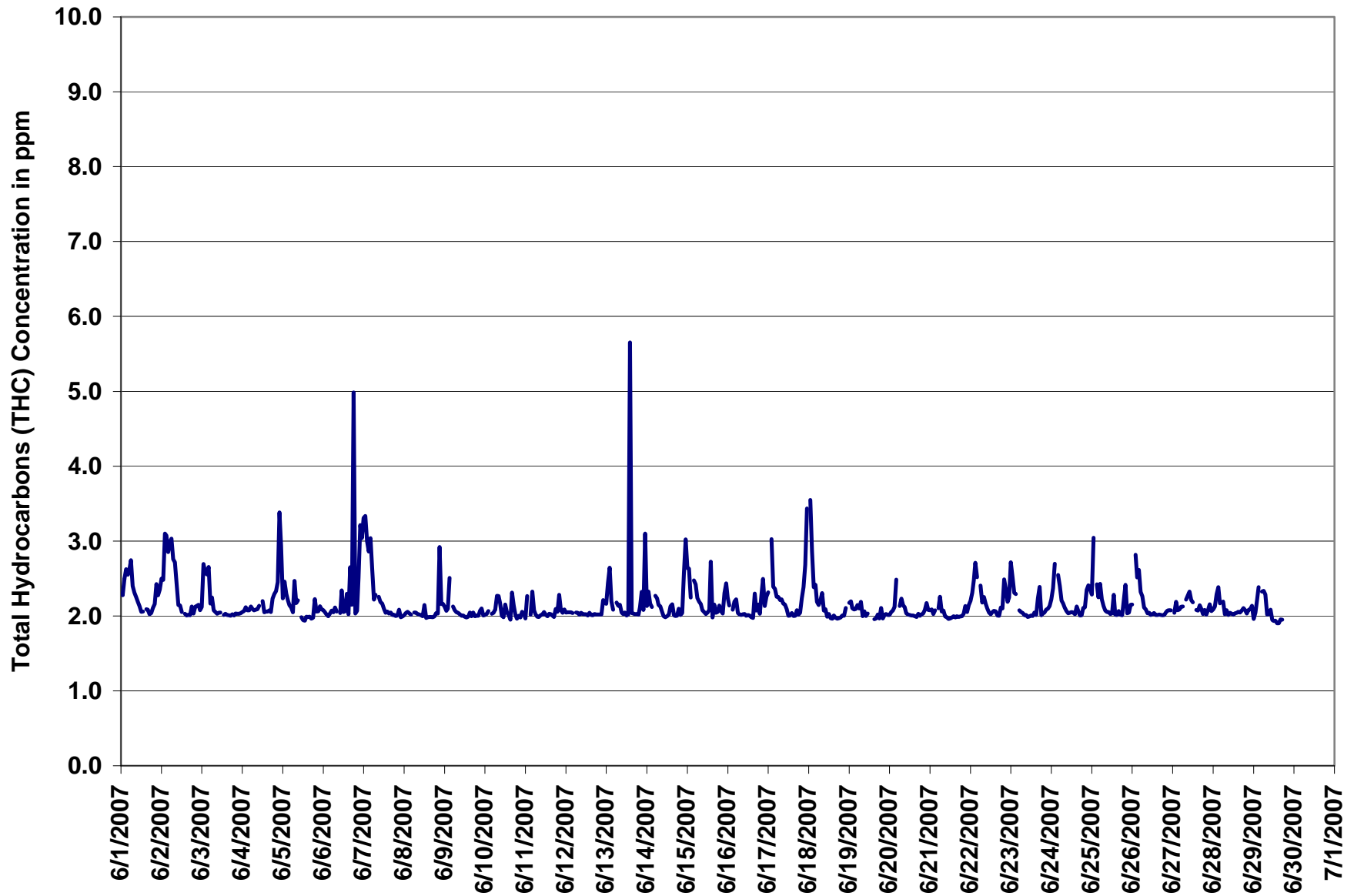
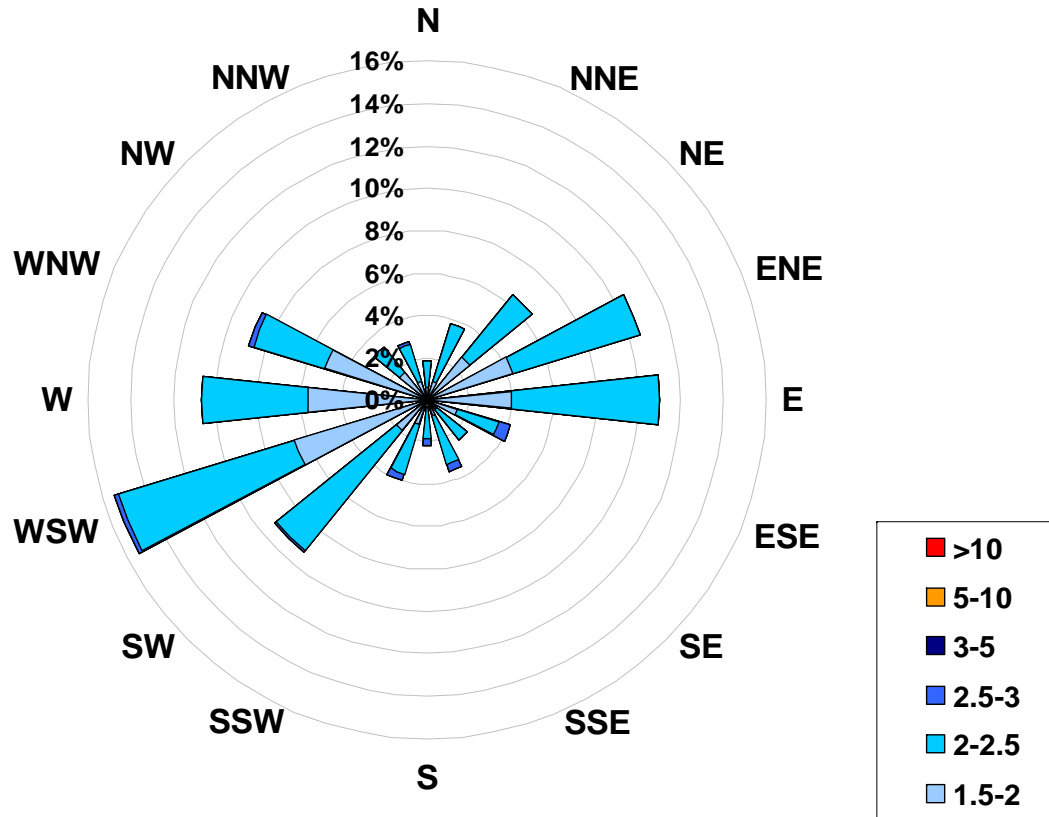


Figure 12. PASZA - Henry Pirker Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	<	2	252
2	to	2.5	389
2.5	to	3	15
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			656

## PASZA - Henry Pirker - Total Reduced Sulphur Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

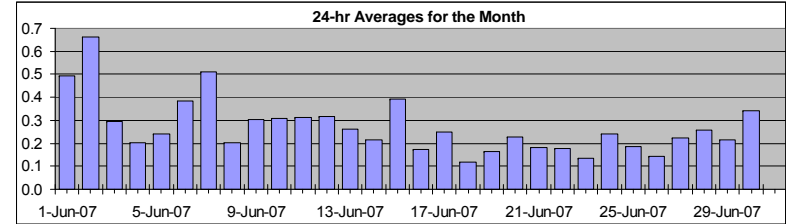
### HOURLY AVERAGE TABLE

Total Reduced Sulphur (TRS)

Monitoring Dates: June 1, 2007 to July 1, 2007

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

Maximum 1-hr Average:	3.8	ppb	2-Jun	5:00 6:00
Maximum 24-hr Value:	0.7	ppb	2-Jun	



AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.3	0.6	0.3	0.2	0.1	0.0	0.0	0.3 ppb	0.2 ppb

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum				
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	0:00	
1-Jun-07	0:00	1:00	0	0	0	1	2	1	2	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.5	1.9
2-Jun-07	0:00	1:00	1	1	0	1	2	4	2	1	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.7	3.8
3-Jun-07	0:00	1:00	0	0	0	1	1	1	1	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8	
4-Jun-07	0:00	1:00	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
5-Jun-07	0:00	1:00	0	0	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
6-Jun-07	0:00	1:00	0	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	0.6	
7-Jun-07	0:00	1:00	1	1	1	2	2	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.6	
8-Jun-07	0:00	1:00	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
9-Jun-07	0:00	1:00	0	0	1	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	
10-Jun-07	0:00	1:00	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	0.3	0.6	
11-Jun-07	0:00	1:00	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9	
12-Jun-07	0:00	1:00	0	1	1	1	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.6	
13-Jun-07	0:00	1:00	1	0	1	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7	
14-Jun-07	0:00	1:00	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	0.2	0.5	
15-Jun-07	0:00	1:00	1	1	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0	
16-Jun-07	0:00	1:00	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	
17-Jun-07	0:00	1:00	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	0.2	0.8	
18-Jun-07	0:00	1:00	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.1	0.7	
19-Jun-07	0:00	1:00	1	0	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
20-Jun-07	0:00	1:00	0	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
21-Jun-07	0:00	1:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
22-Jun-07	0:00	1:00	0	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	0.6	
23-Jun-07	0:00	1:00	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	
24-Jun-07	0:00	1:00	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
25-Jun-07	0:00	1:00	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	0.5	
26-Jun-07	0:00	1:00	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	0.4	
27-Jun-07	0:00	1:00	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	0.2	0.4	
28-Jun-07	0:00	1:00	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	0.6	
29-Jun-07	0:00	1:00	0	0	0	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	
30-Jun-07	0:00	1:00	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
Hourly Avg			0.3	0.4	0.5	0.4	0.6	0.6	0.5	0.4	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	0.3			
Hourly Max			0.7	1.1	1.3	1.6	1.9	3.8	2.5	1.0	0.9	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6			

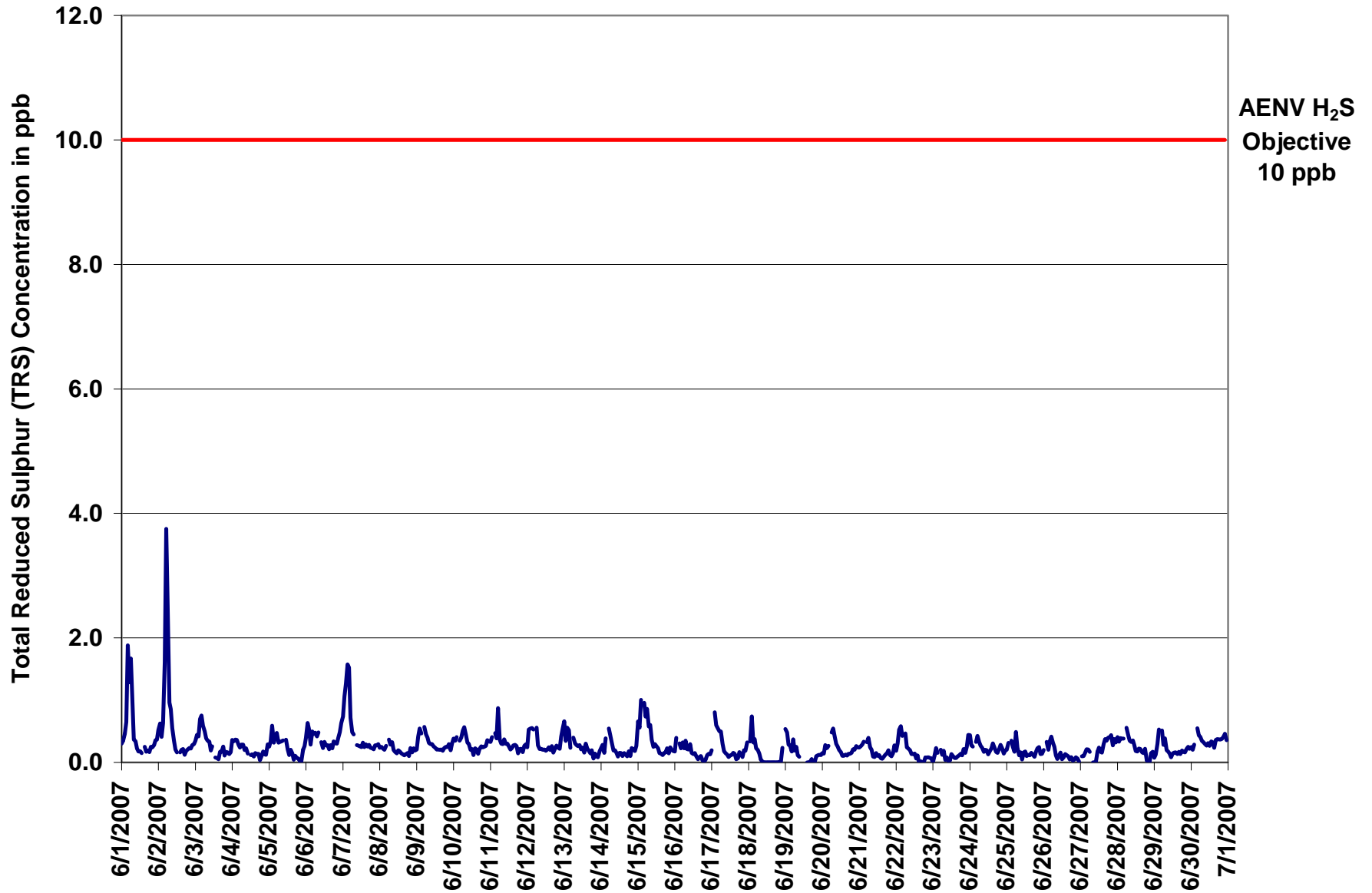


Figure 13. PASZA - Henry Pirker Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

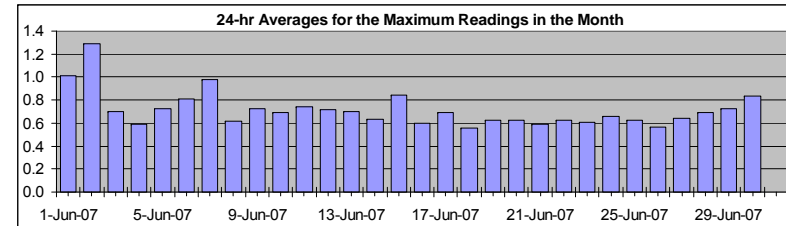
**Total Reduced Sulphur (TRS)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	4.9	ppb	2-Jun	5:00 6:00
Maximum 24-hr Value:	1.3	ppb	2-Jun	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.1	1.2	0.8	0.6	0.5	0.4	0.3	0.7 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-Jun-07	1	1	1	1	4	2	3	2	1	1	1	1	1	1	A	1	1	1	0	1	1	1	1	1	1.0	3.5
2-Jun-07	1	1	1	1	4	5	5	2	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1.3	4.9
3-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	A	0	1	1	1	1	1	1	1	0	1	0.7	1.3	
4-Jun-07	1	1	1	1	1	1	1	1	1	1	1	A	0	1	0	0	1	0	0	0	1	1	1	0.6	0.9	
5-Jun-07	1	1	1	1	1	1	1	1	1	1	A	1	1	0	1	1	0	1	1	1	0	1	1	0.7	1.4	
6-Jun-07	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1	
7-Jun-07	1	2	2	2	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.4	
8-Jun-07	1	1	1	1	1	A	1	1	1	1	0	0	1	1	1	1	1	0	1	1	1	1	1	0.6	0.9	
9-Jun-07	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	1.4	
10-Jun-07	1	1	1	A	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0.7	1.0	
11-Jun-07	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0.7	1.5	
12-Jun-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0.7	1.2	
13-Jun-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1	
14-Jun-07	1	1	0	1	A	1	1	1	1	1	1	0	0	0	1	0	1	0	1	1	0	1	1	0.6	1.2	
15-Jun-07	1	1	2	A	1	1	2	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	0.8	1.6	
16-Jun-07	1	1	A	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	1	0	0	1	1	0.6	0.8	
17-Jun-07	0	A	2	1	1	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	0.7	1.5	
18-Jun-07	A	1	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0.6	1.5
19-Jun-07	1	1	1	1	1	1	1	1	1	0	C	C	C	A	0	0	0	0	0	0	1	1	0	1	0.6	1.2
20-Jun-07	0	0	1	1	1	A	1	1	1	1	1	0	1	1	0	1	1	1	0	1	1	1	1	0.6	1.0	
21-Jun-07	1	1	1	1	A	1	1	1	1	1	0	1	1	1	0	0	0	1	1	1	1	0	1	1	0.6	1.0
22-Jun-07	0	1	1	1	1	A	1	1	1	1	0	1	1	0	1	0	0	0	0	1	1	1	1	0.6	1.0	
23-Jun-07	1	1	1	1	A	1	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0.6	1.1	
24-Jun-07	1	1	1	A	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	1	1	1	0	1	0.7	0.9
25-Jun-07	1	1	A	1	1	1	1	1	1	0	0	1	0	1	1	0	1	1	0	1	1	1	1	0.6	1.0	
26-Jun-07	1	A	1	1	1	1	1	1	1	1	0	0	1	0	1	0	1	0	0	0	1	0	0	0.6	1.0	
27-Jun-07	A	1	1	1	1	1	1	P	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9	
28-Jun-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0.7	1.0	
29-Jun-07	0	1	1	1	A	1	1	1	1	0	0	0	1	1	1	1	2	1	1	1	1	1	1	0.7	1.8	
30-Jun-07	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	
Hourly Avg	0.7	0.8	1.0	1.0	1.2	1.1	1.0	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7			
Hourly Max	1.5	1.6	2.1	2.4	4.1	4.9	4.9	1.9	1.3	1.0	0.8	0.9	0.8	0.9	0.9	0.8	1.8	0.9	0.9	0.9	0.9	1.0	0.9			



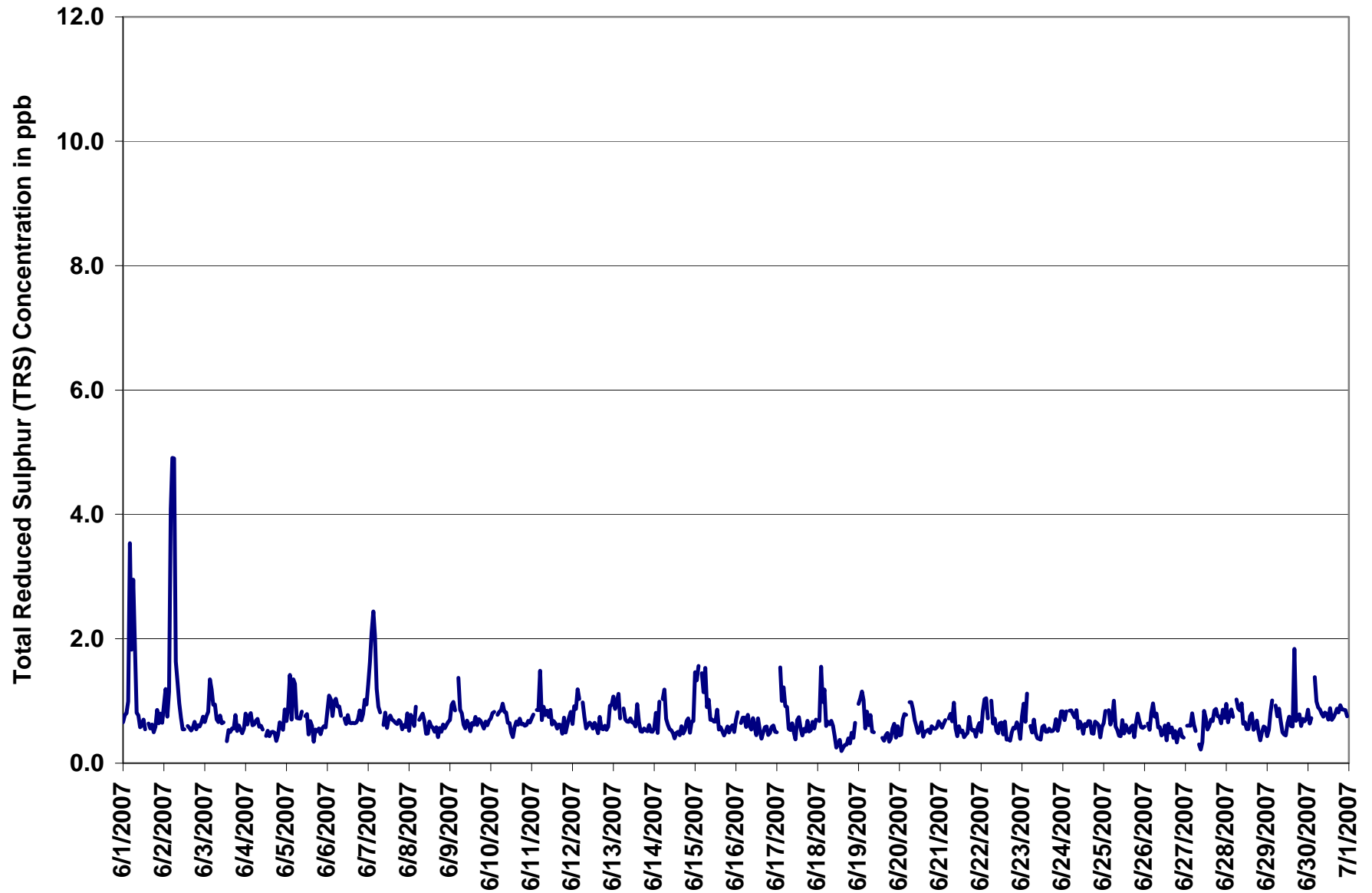
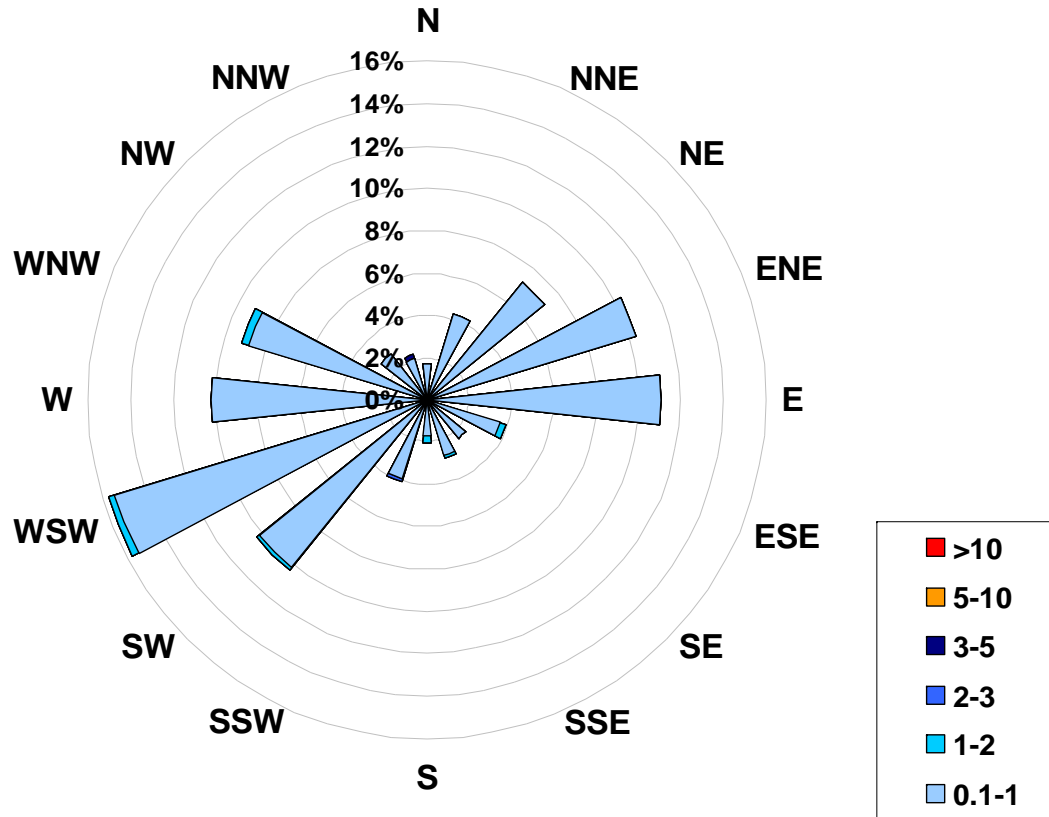


Figure 14. PASZA - Henry Pirker Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of TRS in ppb Range			Frequency (hrs)
0.1	<	1	673
1	to	2	10
2	to	3	1
3	to	5	1
5	to	10	0
	>	10	0
Total Non-Zero Values			685

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

Station: Henry Pirker  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

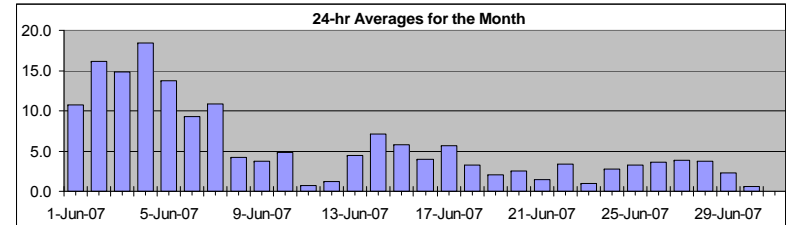
### Particulate Matter (PM<sub>2.5</sub>)

Monitoring Dates: June 1, 2007 to July 1, 2007

Draft Objective Limit: Alberta Environment: 1-hr - µg/m<sup>3</sup> 24-hr 30 µg/m<sup>3</sup>  
 Summary

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	96.9 µg/m <sup>3</sup> 3-Jun 1:00 2:00
Maximum 24-hr Value:	18.4 µg/m <sup>3</sup> 4-Jun

AIC Time:	0 hrs	Operational Time:	703 hrs
Calibration Time:	9 hrs	AMD Operational Uptime:	98.9%
Percentile	99	95	75
	28.9	17.0	7.6
	50	25	5
	3.4	1.3	0.0
	0.0	0.0	0.0
	Average / Median		5.7
	3 µg/m <sup>3</sup>		4.0 µg/m <sup>3</sup>



**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00		
1-Jun-07	15	13	14	9	12	11	15	17	18	15	5	7	7	6	6	7	9	6	9	9	9	11	14	14	10.7	17.9
2-Jun-07	27	19	10	19	15	16	23	20	21	20	15	10	17	11	12	12	21	24	9	9	13	17	16	14	16.1	27.1
3-Jun-07	17	97	24	12	13	11	14	13	11	10	8	10	8	15	5	6	7	9	11	6	15	13	12	12	14.9	96.9
4-Jun-07	13	13	12	15	29	19	14	19	5	20	16	14	16	14	15	16	18	18	17	20	14	6	82	17	18.4	82.0
5-Jun-07	15	15	10	14	11	9	9	8	13	6	2	1	2	5	9	14	13	15	18	1	23	29	34	53	13.8	53.4
6-Jun-07	58	21	3	D	5	14	0	1	3	2	0	0	4	3	6	6	7	7	9	6	10	14	16	19	9.2	57.6
7-Jun-07	23	16	14	11	10	13	13	15	12	10	5	2	7	14	23	22	15	10	9	3	10	0	0	1	10.8	22.9
8-Jun-07	2	1	3	1	0	3	5	5	9	2	0	4	6	0	1	1	2	3	3	6	11	13	10	9	4.2	13.5
9-Jun-07	5	2	2	2	2	1	3	3	4	5	3	2	3	0	1	2	3	5	6	9	11	7	1	7	3.8	10.9
10-Jun-07	9	8	6	6	7	7	9	9	9	4	0	D	0	7	D	0	0	1	10	4	1	0	7	1	4.8	10.0
11-Jun-07	0	1	0	0	0	0	0	D	1	0	0	0	0	0	0	0	0	0	6	4	4	0	1	0	0.7	6.3
12-Jun-07	1	0	0	1	1	0	1	2	2	1	0	2	1	0	1	1	1	2	1	1	2	2	4	2	1.2	4.5
13-Jun-07	3	5	2	2	2	3	7	8	4	0	1	0	3	2	4	10	5	1	4	6	9	11	7	8	4.4	11.2
14-Jun-07	4	4	3	4	5	5	7	8	8	6	0	4	2	4	16	13	8	12	12	17	6	7	4	11	7.1	17.3
15-Jun-07	6	7	6	5	8	9	10	9	1	3	9	9	5	0	8	1	7	11	16	1	1	0	4	3	5.8	15.6
16-Jun-07	8	4	5	1	2	4	2	2	3	1	4	3	6	3	0	5	6	5	3	5	6	7	7	4	4.0	7.7
17-Jun-07	3	2	1	5	4	2	6	7	6	4	0	1	6	D	1	0	3	8	1	4	10	35	12	8	5.6	34.8
18-Jun-07	15	11	8	5	0	5	4	2	4	4	0	0	1	4	2	D	0	0	2	2	1	1	3	1	3.3	15.2
19-Jun-07	2	1	1	1	8	6	4	4	0	0	C	C	C	C	0	0	2	1	1	3	3	2	1	1	2.1	8.0
20-Jun-07	1	2	1	1	1	2	6	6	7	3	2	2	2	2	1	2	1	2	3	2	5	4	2	2	2.5	6.8
21-Jun-07	1	1	0	2	2	1	3	6	4	0	1	0	0	0	1	0	0	0	1	2	3	2	1	2	1.5	6.3
22-Jun-07	2	3	4	5	4	5	4	8	5	2	2	3	8	8	2	1	1	0	0	0	4	2	3	3	3.3	7.7
23-Jun-07	0	1	2	2	1	1	2	1	1	1	0	0	0	0	0	0	0	1	1	1	2	2	2	1	1.0	2.4
24-Jun-07	1	2	2	3	4	4	2	3	1	1	1	1	0	1	2	6	6	2	2	4	4	4	6	5	2.8	6.5
25-Jun-07	3	3	4	2	1	3	4	3	3	4	2	3	2	1	0	2	2	5	5	6	7	3	4	3	3.2	7.0
26-Jun-07	3	3	3	4	5	4	5	5	4	2	2	1	1	1	1	2	3	5	4	5	7	7	7	5	3.6	6.7
27-Jun-07	3	2	2	3	4	5	5	P	C	C	C	C	C	3	6	4	5	5	6	9	5	0	2	1	3.9	8.6
28-Jun-07	0	1	1	2	3	2	2	2	2	4	4	4	5	6	7	6	6	7	12	6	0	0	3	2	3.7	11.7
29-Jun-07	0	1	2	2	1	3	3	4	4	3	3	1	1	1	1	3	10	1	P	0	0	2	3	0	2.3	9.9
30-Jun-07	0	0	0	1	1	2	1	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	1	4	0.6	4.0
Hourly Avg	8.0	8.6	4.8	4.7	5.4	5.8	6.1	6.7	5.8	4.6	3.1	3.2	4.0	4.0	4.6	4.9	5.4	5.7	6.2	5.1	6.5	6.8	8.9	7.1		
Hourly Max	57.6	96.9	24.3	18.5	28.9	18.9	22.6	19.8	20.6	20.2	15.8	14.5	17.0	14.6	22.9	22.1	21.1	23.6	18.2	20.2	22.9	34.8	82.0	53.4		

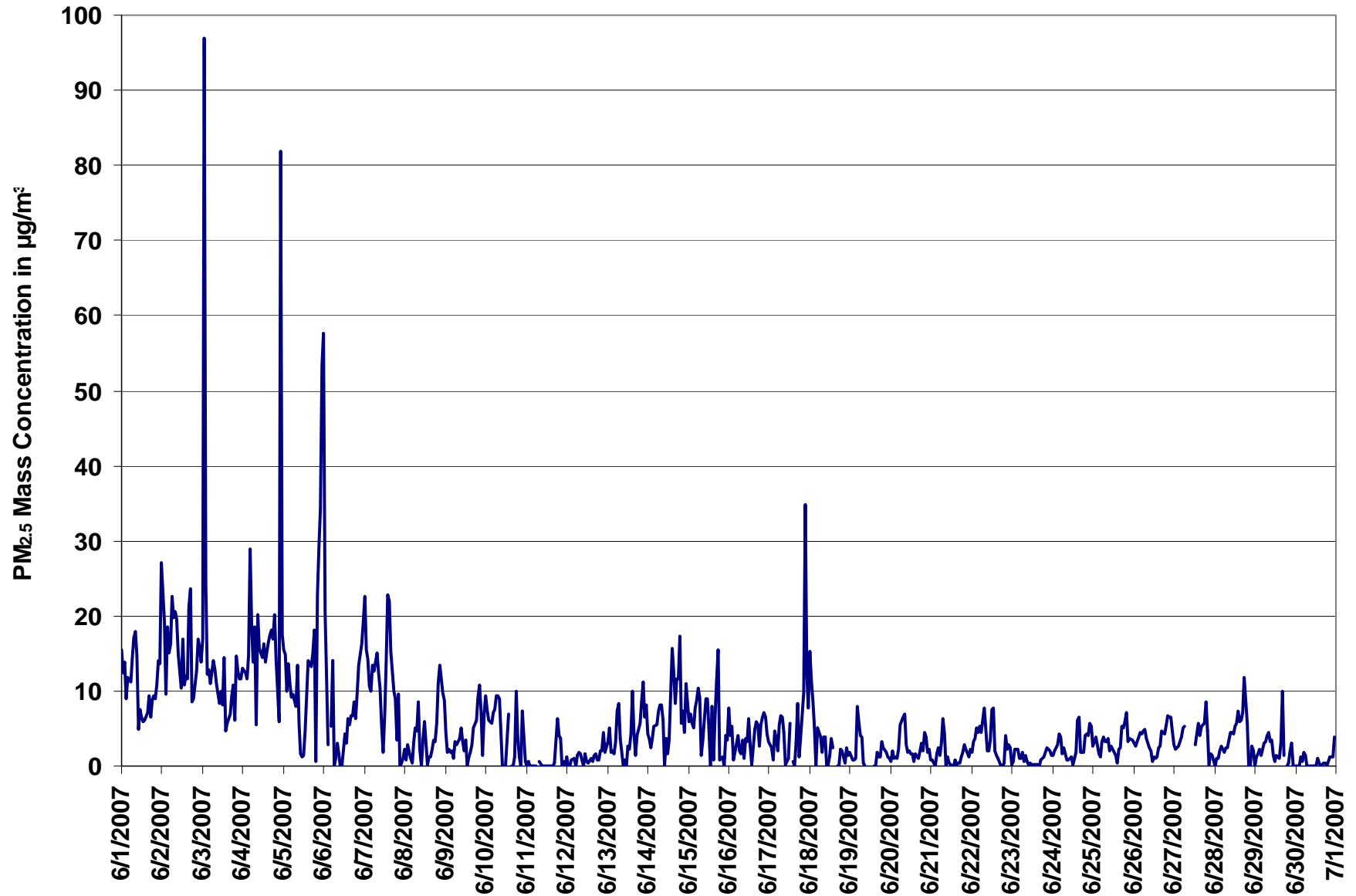


Figure 15. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Henry Pirker  
 Station Owner: PASZA

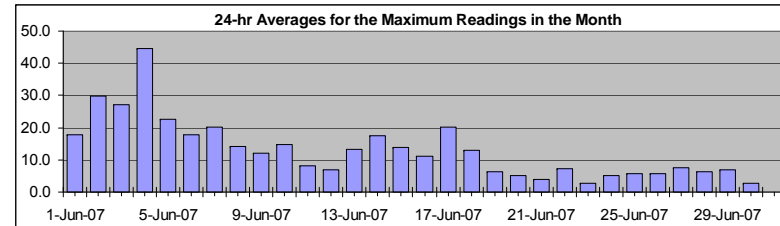
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Particulate Matter (PM<sub>2.5</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Average:	399.4	µg/m <sup>3</sup>	4-Jun	22:00 23:00
Maximum 24-hr Value:	44.5	µg/m <sup>3</sup>	4-Jun	



AIC Time:	0 hrs	Operational Time:	703 hrs							
Calibration Time:	9 hrs	AMD Operational Uptime:	98.9%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean	
	63.9	33.8	16.1	9.3	4.7	2.4	1.2	13.1	9 µg/m <sup>3</sup>	10.3 µg/m <sup>3</sup>

**Status Flag Characters**

C	Calibration	A	AIC - Zero / Span Check
S	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-hour Average	Daily Maximum	
1-Jun-07	32	21	18	18	19	14	22	24	24	19	14	21	13	11	17	13	14	12	12	14	13	15	20	23	17.7	32.2
2-Jun-07	45	38	19	37	27	20	35	26	28	30	23	19	33	22	28	28	55	81	18	14	25	25	19	17	29.7	80.9
3-Jun-07	33	163	61	22	18	13	18	18	18	15	17	17	23	68	11	12	14	14	16	10	19	17	15	13	27.0	163.3
4-Jun-07	14	14	13	21	109	27	18	22	20	31	29	29	34	22	22	21	21	24	31	66	36	14	399	30	44.5	399.4
5-Jun-07	27	28	16	27	14	13	15	13	27	10	8	6	8	12	18	25	19	22	42	18	36	37	41	64	22.7	63.7
6-Jun-07	64	42	11	D	18	21	4	6	7	7	6	13	10	11	14	13	14	12	15	12	14	23	36	37	17.8	63.9
7-Jun-07	53	36	26	15	14	17	16	22	20	20	18	11	18	22	31	30	20	16	14	12	22	20	5	5	20.1	52.7
8-Jun-07	7	7	9	11	4	8	11	8	14	12	14	18	16	21	12	15	13	13	15	15	19	37	19	22	14.2	36.9
9-Jun-07	21	7	5	6	10	4	6	8	28	25	9	17	11	6	8	13	10	10	10	16	22	17	7	15	12.1	28.1
10-Jun-07	13	10	9	9	10	10	13	13	18	12	18	D	21	21	D	8	9	26	44	15	9	3	17	17	14.7	44.1
11-Jun-07	6	10	3	2	3	5	4	D	12	8	8	7	21	13	10	9	10	11	16	7	8	4	5	5	8.2	20.5
12-Jun-07	6	1	3	4	4	3	4	4	4	8	5	7	8	8	10	13	16	11	13	9	8	6	9	4	6.9	16.4
13-Jun-07	9	13	7	5	6	8	16	16	9	9	11	19	21	16	16	20	15	10	11	15	15	21	11	18	13.2	21.1
14-Jun-07	12	7	8	6	7	8	13	12	12	18	15	26	18	10	51	41	20	22	19	39	20	12	9	14	17.4	51.1
15-Jun-07	10	9	8	7	10	12	13	15	11	14	22	22	19	30	20	11	15	23	34	8	6	5	6	6	14.0	33.9
16-Jun-07	11	7	7	4	5	7	7	7	11	11	11	17	16	18	13	16	24	9	9	12	14	11	15	7	11.2	24.1
17-Jun-07	8	6	6	8	6	5	9	13	11	13	12	19	23	D	18	10	19	29	14	12	49	71	59	46	20.3	71.2
18-Jun-07	37	24	19	12	11	10	7	13	14	18	11	15	12	19	17	D	8	3	16	9	10	4	7	4	13.0	36.5
19-Jun-07	4	3	6	6	23	16	9	9	10	8	C	C	C	C	0	0	5	3	4	6	5	3	3	3	6.2	22.8
20-Jun-07	2	5	2	3	3	4	13	8	10	6	4	4	3	3	3	4	3	4	5	5	10	7	7	4	5.0	12.8
21-Jun-07	3	5	2	3	4	3	8	10	10	3	4	3	2	1	3	2	2	2	4	4	5	4	3	4	3.9	10.4
22-Jun-07	3	5	8	7	8	9	9	14	10	5	5	14	11	14	5	5	4	2	1	3	6	9	5	7	7.1	14.4
23-Jun-07	2	3	3	4	3	2	3	2	3	2	2	2	3	2	2	2	1	2	3	3	4	4	3	3	2.7	4.4
24-Jun-07	3	5	4	5	7	6	4	4	3	2	3	4	2	3	4	10	10	5	5	7	7	6	8	8	5.1	10.4
25-Jun-07	5	5	6	4	4	6	6	5	5	5	4	6	4	3	2	4	4	11	8	9	12	6	5	6	5.6	11.7
26-Jun-07	5	4	6	5	6	5	7	6	6	5	4	3	3	3	3	5	4	6	6	7	9	11	9	7	5.7	11.0
27-Jun-07	5	3	3	4	5	6	7	P	C	C	C	C	C	5	8	6	11	9	9	15	15	9	7	5	7.5	15.2
28-Jun-07	2	3	3	4	4	3	4	4	4	6	7	6	7	9	10	9	9	10	18	11	2	3	7	6	6.3	18.0
29-Jun-07	2	3	4	5	4	6	7	9	7	7	8	6	5	5	5	8	27	7	P	7	3	3	13	5	6.8	26.8
30-Jun-07	3	2	3	4	2	3	3	2	0	0	0	0	2	4	2	2	3	3	2	2	3	3	4	13	2.7	13.4
Hourly Avg	14.9	16.3	10.0	9.2	12.2	9.2	10.3	11.2	12.3	11.4	10.4	12.2	13.1	13.7	12.5	12.3	13.4	13.7	14.3	12.7	14.2	13.7	25.8	14.0		
Hourly Max	63.9	163.3	61.3	36.9	108.9	26.7	34.8	26.2	28.1	31.4	28.9	28.9	34.4	67.6	51.1	40.7	54.7	80.9	44.1	66.3	48.7	71.2	399.4	63.7		

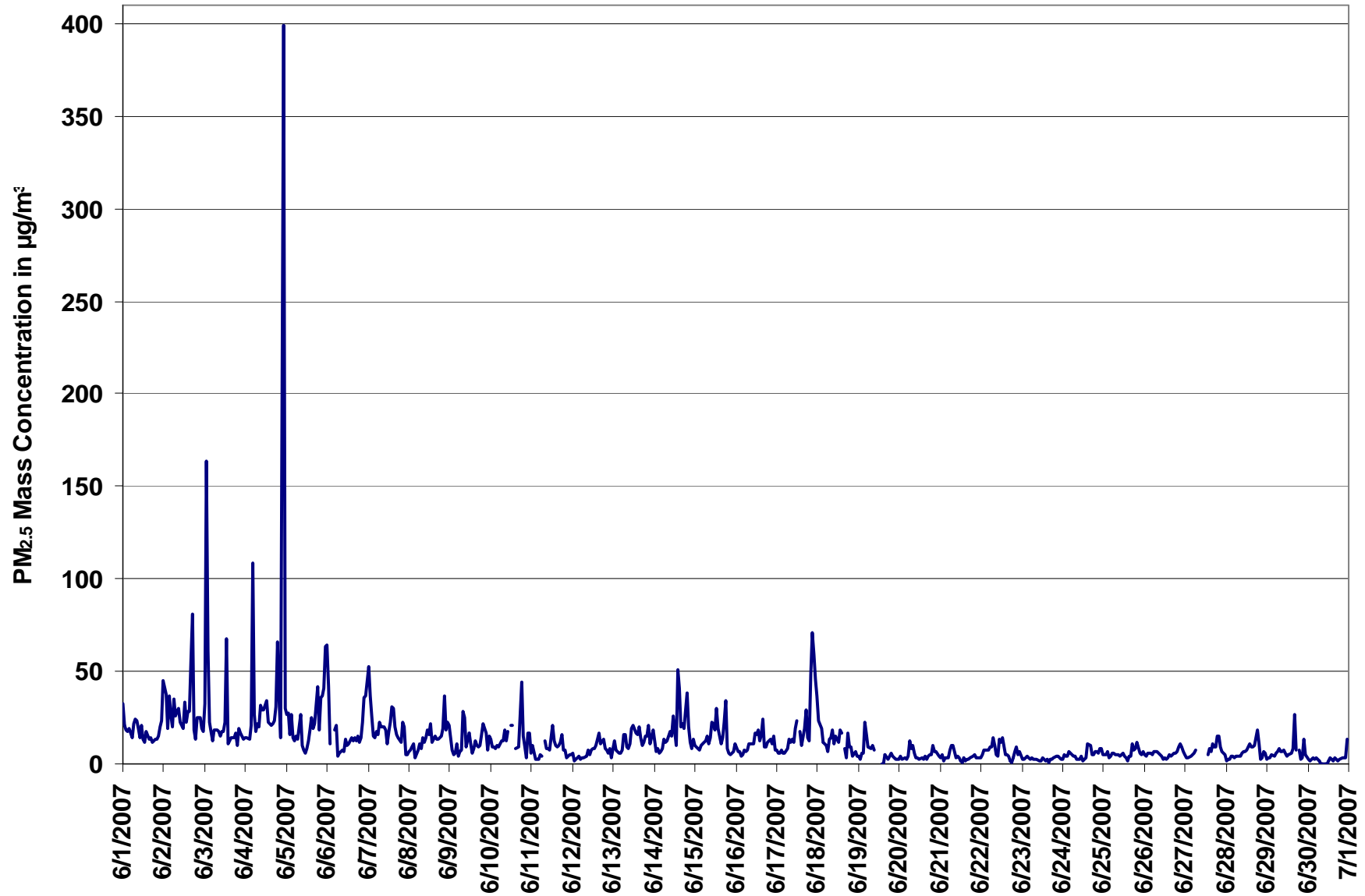
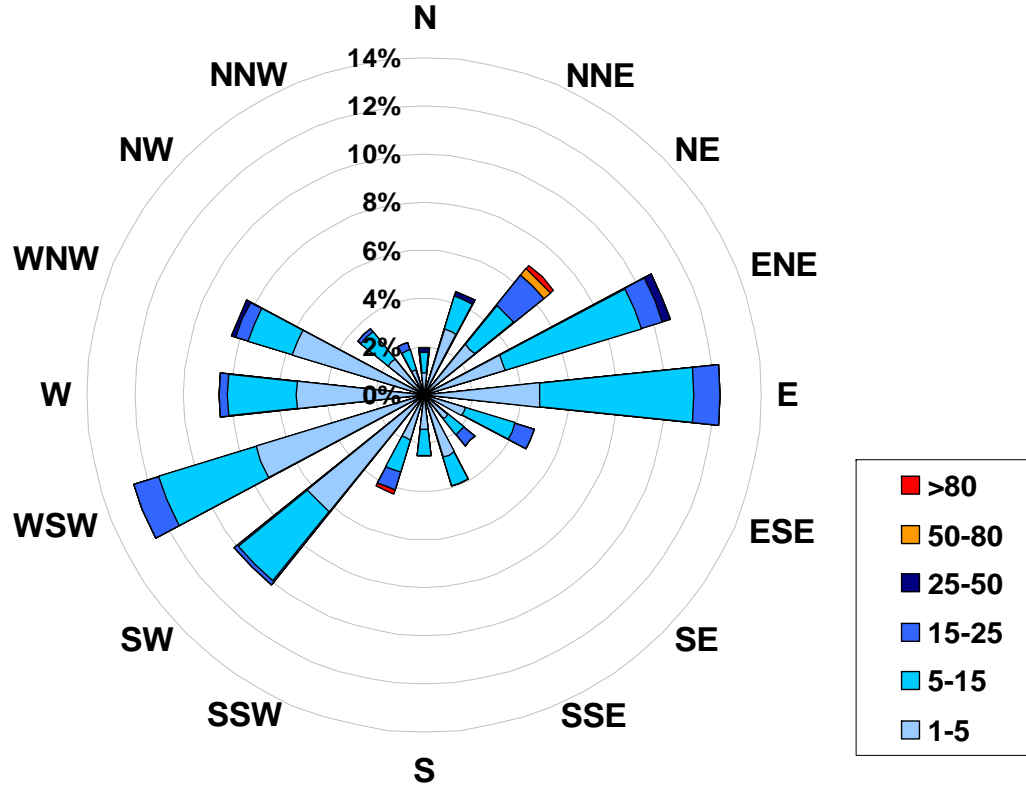


Figure 16. PASZA - Henry Pirker Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

**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 June 2007**



**Calms: 0%**

Frequency Distribution of PM <sub>2.5</sub> in µg/m <sup>3</sup>			Frequency (hrs)
Range			
1.0	< 5		430
5	to 15		217
15	to 25		47
25	to 50		5
50	to 80		2
	> 80		2
Total Non-Zero Values			703

# PASZA - Henry Pirker - Relative Humidity Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

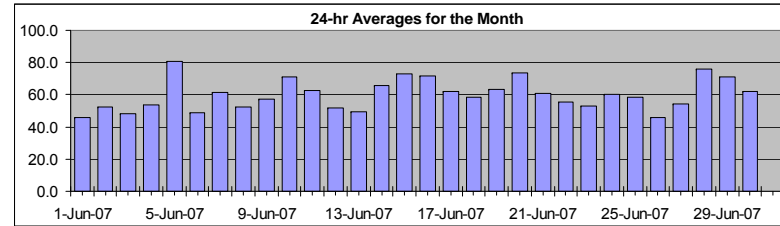
## Relative Humidity (RH)

Monitoring Dates: June 1, 2007 to July 1, 2007

### Summary

Maximum 1-hr Average:	94.5 %	21-Jun	4:00 5:00
Maximum 24-hr Value:	80.6 %	5-Jun	

AIC Time:	0 hrs	Operational Time:	719 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	92.5	90.1	74.4	60.2	45.1	30.8	26.0	60.0 %	60.2 %



### 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-Jun-07	58	65	72	78	77	78	69	59	55	43	30	26	24	24	24	26	28	26	27	31	35	41	47	50	45.6	78.4
2-Jun-07	64	68	61	71	72	73	72	72	73	59	48	44	42	40	36	35	33	31	32	37	43	45	49	54	52.3	73.0
3-Jun-07	59	65	72	79	77	71	66	61	57	52	46	45	40	34	30	27	26	25	28	28	35	40	43	46	48.1	79.3
4-Jun-07	51	56	60	62	64	65	62	59	57	54	50	46	41	39	38	39	42	43	45	54	62	60	68	71	53.5	70.8
5-Jun-07	71	72	75	82	84	81	78	79	89	94	92	88	83	81	81	80	79	81	83	78	77	79	76	71	80.6	93.6
6-Jun-07	71	74	71	60	64	69	68	65	67	55	46	36	35	31	30	30	29	27	27	29	34	43	51	61	48.9	74.5
7-Jun-07	69	79	80	88	90	88	80	76	70	59	47	36	33	37	45	53	57	53	53	52	57	60	58	61	61.7	90.5
8-Jun-07	64	66	67	69	65	63	62	60	56	55	50	45	47	45	42	40	39	38	37	37	41	50	56	69	52.7	69.1
9-Jun-07	69	68	69	68	72	71	65	62	57	53	52	49	46	42	40	38	38	39	44	51	65	71	65	71	56.9	71.9
10-Jun-07	78	82	85	88	91	92	91	89	85	74	63	55	54	68	57	47	47	48	53	58	67	69	76	90	71.1	92.0
11-Jun-07	86	87	90	90	91	89	80	69	64	59	52	50	48	46	42	40	37	38	50	56	60	59	60	61	62.6	91.4
12-Jun-07	63	61	60	63	66	65	63	61	60	56	54	53	50	46	43	42	40	40	37	36	37	41	48	52	51.6	66.3
13-Jun-07	55	63	65	66	66	66	60	56	50	41	36	32	31	32	29	37	42	41	44	46	48	54	61	68	49.5	68.2
14-Jun-07	69	71	72	73	76	78	79	77	74	64	56	50	45	47	45	52	48	49	54	68	79	82	82	88	65.6	88.0
15-Jun-07	89	91	90	90	91	90	84	80	71	59	57	56	52	47	40	39	44	62	85	85	82	78	86	93	72.6	92.5
16-Jun-07	93	93	93	91	88	89	80	75	71	65	60	56	57	56	47	48	53	64	64	66	69	77	82	88	72.0	93.5
17-Jun-07	91	92	93	92	92	89	83	76	71	59	50	40	49	41	37	34	33	37	42	39	44	61	71	72	62.1	92.5
18-Jun-07	80	80	80	85	80	82	81	70	60	56	51	45	45	49	52	48	42	39	39	41	45	49	52	57	58.7	84.8
19-Jun-07	62	63	66	65	74	78	80	74	68	61	54	51	47	47	38	39	50	53	51	66	75	81	85	85	63.0	85.1
20-Jun-07	83	84	88	90	91	90	86	83	81	78	70	67	63	56	55	52	50	53	56	61	71	83	89	91	73.8	91.3
21-Jun-07	91	91	92	94	94	93	90	91	88	68	56	52	42	35	33	31	30	30	31	32	41	47	50	60	60.8	94.5
22-Jun-07	58	69	65	71	74	74	62	51	56	57	54	45	42	53	61	48	45	42	37	35	43	55	64	70	55.5	74.1
23-Jun-07	66	69	76	81	77	72	70	66	67	64	56	48	40	36	33	32	29	29	31	34	40	46	52	58	52.9	80.6
24-Jun-07	63	66	71	79	79	74	63	57	52	46	39	36	34	34	33	50	67	70	66	61	64	75	82	88	60.4	87.5
25-Jun-07	89	90	88	85	82	82	75	71	66	62	54	46	45	40	34	37	31	38	42	46	49	42	48	55	58.2	89.8
26-Jun-07	65	68	72	71	72	68	63	56	50	42	37	32	29	28	27	26	26	26	29	31	39	43	47	50	45.7	72.1
27-Jun-07	50	50	56	59	63	65	63	P	54	52	51	44	36	34	33	31	29	34	50	61	80	76	83	86	53.9	85.5
28-Jun-07	82	81	86	89	89	88	80	73	73	69	66	64	65	63	64	62	62	63	76	87	85	82	84	85	75.9	89.1
29-Jun-07	79	84	88	90	91	91	83	70	65	60	58	58	53	51	46	49	68	75	74	74	71	75	80	80	71.4	90.9
30-Jun-07	80	85	83	87	91	92	91	88	81	73	63	54	46	44	43	40	39	39	41	39	42	49	52	50	62.2	92.3
Hourly Avg	71.6	74.4	76.2	78.5	79.5	78.9	74.3	69.9	66.3	59.6	53.2	48.2	45.5	44.2	41.8	41.8	42.7	44.5	47.6	50.7	56.1	60.3	65.0	69.4		
Hourly Max	93.5	93.4	93.3	93.5	94.5	92.7	91.4	90.9	89.0	93.6	91.9	88.1	83.4	81.0	81.3	80.3	78.8	81.1	84.8	87.1	84.6	82.5	88.9	92.5		



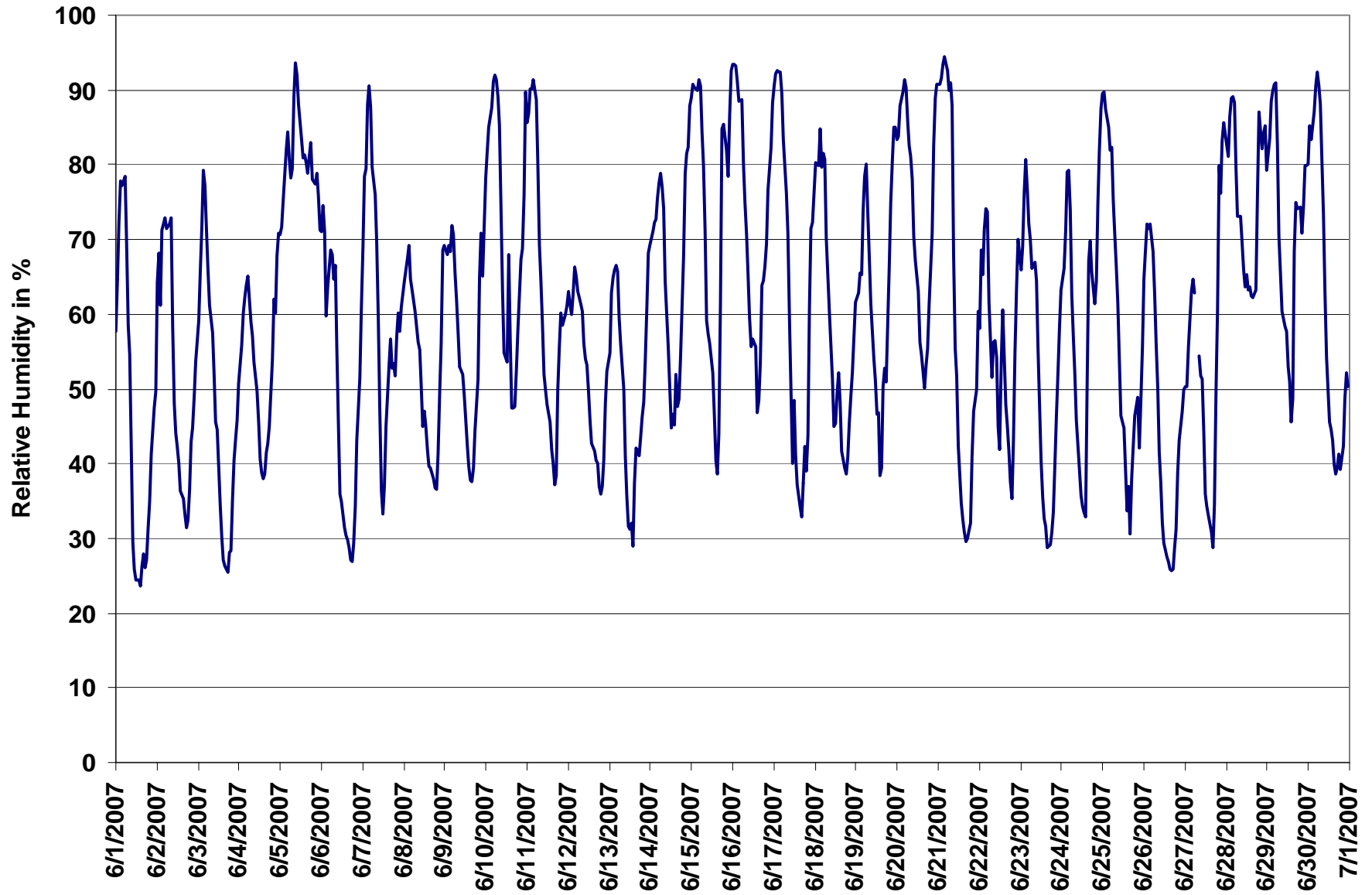


Figure 17. PASZA - Henry Pirker Relative Humidity 1-hr Average Monthly Trend

# PASZA - Henry Pirker - Temperature Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

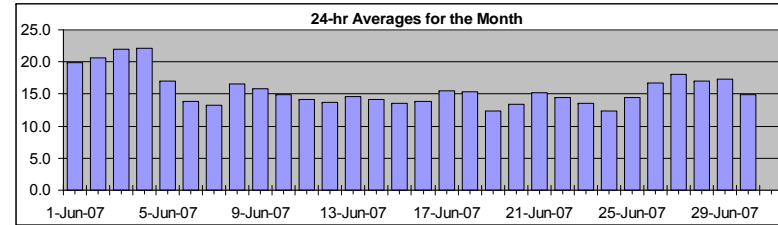
## HOURLY AVERAGE TABLE

## Ambient Temperature (T)

Monitoring Dates: June 1, 2007 to July 1, 2007

### Summary

Maximum 1-hr Average:	28.9	°C	4-Jun	14:00 15:00
Maximum 24-hr Value:	22.1	°C	4-Jun	



AIC Time:	0 hrs	Operational Time:	719 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	27.7	24.5	18.9	15.6	11.9	8.3	6.6	15.7 °C	15.6 °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

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-hour Average	Daily Maximum
1-Jun-07	14	13	12	11	11	11	13	16	18	22	23	25	26	27	28	27	26	27	26	24	23	21	19	18	19.9	27.5
2-Jun-07	16	14	15	14	13	14	15	15	16	20	23	24	25	26	27	27	27	27	26	25	23	22	20	19	20.6	27.4
3-Jun-07	18	16	15	13	13	15	18	20	21	23	25	25	27	28	28	28	28	28	27	26	24	22	21	20	22.0	28.3
4-Jun-07	19	18	17	17	16	16	18	19	21	23	24	26	27	28	29	29	28	27	26	22	21	21	19	19	22.1	28.9
5-Jun-07	18	18	18	17	16	17	17	17	15	14	15	16	17	17	18	19	19	19	19	18	17	16	17	16	17.0	19.1
6-Jun-07	15	14	13	13	11	10	9	9	9	12	15	16	17	18	18	18	18	18	18	16	14	12	11	9	13.8	18.0
7-Jun-07	8	7	6	5	5	6	9	10	12	15	17	18	19	19	18	17	16	17	17	17	16	16	15	14	13.3	19.4
8-Jun-07	13	12	12	12	12	12	13	14	16	17	18	19	20	20	20	21	20	20	20	20	18	17	15	13	16.5	20.9
9-Jun-07	13	13	12	11	10	10	12	14	15	16	17	18	19	20	21	21	21	20	19	18	16	15	15	14	15.8	20.8
10-Jun-07	13	12	12	11	11	11	11	12	13	15	18	19	18	15	18	20	19	19	18	18	16	14	13	11	14.9	19.9
11-Jun-07	10	11	10	9	9	9	11	12	14	15	17	17	18	18	19	19	20	19	16	15	14	14	13	13	14.2	20.1
12-Jun-07	12	12	12	11	10	10	11	11	11	13	13	13	14	16	17	18	17	18	18	17	17	15	12	11	13.7	17.9
13-Jun-07	10	8	7	7	7	7	10	12	15	18	19	20	21	20	21	19	19	18	17	16	15	13	11	11	14.6	21.5
14-Jun-07	11	11	11	11	10	10	10	11	13	17	18	20	20	18	19	18	19	18	17	14	12	12	11	10	14.1	20.2
15-Jun-07	9	9	8	8	7	7	10	13	15	18	18	20	20	21	22	22	18	14	12	12	12	11	10	9	13.5	22.1
16-Jun-07	9	9	9	9	9	10	11	13	14	16	17	18	18	19	20	20	18	15	15	15	14	13	11	10	13.8	20.4
17-Jun-07	9	9	8	8	8	8	10	13	15	18	20	21	19	20	21	22	22	21	20	21	18	15	14	13	15.5	21.9
18-Jun-07	12	13	12	12	11	12	12	15	17	19	19	20	21	18	19	18	19	18	16	15	14	13	12	10	15.3	20.7
19-Jun-07	9	8	7	7	8	8	9	10	12	14	16	16	17	17	20	18	15	15	15	13	12	11	10	9	12.4	19.5
20-Jun-07	9	9	8	8	8	8	10	11	12	13	14	15	16	18	18	19	19	19	18	16	14	13	12	12	13.3	19.4
21-Jun-07	12	11	11	10	10	10	11	12	13	16	18	19	19	20	20	20	20	20	19	19	17	14	13	11	15.2	20.0
22-Jun-07	11	9	9	9	9	9	11	14	15	15	16	19	19	16	15	18	19	19	19	19	17	15	13	11	14.4	19.2
23-Jun-07	12	11	9	9	9	9	10	11	11	12	14	16	16	18	18	18	19	19	18	18	16	14	12	10	13.6	18.7
24-Jun-07	9	8	7	5	5	6	9	12	14	16	18	19	19	19	20	16	13	12	13	13	13	11	10	9	12.3	20.0
25-Jun-07	8	9	9	8	7	7	9	11	12	15	16	19	20	20	22	19	22	20	19	18	17	17	15	12	14.5	21.6
26-Jun-07	10	9	8	7	7	8	11	13	15	18	20	21	22	23	23	24	24	24	22	22	20	18	17	15	16.7	23.7
27-Jun-07	15	15	14	13	12	12	13	P	17	18	19	22	24	24	24	25	26	24	21	18	15	14	14	14	18.0	25.6
28-Jun-07	14	14	13	12	12	13	15	17	17	18	20	20	20	21	22	22	21	21	20	18	15	15	15	14	17.0	22.0
29-Jun-07	14	13	12	12	11	11	14	18	19	21	21	22	22	23	24	24	20	18	19	17	16	16	15	13	17.3	24.3
30-Jun-07	13	13	12	12	11	11	11	11	12	13	15	16	18	18	18	19	19	19	18	18	17	15	14	14	14.8	19.0

Hourly Avg	12.2	11.5	11.0	10.4	10.0	10.3	11.8	13.3	14.6	16.6	18.1	19.3	19.9	20.2	20.9	20.8	20.4	19.8	18.9	17.9	16.4	15.1	14.0	12.8		
Hourly Max	19.4	18.3	17.7	16.9	16.5	16.6	17.7	20.0	21.2	23.2	24.5	26.0	27.3	28.1	28.9	28.8	28.1	27.7	26.9	25.6	23.7	22.3	21.2	20.3		

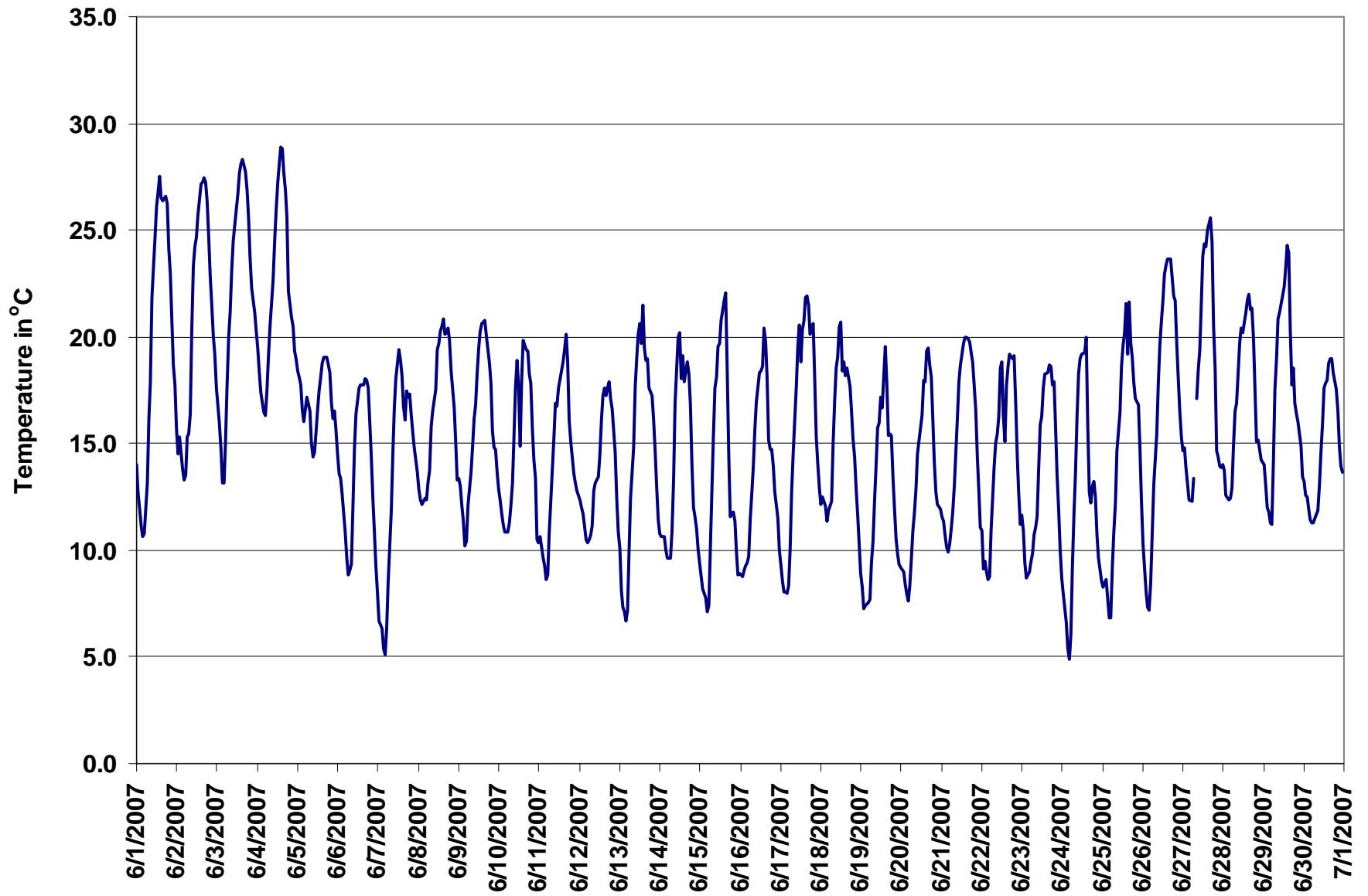


Figure 18. PASZA - Henry Pirker Temperature 1-hr Average Monthly Trend

# PASZA - Henry Pirker - Solar Radiation Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

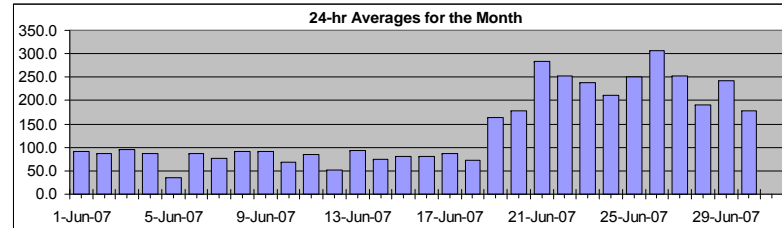
## HOURLY AVERAGE TABLE

## Solar Radiation (SR)

Monitoring Dates: June 1, 2007 to July 1, 2007

### Summary

Maximum 1-hr Average:	789.5	W/m <sup>2</sup>	26-Jun	13:00 14:00
Maximum 24-hr Value:	307.4	W/m <sup>2</sup>	26-Jun	



AIC Time:	0 hrs	Operational Time:	719 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	99.9%						
Percentile	99	95	75	50	25	5	1	Average	Median
	767.2	604.3	191.8	58.3	1.0	0.0	0.0	139.3 W/m <sup>2</sup>	58.3 W/m <sup>2</sup>

### Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Jun-07	0	0	0	0	4	17	55	79	103	160	183	299	298	276	245	135	127	104	64	21	18	2	0	0	91.3	299.4
2-Jun-07	0	0	0	0	4	17	41	39	71	151	187	236	289	286	236	165	142	115	75	25	8	1	0	0	87.0	289.2
3-Jun-07	0	0	0	0	4	23	59	88	110	134	181	278	295	285	242	171	134	115	87	45	13	1	0	0	94.5	294.9
4-Jun-07	0	0	0	0	5	23	60	88	111	130	179	265	294	298	263	197	93	45	10	3	3	0	0	0	86.2	298.3
5-Jun-07	0	0	0	0	6	28	28	14	3	6	35	52	82	110	123	120	90	78	44	11	4	0	0	0	34.7	123.4
6-Jun-07	0	0	0	0	1	2	4	10	24	130	221	292	294	284	230	157	149	122	91	44	13	2	0	0	86.2	294.4
7-Jun-07	0	0	0	0	6	32	66	94	108	145	170	257	265	202	142	90	57	117	50	36	8	1	0	0	76.9	265.2
8-Jun-07	0	0	0	0	2	12	55	71	118	134	181	287	269	287	232	174	115	100	83	48	11	2	0	0	90.9	286.7
9-Jun-07	0	0	0	0	4	25	74	87	110	127	167	267	286	283	240	176	149	116	48	26	5	1	0	0	91.4	286.1
10-Jun-07	0	0	0	1	2	16	22	42	86	144	160	212	112	165	218	156	103	83	64	49	8	2	0	0	68.6	218.4
11-Jun-07	0	0	1	0	3	26	64	86	111	139	187	195	234	291	194	170	159	81	53	29	11	2	0	0	84.8	290.7
12-Jun-07	0	0	0	0	1	5	14	34	53	122	104	71	96	131	170	138	84	77	65	25	31	5	0	0	51.1	170.1
13-Jun-07	0	0	0	0	3	24	72	102	121	138	155	272	318	232	242	114	155	141	66	49	22	3	0	0	93.0	318.1
14-Jun-07	0	0	0	0	3	5	12	67	133	160	175	248	215	69	163	134	151	126	95	14	6	2	0	0	74.1	247.7
15-Jun-07	0	0	0	1	5	25	63	82	107	118	171	271	234	281	241	178	93	40	5	15	11	2	0	0	81.0	281.5
16-Jun-07	0	0	1	0	6	20	42	73	118	135	161	270	226	186	261	155	89	76	60	39	14	5	0	0	80.7	269.8
17-Jun-07	0	1	0	0	6	26	66	101	112	124	148	234	233	232	211	156	127	140	103	69	12	2	0	0	87.6	234.4
18-Jun-07	1	0	0	0	1	7	26	81	105	122	147	225	207	169	154	84	164	132	83	25	17	3	0	1	73.2	225.3
19-Jun-07	0	0	0	0	4	23	34	80	121	143	385	433	551	383	769	380	107	219	171	91	43	7	0	0	164.4	769.1
20-Jun-07	0	0	0	0	9	53	145	153	145	263	411	389	518	531	399	517	368	188	115	69	8	1	0	0	178.5	530.9
21-Jun-07	0	0	0	0	6	22	8	125	229	549	611	708	788	788	744	667	567	445	314	191	34	9	0	0	283.5	788.4
22-Jun-07	0	0	0	0	9	45	147	230	431	360	472	758	783	352	453	543	504	438	304	179	51	8	0	0	252.9	783.2
23-Jun-07	0	0	0	0	5	18	46	81	151	215	569	580	484	729	733	610	575	429	232	194	36	5	0	0	237.2	733.2
24-Jun-07	0	0	0	1	8	34	197	308	469	604	687	734	749	504	433	52	31	97	94	57	24	5	0	0	212.1	749.2
25-Jun-07	0	0	1	0	6	50	178	239	346	430	435	710	785	684	677	260	524	298	240	98	40	10	0	0	250.5	784.9
26-Jun-07	0	1	0	0	7	33	193	306	460	596	689	754	785	789	725	641	557	420	208	173	31	6	0	0	307.4	789.5
27-Jun-07	1	0	0	0	9	69	131		409	411	387	653	714	781	548	548	539	322	253	47	2	2	0	0	253.3	780.6
28-Jun-07	0	0	0	0	15	56	172	292	304	427	406	627	449	533	522	424	169	103	19	2	42	4	0	0	190.3	627.5
29-Jun-07	0	0	0	0	11	51	201	297	448	576	667	728	670	727	746	308	118	30	185	49	10	2	0	0	242.7	746.0
30-Jun-07	0	0	0	1	7	15	41	58	125	261	380	676	628	534	520	388	314	210	91	23	5	0	0	0	178.3	675.8
Hourly Avg	0.1	0.1	0.2	0.3	5.2	26.5	76.3	116.8	175.9	233.9	296.4	389.5	406.7	383.2	369.7	271.3	221.0	170.4	116.4	60.4	18.7	3.3	0.1	0.1		
Hourly Max	1.0	1.0	1.0	1.2	14.7	69.5	201.0	308.2	469.3	603.6	688.8	758.3	788.4	789.5	769.1	667.3	574.9	445.1	313.7	193.9	51.0	9.9	0.3	1.0		

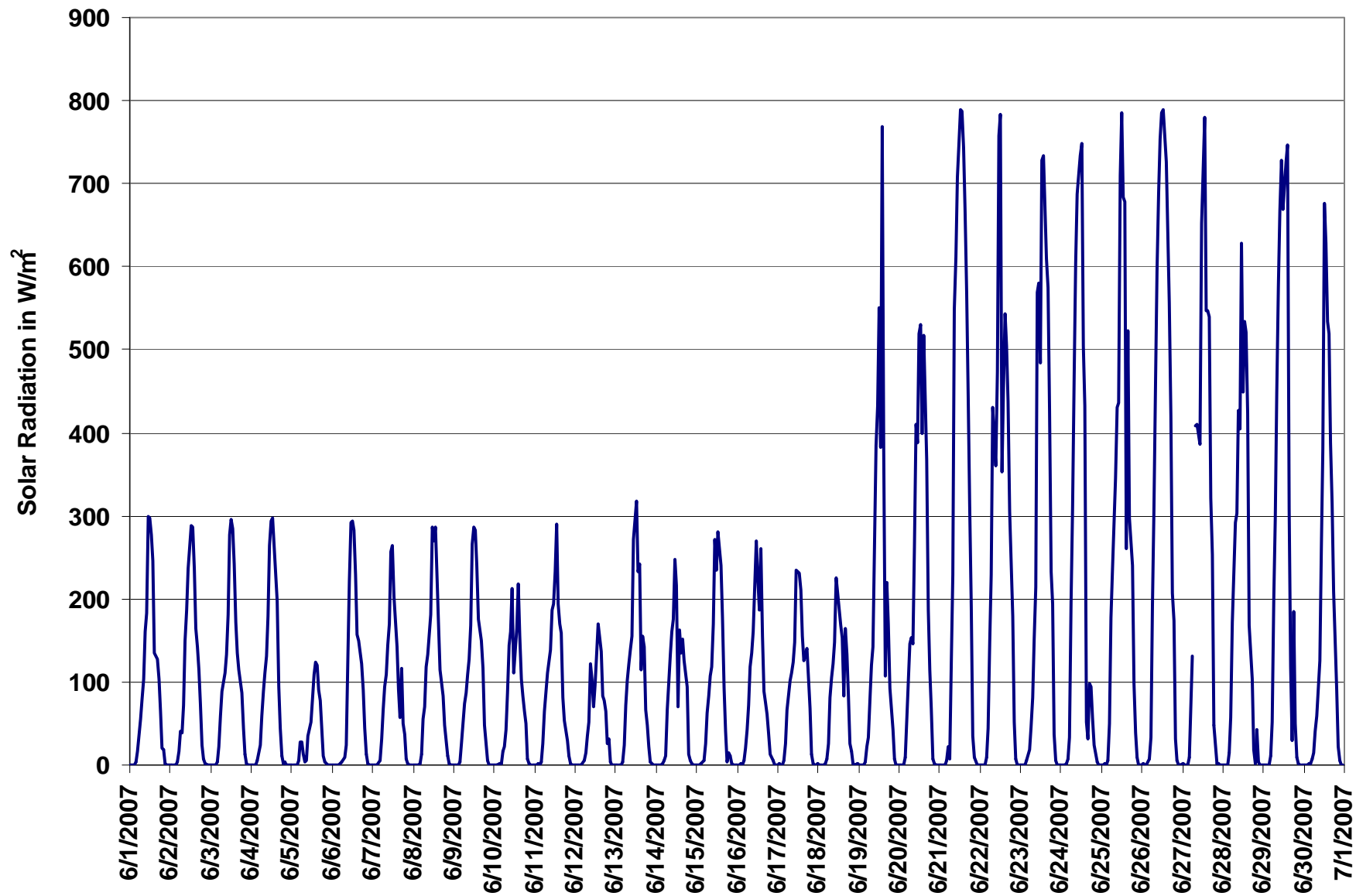


Figure 19. PASZA - Henry Pirkker Solar Radiation 1-hr Average Monthly Trend

# PASZA - Henry Pirker - Scalar Wind Speed Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

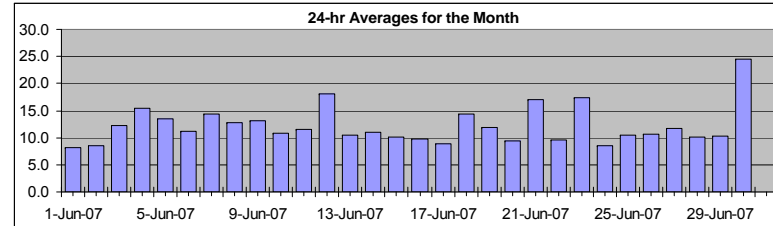
## Wind Speed (WSs)

Monitoring Dates: June 1, 2007 to July 1, 2007

### Summary

Maximum 1-hr Average:	42.5	km/hr	30-Jun	13:00 14:00
Maximum 24-hr Value:	24.6	km/hr	30-Jun	

Calm Time:	0 hrs	0% calms	Operational Time:	719 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.9%				
Percentile	99	95	75	50	25	5	1	AverageS
	32.3	22.9	14.4	11.2	8.5	5.9	5.0	12.2 km/hr



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Scalar Average	Daily Max	
Hour Start 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-Jun-07	7	6	6	6	7	7	6	7	6	6	9	10	10	10	12	12	11	12	11	11	11	8	6	6	6	8.2	11.7
2-Jun-07	5	5	4	5	4	5	7	6	7	9	12	13	13	12	10	10	9	12	11	10	8	9	8	9	8.5	13.2	
3-Jun-07	7	6	5	6	7	7	7	9	12	13	16	16	14	15	16	16	17	17	18	17	14	14	14	15	12.3	17.6	
4-Jun-07	14	13	12	13	14	15	16	18	17	18	21	21	22	21	19	21	20	18	17	11	9	7	6	9	15.5	21.8	
5-Jun-07	8	8	16	15	11	15	16	15	15	12	14	16	14	14	13	14	15	15	10	14	13	12	13	13.4	16.2		
6-Jun-07	11	11	14	15	17	15	12	10	11	11	12	12	12	12	12	12	12	11	9	10	9	7	6	6	11.2	16.8	
7-Jun-07	5	6	6	7	7	9	10	12	11	10	13	12	13	19	24	26	23	23	21	19	12	16	23	17	14.4	26.0	
8-Jun-07	14	14	11	11	12	11	13	14	13	12	11	12	13	15	17	17	16	15	12	12	8	9	14	7	12.7	17.1	
9-Jun-07	8	7	8	6	6	8	12	12	13	14	15	14	13	15	16	17	18	20	18	18	15	11	15	17	13.1	20.0	
10-Jun-07	15	14	13	14	11	9	7	7	8	8	8	9	11	13	11	9	8	9	11	15	13	13	12	13	10.9	14.9	
11-Jun-07	12	8	7	9	9	9	14	15	14	12	10	10	10	12	8	8	9	10	17	15	15	17	13	14	11.5	17.3	
12-Jun-07	19	19	19	19	21	20	21	19	17	18	20	17	16	16	18	18	16	14	17	21	23	20	13	12	18.1	22.9	
13-Jun-07	12	7	7	10	9	10	9	11	11	9	9	9	10	10	8	14	20	18	14	10	9	9	9	7	10.4	19.6	
14-Jun-07	7	8	9	10	11	10	11	13	12	12	11	9	9	9	12	12	13	17	17	14	15	10	7	7	11.0	17.1	
15-Jun-07	7	6	7	8	8	7	7	9	8	7	8	9	11	12	11	12	19	24	12	17	11	9	8	6	10.0	24.1	
16-Jun-07	7	7	8	9	9	7	9	9	10	9	10	10	11	12	12	14	15	15	11	9	8	8	8	7	9.8	15.3	
17-Jun-07	8	7	7	9	10	11	10	9	9	7	9	8	17	11	10	9	9	11	11	8	6	5	5	5	8.8	17.1	
18-Jun-07	6	6	9	8	12	9	7	7	7	8	9	8	14	18	19	19	30	33	32	27	18	14	12	13	14.4	33.3	
19-Jun-07	13	14	13	13	13	13	13	13	14	12	12	9	9	10	9	13	16	14	14	12	11	9	9	9	11.9	15.9	
20-Jun-07	9	8	7	5	6	8	8	7	7	9	13	13	13	12	13	12	10	10	11	12	9	8	8	7	9.4	13.2	
21-Jun-07	8	8	12	11	8	10	10	7	11	16	22	24	29	30	30	29	28	27	25	21	13	13	11	9	17.1	30.1	
22-Jun-07	8	7	6	6	6	5	9	8	10	12	9	10	10	19	15	10	9	9	7	6	9	16	13	10	9.6	19.3	
23-Jun-07	10	9	11	10	12	12	13	18	23	24	24	23	25	25	24	23	24	25	21	16	15	12	11	8	17.4	25.5	
24-Jun-07	8	7	5	7	8	8	9	10	13	10	9	9	11	9	8	10	11	12	9	10	7	5	6	5	8.6	13.2	
25-Jun-07	6	8	9	8	8	6	9	12	13	10	8	9	13	11	12	13	11	12	11	10	9	16	16	13	10.5	16.3	
26-Jun-07	8	8	6	6	6	8	10	13	15	16	13	14	13	10	10	9	9	9	12	14	12	11	11	11	10.7	16.1	
27-Jun-07	13	14	15	15	14	13	14	P	11	9	9	9	7	10	10	8	8	10	19	13	18	11	10	8	11.7	19.3	
28-Jun-07	13	7	6	6	6	6	7	8	8	7	6	11	13	12	14	13	12	11	12	15	14	11	9	17	10.1	16.7	
29-Jun-07	15	8	7	6	8	6	5	7	7	7	9	11	13	13	13	11	9	13	10	13	10	10	17	20	10.2	19.6	
30-Jun-07	19	15	14	14	13	15	16	15	18	21	31	33	41	42	40	38	35	32	32	30	26	16	16	19	24.6	42.5	
1-hr Average	9.9	9.0	9.4	9.6	9.8	9.8	10.5	11.0	11.8	11.6	12.7	12.9	14.3	15.0	14.9	14.9	15.5	15.9	15.2	14.2	12.3	11.2	10.9	10.6			
Hourly Max	18.8	19.2	19.3	19.4	20.7	20.2	21.2	19.4	23.4	23.5	30.7	32.9	40.9	42.5	40.4	37.5	35.0	33.3	32.3	29.8	25.9	20.1	22.6	19.6			

# PASZA - Henry Pirker - Vector Wind Speed Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

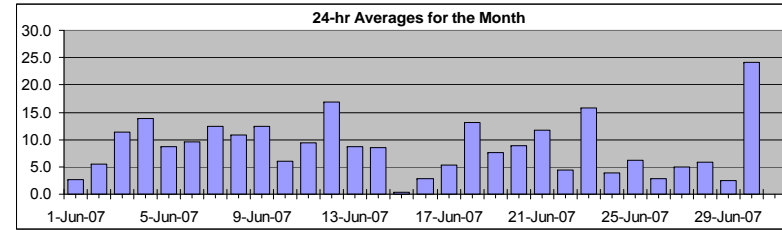
## HOURLY AVERAGE TABLE

## Wind Speed (WSv)

Monitoring Dates: June 1, 2007 to July 1, 2007

### Summary

Maximum 1-hr Average:	42.3	km/hr	30-Jun	13:00 14:00
Maximum 24-hr Value:	24.1	km/hr	30-Jun	



Calm Time:	2 hrs	0% calms	Operational Time:	717 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.9%				
Percentile	99	95	75	50	25	5	1	AverageV
	32.1	22.6	13.8	10.4	7.0	3.6	1.8	7.6 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-Jun-07	6	6	6	4	7	6	5	6	6	4	8	9	8	10	11	9	11	10	10	9	7	5	4	5		2.7	11.1	
2-Jun-07	5	2	2	4	1	4	5	5	4	7	11	13	12	11	9	9	8	11	11	9	8	9	8	9		5.5	12.7	
3-Jun-07	6	4	2	4	7	7	5	8	12	13	15	16	13	13	15	15	17	17	17	16	14	14	14	15		11.4	17.3	
4-Jun-07	14	13	12	13	14	15	16	17	17	18	21	21	21	20	19	21	20	18	13	10	8	3	1	9		13.8	21.2	
5-Jun-07	6	7	16	14	10	14	16	15	11	10	14	16	14	13	13	13	14	15	15	6	13	12	11	13		8.8	15.9	
6-Jun-07	11	10	14	15	17	15	12	9	11	11	11	10	11	11	10	9	10	9	6	10	9	7	6	5		9.6	16.6	
7-Jun-07	3	5	4	6	7	9	10	11	11	10	12	11	13	18	24	26	23	23	20	19	11	16	23	17		12.5	25.9	
8-Jun-07	13	14	10	11	12	11	13	14	13	11	11	11	12	15	16	16	16	15	12	11	7	8	11	2		10.9	16.5	
9-Jun-07	7	7	8	5	3	7	12	11	13	14	15	13	12	14	16	16	18	20	18	18	14	11	15	17		12.4	19.9	
10-Jun-07	15	14	13	14	11	9	6	7	8	6	7	8	6	12	10	7	7	8	9	15	13	13	3	12		6.1	14.8	
11-Jun-07	11	3	5	9	8	9	14	15	14	12	9	8	10	11	4	5	6	8	17	14	14	17	12	13		9.4	17.1	
12-Jun-07	19	19	19	19	21	20	21	19	17	18	20	17	16	16	18	18	16	14	16	21	23	20	13	12		16.9	22.7	
13-Jun-07	12	5	5	9	9	9	8	10	10	8	4	4	7	1	5	12	19	18	13	10	9	8	8	7		8.8	18.7	
14-Jun-07	7	7	8	10	11	10	11	13	12	11	10	7	4	8	10	8	13	16	17	11	14	8	7	6		8.5	16.7	
15-Jun-07	5	5	7	7	8	6	7	9	6	3	5	6	9	10	10	11	16	23	9	17	10	9	7	6		0.3	23.1	
16-Jun-07	6	7	8	9	9	6	9	8	10	8	8	9	9	10	12	13	11	15	11	9	5	7	8	7		2.8	15.1	
17-Jun-07	8	6	7	8	10	11	10	9	9	6	7	4	16	10	7	4	7	8	11	7	6	2	1	4		5.4	16.3	
18-Jun-07	calm	5	7	5	11	9	6	6	3	5	6	5	13	18	18	19	30	33	32	27	18	13	12	13		13.1	32.8	
19-Jun-07	13	13	12	12	13	12	13	12	14	11	11	7	8	9	7	12	13	14	13	10	11	9	8	8		7.7	13.8	
20-Jun-07	9	8	7	3	3	7	6	6	9	13	13	13	11	12	12	9	10	11	12	7	6	5	6		8.9	12.9		
21-Jun-07	7	6	12	11	8	9	7	3	10	15	21	23	29	30	30	28	27	26	24	21	13	13	11	9		11.8	29.8	
22-Jun-07	6	7	4	4	3	calm	8	8	10	11	8	7	8	17	10	8	7	6	3	3	8	13	12	10		4.5	17.1	
23-Jun-07	10	8	10	10	12	11	13	18	23	23	23	23	25	25	24	22	24	24	21	16	15	12	11	7		15.8	24.9	
24-Jun-07	8	7	2	7	7	8	8	10	13	9	6	6	8	6	3	3	6	12	9	10	7	5	5	3		3.9	12.7	
25-Jun-07	6	7	8	6	7	4	9	12	13	10	6	9	12	9	11	13	10	4	11	10	5	16	16	13		6.2	16.1	
26-Jun-07	8	7	6	6	6	8	9	13	15	16	12	12	12	8	7	7	7	6	11	13	12	11	11	11		2.8	15.6	
27-Jun-07	13	14	15	15	14	13	14	P	10	8	7	6	5	9	8	4	6	8	19	10	13	7	4	3		5.0	18.8	
28-Jun-07	12	5	5	3	6	6	6	7	6	3	1	10	12	12	13	12	12	11	11	12	13	10	2	15		5.9	15.4	
29-Jun-07	14	7	6	5	6	5	2	5	6	1	8	10	12	12	13	9	2	12	8	12	10	9	15	19		2.5	18.7	
30-Jun-07	18	14	14	14	13	15	16	15	18	21	31	33	41	42	40	37	35	32	31	30	26	15	16	19		24.1	42.3	
1-hr Vector	2.5	1.5	1.7	2.9	3.0	3.1	4.3	5.8	5.5	3.9	3.4	3.2	3.2	2.8	2.9	3.4	4.7	2.8	2.6	1.8	0.5	1.3	2.5	2.7				
Hourly Max	18.6	19.1	19.2	19.3	20.6	20.1	21.1	19.3	23.1	23.3	30.6	32.8	40.7	42.3	40.2	37.4	34.8	32.8	32.1	29.6	25.8	20.1	22.6	18.7				

# PASZA - Henry Pirker - Wind Direction Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**


Calm Time:	0 hrs	0% calms	Operational Time:	719 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	99.9%				
Percentile	99	95	75	50	25	5	1	Average
	345.5	315.8	261.3	222.3	83.2	35.6	13.2	251 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-Jun-07	300	282	307	283	285	290	232	237	216	217	116	124	74	70	61	82	70	40	50	110	70	50	13	25	59	ENE	
2-Jun-07	290	326	129	194	110	346	196	251	245	36	36	40	58	58	51	69	53	56	61	70	57	45	55	61	53	NE	
3-Jun-07	52	36	41	292	11	20	68	83	93	91	88	90	79	88	81	72	67	74	79	78	75	70	69	75	74	ENE	
4-Jun-07	79	78	77	78	76	76	79	87	87	89	94	97	95	90	83	77	81	78	115	139	134	145	204	275	90	E	
5-Jun-07	342	227	247	245	258	255	257	272	241	249	256	286	273	284	277	271	267	284	284	343	64	64	24	44	276	W	
6-Jun-07	37	38	30	31	29	40	40	39	17	29	27	34	39	42	51	359	349	22	33	95	109	127	118	137	40	NE	
7-Jun-07	119	113	154	189	171	201	214	211	202	201	197	204	240	239	238	239	250	246	253	258	267	241	242	257	231	SW	
8-Jun-07	270	261	289	261	251	265	248	246	258	282	262	255	276	287	282	268	278	281	283	324	10	165	292	29	273	W	
9-Jun-07	32	26	20	24	56	74	89	73	87	80	76	83	77	79	72	76	77	80	76	94	111	82	97	94	78	ENE	
10-Jun-07	95	91	95	100	108	117	120	167	157	175	232	254	227	123	118	88	146	145	80	74	79	83	316	329	110	ESE	
11-Jun-07	300	260	224	208	222	271	255	262	287	286	263	274	270	294	264	284	287	261	203	203	191	205	207	222	247	WSW	
12-Jun-07	228	236	238	239	239	237	237	246	256	267	277	281	282	284	285	282	301	282	274	254	244	242	233	235	256	WSW	
13-Jun-07	240	273	232	255	258	230	233	229	239	231	231	237	193	104	340	249	250	258	271	278	278	226	258	263	247	WSW	
14-Jun-07	285	256	263	240	231	227	213	230	247	261	256	276	302	77	129	218	238	237	231	205	290	296	222	220	242	WSW	
15-Jun-07	257	225	237	223	222	255	270	272	270	297	4	335	52	43	55	67	183	154	46	349	5	75	141	168	2	N	
16-Jun-07	312	303	322	330	329	321	22	44	102	74	67	79	54	49	45	42	103	158	168	248	191	183	272	290	47	NE	
17-Jun-07	301	278	214	236	245	239	231	225	218	221	217	290	294	261	206	256	312	342	16	16	38	353	337	300	270	W	
18-Jun-07	279	163	300	290	259	305	293	263	159	217	238	255	236	250	274	242	256	249	253	256	264	245	227	225	253	WSW	
19-Jun-07	223	224	261	251	255	252	269	243	273	296	303	273	278	272	281	293	250	222	232	5	31	51	54	55	268	W	
20-Jun-07	78	92	87	71	79	103	90	105	96	85	83	82	92	80	75	90	79	90	82	33	40	55	42	30	77	ENE	
21-Jun-07	56	74	85	114	103	117	195	265	271	243	234	253	251	244	243	249	255	259	265	270	287	279	298	318	253	WSW	
22-Jun-07	320	151	159	316	330	268	186	217	181	156	161	135	101	236	223	149	313	304	329	333	145	164	183	206	197	SSW	
23-Jun-07	226	222	155	154	193	226	234	243	261	269	271	260	255	259	245	249	243	251	242	227	223	221	226	241	242	WSW	
24-Jun-07	252	188	358	160	163	184	205	229	242	224	216	196	151	190	229	306	94	75	92	120	118	95	95	57	174	S	
25-Jun-07	74	145	210	217	265	193	235	238	244	264	278	284	280	290	279	302	271	67	104	146	196	261	256	279	253	WSW	
26-Jun-07	296	289	224	191	199	221	247	248	247	254	268	274	287	301	294	322	330	75	88	81	87	86	77	71	275	W	
27-Jun-07	68	73	76	81	83	87	90	P	119	161	193	274	264	296	328	24	64	78	321	348	318	64	35	329	45	NE	
28-Jun-07	64	82	135	127	328	3	28	59	116	81	101	74	80	80	77	77	68	63	13	308	345	7	314	288	47	NE	
29-Jun-07	317	315	254	162	248	298	267	223	241	151	79	78	93	83	72	44	234	355	37	53	55	23	289	282	4	N	
30-Jun-07	258	262	265	244	226	225	232	223	243	255	246	247	245	245	246	247	245	245	244	240	242	229	216	214	242	4	WSW
Hourly Avg	305	236	236	221	238	241	227	236	231	240	241	260	261	267	268	278	260	253	271	288	315	157	258	278			N



## PASZA - Henry Pirker - Standard Deviation of Wind Direction Monthly Summary

Station: Henry Pirker  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**


Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	719 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	99.9%			
Percentile	99	95	75	50	25	5	1
	61.8	48.6	25.4	14.6	9.2	5.4	4.7

**Status Flag Characters**

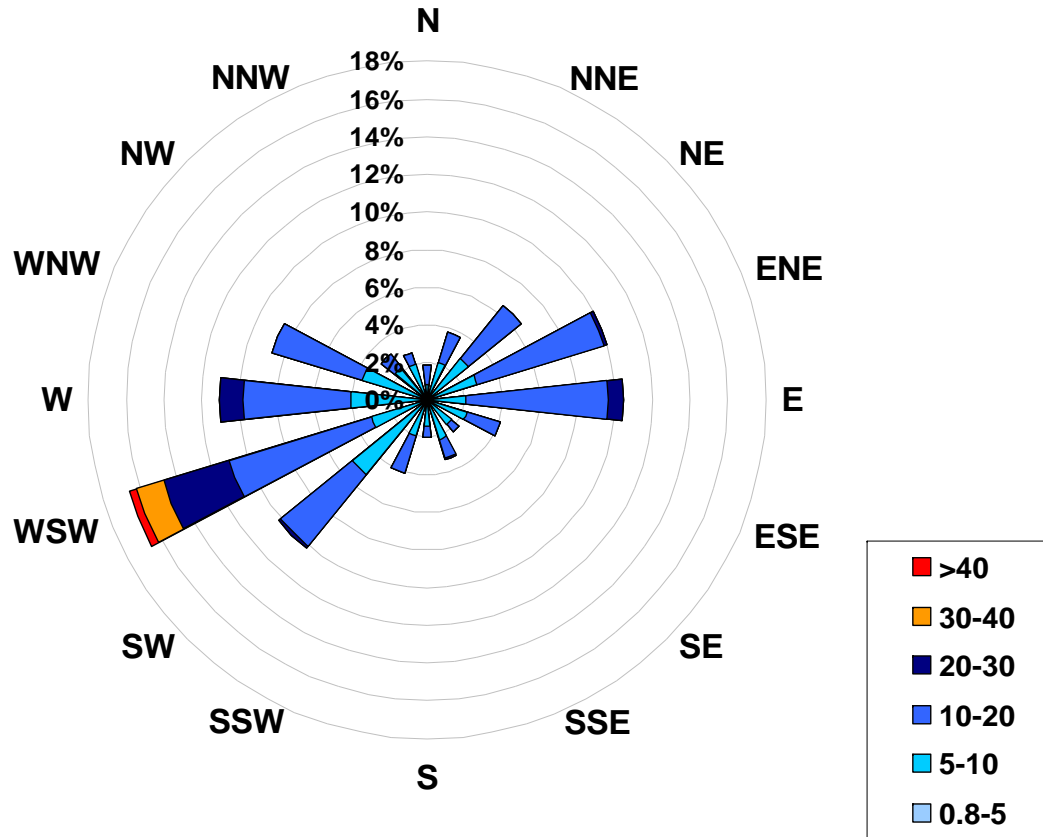
C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

**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-Jun-07	18	18	11	41	9	10	41	17	20	40	25	28	33	24	18	24	15	16	18	17	16	23	29	14		41.1	
2-Jun-07	16	49	36	16	28	17	24	25	64	32	20	15	17	22	27	24	29	17	15	10	8	9	9	9		64.4	
3-Jun-07	15	26	48	48	13	24	26	15	11	13	12	12	19	19	14	16	11	12	9	7	6	6	7	6		48.5	
4-Jun-07	6	5	5	5	4	5	6	8	9	10	10	10	10	14	12	8	8	5	21	12	20	39	40	14		40.1	
5-Jun-07	17	31	6	22	9	6	6	7	49	44	10	7	8	9	9	10	7	6	8	25	15	10	10	8		49.5	
6-Jun-07	15	12	10	10	9	10	11	15	11	18	27	24	27	26	32	35	25	28	46	15	11	9	13	32		45.7	
7-Jun-07	35	11	32	23	8	13	10	13	13	19	16	23	20	13	9	6	8	9	7	6	10	13	4	10		35.1	
8-Jun-07	5	8	19	6	7	9	9	7	10	13	17	20	20	19	16	14	9	9	14	12	14	15	14	54		54.4	
9-Jun-07	25	24	13	28	34	13	9	10	12	13	13	18	19	18	18	16	10	7	9	8	14	10	9	6		34.0	
10-Jun-07	6	6	7	8	11	10	14	20	17	35	38	31	37	16	19	30	27	31	22	8	7	6	33	18		37.7	
11-Jun-07	6	52	27	10	15	12	8	9	11	18	31	28	20	20	61	54	62	30	9	8	8	9	8	11		62.0	
12-Jun-07	8	6	5	5	5	5	5	6	7	8	7	6	6	10	10	10	7	10	7	7	5	4	7	7		10.1	
13-Jun-07	7	45	34	17	13	12	13	14	19	25	62	58	45	46	58	28	13	10	8	4	6	11	14	30		62.1	
14-Jun-07	21	23	15	12	13	10	10	9	12	17	24	39	58	23	25	24	20	15	11	19	7	14	18	19		57.7	
15-Jun-07	27	44	18	15	12	17	16	10	34	69	56	45	35	25	25	25	24	14	16	5	11	12	15	9		68.9	
16-Jun-07	31	16	6	7	9	15	16	19	19	30	36	34	28	29	19	17	20	8	14	12	26	13	12	14		35.6	
17-Jun-07	8	18	18	14	9	9	11	13	18	41	23	60	22	22	35	59	40	33	18	29	22	41	46	39		59.8	
18-Jun-07	81	38	40	72	11	9	16	26	58	51	46	61	29	11	14	11	8	8	5	5	5	7	7	6		80.5	
19-Jun-07	6	6	16	11	9	11	8	13	13	17	20	32	41	36	59	12	22	13	21	14	14	13	14	14		59.2	
20-Jun-07	8	10	14	42	41	29	18	28	32	23	11	12	14	19	14	18	25	19	11	14	48	34	52	23		51.8	
21-Jun-07	15	44	8	10	9	14	20	28	20	13	33	30	10	11	7	9	9	9	7	6	5	5	10	9		44.4	
22-Jun-07	50	23	39	42	55	59	30	15	15	15	24	47	30	32	44	33	40	45	53	48	14	29	12	9		58.7	
23-Jun-07	20	25	10	8	10	10	9	7	6	7	9	12	10	10	8	13	10	11	7	9	8	7	7	17		25.3	
24-Jun-07	14	22	45	9	9	9	20	12	14	23	48	51	49	40	58	42	26	10	15	14	10	18	21	46		58.3	
25-Jun-07	10	21	14	25	27	39	13	11	9	16	35	23	18	43	25	10	26	33	12	11	20	6	6	5		43.0	
26-Jun-07	12	19	20	15	30	17	21	10	13	13	21	22	24	52	58	43	39	48	18	10	7	5	5	5		57.6	
27-Jun-07	5	5	5	5	5	7	8	P	22	27	40	41	52	29	39	68	40	34	13	27	24	47	40	24		68.0	
28-Jun-07	9	40	22	23	22	28	21	27	34	43	60	20	18	19	17	15	14	11	11	27	34	11	25	8		59.8	
29-Jun-07	10	15	28	24	17	40	41	42	31	70	39	25	19	16	18	25	52	19	28	13	14	16	20	9		70.1	
30-Jun-07	10	9	6	7	8	7	6	7	6	6	5	6	6	5	5	5	17	6	5	5	5	9	8	7		16.7	

Hourly Max	81	52	48	72	55	59	41	42	64	70	62	61	58	52	61	68	62	48	53	48	48	47	52	54
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1-hr Average Wind Rose (in km/hr) Located at the Henry Pirker Site for June 2007



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	8
5	to	10	280
10	to	20	373
20	to	30	44
30	to	40	11
	>	40	3
Total Non-Zero Values			719

# 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

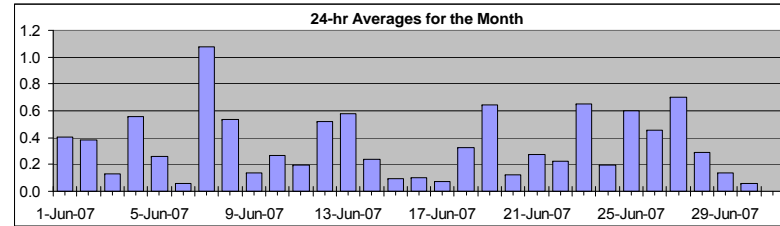
## Sulphur Dioxide (SO<sub>2</sub>)

Monitoring Dates: June 1, 2007 to July 1, 2007

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

Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	7.8 ppb	7-Jun	15:00	16:00
Maximum 24-hr Average:	1.1 ppb	7-Jun		

AIC Time:	32 hrs	Operational Time:	682 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.8	1.5	0.3	0.1	0.1	0.0	0.0	0.3 ppb	0.1 ppb



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jun-07	A	0	0	0	0	0	0	1	2	1	1	2	1	0	0	0	0	0	0	0	0	0	0	A	0.4	1.8
2-Jun-07	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	A	0	0.4	2.3
3-Jun-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	0.1	0.2
4-Jun-07	0	0	0	0	0	0	1	1	1	1	2	1	1	1	1	0	1	1	0	0	A	0	0	0	0.6	1.7
5-Jun-07	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	2.4
6-Jun-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	0.1	0.3
7-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	8	3	A	4	0	0	0	0	0	1.1	7.8
8-Jun-07	0	0	0	0	0	0	0	3	2	1	1	0	0	0	1	1	A	0	0	0	0	0	0	0	0.5	3.0
9-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.1	0.3
10-Jun-07	0	0	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	0	1	0	0	0	0	0	0.3	1.4
11-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0.2	0.5
12-Jun-07	0	0	0	0	0	0	0	4	3	0	1	0	A	0	0	0	0	0	2	0	0	0	0	0	0.5	3.8
13-Jun-07	0	0	0	0	0	0	0	1	2	2	2	A	1	2	1	1	0	0	0	0	0	0	0	0	0.6	2.1
14-Jun-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0.2	1.0
15-Jun-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	0.1	0.3
16-Jun-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	0.1	0.4
17-Jun-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	0.1	0.2
18-Jun-07	0	0	0	0	0	0	A	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0.3	1.2
19-Jun-07	0	0	0	0	0	A	2	3	1	1	1	0	1	0	0	2	2	1	0	0	0	0	0	0	0.6	2.6
20-Jun-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	0.4
21-Jun-07	0	0	0	A	0	0	0	0	0	0	0	0	C	C	C	C	A	2	0	0	0	0	0	0	0.3	2.4
22-Jun-07	0	0	0	0	0	A	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0.2	0.9
23-Jun-07	0	0	0	0	A	0	0	0	1	1	0	0	6	1	0	4	1	0	0	0	0	0	0	0	0.6	6.0
24-Jun-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0.2	0.9
25-Jun-07	0	0	A	0	0	0	0	1	2	1	2	1	1	0	2	1	0	0	0	0	0	0	0	0	0.6	2.1
26-Jun-07	1	A	0	0	0	0	0	1	4	1	0	0	1	0	C	C	0	0	0	0	0	0	0	0	0.5	4.1
27-Jun-07	0	0	0	0	0	A	0	1	5	3	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0.7	4.9
28-Jun-07	0	0	0	0	A	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	0.8
29-Jun-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	0.1	0.4
30-Jun-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	0.1	0.1
Hourly Avg	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.7	0.9	0.6	0.6	0.5	0.6	0.4	0.5	0.8	0.5	0.3	0.4	0.1	0.1	0.1	0.1	0.1		
Hourly Max	0.7	0.3	0.4	0.3	0.3	0.4	2.4	3.8	4.9	2.8	2.3	1.8	6.0	2.7	5.0	7.8	2.8	1.1	4.0	0.4	0.9	0.3	0.3	0.4		

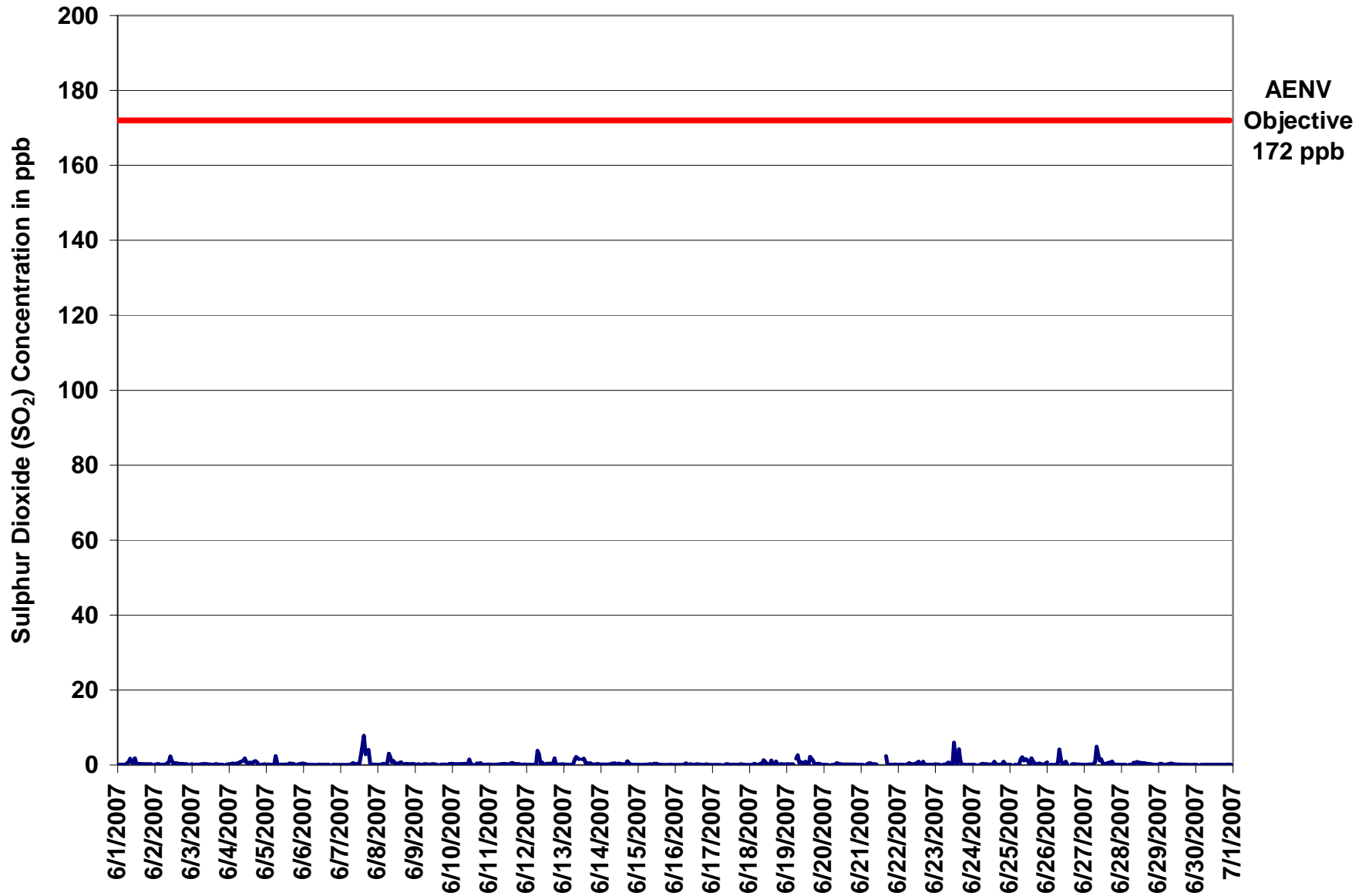


Figure 20. PASZA - Evergreen Park Sulphur Dioxide 1-hr Average Monthly Trend

Station: Evergreen Park  
 Station Owner: PASZA

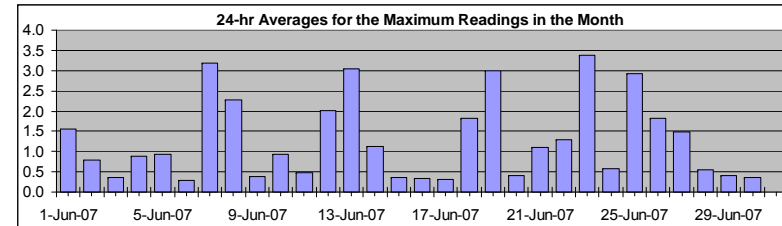
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Sulphur Dioxide (SO<sub>2</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	22.8	ppb	23-Jun	15:00 16:00
Maximum 24-hr Value:	3.4	ppb	23-Jun	



AIC Time:	32 hrs	Operational Time:	682 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	12.5	8.0	0.6	0.4	0.3	0.2	0.2	1.3 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	0:00	24-hour Average	Daily Maximum
1-Jun-07	A	0	0	0	0	0	4	5	11	2	1	4	1	1	1	1	0	0	0	0	1	0	A	1.6	11.2	
2-Jun-07	0	0	1	0	0	0	0	1	1	1	5	2	1	1	1	1	1	1	0	0	1	A	0	0.8	5.0	
3-Jun-07	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0.4	0.6	
4-Jun-07	0	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	0	A	0	0	0	0.9	2.7	
5-Jun-07	0	0	0	0	0	0	12	1	0	0	1	0	0	0	1	1	1	0	A	0	0	1	1	0.9	11.9	
6-Jun-07	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	0.6	
7-Jun-07	0	0	0	0	0	0	1	1	2	1	0	3	1	9	13	16	11	A	12	1	0	0	0	3.2	16.4	
8-Jun-07	0	0	0	1	1	1	1	8	12	4	5	2	1	1	5	8	A	1	1	1	1	1	1	2.3	11.8	
9-Jun-07	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	A	0	0	1	0	0	0	1	0.4	0.6	
10-Jun-07	1	1	0	0	0	1	1	0	1	1	0	7	1	0	A	0	1	1	3	1	0	0	0	0.9	7.4	
11-Jun-07	0	0	0	0	0	0	0	0	0	1	0	1	1	A	1	2	1	1	1	0	0	0	0	0.5	1.7	
12-Jun-07	0	0	0	0	0	0	0	10	10	1	4	0	A	1	0	6	1	0	8	0	0	0	0	2.0	10.3	
13-Jun-07	0	0	0	0	0	0	1	6	9	6	10	A	9	12	6	3	0	3	0	0	0	0	0	3.1	12.5	
14-Jun-07	0	0	0	0	0	0	0	2	1	1	A	1	1	0	0	0	0	12	4	0	0	0	0	1.1	12.4	
15-Jun-07	0	0	0	0	0	0	0	0	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0.4	1.3	
16-Jun-07	0	0	0	0	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.3	0.8	
17-Jun-07	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4	
18-Jun-07	0	0	0	1	0	0	A	1	0	7	8	0	0	1	10	0	0	8	0	0	0	0	0	1.8	10.2	
19-Jun-07	0	0	0	0	0	A	5	9	1	4	3	1	5	1	1	14	12	9	0	0	1	1	0	3.0	13.5	
20-Jun-07	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0	
21-Jun-07	0	0	0	A	2	1	2	0	0	0	0	C	C	C	C	A	10	0	0	0	0	0	0	1.1	10.2	
22-Jun-07	0	0	0	0	0	A	1	1	1	0	4	5	1	6	0	1	5	0	0	0	0	0	0	1.3	5.6	
23-Jun-07	0	0	0	0	A	1	1	0	5	5	0	0	17	14	0	23	8	0	0	0	0	0	0	3.4	22.8	
24-Jun-07	0	0	0	A	0	0	1	1	1	0	0	0	0	1	3	0	0	0	0	1	1	1	0	0.6	2.6	
25-Jun-07	0	0	A	0	0	0	3	4	7	4	8	8	8	0	9	10	1	1	0	1	0	0	1	2.9	10.0	
26-Jun-07	1	A	0	0	0	0	1	3	13	10	1	3	4	0	C	C	0	0	0	0	0	0	0	1.8	12.6	
27-Jun-07	0	0	0	0	0	A	1	3	7	4	2	8	1	1	1	1	1	1	2	0	0	0	0	1.5	8.3	
28-Jun-07	0	0	0	0	A	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0.6	1.0	
29-Jun-07	1	1	0	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7	
30-Jun-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
Hourly Avg	0.4	0.3	0.3	0.3	0.4	0.4	1.3	2.1	3.0	2.0	2.1	1.9	2.0	1.9	2.1	3.4	2.0	1.5	1.3	0.4	0.4	0.4	0.4	0.4		
Hourly Max	1.3	0.6	0.6	0.7	1.6	1.4	11.9	10.3	12.6	9.7	10.3	8.3	16.6	13.7	13.0	22.8	12.4	12.4	12.3	1.3	1.2	1.0	0.6	1.2		

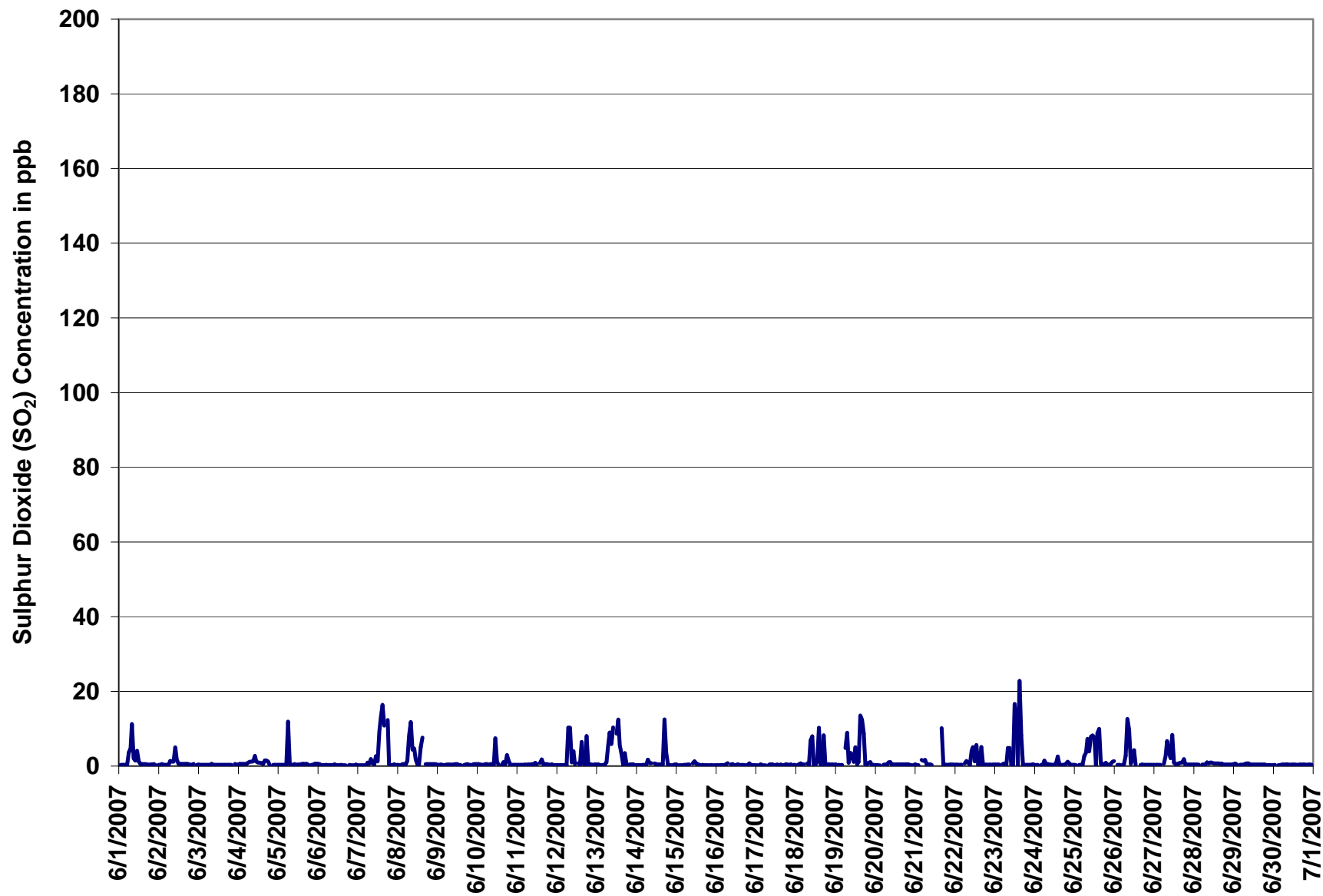
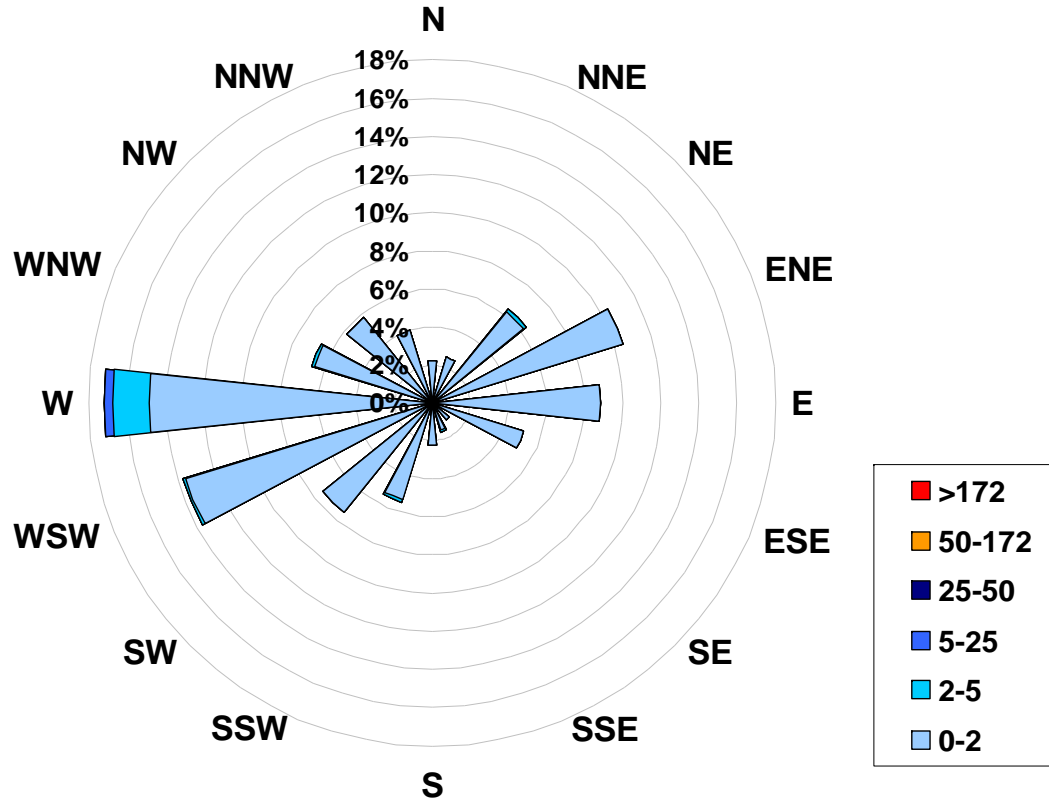


Figure 21. PASZA - Evergreen Park Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			
Range		Frequency (hrs)	
0.0	< 2	661	
2	to 5	18	
5	to 25	3	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values			682



## PASZA - Evergreen Park - Total Reduced Sulphur Monthly Summary

Station: Evergreen Park  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

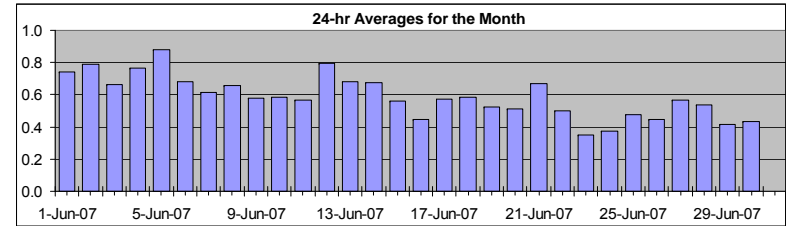
### Total Reduced Sulphur (TRS)

Monitoring Dates: June 1, 2007 to July 1, 2007

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

Maximum 1-hr Average:	2.0	ppb	7-Jun	15:00 16:00
Maximum 24-hr Value:	0.9	ppb	5-Jun	

AIC Time:	32 hrs	Operational Time:	682 hrs						
Calibration Time:	6 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	0.3	0.2	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																								24-hour Average	Daily Maximum			
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	0:00
1-Jun-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	1.1
2-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	A	1	0.8	1.4	
3-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	A	1	1	0.7	1.1	
4-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.3	
5-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.9	1.4	
6-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	A	1	1	0	0	0	0.7	1.0	
7-Jun-07	0	0	0	0	0	1	1	0	0	0	0	1	0	1	0	1	1	2	1	A	1	1	1	1	0	1	0.6	2.0	
8-Jun-07	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	A	1	1	1	1	0	0	1	1	0.7	1.0	
9-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	A	0	0	0	0	1	0	1	1	1	0.6	0.8	
10-Jun-07	1	0	0	1	1	1	1	1	1	1	1	1	1	0	A	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9	
11-Jun-07	1	1	1	1	1	1	1	1	1	0	1	0	1	1	A	0	1	0	0	0	0	0	1	1	1	1	0.6	1.0	
12-Jun-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	1	1	0.8	1.0	
13-Jun-07	1	1	1	1	1	0	1	1	1	1	1	1	A	0	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0	
14-Jun-07	1	1	1	1	1	1	1	1	1	1	1	A	1	0	1	1	1	1	1	1	1	1	1	0	1	1	0.7	1.0	
15-Jun-07	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0.6	1.1	
16-Jun-07	0	1	1	0	0	0	0	0	0	A	0	1	1	0	0	0	0	0	1	1	0	0	1	1	0	1	0.4	0.6	
17-Jun-07	1	1	1	1	1	1	1	1	A	0	0	1	1	1	1	1	1	1	0	0	0	1	0	0	1	1	0.6	0.8	
18-Jun-07	1	1	1	1	1	1	A	1	1	1	1	0	1	1	1	1	1	1	0	1	0	0	1	1	1	1	0.6	0.9	
19-Jun-07	1	1	1	1	1	A	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1	0.5	0.7	
20-Jun-07	1	0	0	0	A	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0.5	0.8	
21-Jun-07	1	1	1	A	1	1	1	1	1	1	1	1	C	C	C	C	A	1	1	1	1	1	1	1	1	1	0.7	1.0	
22-Jun-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5	0.8	
23-Jun-07	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0.3	0.5	
24-Jun-07	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0.4	0.7	
25-Jun-07	0	0	A	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0.5	0.7	
26-Jun-07	1	A	0	1	0	0	1	1	0	1	0	0	0	0	0	C	C	0	0	0	0	0	0	0	0	0	0.4	0.7	
27-Jun-07	0	0	0	0	0	A	1	1	2	1	0	1	0	0	1	0	0	1	0	0	1	0	1	1	0	1	0.6	1.7	
28-Jun-07	1	1	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	0	0	1	0.5	0.8	
29-Jun-07	0	1	1	A	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6	
30-Jun-07	1	0	A	1	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	0	0.4	0.6	
Hourly Avg	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.6			
Hourly Max	1.4	1.4	1.4	1.3	1.1	1.1	1.2	1.1	1.7	1.1	0.9	0.9	0.7	0.9	1.2	2.0	0.9	1.0	0.9	0.8	1.0	1.0	0.8	1.3					

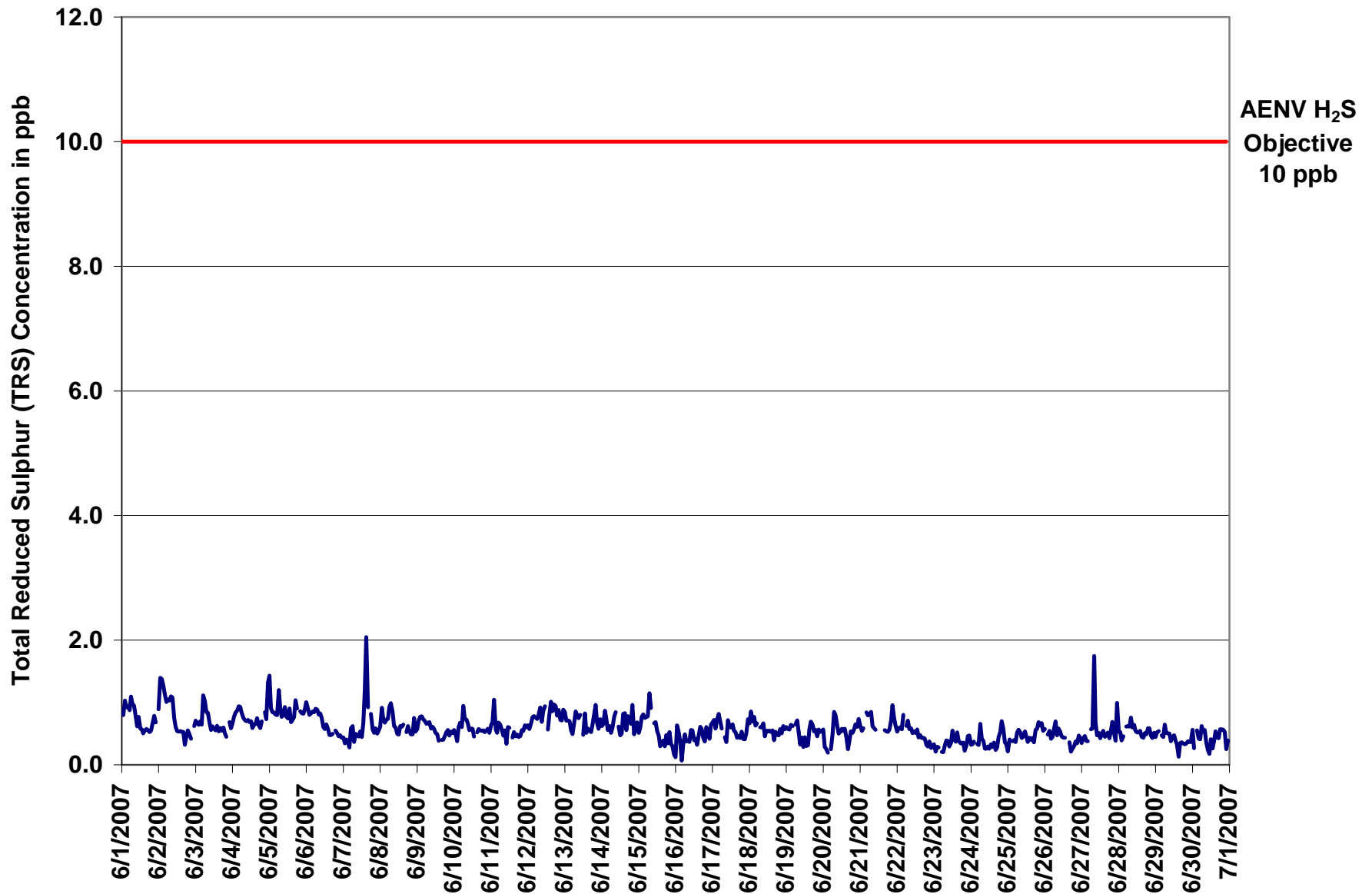


Figure 22. PASZA - Evergreen Park Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Evergreen Park  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

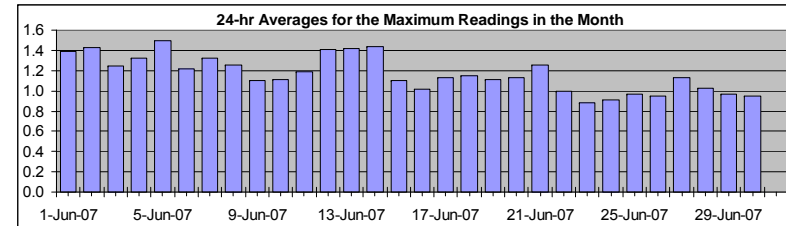
**Total Reduced Sulphur (TRS)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	4.2	ppb	7-Jun	15:00 16:00
Maximum 24-hr Value:	1.5	ppb	5-Jun	

AIC Time:	32 hrs	Operational Time:	682 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.3	1.7	1.3	1.1	1.0	0.8	0.7	1.2 ppb	1.1 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-Jun-07	A	1	2	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.4	2.5
2-Jun-07	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.4	2.3
3-Jun-07	1	1	1	1	1	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.3	1.9
4-Jun-07	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	A	1	1	2	1.3	2.2
5-Jun-07	2	2	1	1	1	1	2	2	1	1	1	1	2	1	1	1	2	1	A	1	1	1	1	1	1.5	2.3
6-Jun-07	1	2	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	A	1	1	1	1	1	1	1.2	1.6
7-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	4	3	A	2	1	1	1	1	1	1.3	4.2
8-Jun-07	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1.3	2.1
9-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.1	1.3
10-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1.1	1.4
11-Jun-07	1	1	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1.2	2.2
12-Jun-07	1	1	1	1	1	1	1	1	1	1	2	2	A	1	1	2	2	2	2	2	1	1	1	1	1.4	1.9
13-Jun-07	1	1	1	1	1	1	2	2	2	1	2	A	2	2	2	1	1	1	1	2	2	1	1	2	1.4	2.2
14-Jun-07	1	1	1	1	1	1	1	1	1	2	A	1	1	1	1	1	1	4	2	2	2	1	1	1	1.4	3.7
15-Jun-07	1	1	1	1	1	1	1	1	2	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.8
16-Jun-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	1.0	1.3
17-Jun-07	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.4
18-Jun-07	1	1	1	1	1	1	A	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.5
19-Jun-07	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1.1	1.5
20-Jun-07	1	1	1	1	A	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.2
21-Jun-07	1	1	1	A	2	2	1	1	1	1	1	C	C	C	C	A	1	1	1	1	1	1	1	1	1.3	1.7
22-Jun-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	1.3
23-Jun-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	0.9	1.5
24-Jun-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
25-Jun-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	1.0	1.3
26-Jun-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	C	C	1	1	1	1	1	1	1	1	0.9	1.4
27-Jun-07	1	1	1	1	1	A	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.1	2.8
28-Jun-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	1.0	1.3
29-Jun-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.2
30-Jun-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	1.1
Hourly Avg	1.1	1.1	1.2	1.1	1.2	1.2	1.4	1.3	1.4	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1		
Hourly Max	2.1	2.0	2.2	1.9	1.7	1.9	2.3	2.3	2.8	1.8	1.7	1.5	2.1	2.2	2.9	4.2	2.7	3.7	1.9	2.1	2.2	1.4	1.4	2.2		

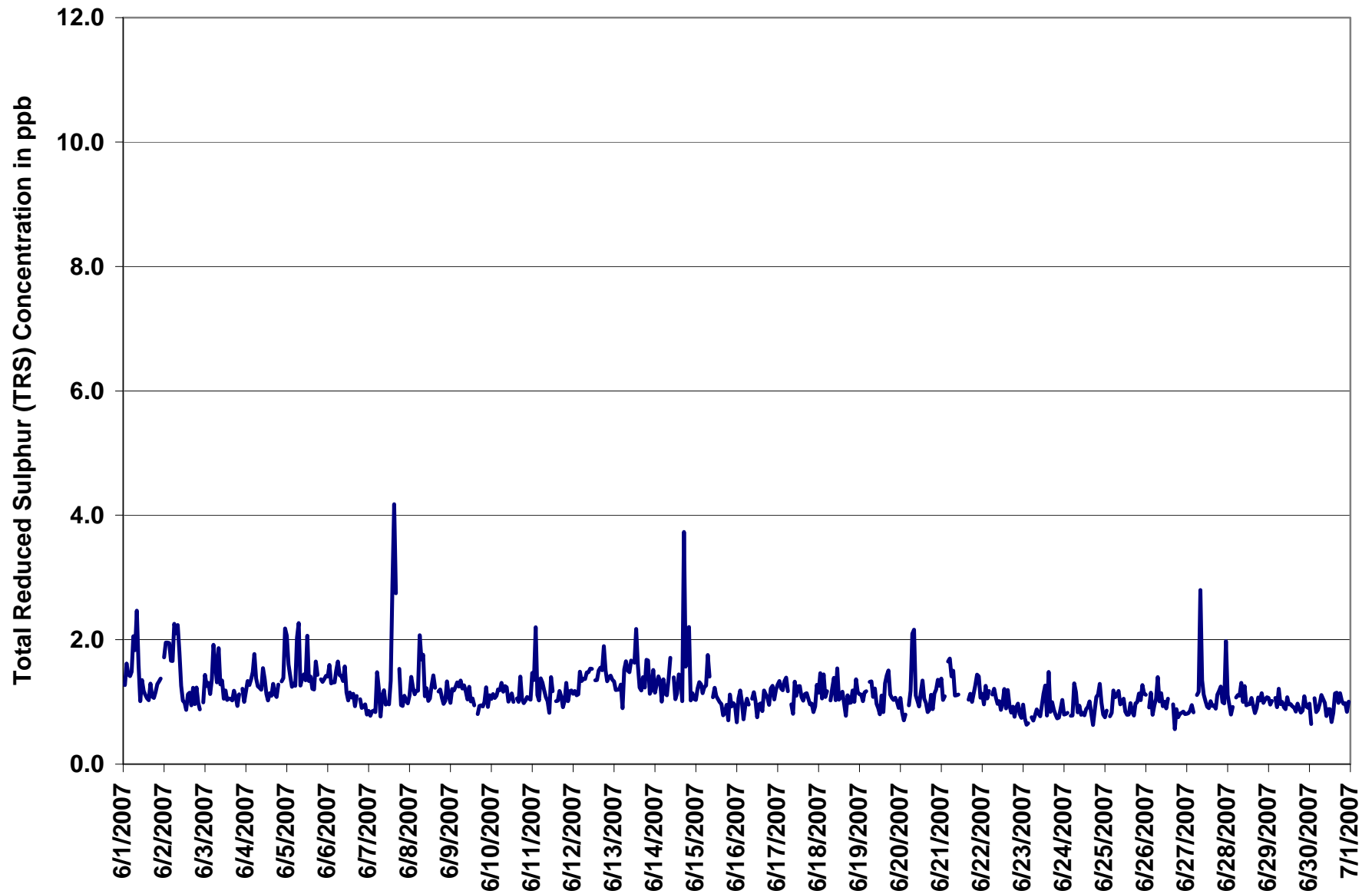
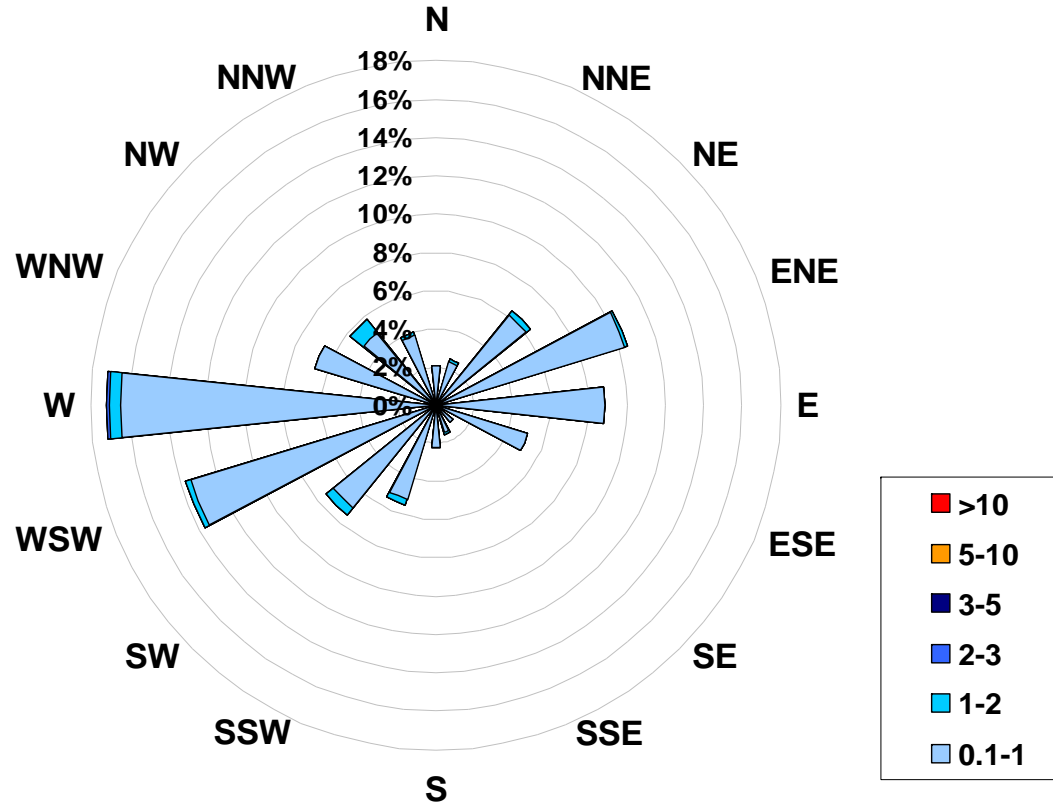


Figure 23. PASZA - Evergreen Park Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



<b>Calms:</b>	<b>0%</b>
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Frequency Distribution of TRS in ppb			
Range		Frequency (hrs)	
0.1	< 1	658	
1	to 2	23	
2	to 3	1	
3	to 5	0	
5	to 10	0	
	> 10	0	
Total Non-Zero Values		682	

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

Station: Evergreen Park  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

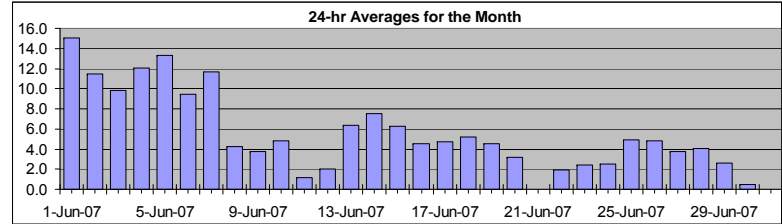
### Particulate Matter (PM<sub>2.5</sub>)

Monitoring Dates: June 1, 2007 to July 1, 2007

Draft Objective Limit: Alberta Environment: 1-hr - µg/m<sup>3</sup> 24-hr 30 µg/m<sup>3</sup>  
 Summary

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	63.9 µg/m <sup>3</sup> 1-Jun 0:00 1:00
Maximum 24-hr Value:	15.0 µg/m <sup>3</sup> 1-Jun

AIC Time:	0 hrs	Operational Time:	699 hrs
Calibration Time:	12 hrs	AMD Operational Uptime:	98.8%
Percentile	99	95	75
	29.9	15.6	8.3
	50	25	5
	4.1	1.2	0.0
	0.0	0.0	5.7
	Average / Median		4 µg/m <sup>3</sup>
	Geomean		4.6 µg/m <sup>3</sup>



#### Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	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-Jun-07	64	30	15	9	7	13	29	26	23	16	5	6	3	5	6	11	6	5	8	16	10	19	14	15	15.0	63.9
2-Jun-07	14	13	17	14	13	16	16	17	18	19	14	10	8	8	5	7	3	5	5	10	12	11	9	12	11.4	18.5
3-Jun-07	18	17	17	14	12	22	15	15	11	7	4	9	2	3	3	5	5	4	5	4	10	11	12	11	9.8	22.5
4-Jun-07	12	11	11	11	P	12	12	12	13	13	13	10	9	11	11	12	14	14	8	13	15	14	14	11	12.0	15.1
5-Jun-07	14	12	11	12	11	9	12	9	10	6	5	5	6	5	4	8	12	14	13	4	18	29	41	50	13.3	49.6
6-Jun-07	53	38	14	D	3	11	8	1	2	0	0	0	3	0	5	5	6	5	7	7	12	15	10	12	9.4	52.6
7-Jun-07	12	11	10	8	9	18	11	13	9	3	4	2	9	27	42	43	18	11	16	0	3	0	0	1	11.7	42.5
8-Jun-07	2	3	2	2	1	3	5	10	9	5	7	5	5	0	3	3	2	4	1	6	10	5	4	6	4.3	9.8
9-Jun-07	8	9	2	4	4	3	0	1	0	3	4	3	1	0	0	2	2	4	5	12	9	7	0	7	3.7	11.9
10-Jun-07	7	8	6	7	8	8	9	9	7	2	0	0	5	9	D	0	2	0	1	6	7	2	2	5	4.8	9.5
11-Jun-07	0	1	0	0	1	7	0	0	2	D	1	0	0	0	0	1	0	5	5	2	0	0	2	0	1.1	7.0
12-Jun-07	0	0	0	1	1	1	2	10	6	0	0	1	2	0	1	1	0	0	9	5	3	2	2	2	2.0	9.9
13-Jun-07	4	3	1	2	2	6	4	11	12	4	2	3	4	5	1	15	22	14	11	5	4	8	5	5	6.4	21.6
14-Jun-07	4	5	3	2	3	7	7	9	7	8	3	2	4	20	5	5	11	16	14	19	9	8	5	7	7.6	19.8
15-Jun-07	10	8	9	9	11	14	8	9	7	2	10	11	3	0	6	0	4	10	10	3	2	0	2	1	6.3	14.1
16-Jun-07	6	8	5	8	6	6	9	0	2	2	0	4	5	2	2	4	6	5	3	6	12	2	3	3	4.6	11.9
17-Jun-07	1	4	7	6	6	6	5	9	6	4	D	0	8	1	1	2	1	9	7	0	9	8	6	3	4.7	9.3
18-Jun-07	12	8	8	4	4	6	10	9	3	10	3	1	12	8	1	0	D	6	5	2	3	0	2	1	5.2	12.2
19-Jun-07	3	3	3	2	3	8	14	14	3	0	1	0	0	1	0	6	18	9	1	9	6	4	0	1	4.5	17.9
20-Jun-07	2	2	0	2	1	8	12	2	6	5	1	0	0	3	3	1	0	5	5	0	11	5	1	3	3.2	12.1
21-Jun-07	0	0	0	0	3	4	6	12	2	D	0	D	1	C	C	C	C	C	C	D	0	0	0	0	N	12.1
22-Jun-07	0	0	1	1	3	4	4	4	7	3	0	0	1	11	1	0	1	0	0	0	3	0	1	0	1.9	11.1
23-Jun-07	0	0	1	1	0	0	2	1	4	2	0	2	14	3	3	11	3	2	4	1	0	1	0	1	2.4	14.4
24-Jun-07	1	1	1	2	5	8	11	1	0	1	1	1	1	0	2	4	4	3	1	2	5	3	1	1	2.5	10.6
25-Jun-07	4	6	4	1	3	6	6	11	10	7	7	5	3	1	8	11	2	2	4	4	3	3	4	5	4.9	11.1
26-Jun-07	3	3	3	3	3	5	8	9	18	10	7	3	7	2	C	C	C	C	C	C	0	0	2	2	4.8	17.7
27-Jun-07	1	0	0	0	1	2	2	3	5	7	7	11	5	2	2	7	5	4	6	8	5	2	2	1	3.7	10.9
28-Jun-07	0	0	1	1	2	4	3	1	4	5	8	6	5	6	8	7	7	7	8	12	0	0	1	2	4.1	11.8
29-Jun-07	0	1	2	1	1	5	7	3	4	5	3	2	1	0	3	1	11	3	7	0	0	0	2	0	2.6	11.4
30-Jun-07	0	0	0	1	1	2	1	0	0	0	0	0	0	0	1	0	1	0	1	0	1	1	0	0	0.5	1.8
Hourly Avg	8.5	6.9	5.2	4.4	4.4	7.4	8.0	7.7	7.0	5.3	3.8	3.5	4.3	4.6	4.7	6.1	6.1	5.9	6.0	5.6	6.1	5.3	5.0	5.6		
Hourly Max	63.9	38.3	16.9	14.4	12.9	22.5	29.5	26.3	23.4	18.5	14.2	11.2	14.4	27.4	42.2	42.5	21.6	15.8	16.0	18.6	18.5	28.8	41.1	49.6		

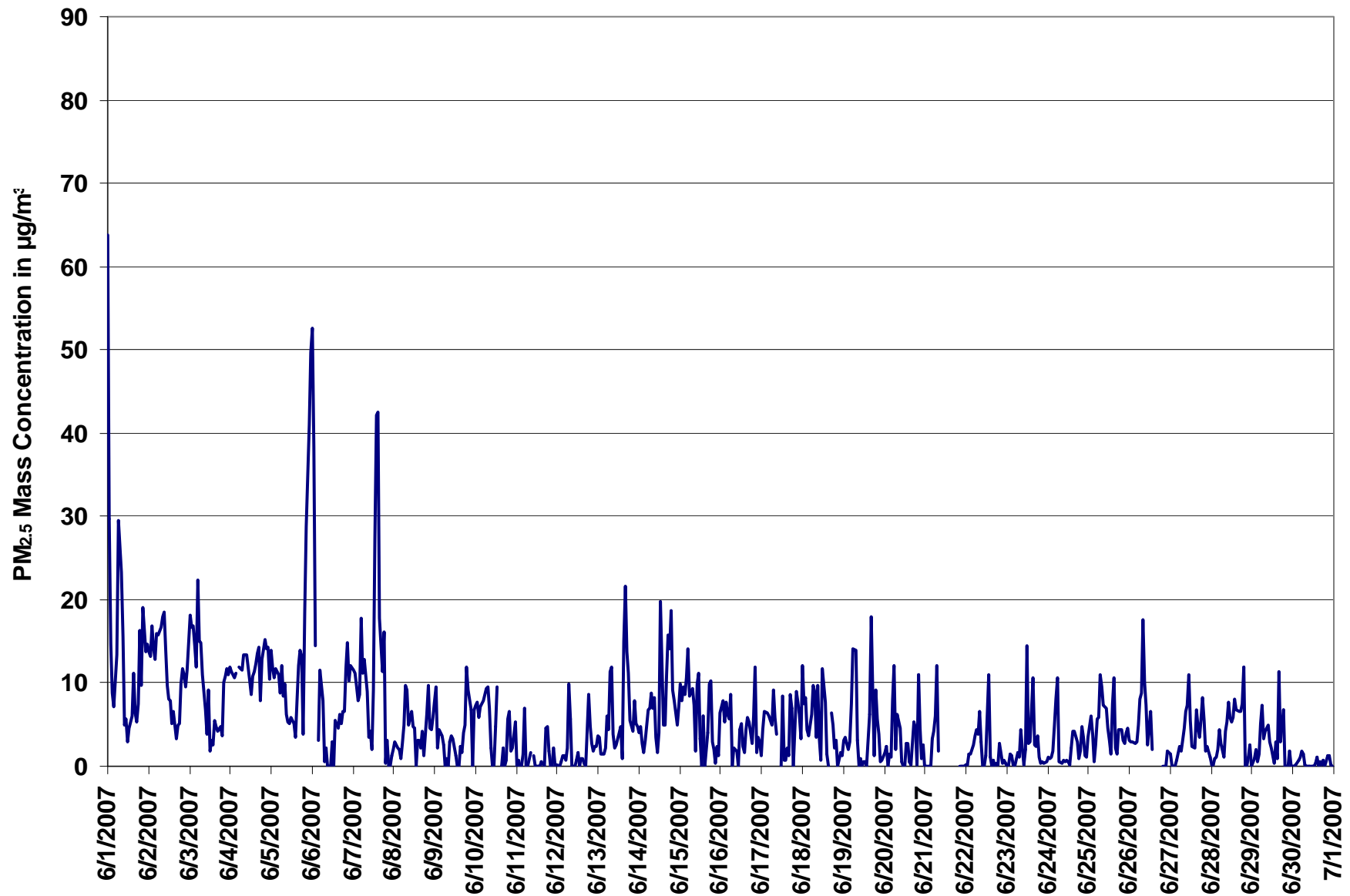


Figure 24. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Evergreen Park  
 Station Owner: PASZA

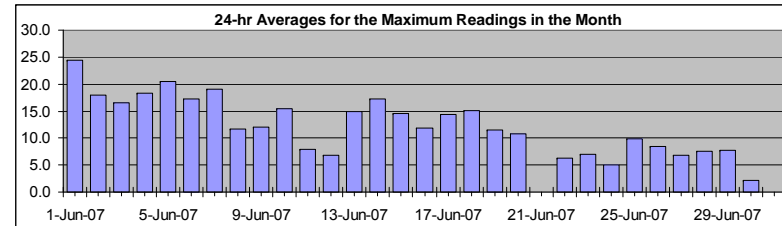
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Particulate Matter (PM<sub>2.5</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Average:	77.4	µg/m <sup>3</sup>	1-Jun	0:00 1:00
Maximum 24-hr Value:	24.4	µg/m <sup>3</sup>	1-Jun	



AIC Time:	0 hrs	Operational Time:	699 hrs						
Calibration Time:	12 hrs	AMD Operational Uptime:	98.8%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	55.3	28.2	15.7	10.2	5.6	2.1	0.6	12.3 10 µg/m <sup>3</sup>	11.1 µg/m <sup>3</sup>

**Status Flag Characters**

C	Calibration	A	AIC - Zero / Span Check
S	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	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-Jun-07	0:00	1:00	77	56	17	12	11	25	37	34	29	25	13	13	8	8	14	14	13	11	12	43	38	30	23	22	24.4	77.4
2-Jun-07	1:00	2:00	21	17	20	16	16	19	20	24	23	26	24	17	13	17	12	15	9	12	12	16	27	18	17	16	17.9	27.1
3-Jun-07	2:00	3:00	29	23	24	16	15	36	25	20	21	14	16	19	15	10	10	11	10	12	9	9	13	13	13	12	16.5	36.1
4-Jun-07	3:00	4:00	13	13	12	12	P	15	14	15	19	18	19	19	16	19	15	19	18	20	27	27	35	21	24	14	18.3	35.0
5-Jun-07	4:00	5:00	19	16	21	19	13	11	21	14	14	9	9	9	11	11	15	20	21	23	18	17	34	43	47	56	20.4	55.7
6-Jun-07	5:00	6:00	56	52	24	D	9	17	13	7	7	4	11	5	14	11	16	12	13	16	15	18	20	24	18	15	17.3	56.4
7-Jun-07	6:00	7:00	14	15	12	10	12	24	22	19	16	17	20	11	16	40	54	57	28	19	26	5	9	7	1	5	19.0	57.2
8-Jun-07	7:00	8:00	4	4	4	5	3	6	9	16	21	13	15	10	10	12	13	11	17	12	6	14	27	19	15	15	11.7	26.5
9-Jun-07	8:00	9:00	24	23	12	9	6	11	8	8	6	9	11	11	14	8	7	10	10	8	9	25	18	24	6	10	12.0	25.2
10-Jun-07	9:00	10:00	12	13	7	9	10	10	12	14	14	15	7	35	54	30	D	14	12	13	9	21	11	3	15	15	15.5	54.2
11-Jun-07	10:00	11:00	8	7	3	1	8	16	5	7	8	D	12	12	8	6	6	13	8	19	13	7	5	4	5	2	7.9	18.6
12-Jun-07	11:00	12:00	3	4	4	4	4	5	5	17	16	3	4	4	6	4	11	11	6	4	18	12	6	5	4	4	6.8	18.0
13-Jun-07	12:00	13:00	9	12	4	3	5	14	11	15	28	10	9	11	9	16	9	40	55	20	15	9	15	18	10	8	14.9	55.3
14-Jun-07	13:00	14:00	6	7	7	6	6	10	14	16	13	15	13	10	14	62	16	21	21	25	27	54	17	12	11	12	17.2	61.6
15-Jun-07	14:00	15:00	15	12	14	11	14	19	18	19	14	12	19	25	16	20	24	12	20	18	19	8	6	4	5	7	14.6	25.5
16-Jun-07	15:00	16:00	9	11	10	11	9	7	15	12	14	15	6	15	14	18	12	11	20	12	9	11	17	10	10	8	11.9	19.7
17-Jun-07	16:00	17:00	5	8	13	10	9	10	19	14	10	10	D	23	23	10	14	15	9	37	22	9	27	13	11	9	14.4	37.5
18-Jun-07	17:00	18:00	17	16	13	10	9	9	14	20	10	18	12	6	43	58	14	22	D	15	18	4	6	6	3	3	15.0	58.1
19-Jun-07	18:00	19:00	4	5	7	7	5	17	20	22	9	4	9	6	8	7	8	18	28	23	15	33	10	6	3	3	11.4	32.5
20-Jun-07	19:00	20:00	6	7	1	4	3	14	19	16	17	10	4	8	12	11	14	12	10	13	13	10	31	9	4	6	10.8	31.2
21-Jun-07	20:00	21:00	4	4	2	4	6	7	10	27	16	D	17	D	18	C	C	C	C	C	C	D	0	0	2	3	N	27.4
22-Jun-07	21:00	22:00	3	3	4	5	4	7	8	8	13	5	4	6	7	31	4	2	5	3	2	3	9	8	3	3	6.2	30.6
23-Jun-07	22:00	23:00	0	2	3	3	3	2	3	2	9	10	3	5	29	22	9	28	11	6	9	3	2	2	2	2	7.1	28.5
24-Jun-07	23:00	0:00	2	3	2	4	8	10	25	3	2	3	3	3	2	3	4	9	7	5	3	5	7	6	3	2	5.1	25.1
25-Jun-07	0:00	1:00	5	8	7	2	5	11	11	15	21	12	15	14	9	6	27	19	7	6	7	6	7	4	6	7	9.9	26.7
26-Jun-07	1:00	2:00	4	4	4	4	4	9	13	12	27	25	12	5	14	5	C	C	C	C	C	C	0	2	5	4	8.5	27.3
27-Jun-07	2:00	3:00	3	1	1	1	3	5	4	5	7	8	10	18	9	6	7	10	7	6	8	13	17	9	4	3	6.9	18.3
28-Jun-07	3:00	4:00	3	2	3	3	4	7	6	4	7	8	12	9	9	9	15	10	9	9	11	19	7	2	7	8	7.6	19.4
29-Jun-07	4:00	5:00	2	3	4	2	5	10	13	8	7	9	6	7	7	10	10	6	24	9	18	7	3	3	9	4	7.8	24.4
30-Jun-07	5:00	6:00	3	1	1	3	2	3	3	3	0	0	0	1	2	4	4	2	3	2	5	1	3	3	1	1	2.1	5.3
Hourly Avg			12.7	11.6	8.7	7.1	7.3	12.2	13.8	13.9	14.0	11.7	10.8	11.7	14.4	16.3	13.4	15.9	14.8	13.5	13.4	14.6	14.3	10.8	9.6	9.3		
Hourly Max			77.4	55.6	24.0	19.5	15.7	36.1	36.5	33.6	29.3	26.1	24.0	35.3	54.2	61.6	53.7	57.2	55.3	37.5	27.3	53.9	38.5	42.6	46.6	55.7		



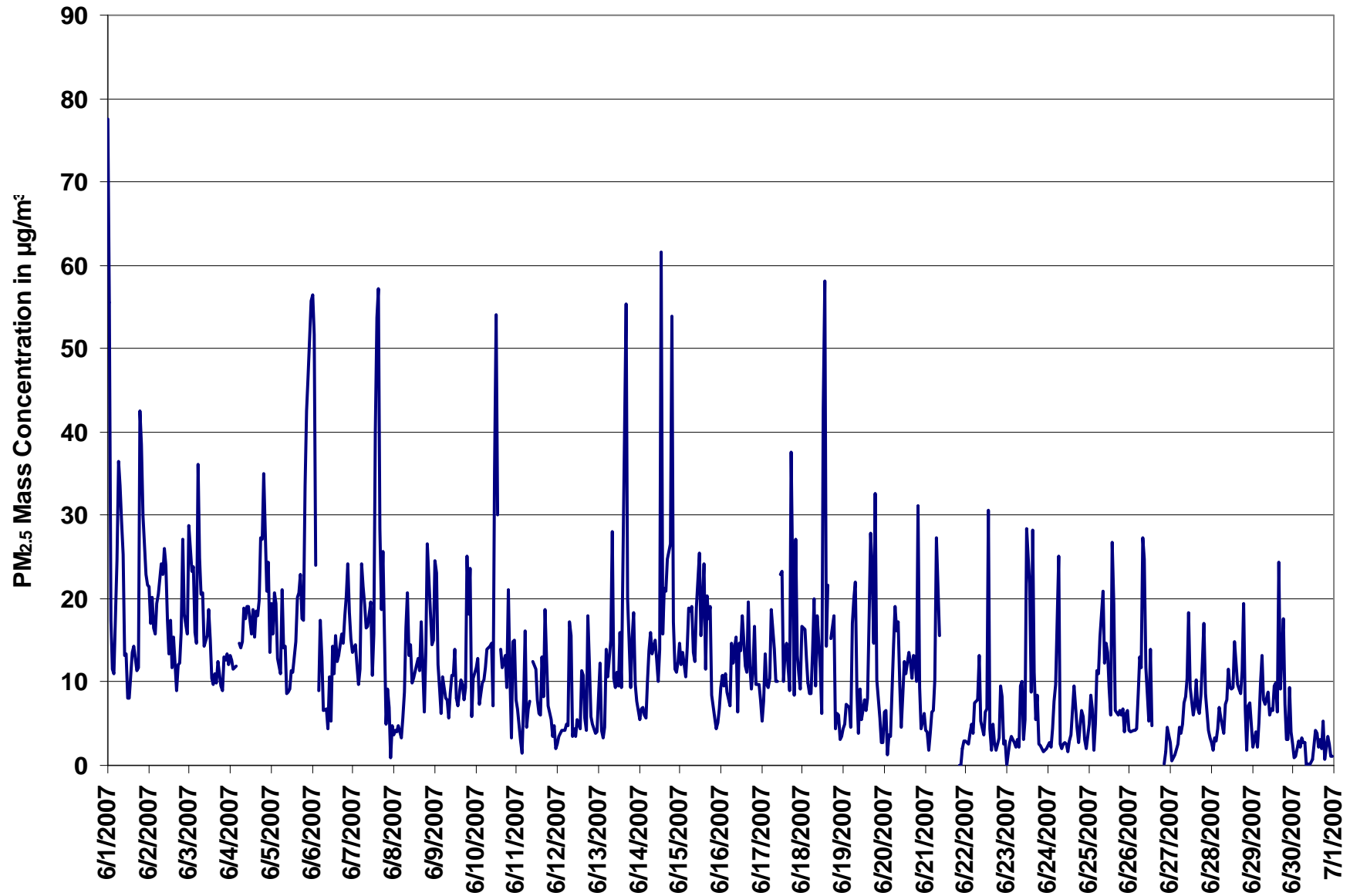
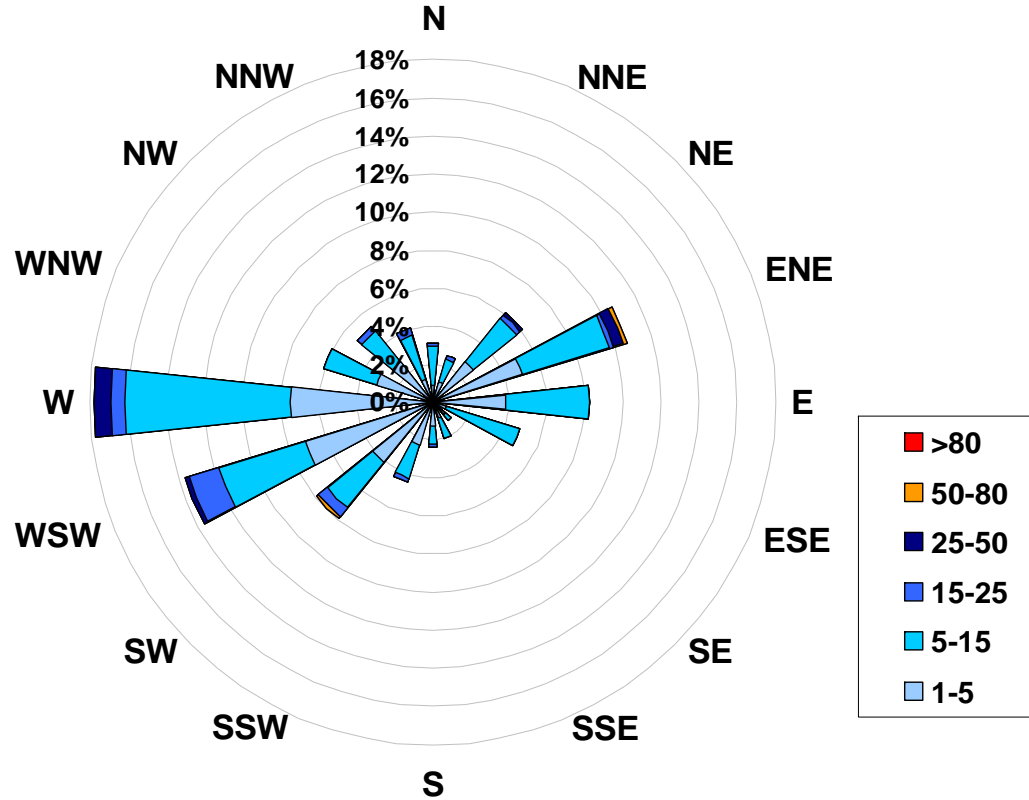


Figure 25. PASZA - Evergreen Park Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

**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 June 2007**



**Calms: 0%**

Frequency Distribution of PM <sub>2.5</sub> in µg/m <sup>3</sup>			Frequency (hrs)
Range			
1.0	< 5		402
5	to 15		259
15	to 25		26
25	to 50		10
50	to 80		2
	> 80		0
Total Non-Zero Values			699



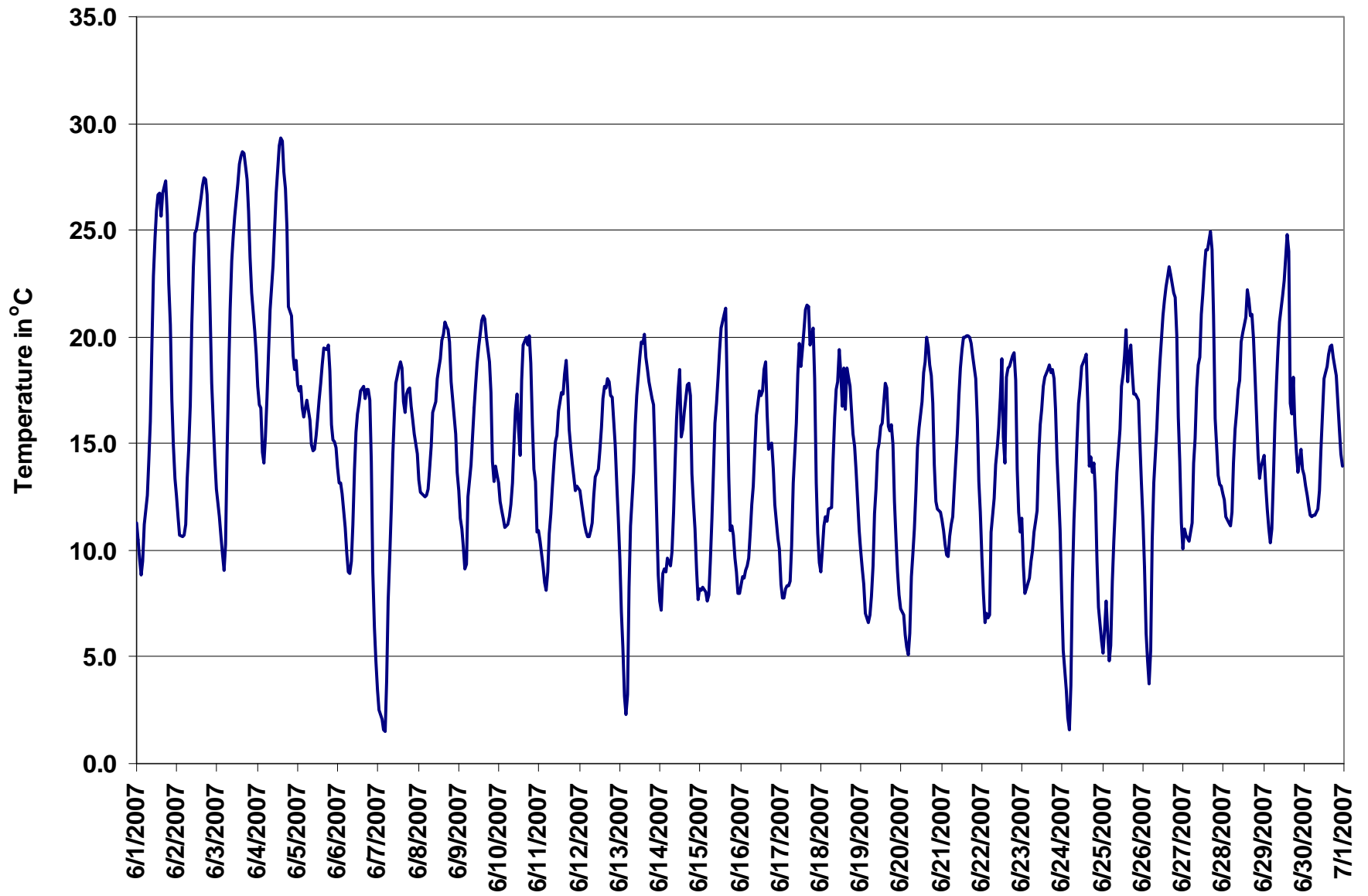


Figure 26. PASZA - Evergreen Park Temperature 1-hr Average Monthly Trend



### PASZA - Evergreen Park - Vector Wind Speed Monthly Summary

Station: Evergreen Park  
 Station Owner: PASZA

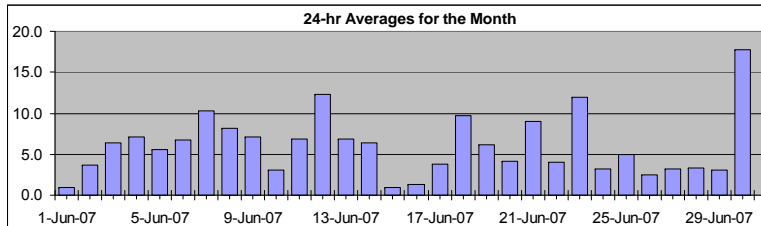
#### HOURLY AVERAGE TABLE

#### Wind Speed (WSv)

Monitoring Dates: June 1, 2007 to July 1, 2007

#### Summary

Maximum 1-hr Average:	32.2	km/hr	30-Jun	13:00 14:00
Maximum 24-hr Value:	17.8	km/hr	30-Jun	



Calm Time:	15 hrs	2% calms	Operational Time:	705 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	23.5	17.1	9.5	6.4	4.2	1.5	1.0	7.3 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

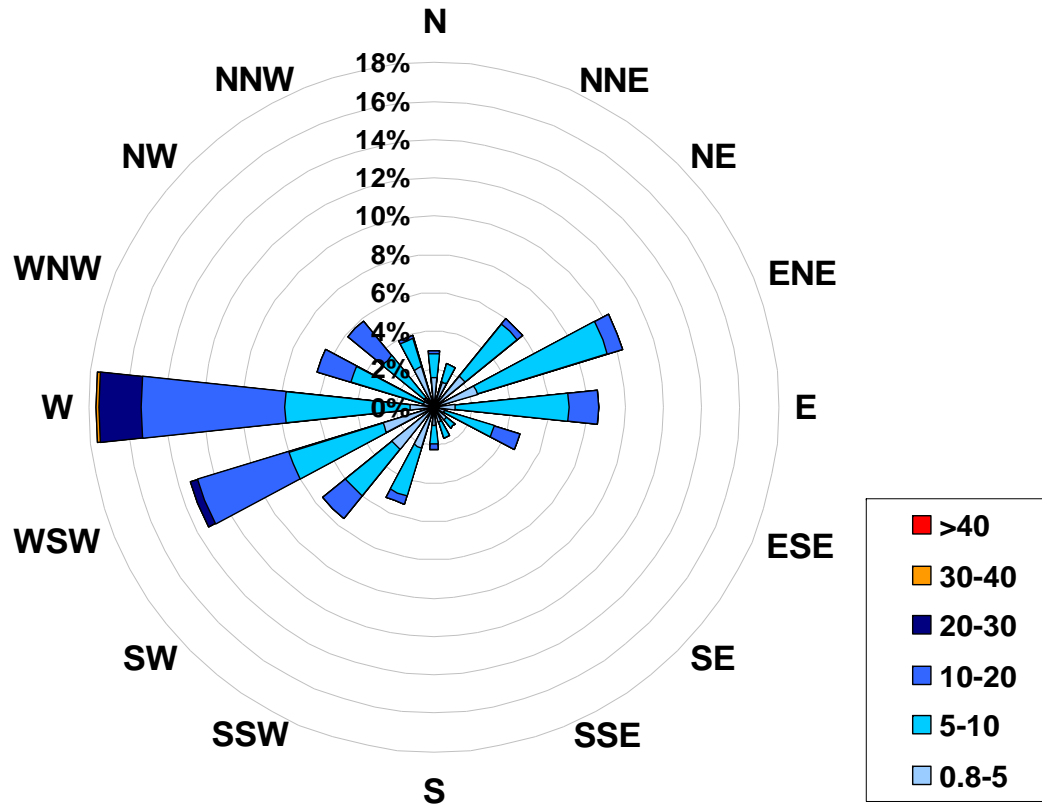
Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Jun-07	2	2	calm	3	4	5	6	7	6	5	4	4	4	6	9	7	7	8	7	5	2	4	1	2	1	1.0	9.2
2-Jun-07	2	1	2	3	calm	calm	5	4	3	5	8	10	10	9	7	7	7	8	7	4	4	4	4	4	4	3.7	10.3
3-Jun-07	1	1	2	2	3	2	1	4	3	7	11	10	9	8	10	11	10	12	11	10	8	8	8	7	6.4	11.9	
4-Jun-07	5	6	6	6	7	7	7	10	12	11	12	13	14	12	13	14	13	9	7	7	6	calm	1	4	7.2	14.2	
5-Jun-07	1	4	10	8	8	10	10	8	6	6	8	8	8	7	9	11	10	10	8	6	7	8	8	8	5.6	11.3	
6-Jun-07	8	8	10	13	14	12	6	6	4	5	7	9	9	9	7	8	7	6	6	4	3	1	1	calm	6.8	13.6	
7-Jun-07	1	1	3	3	4	3	6	7	9	8	9	9	11	14	20	21	18	18	14	14	10	15	18	14	10.2	21.0	
8-Jun-07	7	8	9	6	7	9	11	12	11	10	10	10	9	10	9	9	11	11	8	5	3	9	8	4	8.1	12.1	
9-Jun-07	calm	3	1	calm	2	3	5	6	8	9	8	7	9	10	11	11	11	11	10	10	8	5	9	9	7.1	11.3	
10-Jun-07	8	8	7	6	3	2	3	4	6	5	4	2	4	5	4	3	3	4	9	7	6	8	5	5	3.1	9.1	
11-Jun-07	6	2	5	5	5	6	11	11	8	7	6	5	6	5	5	4	4	7	14	11	14	17	10	11	6.8	16.8	
12-Jun-07	16	18	17	18	20	19	17	13	11	12	13	11	9	10	10	11	10	9	11	15	17	13	10	7	12.3	19.8	
13-Jun-07	5	2	5	3	1	2	4	9	9	7	8	8	5	6	2	13	16	12	9	5	5	8	2	2	6.8	16.1	
14-Jun-07	2	3	4	5	7	7	7	7	10	10	10	8	4	2	7	11	13	15	13	4	6	4	4	3	6.4	15.5	
15-Jun-07	2	4	6	6	5	5	7	5	4	4	6	5	6	8	7	6	17	15	7	10	4	3	4	1	0.9	17.2	
16-Jun-07	3	3	2	4	2	4	2	4	3	4	4	5	6	7	7	8	8	9	6	4	4	4	3	4	1.4	8.8	
17-Jun-07	3	6	6	5	8	8	8	6	7	4	4	2	6	9	6	4	5	1	8	6	1	1	1	2	3.7	9.2	
18-Jun-07	calm	3	4	5	6	5	6	5	1	5	6	4	9	8	13	14	23	26	23	17	9	12	9	9	9.7	25.9	
19-Jun-07	9	9	8	8	10	8	11	10	12	9	3	5	6	5	5	9	15	13	10	1	7	5	4	4	6.2	14.8	
20-Jun-07	4	1	1	2	calm	1	2	calm	2	6	6	7	8	5	6	6	6	5	6	7	3	1	2	2	4.1	7.5	
21-Jun-07	5	4	4	2	3	4	4	3	8	11	14	18	20	24	23	20	19	17	14	13	8	7	4	1	9.0	24.0	
22-Jun-07	2	1	2	1	1	calm	4	4	6	6	5	3	3	16	4	5	8	6	3	4	5	8	7	6	4.1	15.9	
23-Jun-07	6	3	4	5	9	9	10	15	17	14	16	15	17	19	18	19	17	14	16	13	13	11	10	5	12.0	19.4	
24-Jun-07	3	2	1	calm	1	2	3	5	10	7	6	6	5	5	6	12	5	7	3	4	2	2	1	2	3.2	11.6	
25-Jun-07	calm	3	5	2	2	2	7	10	11	8	5	6	8	8	11	3	6	5	5	4	7	12	10	8	5.0	11.9	
26-Jun-07	5	4	4	1	1	2	9	9	13	13	10	8	9	6	8	4	6	7	6	7	6	6	5	4	2.5	13.2	
27-Jun-07	6	6	7	7	5	3	5	6	6	6	6	6	5	7	3	6	6	5	13	7	3	4	4	3	3.2	13.0	
28-Jun-07	7	2	3	calm	2	2	4	4	2	3	3	6	6	6	6	7	6	5	6	5	5	5	calm	9	3.3	8.8	
29-Jun-07	10	1	4	1	2	2	4	4	3	1	6	6	8	7	8	9	3	7	5	7	3	4	9	12	3.0	11.9	
30-Jun-07	11	10	8	10	9	13	13	11	15	18	22	22	27	32	29	28	24	24	23	20	14	13	15	17	17.8	32.2	
1-hr Vector	1.4	1.8	2.5	2.4	2.4	3.0	4.3	4.4	5.1	3.8	3.2	2.4	3.4	3.3	2.6	3.1	3.1	2.5	2.6	1.8	1.5	2.2	2.9	2.6			
Hourly Max	16.2	17.7	17.1	17.6	19.8	18.5	16.8	15.3	16.8	18.0	21.8	21.8	26.8	32.2	28.8	28.1	23.7	25.9	23.3	19.9	17.1	16.8	17.8	16.7			







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



**Calms: 0%**

Frequency Distribution of Wind in km/hr			
Range			Frequency (hrs)
0.8	<	5	174
5	to	10	358
10	to	20	168
20	to	30	19
30	to	40	1
	>	40	0
Total Non-Zero Values			720

# PASZA – Smoky Heights Station

## Monthly Summary Tables, Graphs, and Roses

# PASZA - Smoky Heights - Sulphur Dioxide Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

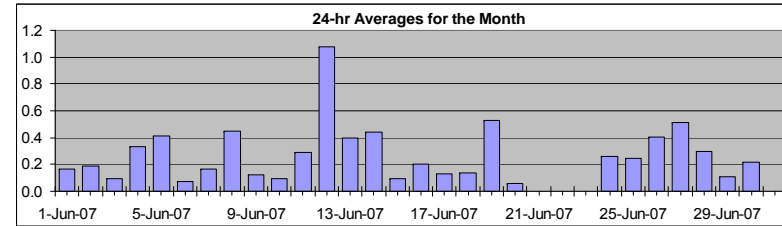
## HOURLY AVERAGE TABLE

## Sulphur Dioxide (SO<sub>2</sub>)

Monitoring Dates: June 1, 2007 to July 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:	7.0	ppb	19-Jun	0:00 1:00
Maximum 24-hr Average:	1.1	ppb	12-Jun	



AIC Time:	29 hrs	Operational Time:	637 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	93.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.0	0.8	0.3	0.1	0.1	0.0	0.0	0.3 ppb	0.1 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-Jun-07	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
2-Jun-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
3-Jun-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	0.2
4-Jun-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0.3	0.6
5-Jun-07	0	A	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	1	0.4	1.0
6-Jun-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	0.1	0.2	
7-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	2	0.2	1.6	
8-Jun-07	1	1	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0.4	1.5	
9-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.3	
10-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.2	
11-Jun-07	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	1.3	
12-Jun-07	1	0	4	4	2	2	1	1	0	1	2	1	1	1	1	0	0	A	0	0	0	0	0	3	1.1	4.5	
13-Jun-07	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	A	0	1	0	0	0	0	0.4	1.2	
14-Jun-07	1	3	1	1	0	0	0	0	0	0	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0.4	2.5	
15-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.2	
16-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0.2	1.1	
17-Jun-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	0.1	0.4	
18-Jun-07	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	1	0.1	0.8	
19-Jun-07	7	1	1	2	1	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	7.0	
20-Jun-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	0.1	0.1	
21-Jun-07	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	0.0
22-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0	0.0
23-Jun-07	P	P	P	P	P	P	P	P	P	0	0	0	C	C	A	0	0	0	0	0	0	0	0	0	N	0.3	0.3
24-Jun-07	0	2	1	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.1	
25-Jun-07	0	0	0	0	A	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0.2	0.8	
26-Jun-07	0	0	0	A	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.1	
27-Jun-07	0	0	A	1	1	1	1	C	C	C	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.5	1.4	
28-Jun-07	0	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
29-Jun-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	
30-Jun-07	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6	
Hourly Avg	0.5	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.4		
Hourly Max	7.0	2.5	4.0	4.5	2.2	1.5	1.2	1.3	0.8	1.1	1.6	1.3	1.1	0.8	0.7	0.6	0.6	0.4	0.7	0.5	1.1	0.6	0.9	2.7			

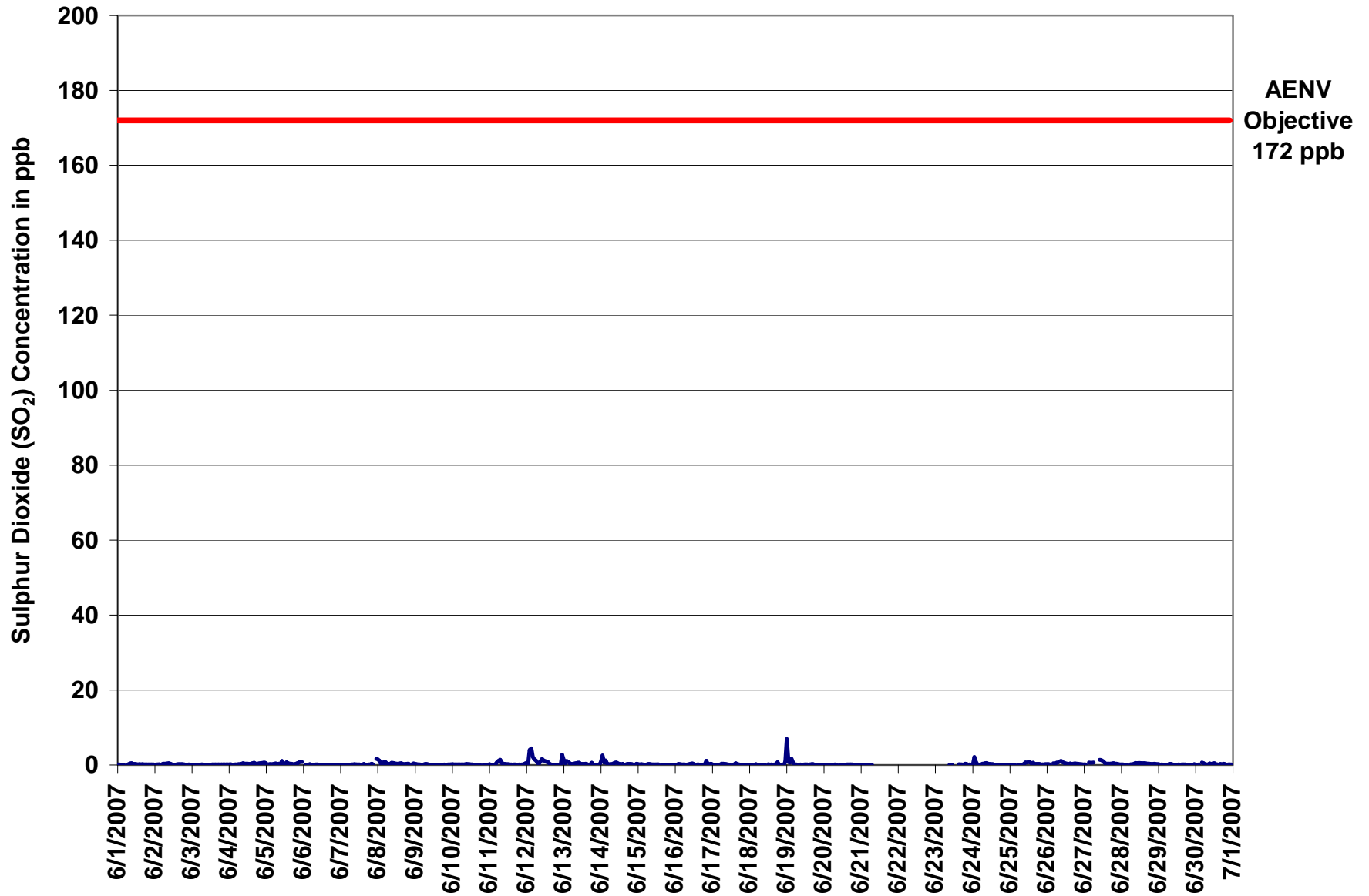


Figure 27. PASZA - Smoky Heights Sulphur Dioxide 1-hr Average Monthly Trend

Station: Smoky Heights  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

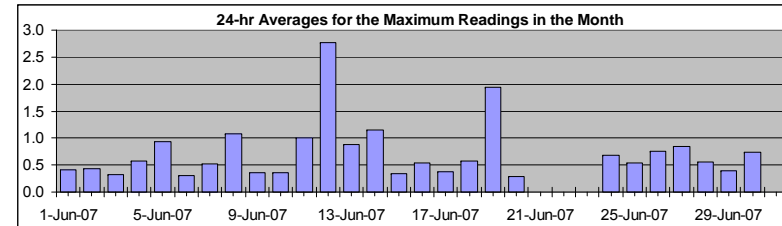
**Sulphur Dioxide (SO<sub>2</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	20.2	ppb	19-Jun	0:00 1:00
Maximum 24-hr Value:	2.8	ppb	12-Jun	

AIC Time:	29 hrs	Operational Time:	637 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	93.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.4	2.3	0.6	0.4	0.3	0.2	0.2	0.7 ppb	0.4 ppb



**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	24-hour Average	Daily Maximum	
1-Jun-07	0	0	0	0	0	A	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7	
2-Jun-07	0	0	0	0	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8	
3-Jun-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	0.4	
4-Jun-07	0	0	A	0	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.6	1.0	
5-Jun-07	1	A	1	0	0	1	1	1	1	0	5	1	1	2	1	1	0	1	0	1	1	1	1	1	0.9	4.6	
6-Jun-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	
7-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	A	4	0.5	3.6	
8-Jun-07	6	3	1	0	2	2	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	A	0	1	1.1	5.6	
9-Jun-07	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.4	0.6	
10-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0	0	0	0.4	1.3	
11-Jun-07	4	0	0	0	3	2	3	2	1	1	1	0	0	0	0	0	0	0	A	0	0	0	0	2	1.0	4.2	
12-Jun-07	4	1	10	9	4	3	3	2	1	2	4	3	5	3	1	1	0	A	0	0	0	0	0	7	2.8	9.7	
13-Jun-07	2	1	2	1	1	0	1	1	1	1	1	1	1	1	1	0	A	1	2	1	1	0	0	0	0.9	2.4	
14-Jun-07	3	5	1	2	1	0	0	0	1	1	1	1	1	0	1	A	0	1	0	3	3	0	0	1	1.2	5.0	
15-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	0.5	
16-Jun-07	0	0	1	1	0	0	0	0	0	0	1	1	1	A	0	0	0	0	0	0	3	1	1	1	0.5	2.7	
17-Jun-07	0	0	0	0	0	0	1	1	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0.4	0.8	
18-Jun-07	0	0	0	0	1	0	1	0	0	0	0	A	0	0	0	0	1	1	2	0	0	0	0	3	0.6	3.3	
19-Jun-07	20	9	2	7	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1.9	20.2	
20-Jun-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	0.3	0.4	
21-Jun-07	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	0.3	
22-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0	
23-Jun-07	P	P	P	P	P	P	P	P	P	0	0	0	C	C	A	0	0	1	0	2	2	0	0	0	N	1.8	
24-Jun-07	0	4	3	0	0	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.7	3.7	
25-Jun-07	0	0	0	0	A	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0.5	1.1	
26-Jun-07	0	0	1	A	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0.8	1.7	
27-Jun-07	0	0	A	1	1	1	1	C	C	C	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0.8	1.7	
28-Jun-07	0	0	0	0	0	A	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0.6	0.8	
29-Jun-07	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	0.8	
30-Jun-07	0	0	1	A	2	2	1	0	0	1	1	1	1	1	0	0	1	0	2	0	0	0	0	0	0.7	1.8	
Hourly Avg	1.7	1.1	1.0	1.0	0.8	0.7	0.6	0.6	0.6	0.7	0.9	0.6	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.4	0.4	1.0			
Hourly Max	20.2	9.1	9.7	8.9	3.6	2.8	2.7	2.3	1.4	2.5	4.6	2.6	4.5	3.1	1.2	1.1	1.0	1.4	1.8	2.8	2.9	1.2	1.2	7.3			

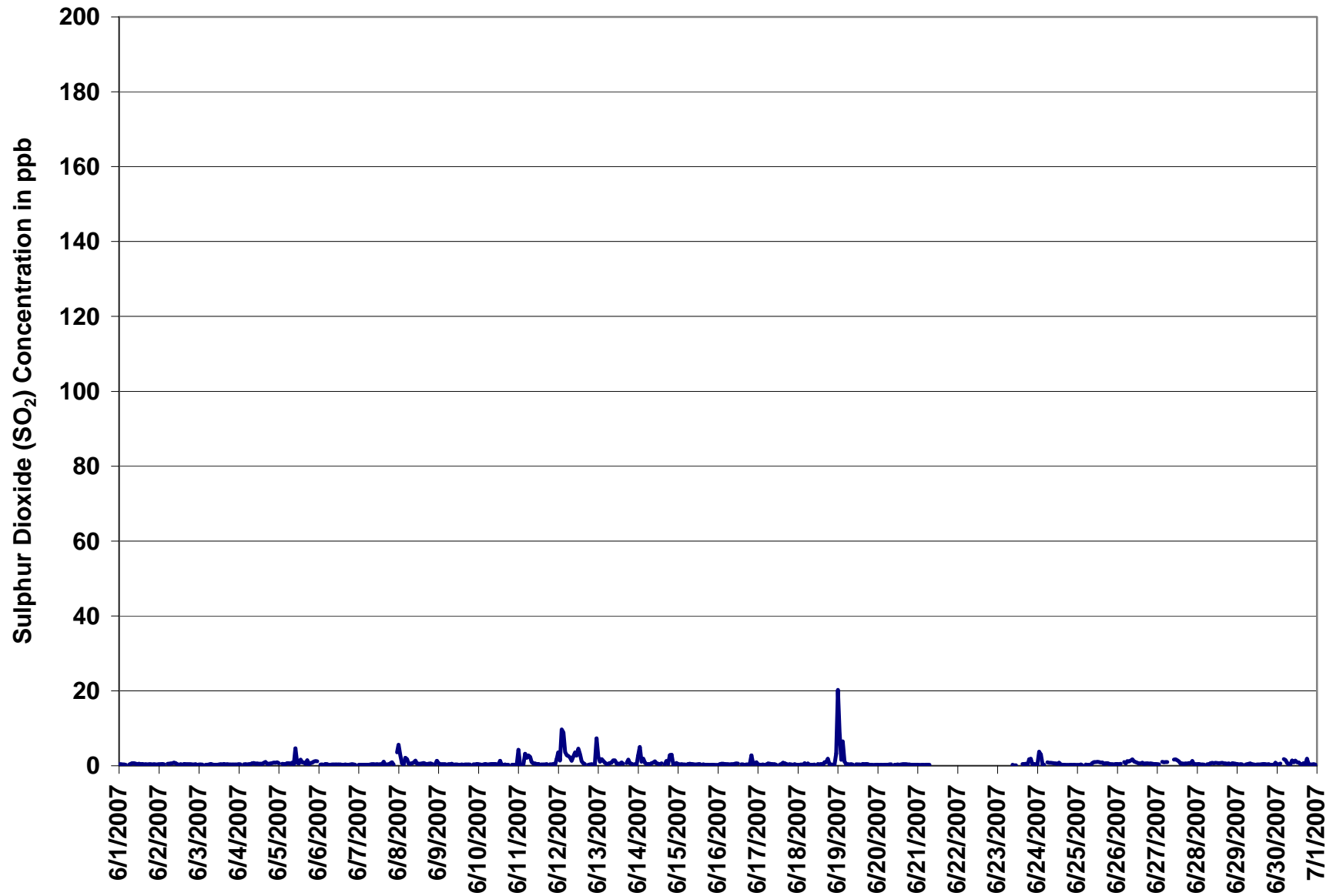
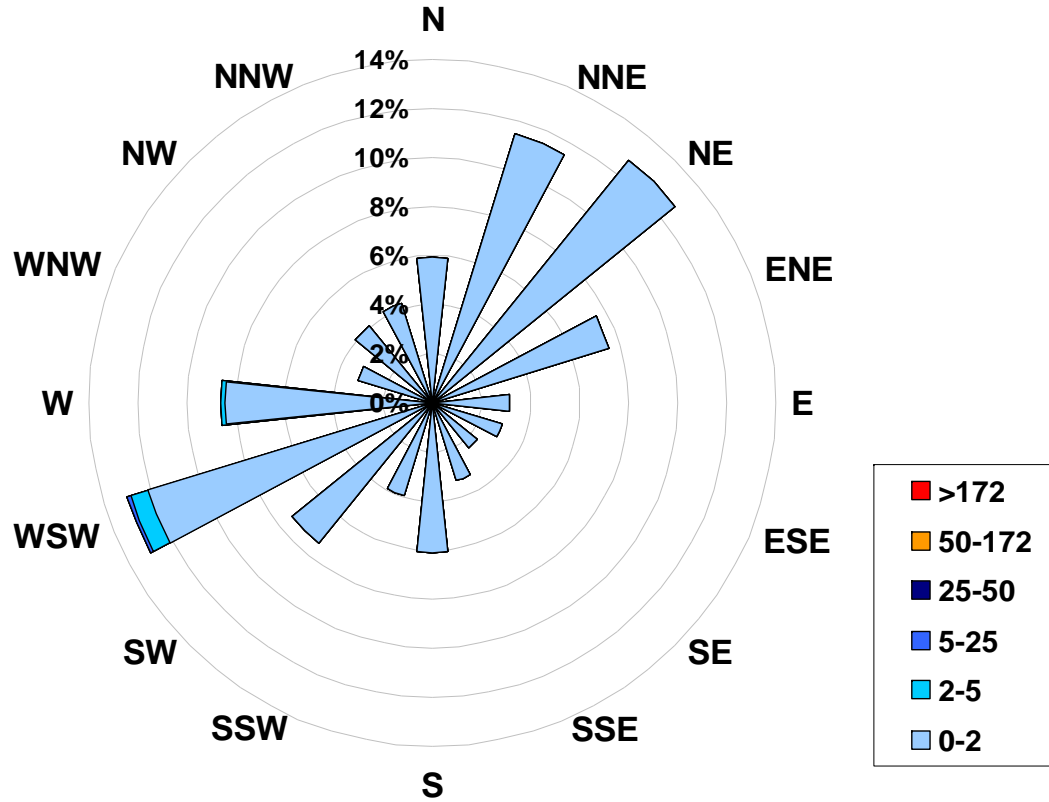


Figure 28. PASZA - Smoky Heights Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			
Range			Frequency (hrs)
0.0	<	2	630
2	to	5	6
5	to	25	1
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			637

## PASZA - Smoky Heights - Total Reduced Sulphur Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

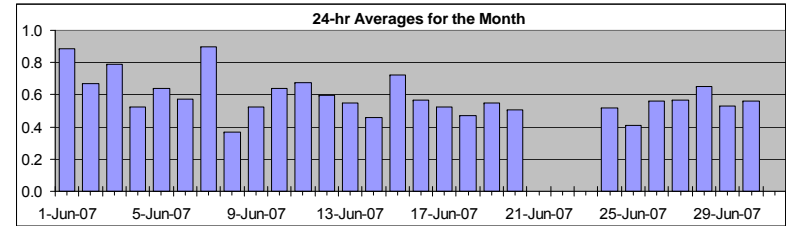
### HOURLY AVERAGE TABLE

### Total Reduced Sulphur (TRS)

Monitoring Dates: June 1, 2007 to July 1, 2007

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

Maximum 1-hr Average:	2.9	ppb	7-Jun	3:00 4:00
Maximum 24-hr Value:	0.9	ppb	7-Jun	



AIC Time:	29 hrs	Operational Time:	637 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	93.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.6	1.1	0.7	0.5	0.4	0.3	0.3	0.6 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-Jun-07	1	1	1	1	3	A	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0.9	2.5	
2-Jun-07	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0.7	1.1	
3-Jun-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	2	1	1	0.8	1.7	
4-Jun-07	1	1	A	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0.5	0.9	
5-Jun-07	0	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0	1	0.6	1.1	
6-Jun-07	A	1	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	1	1	A	0.6	1.3	
7-Jun-07	1	1	2	3	2	1	2	2	1	1	0	0	0	0	0	0	0	0	1	0	0	0	A	1	0.9	2.9	
8-Jun-07	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.4	0.6	
9-Jun-07	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	A	1	1	1	0.5	1.0	
10-Jun-07	0	1	0	1	1	1	1	1	1	0	1	1	0	0	0	1	1	1	1	A	1	1	1	1	0.6	1.4	
11-Jun-07	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.7	1.1	
12-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	A	1	1	0	0	0	1	0.6	0.9	
13-Jun-07	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	1	0	0.5	1.1
14-Jun-07	1	1	0	1	1	0	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0.5	0.8
15-Jun-07	0	1	0	1	1	1	1	1	1	1	1	0	1	1	A	1	1	0	1	1	1	1	1	1	0.7	1.4	
16-Jun-07	1	1	1	1	1	0	1	1	1	1	1	1	1	A	1	0	0	0	0	0	0	0	1	1	0.6	1.0	
17-Jun-07	1	1	1	1	1	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	1	0.5	1.0	
18-Jun-07	1	1	1	0	1	0	1	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0.5	0.6	
19-Jun-07	1	1	1	1	1	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	1	1	0.6	0.9	
20-Jun-07	1	1	1	1	0	0	0	0	1	A	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0.5	1.2	
21-Jun-07	0	1	0	0	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.7	
22-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0	
23-Jun-07	P	P	P	P	P	P	P	P	P	1	0	0	C	C	A	0	0	0	0	0	0	0	1	0	N	0.6	
24-Jun-07	1	1	1	1	1	A	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0.5	1.1	
25-Jun-07	1	0	0	1	A	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	0.8	
26-Jun-07	0	0	0	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.6	1.4	
27-Jun-07	0	0	A	1	1	1	1	C	C	C	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0.6	0.7	
28-Jun-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	
29-Jun-07	1	1	1	1	A	1	1	1	1	0	1	0	0	1	1	0	0	1	1	1	1	1	1	1	0.5	0.7	
30-Jun-07	1	1	1	A	1	1	1	1	1	1	1	0	1	0	1	1	1	0	1	0	0	0	0	1	0.6	0.8	
Hourly Avg	0.6	0.6	0.7	0.8	0.8	0.7	0.8	0.7	0.7	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.6	0.7	0.6		
Hourly Max	1.0	1.0	1.8	2.9	2.5	1.4	1.8	1.9	1.1	1.0	0.9	0.8	0.6	0.6	0.6	0.7	0.6	0.6	0.7	0.7	1.2	1.7	1.4	1.4			



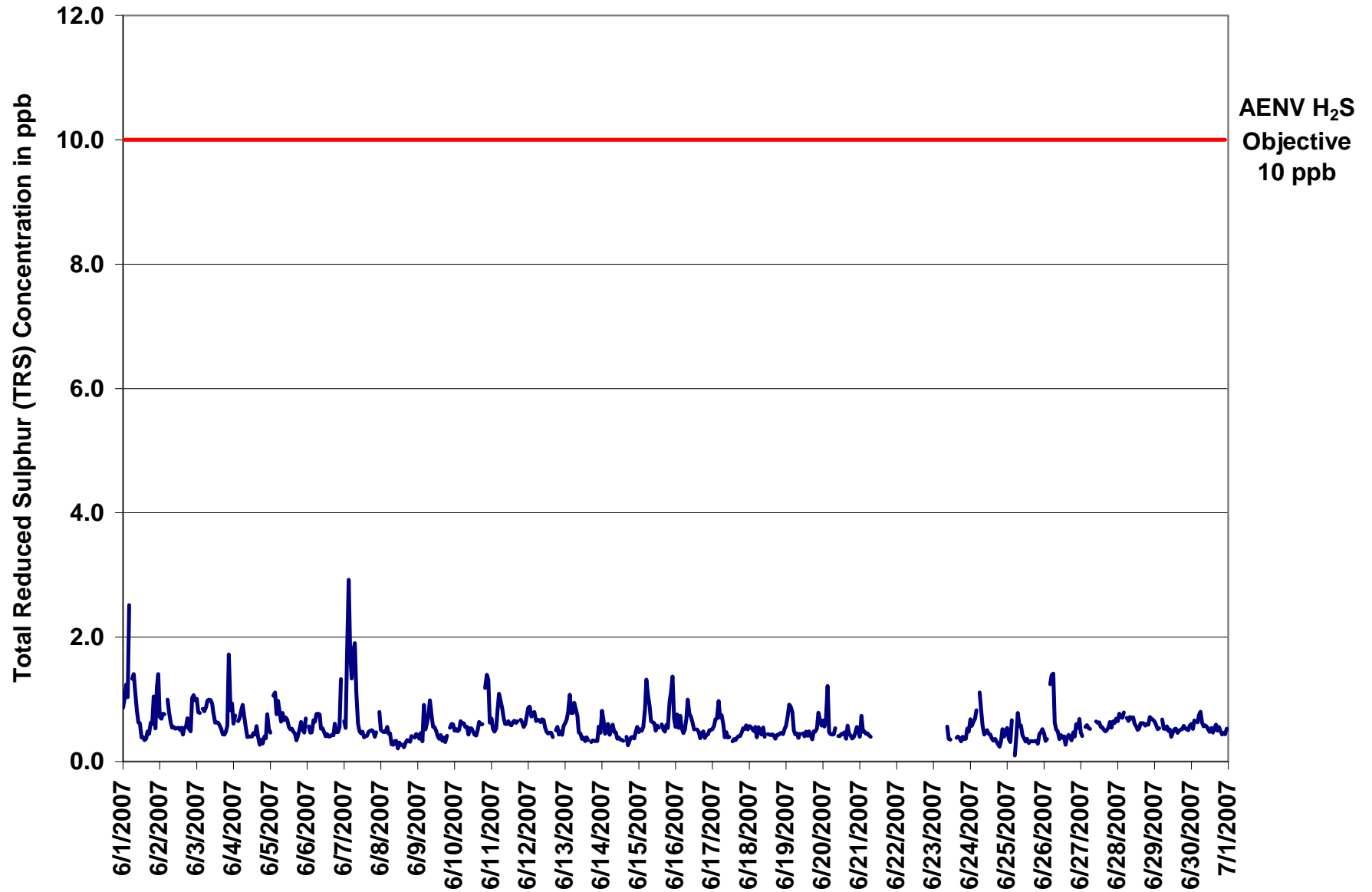


Figure 29. PASZA - Smoky Heights Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Smoky Heights  
 Station Owner: PASZA

### INSTANTANEOUS (30 Second) MAXIMUM TABLE

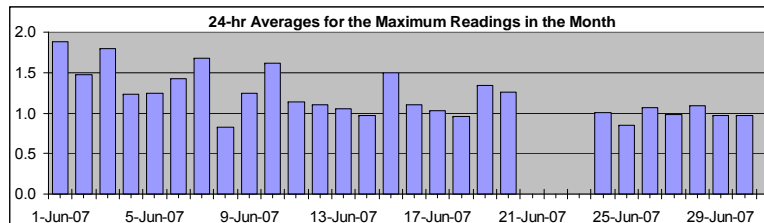
Total Reduced Sulphur (TRS)

Monitoring Dates: June 1, 2007 to July 1, 2007

#### Summary

Maximum 1-hr Value:	9.3	ppb	6-Jun	22:00	23:00
Maximum 24-hr Value:	1.9	ppb	1-Jun		

AIC Time:	29 hrs	Operational Time:	637 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	93.2%						
Percentile	99	95	75	50	25	5	1	Average	Median
	5.1	2.4	1.2	1.0	0.9	0.7	0.6	1.2 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-Jun-07	2	2	2	2	4	A	2	2	2	1	1	1	1	1	1	1	2	1	1	3	2	4	4	1.9	4.5	
2-Jun-07	2	1	1	1	A	2	2	2	1	1	1	1	1	1	1	1	1	2	2	1	1	6	2	2	1.5	5.6
3-Jun-07	5	1	1	A	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	4	6	2	2	1.8	6.4	
4-Jun-07	1	2	A	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1.2	3.0	
5-Jun-07	1	A	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	2.2	
6-Jun-07	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	9	A	1.4	9.3	
7-Jun-07	2	1	6	5	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.7	5.7
8-Jun-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
9-Jun-07	1	1	1	1	3	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	A	1	2	3	1.3	2.9
10-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	A	7	4	4	4	1.6	6.6
11-Jun-07	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.1	1.7
12-Jun-07	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	2	1	1	1	1	1.1	1.7
13-Jun-07	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1.1	2.3
14-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	1	1	1	1	1	1	1.0	1.7
15-Jun-07	1	2	1	1	1	2	2	1	1	1	1	1	1	1	1	A	1	1	1	1	2	3	5	1	1.5	4.8
16-Jun-07	1	2	1	2	1	1	1	1	2	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1.1	2.4
17-Jun-07	1	1	1	1	2	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1.0	2.1
18-Jun-07	1	1	1	1	1	1	2	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.7
19-Jun-07	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	1	5	2	1	1.3	4.9
20-Jun-07	1	1	1	6	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1.3	5.7
21-Jun-07	1	2	2	1	1	1	1	4	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	3.8
22-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0
23-Jun-07	P	P	P	P	P	P	P	P	P	1	1	1	C	C	A	1	1	1	1	1	1	1	1	1	N	1.2
24-Jun-07	1	1	1	1	1	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.6
25-Jun-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	0.9	1.3
26-Jun-07	1	1	1	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.1	2.2
27-Jun-07	1	1	A	1	1	1	1	C	C	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.5
28-Jun-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	1.1	1.4
29-Jun-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	1.0	1.3
30-Jun-07	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3
Hourly Avg	1.3	1.2	1.4	1.6	1.6	1.3	1.3	1.3	1.2	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	0.9	1.0	1.0	1.4	1.8	2.0	1.4		
Hourly Max	4.6	2.0	5.7	5.7	4.5	3.0	2.5	3.8	2.9	1.5	1.4	1.2	1.2	1.4	1.2	1.3	1.7	1.5	2.5	1.7	6.6	6.4	9.3	4.2		

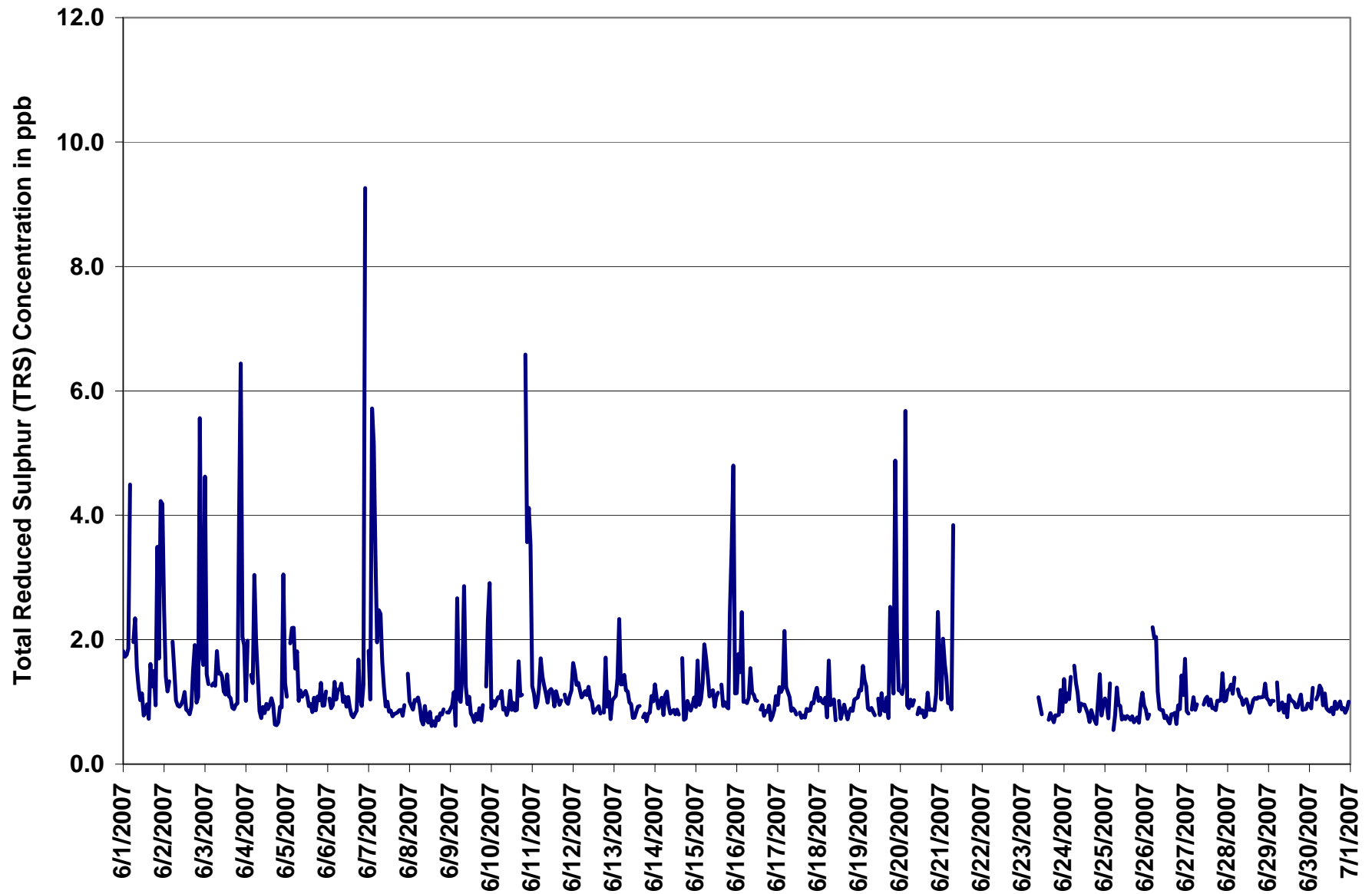
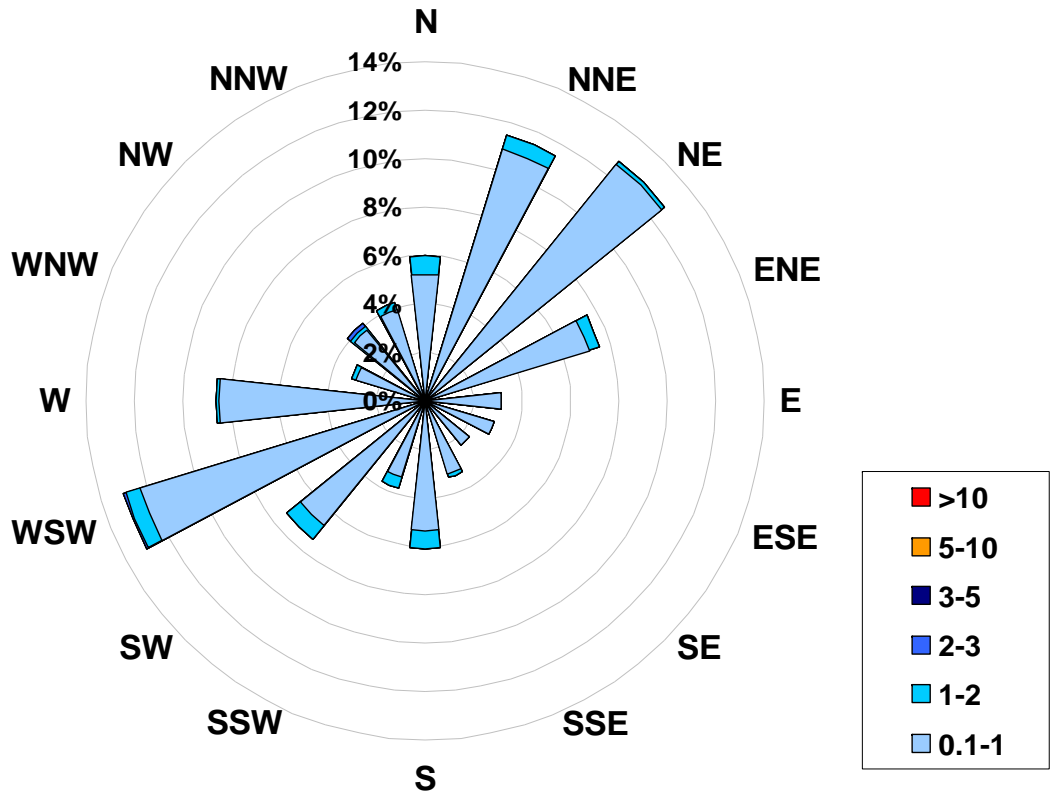


Figure 30. PASZA - Smoky Heights Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of TRS in ppb Range			Frequency (hrs)
0.1	<	1	599
1	to	2	36
2	to	3	2
3	to	5	0
5	to	10	0
	>	10	0
Total Non-Zero Values			637

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

Station: Smoky Heights  
 Station Owner: PASZA

**HOURLY AVERAGE TABLE**

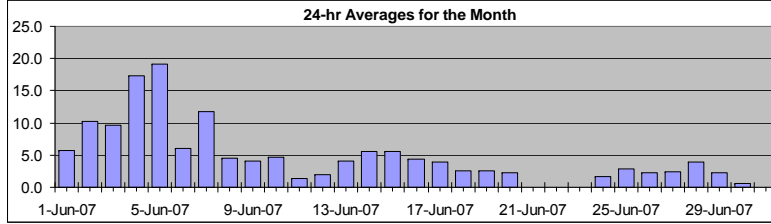
**Particulate Matter (PM<sub>2.5</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

Draft Objective Limit: Alberta Environment: 1-hr - µg/m<sup>3</sup> 24-hr 30 µg/m<sup>3</sup>  
 Summary

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	78.8 µg/m <sup>3</sup> 4-Jun 2:00 3:00
Maximum 24-hr Value:	19.2 µg/m <sup>3</sup> 5-Jun

AIC Time:	0 hrs	Operational Time:	653 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	91.9%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	28.0	14.2	6.6	3.5	1.6	0.0	0.0	5.2 3 µg/m <sup>3</sup>	4.0 µg/m <sup>3</sup>



**Status Flag Characters**

C	Calibration	A	AIC - Zero / Span Check
S	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-Jun-07	3	6	3	3	6	8	16	6	6	6	0	3	5	3	5	5	7	7	6	14	3	6	6	5.8	15.6	
2-Jun-07	6	7	8	9	11	12	14	11	15	10	10	8	4	6	7	6	6	6	6	9	7	13	36	15	10.2	36.4
3-Jun-07	12	8	8	21	9	11	12	10	11	11	7	5	8	6	6	8	10	9	10	11	10	10	11	9.6	20.9	
4-Jun-07	12	12	79	13	11	11	12	14	16	9	11	12	9	14	8	9	11	10	12	10	14	16	15	74	17.2	78.8
5-Jun-07	24	18	14	18	14	14	13	17	P	12	11	8	12	10	14	13	19	11	9	25	27	29	48	61	19.2	60.7
6-Jun-07	31	17	0	2	14	2	0	3	0	1	0	3	2	4	6	5	5	6	6	7	7	7	7	8	6.0	31.2
7-Jun-07	6	7	6	4	5	10	9	13	14	11	7	16	16	8	15	26	18	18	19	16	13	12	8	5	11.8	26.4
8-Jun-07	6	5	5	3	3	3	0	0	3	4	3	0	5	6	12	7	2	5	6	6	6	2	8	6	4.5	11.8
9-Jun-07	5	2	3	2	7	5	3	6	5	3	2	3	2	4	1	3	2	2	6	5	4	4	4	15	4.1	14.8
10-Jun-07	9	7	6	6	5	5	6	7	8	5	7	6	D	6	5	3	4	0	2	3	1	2	3	2	4.7	9.0
11-Jun-07	0	0	2	0	3	1	2	2	1	1	0	3	0	4	2	1	0	3	2	4	0	3	0	1	1.4	4.3
12-Jun-07	3	0	0	1	1	1	1	4	1	1	3	3	0	0	0	0	7	3	4	4	9	0	0	D	2.0	8.6
13-Jun-07	0	0	1	2	1	3	4	6	6	1	0	0	0	0	7	2	3	5	3	5	14	14	14	4	4.0	14.2
14-Jun-07	4	4	2	6	4	5	5	8	4	6	4	6	1	5	3	4	7	11	13	P	12	7	3	8	5.6	12.9
15-Jun-07	2	3	1	2	3	4	9	5	6	7	9	8	11	0	5	7	12	12	10	5	6	2	2	3	5.6	12.0
16-Jun-07	2	7	2	4	3	5	4	0	5	7	7	2	3	3	5	4	1	4	8	11	5	3	5	3	4.3	10.8
17-Jun-07	1	4	2	5	5	11	5	6	7	0	0	0	1	3	5	2	0	9	2	3	12	1	9	4	4.0	11.6
18-Jun-07	2	2	4	6	1	2	3	3	3	0	1	0	0	1	7	D	4	D	0	14	0	2	0	D	2.6	13.5
19-Jun-07	1	2	1	1	4	1	1	2	4	3	3	2	4	2	1	5	2	3	7	5	3	2	0	2	2.5	6.6
20-Jun-07	3	0	1	1	1	4	7	3	3	4	4	2	0	2	3	2	1	3	1	0	2	8	0	0	2.2	8.1
21-Jun-07	3	2	0	0	0	3	2	2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	2.7
22-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0
23-Jun-07	P	P	P	P	P	P	P	P	P	P	C	C	C	C	C	0	0	0	0	1	5	2	2	3	N	5.2
24-Jun-07	1	1	1	1	3	3	2	3	2	3	2	1	0	1	1	3	5	2	2	1	1	1	1	0	1.7	5.2
25-Jun-07	1	2	0	1	2	2	3	4	3	5	3	3	4	3	2	3	4	3	5	3	2	5	3	3	2.8	5.1
26-Jun-07	1	2	1	1	3	3	3	3	3	3	2	2	1	1	2	2	2	2	4	5	3	2	2	3	2.3	4.5
27-Jun-07	2	2	2	3	3	4	5	C	C	C	C	C	0	0	0	0	1	1	4	4	6	7	2	3	2.5	7.2
28-Jun-07	1	1	0	2	1	2	4	4	5	4	5	5	5	6	5	6	5	5	4	5	5	5	5	3	3.9	6.2
29-Jun-07	4	0	0	0	0	2	0	3	2	1	1	2	2	3	3	5	6	6	7	0	2	1	0	2	2.2	7.0
30-Jun-07	3	0	0	0	0	1	1	0	1	0	0	0	0	0	1	1	1	0	1	0	0	1	1	0	0.6	3.0

Hourly Avg	5.2	4.4	5.4	4.2	4.4	5.0	5.2	5.3	5.4	4.5	4.0	3.9	3.7	3.8	4.9	4.8	5.1	5.4	5.7	6.2	6.8	5.9	6.9	9.4
Hourly Max	31.2	18.4	78.8	20.9	13.8	13.9	15.6	17.1	16.2	11.9	11.3	16.1	15.5	14.1	14.9	26.4	19.4	17.9	18.9	24.7	26.7	29.5	48.1	73.8

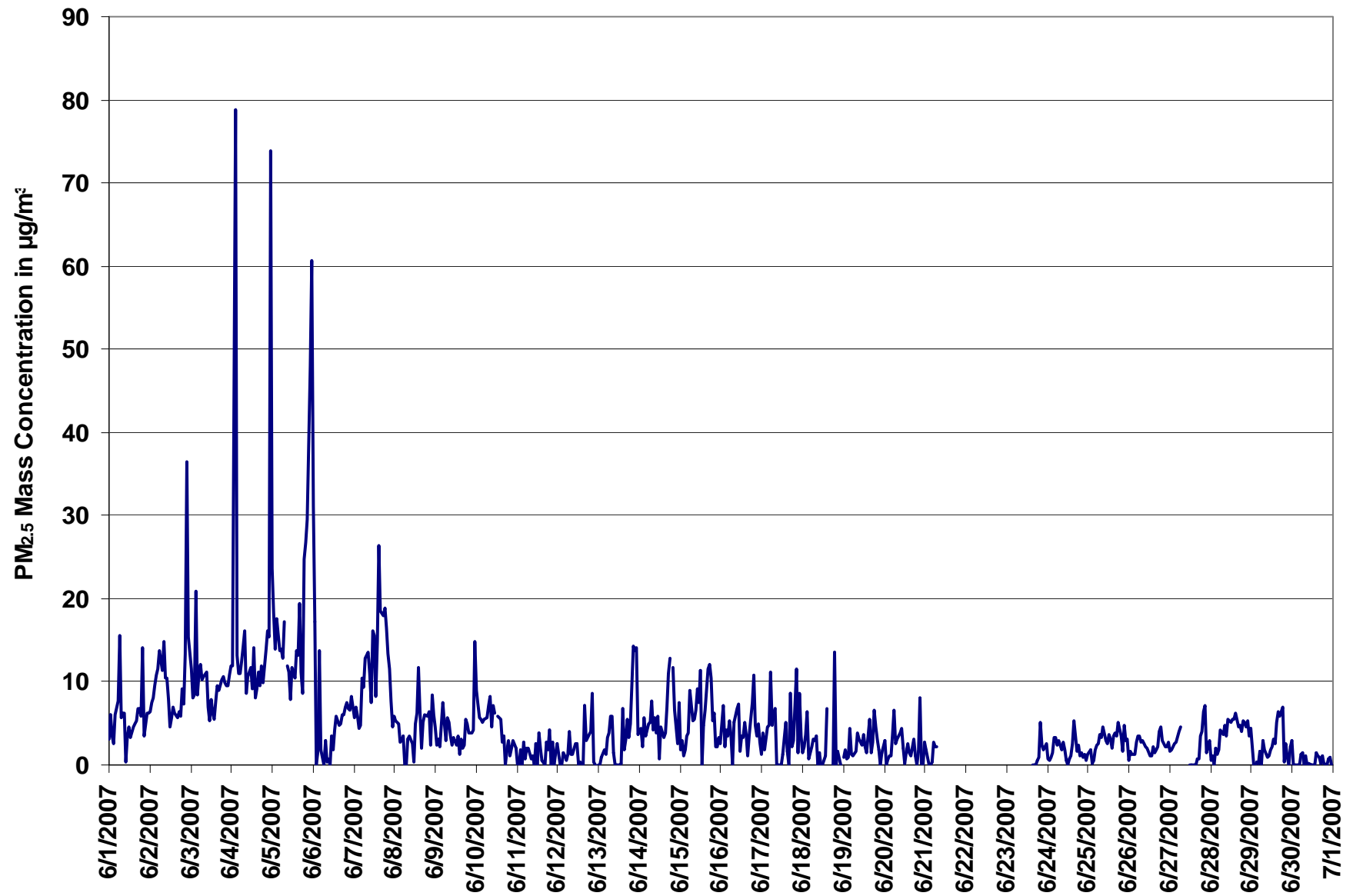


Figure 31. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Smoky Heights  
Station Owner: PASZA

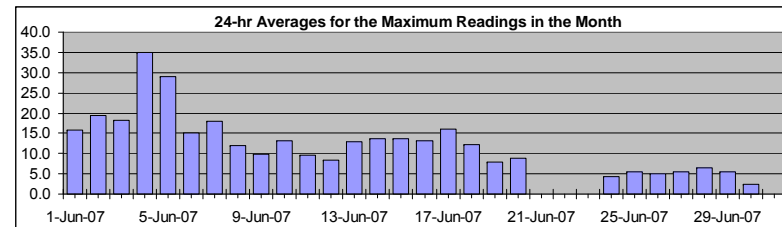
### INSTANTANEOUS (30 Second) MAXIMUM TABLE

### Particulate Matter (PM<sub>2.5</sub>)

Monitoring Dates: June 1, 2007 to July 1, 2007

#### Summary

Maximum 1-hr Average:	211.0	µg/m <sup>3</sup>	4-Jun	23:00 0:00
Maximum 24-hr Value:	34.9	µg/m <sup>3</sup>	4-Jun	



AIC Time:	0 hrs	Operational Time:	653 hrs							
Calibration Time:	9 hrs	AMD Operational Uptime:	91.9%							
Percentile	99	95	75	50	25	5	1	Average / Median	Geommean	
	56.0	28.7	15.4	9.4	5.3	2.3	1.2	12.3	9 µg/m <sup>3</sup>	10.6 µg/m <sup>3</sup>

#### Status Flag Characters

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

#### Day Mountain Standard Time

Day	0:00 Hour End	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	24:00 0:00	24-hour Average	Daily Maximum	
1-Jun-07	14	10	10	11	14	14	37	11	13	14	10	18	13	11	14	14	13	17	15	11	45	22	18	13	15.9	45.4		
2-Jun-07	13	10	11	12	14	19	23	19	22	20	19	20	10	14	16	12	11	14	13	16	16	20	69	55	19.5	68.9		
3-Jun-07	17	12	16	65	13	14	16	13	15	17	17	28	29	15	16	15	20	19	14	14	12	13	13	13	18.3	65.1		
4-Jun-07	14	14	202	17	13	14	16	19	24	17	18	26	22	34	19	18	21	21	18	13	20	26	20	211	34.9	211.0		
5-Jun-07	43	36	19	23	23	20	18	25	P	16	24	20	19	20	21	25	30	29	20	33	35	37	63	66	29.0	66.0		
6-Jun-07	57	35	11	6	22	12	6	9	9	9	7	12	8	11	14	15	16	17	11	19	14	16	10	17	15.1	57.2		
7-Jun-07	11	9	13	7	9	14	14	18	19	22	17	24	21	14	27	34	27	23	31	21	19	19	11	8	17.9	33.9		
8-Jun-07	9	10	9	7	5	8	8	6	11	16	17	7	14	15	23	19	9	10	13	14	15	9	17	17	11.9	23.1		
9-Jun-07	7	5	6	5	14	11	6	11	11	10	10	10	13	15	12	7	7	8	12	8	6	6	11	22	9.7	22.3		
10-Jun-07	17	12	8	7	7	8	8	10	13	11	16	14	D	31	19	26	25	12	19	8	11	6	4	8	13.1	31.3		
11-Jun-07	14	5	7	3	4	2	8	7	10	13	8	10	9	13	14	14	8	18	16	21	4	8	4	7	9.5	21.2		
12-Jun-07	4	3	2	3	3	7	5	9	4	6	7	10	5	7	6	5	31	12	14	18	24	5	5	D	8.4	31.0		
13-Jun-07	3	1	2	4	2	7	9	9	12	10	9	8	16	10	21	13	13	25	11	14	46	31	30	9	13.0	45.8		
14-Jun-07	10	8	7	12	5	7	11	11	9	10	13	15	11	16	17	13	20	40	22	P	22	9	11	13	13.6	39.8		
15-Jun-07	8	9	4	4	8	7	22	13	13	13	19	13	19	9	23	22	41	26	20	7	15	4	5	6	13.7	41.4		
16-Jun-07	7	9	6	7	8	8	12	7	13	13	17	13	15	22	22	16	10	12	34	31	12	6	8	5	13.1	33.9		
17-Jun-07	6	7	5	7	9	19	20	12	26	16	10	8	17	14	25	12	19	22	9	17	40	26	29	10	16.0	40.5		
18-Jun-07	6	6	13	10	7	7	7	12	14	10	10	12	26	15	26	D	13	D	3	46	4	6	2	D	12.1	45.7		
19-Jun-07	5	5	3	2	8	6	6	5	7	12	8	10	11	8	9	18	10	9	22	11	5	4	3	5	8.0	22.0		
20-Jun-07	6	3	2	3	3	7	11	7	8	13	13	10	12	12	14	14	15	13	7	8	5	19	6	3	8.9	19.0		
21-Jun-07	6	5	2	2	5	7	5	7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	7.5		
22-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0	
23-Jun-07	P	P	P	P	P	P	P	P	P	P	P	C	C	C	C	0	2	1	3	2	13	5	5	6	N	12.9		
24-Jun-07	2	3	2	4	6	5	5	5	4	5	4	5	2	4	5	6	9	5	7	3	3	3	4	3	4.2	8.6		
25-Jun-07	3	3	2	2	3	4	5	5	5	6	5	5	6	5	6	6	7	5	9	8	5	10	6	7	5.4	9.8		
26-Jun-07	3	4	2	3	4	5	5	4	6	4	7	4	4	5	8	4	4	6	7	7	7	5	4	5	4.9	8.3		
27-Jun-07	4	4	4	4	5	6	8	C	C	C	C	C	1	1	1	1	5	4	7	16	9	17	5	6	5.6	17.3		
28-Jun-07	3	4	1	4	3	3	6	6	7	6	10	7	9	8	9	9	8	7	6	8	9	8	8	6	6.5	9.7		
29-Jun-07	7	2	3	2	3	4	3	5	6	6	6	5	5	5	6	9	10	9	19	2	5	4	3	5	5.5	18.7		
30-Jun-07	5	3	4	1	1	3	4	1	2	1	2	1	1	3	3	2	3	3	4	2	1	3	2	2	2.4	5.4		
Hourly Avg	10.8	8.5	13.5	8.4	7.9	9.0	10.8	9.9	11.3	11.4	11.7	12.1	12.1	12.4	14.6	13.0	14.5	14.3	13.8	14.0	15.2	12.3	13.4	20.3				
Hourly Max	57.2	36.1	201.5	65.1	23.2	20.4	37.1	25.1	26.2	21.7	24.1	27.6	28.8	33.5	26.5	33.9	41.4	39.8	33.9	45.7	45.8	37.0	68.9	211.0				

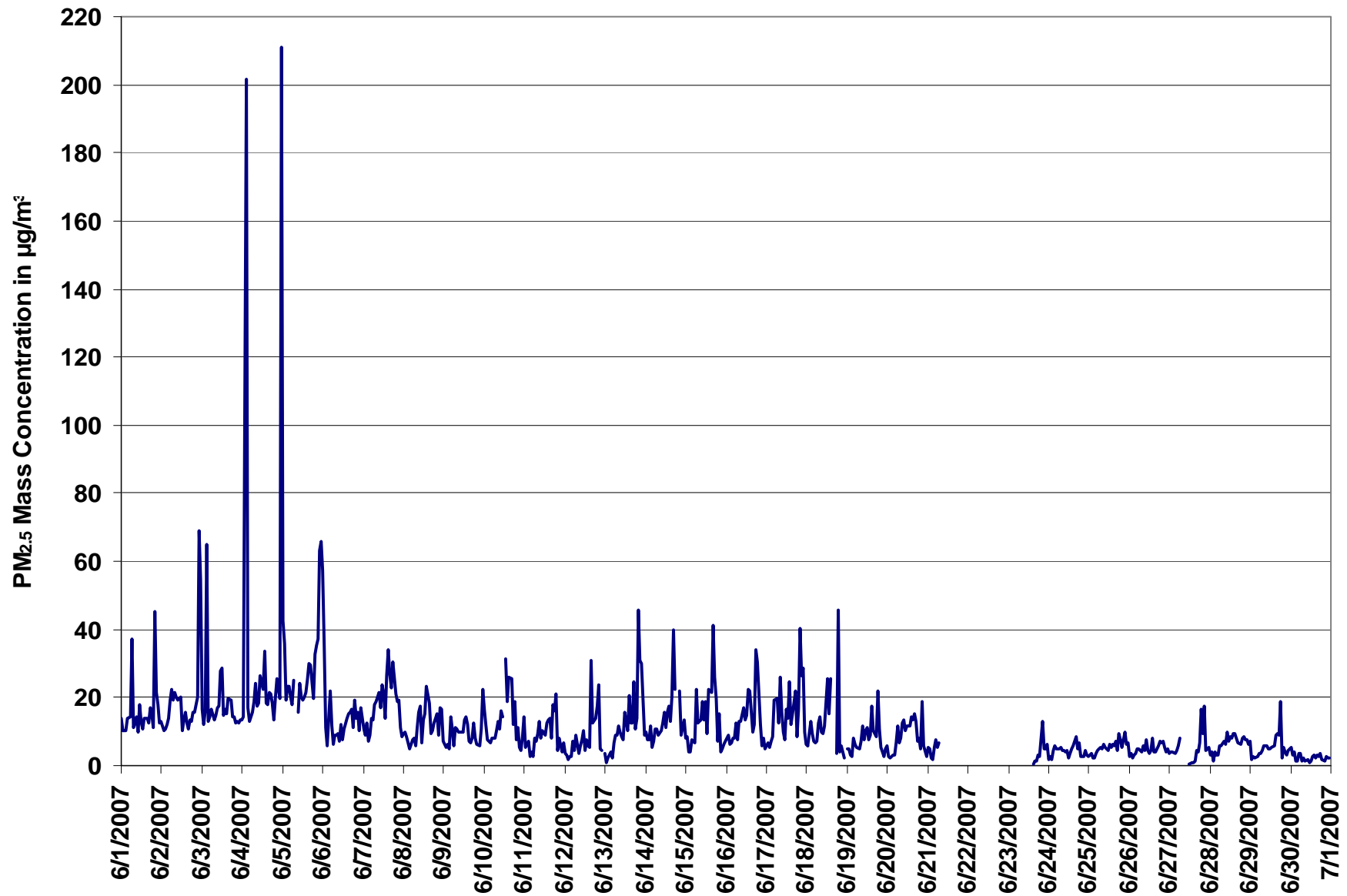
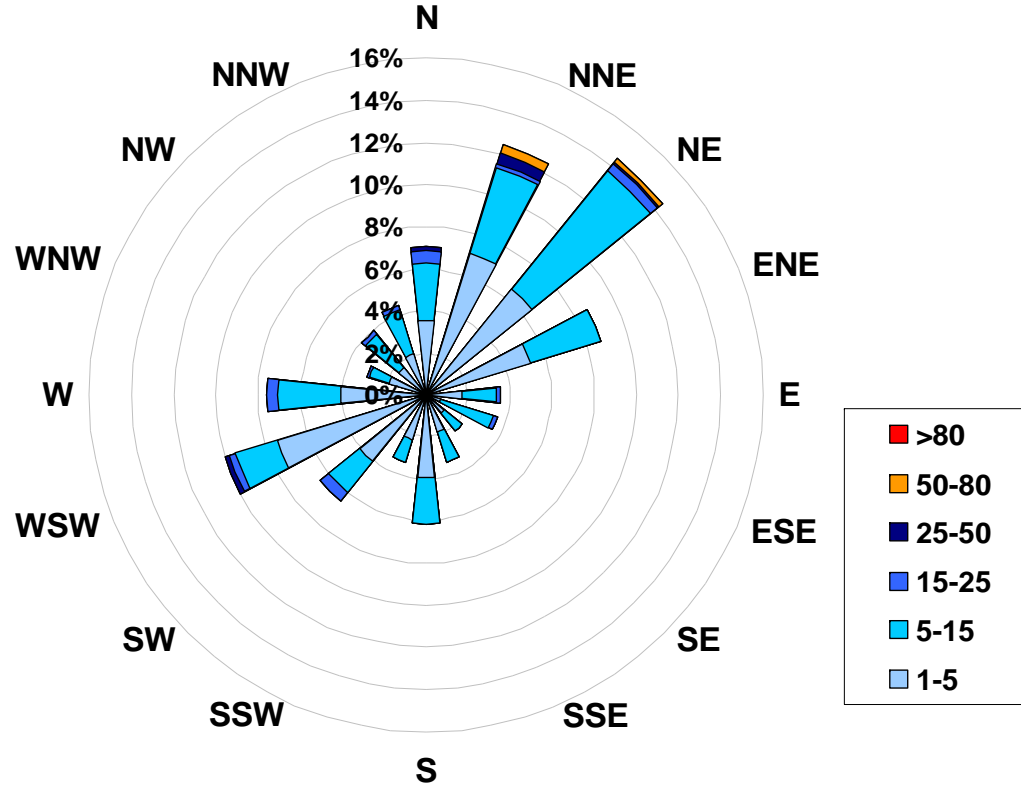


Figure 32. PASZA - Smoky Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend



**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 June 2007**



**Calms: 0%**

Frequency Distribution of PM <sub>2.5</sub> in µg/m <sup>3</sup>			Frequency (hrs)
Range			
1.0	< 5		409
5	to 15		216
15	to 25		19
25	to 50		6
50	to 80		3
	> 80		0
Total Non-Zero Values			653



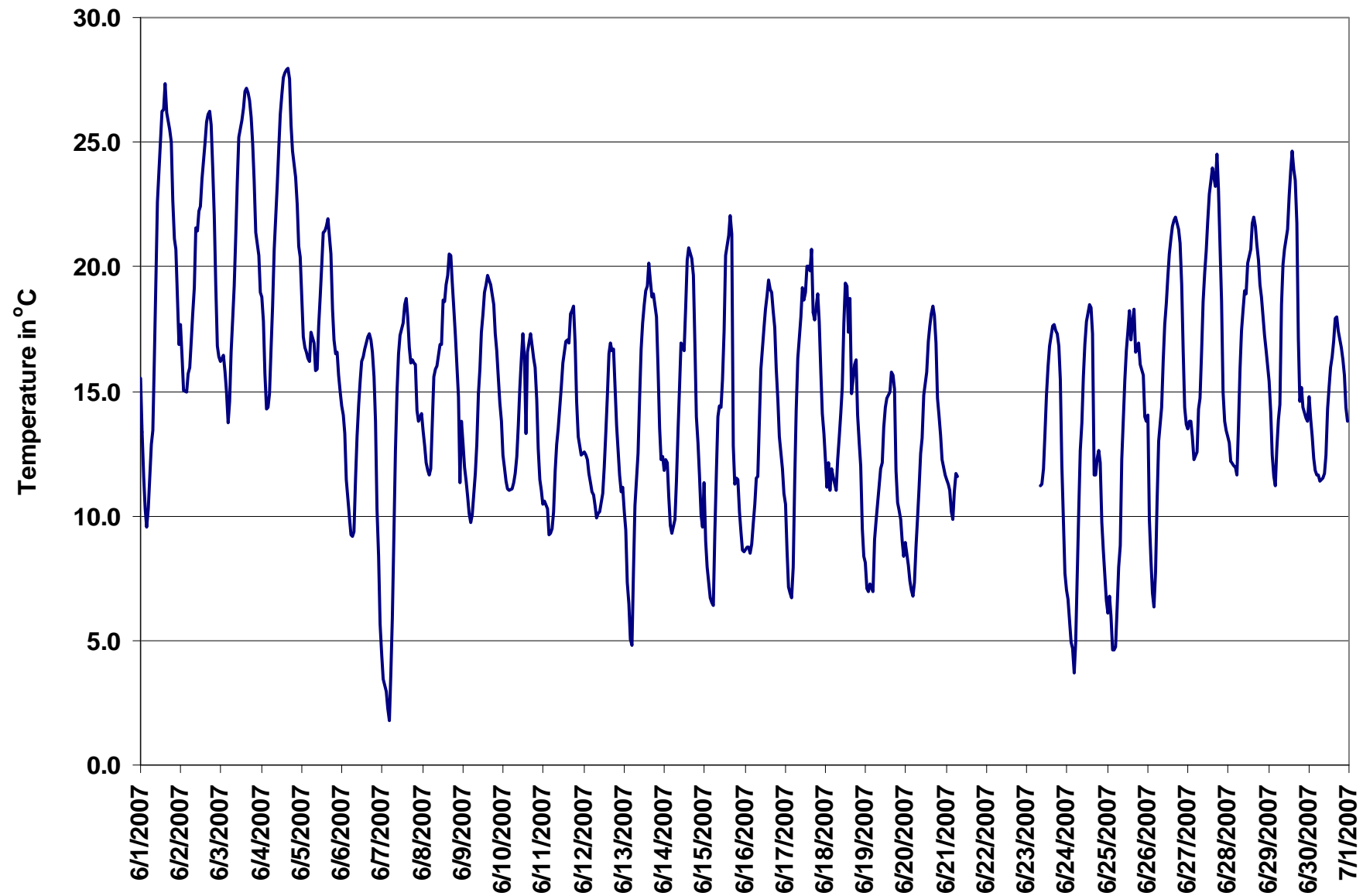


Figure 33. PASZA - Smoky Heights Temperature 1-hr Average Monthly Trend



# PASZA - Smoky Heights - Vector Wind Speed Monthly Summary

Station: Smoky Heights  
Station Owner: PASZA

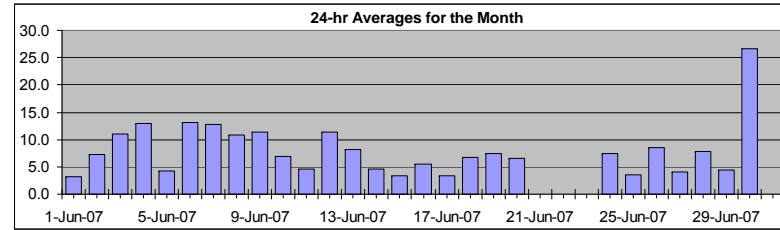
## HOURLY AVERAGE TABLE

## Wind Speed (WSv)

Monitoring Dates: June 1, 2007 to July 1, 2007

### Summary

Maximum 1-hr Average:	38.4	km/hr	30-Jun	17:00 18:00
Maximum 24-hr Value:	26.5	km/hr	30-Jun	



Calm Time:	3 hrs	0% calms	Operational Time:	669 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	93.3%				
Percentile	99	95	75	50	25	5	1	AverageV
	33.7	23.8	13.2	9.1	5.7	2.8	1.1	3.9 km/hr

### Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Jun-07	4	2	4	4	3	1	2	6	4	calm	5	6	5	5	7	7	5	8	9	8	2	4	5	5		3.2	8.9
2-Jun-07	7	7	4	5	2	2	3	3	7	13	18	20	16	14	12	9	9	9	10	8	6	6	5	6		7.3	19.5
3-Jun-07	5	8	7	8	7	8	11	11	11	11	14	14	15	14	17	16	16	17	18	15	12	9	10	10		11.0	17.7
4-Jun-07	11	10	9	9	9	11	13	11	10	18	26	24	23	24	25	25	22	19	14	11	8	10	6	6		12.9	25.9
5-Jun-07	5	3	5	2	3	6	12	6	12	15	18	10	9	11	14	11	13	7	10	17	6	11	12	13		4.3	18.0
6-Jun-07	14	17	20	26	20	16	14	13	15	14	17	18	19	16	13	11	11	8	8	8	6	3	6	4		13.2	25.8
7-Jun-07	4	4	5	2	5	6	8	11	15	18	19	18	20	20	22	26	32	21	17	12	14	10	13	17		12.9	32.0
8-Jun-07	17	16	15	14	15	12	11	9	8	11	9	8	7	11	20	16	16	15	13	9	6	8	4	10		10.8	19.8
9-Jun-07	8	8	10	8	6	7	5	7	9	11	11	12	15	16	18	20	19	20	18	13	14	12	10	11		11.3	19.9
10-Jun-07	11	13	16	13	9	8	7	9	9	10	7	7	5	12	10	9	13	17	14	12	10	10	8	4		6.9	16.6
11-Jun-07	19	12	7	5	8	3	6	8	7	11	7	6	5	4	6	5	2	2	4	1	15	11	12	13		4.6	19.0
12-Jun-07	18	18	20	16	9	20	21	10	19	18	14	12	16	18	15	17	6	5	11	8	4	5	6	15		11.3	21.3
13-Jun-07	16	16	12	4	8	9	10	8	9	10	7	10	14	9	4	2	8	6	17	18	12	3	7	10		8.2	17.7
14-Jun-07	11	14	11	3	6	4	6	5	5	4	1	6	8	6	8	7	3	5	17	24	24	16	9	8		4.7	24.5
15-Jun-07	8	4	3	4	4	3	3	1	6	9	9	5	7	11	13	12	12	8	10	11	6	6	4	4		3.4	13.3
16-Jun-07	4	3	3	6	6	10	10	13	10	10	10	12	14	13	13	12	10	8	6	9	9	11	11	12		5.5	14.5
17-Jun-07	6	1	calm	3	4	6	4	3	3	4	6	3	5	2	9	12	4	23	14	7	3	5	1	6		3.4	22.7
18-Jun-07	4	4	4	1	13	19	8	3	7	7	5	2	1	6	6	22	21	24	30	17	11	2	7	10		6.7	29.7
19-Jun-07	12	11	13	14	14	19	23	21	12	12	8	6	8	4	2	10	10	9	4	8	5	5	2	4		7.5	22.8
20-Jun-07	5	7	3	4	5	3	5	5	9	11	11	7	8	10	10	11	10	10	11	11	9	4	6	7		6.6	11.3
21-Jun-07	8	9	6	8	calm	4	8	15	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		N	15.1
22-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		N	0.0
23-Jun-07	P	P	P	P	P	P	P	P	24	32	33	37	27	23	21	24	22	22	22	19	7	6	4	3		N	37.2
24-Jun-07	5	9	8	6	7	8	7	12	11	10	9	11	8	8	5	10	27	14	4	8	1	3	6	4		7.4	26.7
25-Jun-07	5	4	4	3	4	5	4	7	5	7	4	4	2	5	8	5	8	10	5	6	8	2	3	11		3.5	10.7
26-Jun-07	19	14	11	5	11	11	11	16	18	20	17	18	13	8	11	10	10	10	7	6	6	7	6	6		8.5	19.6
27-Jun-07	5	11	9	8	9	6	4	10	12	17	13	11	11	10	6	5	5	5	8	6	4	25	10	7		4.1	25.2
28-Jun-07	8	10	6	5	5	6	7	7	6	6	8	8	8	11	11	10	12	13	15	11	7	6	6	4		7.8	15.3
29-Jun-07	9	11	10	5	4	9	11	13	1	3	4	4	8	7	7	12	11	10	18	22	11	11	6	11		4.5	21.6
30-Jun-07	13	10	4	15	22	19	21	25	20	25	25	31	32	33	35	37	34	38	37	33	33	37	29	30		26.5	38.4
1-hr Vector	5.5	3.1	2.8	1.0	2.2	3.1	2.8	2.6	1.9	1.8	0.8	1.2	0.9	0.3	1.2	1.8	0.7	1.4	2.1	2.9	2.3	2.0	1.8	2.8			
Hourly Max	19.0	18.3	19.7	25.8	22.4	19.8	22.8	24.8	23.9	31.8	32.6	37.2	32.0	33.4	35.3	36.8	34.3	38.4	36.9	33.3	33.5	36.6	28.8	30.3			



## PASZA - Smoky Heights - Standard Deviation of Wind Direction Monthly Summary

Station: Smoky Heights  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**


Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	672 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	93.3%			
Percentile	99	95	75	50	25	5	1
	56.1	46.0	23.0	12.9	7.7	4.0	2.9

**Status Flag Characters**

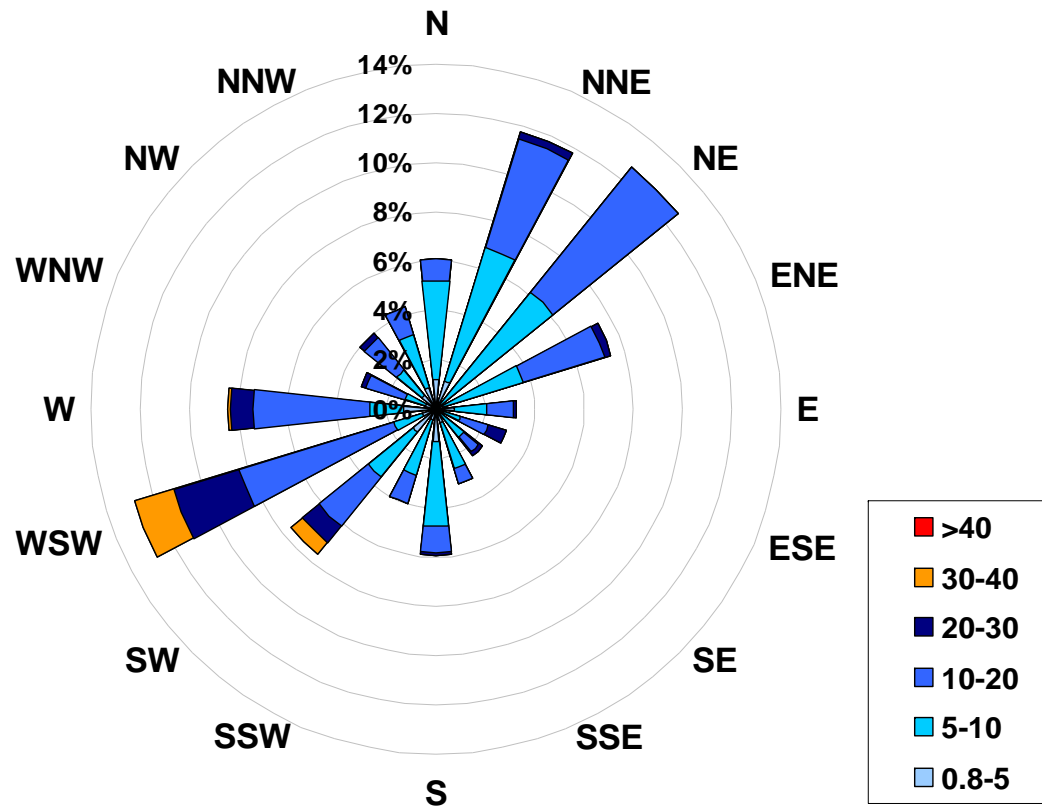
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

**Day Mountain Standard Time**

Day	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	Daily Maximum
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
1-Jun-07	16	31	26	31	28	38	36	8	21	46	25	24	44	51	26	26	31	13	7	6	28	36	9	7		50.8		
2-Jun-07	8	10	34	23	52	31	30	14	12	11	8	7	10	11	16	20	16	19	9	6	5	6	8	8		52.2		
3-Jun-07	13	8	10	5	7	8	6	8	10	10	12	13	13	19	12	13	12	10	8	5	6	7	7	6		18.7		
4-Jun-07	9	7	11	6	6	5	7	7	8	13	7	10	10	10	10	9	12	8	5	6	13	17	18	19		18.7		
5-Jun-07	21	35	17	44	23	18	9	21	4	6	9	15	18	23	10	10	8	20	22	8	27	7	5	5		44.1		
6-Jun-07	4	4	5	4	6	5	6	7	9	11	9	12	14	16	26	28	25	27	18	10	7	33	5	17		33.2		
7-Jun-07	9	9	12	38	12	6	6	8	8	9	13	14	13	14	13	8	5	4	14	7	5	5	4	5		38.0		
8-Jun-07	4	5	5	5	3	20	5	18	23	11	25	31	57	24	12	15	16	13	10	7	6	5	20	20		57.5		
9-Jun-07	6	10	11	8	17	37	16	17	13	13	15	15	18	14	11	12	10	8	8	6	6	5	11	12		36.8		
10-Jun-07	12	10	8	8	10	12	10	8	10	9	25	52	63	18	15	18	10	6	10	6	6	6	8	35		63.4		
11-Jun-07	12	11	45	15	8	26	14	18	23	14	28	42	41	41	22	29	43	49	32	36	3	4	4	5		49.2		
12-Jun-07	3	3	3	4	10	6	5	22	8	7	13	38	12	4	5	8	33	24	9	10	22	50	32	2		49.8		
13-Jun-07	2	2	21	37	6	4	4	9	15	14	29	27	22	31	41	36	16	36	8	9	4	23	12	12		40.9		
14-Jun-07	15	5	7	41	9	21	9	12	24	53	47	22	15	39	25	27	53	46	13	7	3	3	22	16		53.5		
15-Jun-07	26	37	44	17	14	10	16	34	19	13	14	30	36	17	14	15	30	29	9	22	29	9	14	9		43.7		
16-Jun-07	23	38	47	14	10	7	9	7	11	15	16	16	12	17	14	13	14	12	35	6	14	12	7	4		46.8		
17-Jun-07	54	42	32	18	11	15	11	40	28	39	30	52	34	68	31	14	32	10	6	12	15	12	36	14		67.8		
18-Jun-07	46	17	15	49	10	7	14	28	16	12	12	19	66	61	40	40	9	9	14	4	14	9	15	11	3		65.9	
19-Jun-07	5	7	2	3	6	8	7	6	12	12	21	35	25	56	36	20	19	19	50	14	15	17	35	14		55.8		
20-Jun-07	18	18	19	17	7	24	13	18	9	10	9	17	16	11	15	11	13	8	9	10	8	42	37	13		42.2		
21-Jun-07	7	13	25	11	31	49	12	9	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		48.5	
22-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		0.0	
23-Jun-07	P	P	P	P	P	P	P	P	22	6	6	6	8	10	15	14	12	10	7	5	29	15	19	54		54.1		
24-Jun-07	35	13	12	16	6	12	9	9	13	14	23	27	29	47	32	18	7	17	45	9	51	50	9	18		50.8		
25-Jun-07	27	21	27	54	24	14	16	9	19	11	44	47	58	47	36	21	22	11	16	28	48	44	27	15		57.5		
26-Jun-07	5	5	3	31	3	2	6	6	8	10	15	37	25	34	25	29	24	18	13	10	7	7	11	11		37.5		
27-Jun-07	14	6	10	9	7	13	22	6	8	11	18	16	15	20	37	35	22	33	15	17	43	10	16	16		42.6		
28-Jun-07	15	9	10	16	15	14	9	11	23	23	20	17	22	15	20	15	10	7	5	6	23	29	16	23		29.1		
29-Jun-07	20	12	9	35	26	11	5	6	57	56	51	37	30	30	28	14	12	8	30	6	7	6	23	13		56.7		
30-Jun-07	10	8	35	6	4	4	4	4	4	4	4	4	5	5	4	4	4	5	4	4	3	4	4	3	4		35.3	

Hourly Max	54	42	47	54	52	49	36	40	57	56	51	66	63	68	41	36	53	49	50	36	51	50	37	54
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1-hr Average Wind Rose (in km/hr) Located at the Smoky Heights Site for June 2007



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	< 5		77
5	to 10		267
10	to 20		266
20	to 30		46
30	to 40		16
	> 40		0
Total Non-Zero Values			672



# 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: June 1, 2007 to July 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:	603
Number of 1-hr Fair Readings:	28
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-Jun-07	16	14	11	13	N	8	8	13	16	19	22	24	25	26	30	31	28	27	24	22	21	20	20	21
2-Jun-07	19	18	14	15	N	15	28	25	21	21	24	28	29	40	30	29	29	29	26	23	24	21	21	21
3-Jun-07	21	20	18	18	N	15	46	29	20	26	25	25	24	24	24	31	24	24	23	22	20	20	20	20
4-Jun-07	18	18	17	17	N	20	17	17	20	23	26	30	32	32	34	35	33	34	31	22	22	22	31	18
5-Jun-07	14	13	15	16	N	14	13	11	11	12	10	12	N	N	4	5	10	14	15	N	20	20	23	19
6-Jun-07	15	14	14	15	N	18	18	18	16	16	17	19	20	21	21	22	22	22	22	20	19	15	15	16
7-Jun-07	13	12	11	8	N	9	8	9	8	11	17	20	19	18	17	16	14	13	12	12	13	12	11	12
8-Jun-07	12	13	13	14	N	13	13	14	15	15	15	15	17	17	18	18	18	18	18	17	16	19	18	17
9-Jun-07	16	16	16	16	N	13	13	13	14	16	18	20	20	20	20	19	19	18	18	15	16	18	18	18
10-Jun-07	17	16	15	13	N	11	8	10	12	14	16	N	N	18	18	18	N	18	19	18	17	17	16	14
11-Jun-07	13	13	8	10	N	7	7	11	13	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
12-Jun-07	N	N	N	N	N	N	N	N	N	N	N	N	N	13	13	14	14	14	13	13	13	12	12	12
13-Jun-07	10	11	9	9	8	7	8	N	12	13	14	15	15	15	16	16	16	16	16	15	13	12	11	11
14-Jun-07	10	9	9	9	9	10	8	N	11	12	15	15	17	19	19	19	21	17	19	18	16	18	18	17
15-Jun-07	16	11	12	5	N	7	8	8	11	14	17	18	20	20	20	20	20	19	18	18	18	16	12	12
16-Jun-07	13	13	12	13	N	12	11	11	12	14	15	16	16	17	17	17	17	16	14	15	14	13	11	11
17-Jun-07	9	12	9	6	N	5	5	8	8	12	N	N	18	18	19	19	18	18	17	18	15	15	16	16
18-Jun-07	13	10	9	10	N	10	9	14	16	17	17	18	16	15	N	14	13	14	15	15	14	13	13	12
19-Jun-07	12	12	12	10	N	7	8	11	13	14	N	15	15	15	15	15	15	16	17	15	14	N	14	14
20-Jun-07	14	13	11	10	N	8	5	8	7	8	12	11	N	16	17	19	19	18	17	16	14	13	13	13
21-Jun-07	14	12	10	9	N	9	N	11	12	14	N	N	18	N	18	N	19	19	19	18	17	15	16	16
22-Jun-07	15	14	13	8	N	10	10	11	14	14	N	17	17	17	21	22	21	20	20	20	17	16	15	15
23-Jun-07	14	14	15	13	N	12	11	13	15	13	14	N	N	14	N	N	N	15	15	14	13	12	11	12
24-Jun-07	10	10	10	9	N	7	8	10	12	13	N	N	N	16	16	16	15	16	14	15	14	12	14	14
25-Jun-07	14	11	7	7	N	8	5	7	9	12	14	15	15	15	15	15	15	15	15	16	14	13	13	13
26-Jun-07	12	12	11	8	N	7	8	10	12	N	N	N	N	N	16	16	16	17	17	16	15	15	15	15
27-Jun-07	15	16	14	13	N	9	8	11	13	14	15	19	19	20	20	20	20	19	18	18	17	15	11	10
28-Jun-07	11	13	8	8	N	12	14	17	15	16	N	17	19	21	22	22	20	20	19	16	18	18	15	16
29-Jun-07	15	13	10	11	N	11	8	9	13	14	18	20	22	23	20	21	19	16	16	17	17	18	18	16
30-Jun-07	15	14	12	14	N	9	9	11	13	13	13	13	13	13	13	13	13	13	13	13	14	13	14	13

# PASZA - Beaverlodge - Sulphur Dioxide Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

## Sulphur Dioxide (SO<sub>2</sub>)

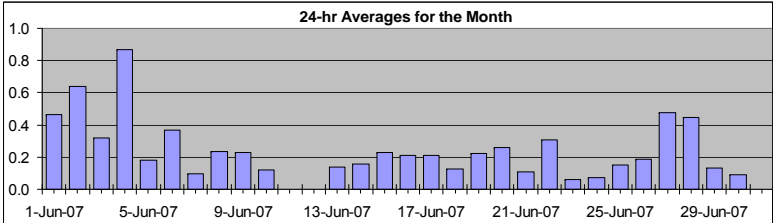
Monitoring Dates: June 1, 2007 to July 1, 2007

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:	2.5	ppb	1-Jun	8:00 9:00
Maximum 24-hr Average:	0.9	ppb	4-Jun	

AIC Time:	30 hrs				Operational Time:	653 hrs			
Calibration Time:	9 hrs				AMD Operational Uptime:	96.1%			
Percentile	99	95	75	50	25	5	1	Average	Median
	1.6	1.0	0.3	0.1	0.1	0.0	0.0	0.2 ppb	0.1 ppb



**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start 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-Jun-07	0	0	0	0	A	0	0	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	2.5
2-Jun-07	0	1	1	1	A	1	0	0	1	1	2	2	1	1	1	0	0	0	0	0	0	0	1	1	0.6	1.8	
3-Jun-07	0	0	1	1	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9	
4-Jun-07	0	1	1	1	A	1	1	1	1	1	1	2	2	1	1	1	0	1	1	0	0	0	0	0	0.9	1.9	
5-Jun-07	0	0	0	0	A	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0.2	0.4	
6-Jun-07	0	0	0	0	A	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.4	
7-Jun-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	
8-Jun-07	0	0	0	0	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8	
9-Jun-07	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0	
10-Jun-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	0.5	
11-Jun-07	0	0	0	0	A	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.4	
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	N	0.2	
13-Jun-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	0.1	0.3	
14-Jun-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	0.5	
15-Jun-07	0	0	0	0	A	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9	
16-Jun-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	0.2	0.8	
17-Jun-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	1.4	
18-Jun-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	0.4	
19-Jun-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0.2	1.8	
20-Jun-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.3	1.4	
21-Jun-07	0	0	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.6	
22-Jun-07	2	2	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.9	
23-Jun-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	
24-Jun-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	
25-Jun-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	0.4	
26-Jun-07	0	0	0	0	A	0	0	0	0	C	C	C	C	0	0	0	0	0	0	1	0	0	0	0	0.2	0.6	
27-Jun-07	0	0	0	0	A	0	1	1	1	1	1	0	0	0	0	0	2	0	1	0	0	0	0	0	0.5	1.9	
28-Jun-07	0	0	0	0	A	0	0	1	C	C	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0.4	1.3	
29-Jun-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	0.5	
30-Jun-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	0.3	0.3	N	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1			
Hourly Max	1.9	1.5	1.4	1.5	0.5	1.0	0.9	1.4	2.5	1.2	1.6	1.9	1.6	1.3	1.0	0.7	1.9	0.8	1.1	1.4	1.8	0.6	0.5	0.7			

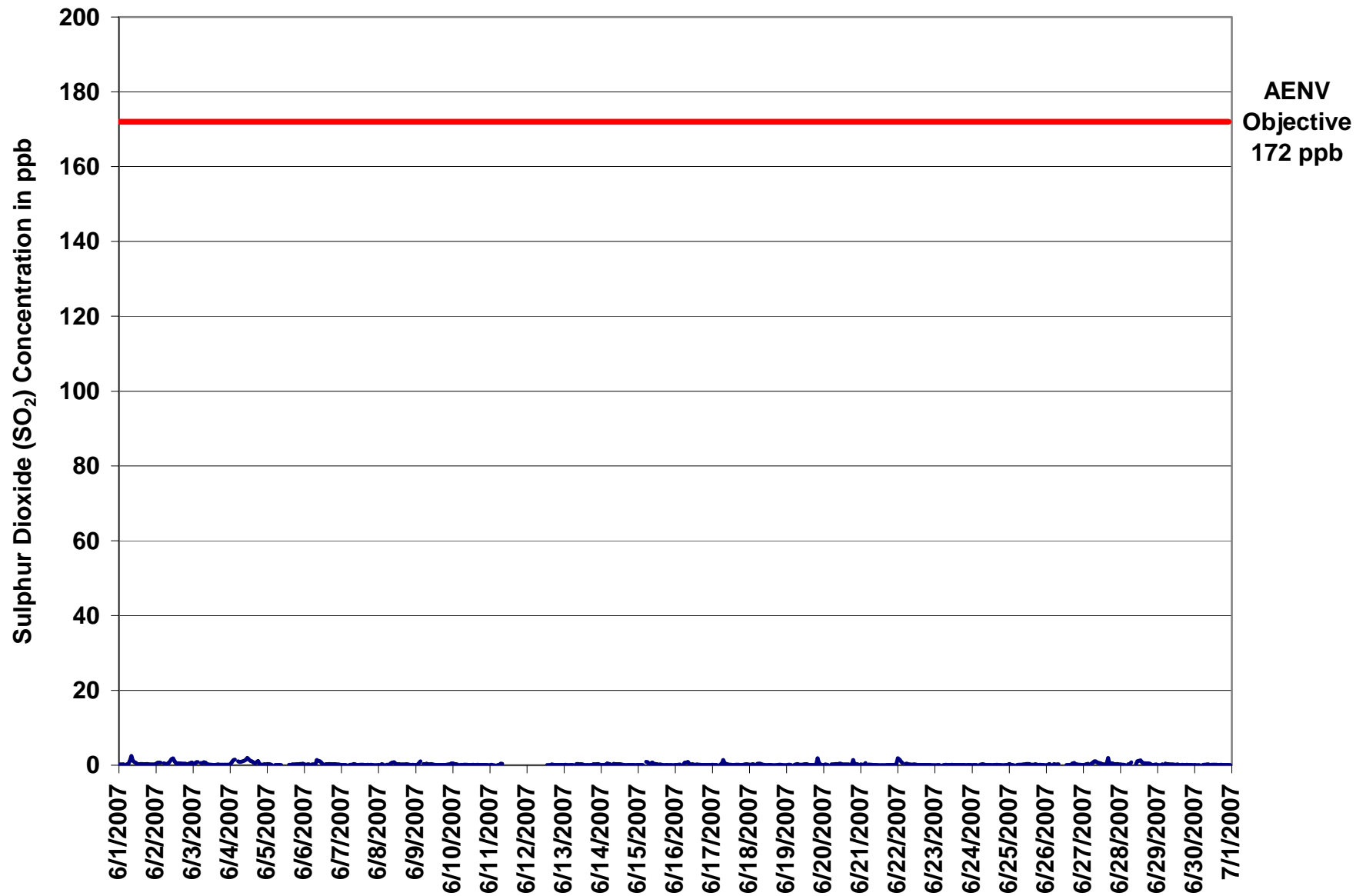


Figure 34. PASZA - Beaverlodge Sulphur Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

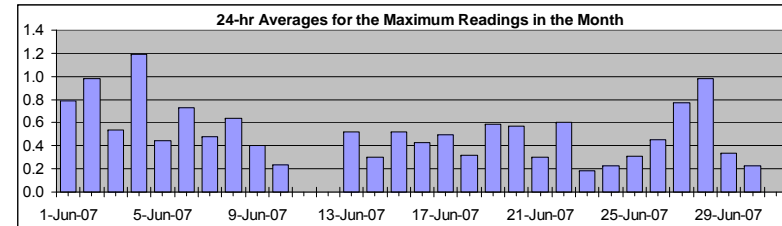
**Sulphur Dioxide (SO<sub>2</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	7.4	ppb	28-Jun	10:00 11:00
Maximum 24-hr Value:	1.2	ppb	4-Jun	

AIC Time:	30 hrs	Operational Time:	653 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	96.1%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.0	1.6	0.5	0.3	0.2	0.1	0.1	0.5 ppb	0.3 ppb



**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	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-Jun-07	0	0	0	0	A	1	1	3	4	2	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0.8	3.6
2-Jun-07	1	1	1	1	A	1	1	1	1	2	3	3	1	1	1	1	1	1	1	0	0	1	1	1	1.0	2.9
3-Jun-07	1	1	1	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.2
4-Jun-07	0	1	2	2	A	1	1	1	1	1	2	3	3	1	1	1	1	1	1	1	0	0	0	0	1.2	2.9
5-Jun-07	1	1	0	0	A	0	0	0	0	0	C	C	C	A	0	0	0	0	1	0	1	1	1	0.4	1.1	
6-Jun-07	0	0	1	1	A	0	0	1	2	2	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0.7	2.2
7-Jun-07	0	0	0	0	A	0	0	1	2	2	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0.5	2.3
8-Jun-07	0	0	0	0	A	0	0	0	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.6	3.1
9-Jun-07	0	0	1	1	A	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	1.5
10-Jun-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	0.7
11-Jun-07	0	0	0	0	A	0	0	1	1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.7
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	N	0.4
13-Jun-07	0	0	0	0	0	0	0	A	3	1	1	0	0	2	0	0	0	0	0	1	1	1	1	0	0.5	2.7
14-Jun-07	0	0	0	0	1	1	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
15-Jun-07	0	0	0	0	A	1	1	1	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	3.7
16-Jun-07	0	0	0	0	A	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.9
17-Jun-07	0	0	0	0	A	0	2	3	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.5	2.7
18-Jun-07	0	0	0	0	A	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
19-Jun-07	0	1	1	0	A	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	4	2	1	0	0.6	3.5
20-Jun-07	0	0	0	0	A	0	0	0	1	0	1	1	0	0	0	0	0	0	0	4	1	1	0	0	0.6	3.9
21-Jun-07	0	0	0	2	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	1.7
22-Jun-07	3	3	2	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	3.5
23-Jun-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	0.2	0.5
24-Jun-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.2	0.9
25-Jun-07	1	0	0	0	A	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0.3	0.6
26-Jun-07	0	0	1	0	A	1	0	0	0	C	C	C	C	0	0	0	0	2	1	0	0	0	0	0	0.5	2.0
27-Jun-07	0	0	0	1	A	1	1	1	1	1	1	1	1	1	0	1	3	1	1	1	1	1	1	0	0.8	2.7
28-Jun-07	0	0	0	0	A	0	1	1	C	C	7	1	1	2	1	1	1	1	1	1	0	0	0	1	1.0	7.4
29-Jun-07	0	0	0	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0.3	1.0
30-Jun-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	0.2	0.4
Hourly Avg	0.4	0.5	0.5	0.5	N	0.5	0.6	0.8	1.0	0.9	0.9	0.7	0.5	0.5	0.3	0.3	0.4	0.4	0.4	0.5	0.4	0.4	0.3	0.3		
Hourly Max	3.5	2.7	2.0	1.8	0.6	1.5	2.4	3.0	3.6	3.7	7.4	2.9	2.7	2.1	1.3	1.3	2.7	2.0	1.5	3.9	3.5	2.5	1.0	1.2		

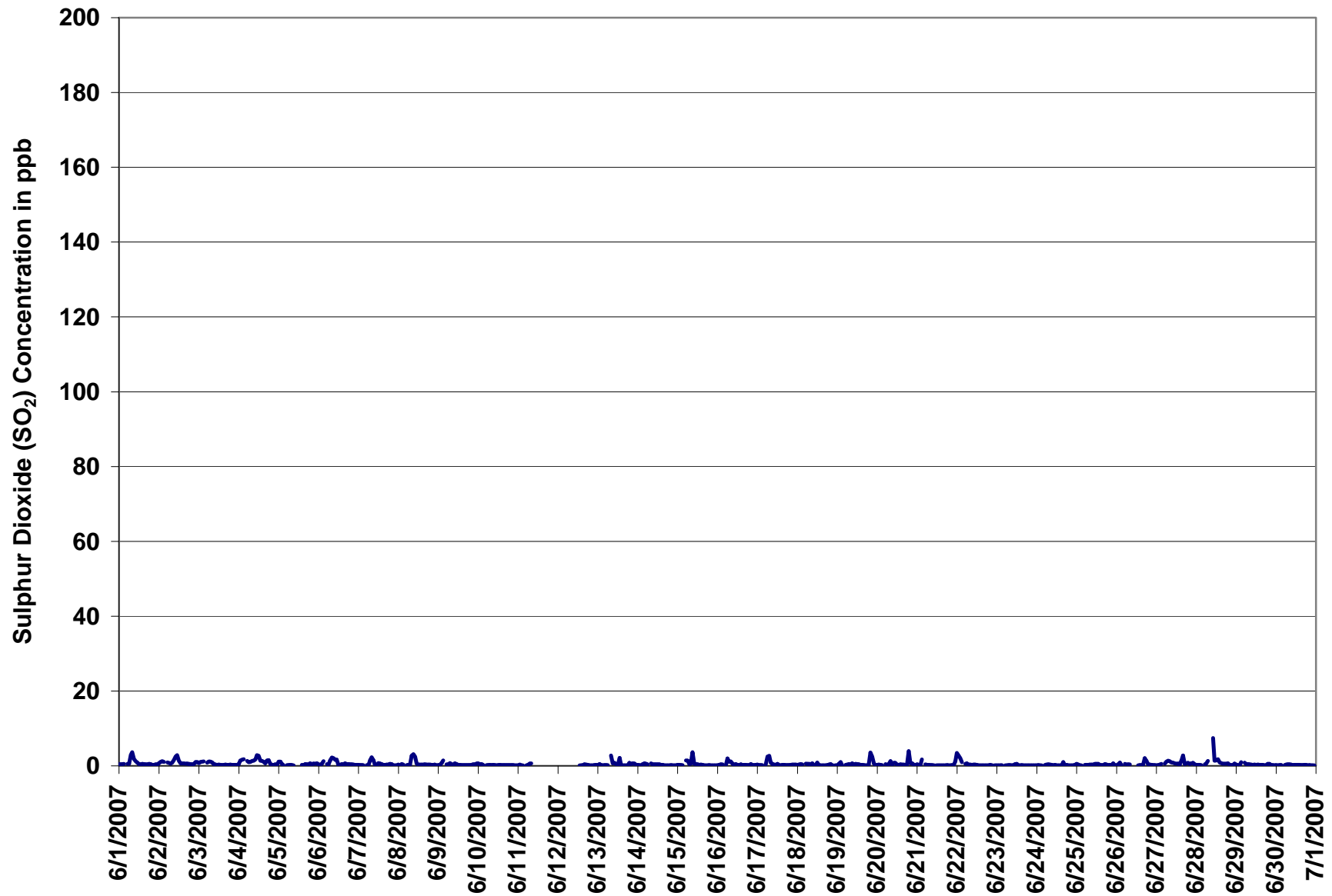
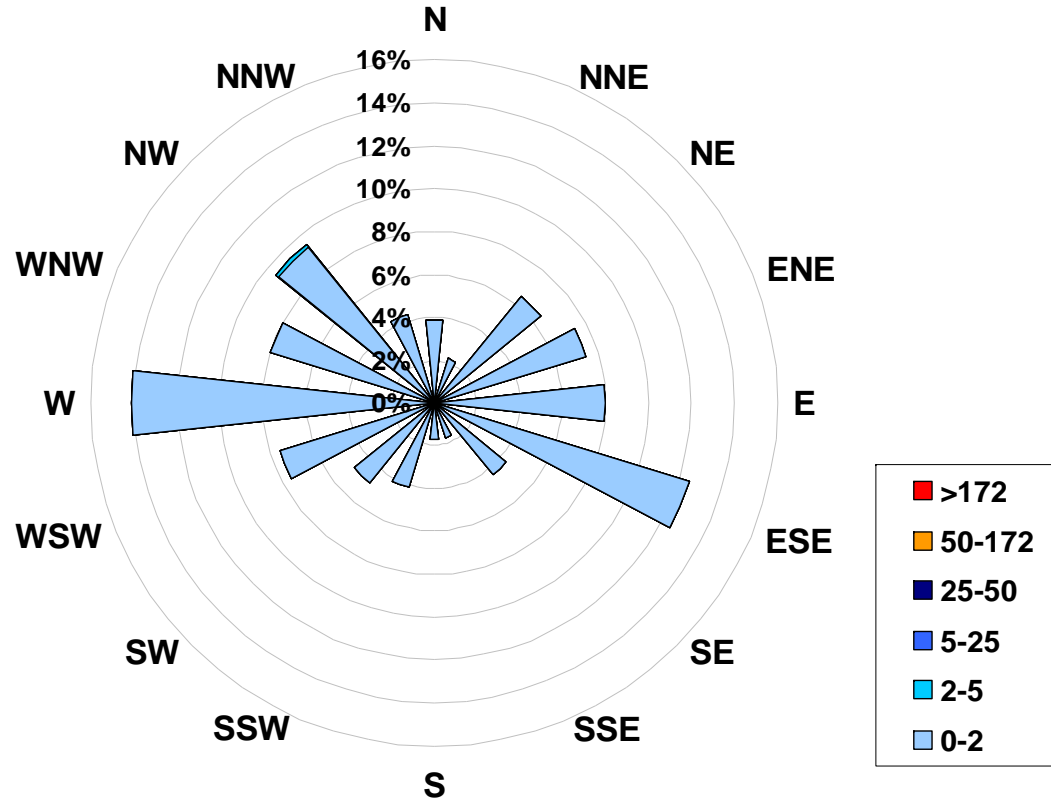


Figure 35. PASZA - Beaverlodge Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			
Range			Frequency (hrs)
0.0	<	2	652
2	to	5	1
5	to	25	0
25	to	50	0
50	to	172	0
	>	172	0
Total Non-Zero Values			653

# PASZA - Beaverlodge - Nitrogen Dioxide Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

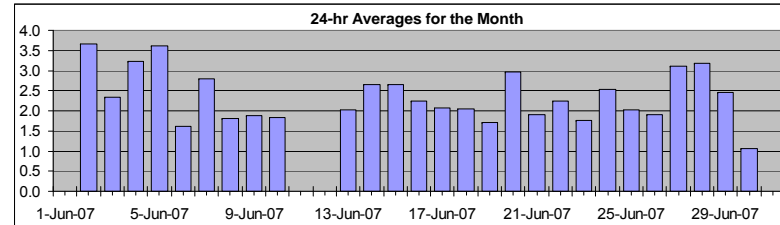
## Nitrogen Dioxide (NO<sub>2</sub>)

Monitoring Dates: June 1, 2007 to July 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:	8.5	ppb	5-Jun	1:00 2:00
Maximum 24-hr Average:	3.7	ppb	2-Jun	

AIC Time:	30 hrs		Operational Time:	635 hrs					
Calibration Time:	9 hrs		AMD Operational Uptime:	93.6%					
Percentile	99	95	75	50	25	5	1	Average	Median
	6.8	5.0	3.1	2.0	1.1	0.9	0.6	2.3 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-Jun-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	C	A	4	4	4	N	4.3
2-Jun-07	4	5	6	5	A	8	8	6	7	4	3	3	2	2	2	2	2	2	2	2	2	3	3	3	3.7	8.5
3-Jun-07	2	3	4	4	A	4	7	5	4	2	2	2	2	2	1	1	1	1	1	1	2	1	2	2.3	7.0	
4-Jun-07	2	2	3	3	A	3	3	4	4	3	2	C	C	C	A	2	2	3	4	4	4	5	5	3.2	5.3	
5-Jun-07	8	9	5	4	A	5	5	5	6	3	6	3	2	2	2	2	2	2	3	2	2	2	3	3.6	8.5	
6-Jun-07	2	2	1	1	A	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	4	3	3	3	1.6	3.9
7-Jun-07	4	5	5	5	A	6	5	4	6	4	2	1	2	2	2	2	1	1	1	3	1	1	1	1	2.8	6.1
8-Jun-07	2	1	1	1	A	3	4	2	2	4	3	1	1	1	1	1	1	1	1	2	3	2	2	2	1.8	4.2
9-Jun-07	3	2	2	2	A	4	3	2	3	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2	1.9	3.9
10-Jun-07	2	2	3	3	A	3	3	4	3	2	2	2	1	1	1	1	1	1	1	1	2	1	1	2	1.8	3.7
11-Jun-07	2	2	4	3	A	3	3	1	1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	3.9
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	1	1	1	1	1	1	1	1	2	2	1	N	1.8
13-Jun-07	2	2	2	2	2	3	4	A	3	1	2	1	1	1	1	1	1	1	1	2	2	3	4	3	2.0	4.3
14-Jun-07	4	3	4	4	3	3	4	A	2	2	1	1	2	2	3	2	2	4	2	3	4	2	2	2	2.7	4.4
15-Jun-07	3	3	2	6	A	4	3	4	3	3	2	2	2	2	2	1	1	2	2	2	2	4	5	2.6	6.0	
16-Jun-07	3	3	3	3	A	3	3	2	2	2	2	1	1	1	1	1	1	2	2	2	2	4	4	4	2.2	3.9
17-Jun-07	5	3	3	4	A	4	3	3	2	2	1	1	2	1	1	1	1	1	1	1	2	2	2	2	2.1	4.8
18-Jun-07	4	5	7	4	A	3	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2.1	6.6
19-Jun-07	1	1	2	4	A	6	3	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1.7	6.3
20-Jun-07	1	2	3	3	A	4	6	4	6	4	2	4	3	2	2	2	1	2	2	2	3	4	3	2	3.0	6.4
21-Jun-07	2	3	4	4	A	4	5	3	2	1	1	1	1	1	1	1	1	1	1	1	3	1	2	1.9	4.5	
22-Jun-07	2	3	4	5	A	4	5	4	2	1	1	1	1	2	1	1	1	1	1	1	2	3	3	3	2.2	5.3
23-Jun-07	2	3	3	2	A	4	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	1.7	4.0
24-Jun-07	4	4	3	3	A	5	5	3	2	1	1	1	1	1	1	1	2	2	3	2	3	5	4	4	2.5	5.1
25-Jun-07	4	3	5	4	A	3	4	4	2	2	1	1	1	1	1	1	1	1	1	1	2	2	1	2.0	5.0	
26-Jun-07	2	3	2	3	A	3	3	2	2	C	C	C	C	1	1	1	1	1	1	1	2	2	2	2	1.9	3.3
27-Jun-07	2	2	2	2	A	6	7	5	3	4	4	3	2	1	1	1	1	2	2	2	3	4	6	6	3.1	7.0
28-Jun-07	5	5	6	5	A	4	3	2	3	3	3	3	3	2	2	3	3	2	2	2	2	3	4	2	3.2	5.7
29-Jun-07	2	3	5	4	A	2	3	3	2	3	2	1	2	3	2	3	3	2	2	2	3	2	1	1	2.5	5.0
30-Jun-07	2	2	3	1	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1.1	2.9
Hourly Avg	2.9	3.0	3.4	3.4	N	3.8	4.0	3.1	2.8	2.3	1.9	1.5	1.4	1.3	1.3	1.3	1.3	1.5	1.5	1.8	2.1	2.4	2.6	2.5		
Hourly Max	8.5	8.5	6.6	6.0	3.2	8.4	8.5	6.4	7.1	4.2	5.8	3.5	2.9	2.5	2.8	2.9	3.2	4.0	3.9	4.2	3.9	4.5	6.2	5.9		



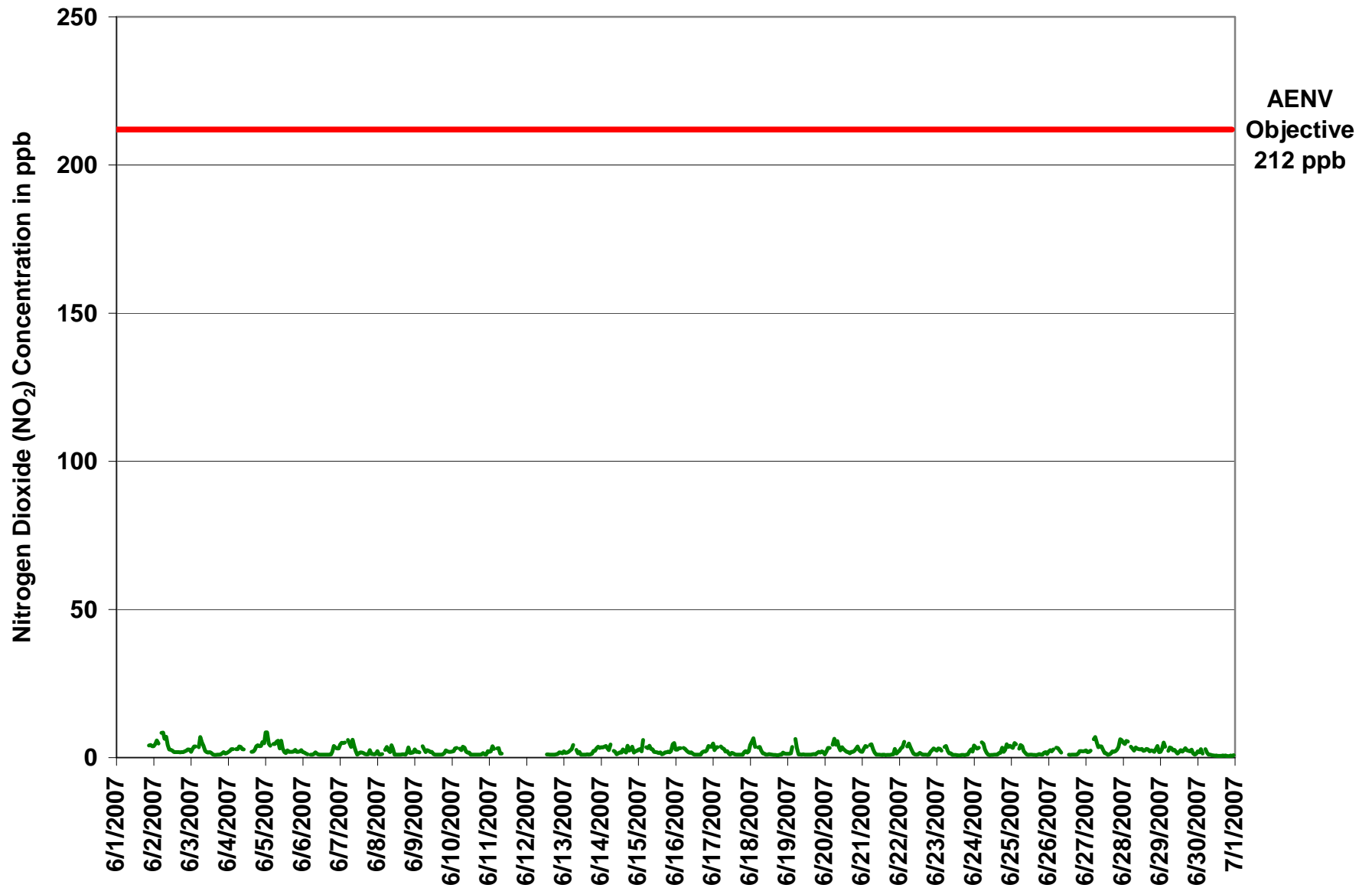


Figure 36. PASZA - Beaverlodge Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

### INSTANTANEOUS (30 Second) MAXIMUM TABLE

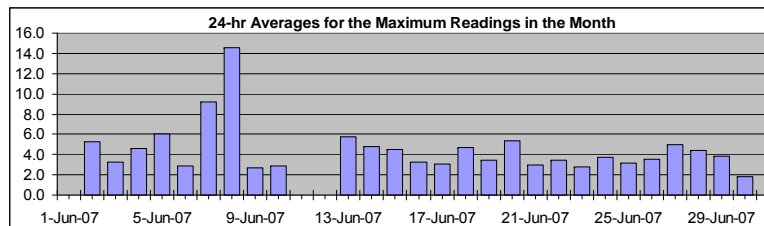
### Nitrogen Dioxide (NO<sub>2</sub>)

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	156.3	ppb	8-Jun	9:00 10:00
Maximum 24-hr Value:	14.6	ppb	8-Jun	

AIC Time:	30 hrs	Operational Time:	635 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	93.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	27.6	9.1	5.0	3.0	2.0	1.0	1.0	4.5 ppb	3.0 ppb



**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	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-Jun-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	C	A	5	5	9	N	9.1	
2-Jun-07	5	9	9	7	A	15	14	8	9	7	4	4	3	2	2	2	2	2	2	3	4	3	3	4	5.3	15.5	
3-Jun-07	3	4	5	5	A	5	11	7	6	3	2	2	2	2	4	1	2	2	2	2	3	2	2	3.3	10.6		
4-Jun-07	3	3	3	4	A	3	4	4	4	4	4	C	C	C	A	3	3	3	6	7	5	8	9	10	4.6	9.7	
5-Jun-07	15	16	7	5	A	8	9	9	12	4	13	5	3	3	4	3	3	3	5	2	2	3	3	6.1	15.9		
6-Jun-07	2	2	2	2	A	2	2	2	2	3	2	2	1	2	2	2	2	2	5	12	6	5	4	2.9	12.0		
7-Jun-07	6	6	5	6	A	7	6	29	73	21	3	2	7	9	6	3	2	2	2	6	3	3	2	4	9.2	72.9	
8-Jun-07	4	2	2	3	A	6	7	5	31	156	87	2	1	1	2	2	2	2	2	10	3	2	2	14.6	156.3		
9-Jun-07	5	3	2	3	A	7	4	2	3	3	2	2	2	2	2	1	2	2	2	4	4	3	2	2.7	7.0		
10-Jun-07	3	3	5	4	A	13	4	5	4	3	2	2	1	1	1	1	1	1	2	3	2	1	3	2.8	13.0		
11-Jun-07	3	5	5	3	A	5	6	2	2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	5.9		
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	2	2	2	1	2	2	4	4	3	3	N	4.1
13-Jun-07	7	2	2	3	3	4	6	A	27	2	33	3	2	1	1	2	2	2	3	5	5	7	5	5	5.7	33.3	
14-Jun-07	5	6	5	6	6	6	7	A	3	4	2	2	2	3	5	3	9	9	5	4	6	3	6	4	4.8	9.0	
15-Jun-07	5	4	3	9	A	6	4	5	5	17	4	2	4	2	2	3	2	3	2	3	2	4	6	7	4.5	17.1	
16-Jun-07	4	4	6	8	A	5	3	3	2	2	2	2	1	1	1	1	1	3	3	3	3	6	5	6	3.2	8.0	
17-Jun-07	7	4	7	4	A	4	4	5	3	3	2	1	4	2	3	1	2	1	1	2	3	3	2	4	3.1	7.0	
18-Jun-07	8	9	17	7	A	4	5	4	2	28	1	1	3	2	2	1	1	1	2	2	2	3	2	2	4.7	28.0	
19-Jun-07	3	2	3	8	A	12	6	2	2	3	9	1	2	1	2	2	2	2	2	3	2	3	5	3	3.4	11.9	
20-Jun-07	2	4	5	8	A	10	8	7	22	5	3	7	6	4	3	2	2	3	2	3	5	7	4	3	5.4	22.0	
21-Jun-07	2	6	5	5	A	6	8	6	3	2	1	1	1	1	2	1	1	1	2	2	2	6	2	2	2.9	8.0	
22-Jun-07	4	4	5	7	A	5	7	6	3	3	2	1	2	3	3	2	1	1	1	2	4	5	4	4	3.4	7.0	
23-Jun-07	3	5	4	5	A	6	5	5	3	3	1	1	1	2	1	1	2	1	1	2	2	3	4	3	2.8	5.8	
24-Jun-07	6	5	4	7	A	7	7	4	3	2	1	1	1	1	1	2	3	2	6	3	4	7	5	5	3.7	7.1	
25-Jun-07	4	5	7	6	A	5	6	5	3	2	4	1	2	2	1	1	2	2	2	2	2	4	3	2	3.2	7.0	
26-Jun-07	5	4	4	4	A	5	4	4	13	C	C	C	C	4	1	1	1	1	1	3	4	3	4	3	3.5	12.6	
27-Jun-07	3	2	2	3	A	10	10	7	5	4	4	3	4	7	1	2	5	4	3	4	4	6	11	10	5.0	11.0	
28-Jun-07	7	10	7	7	A	4	5	4	6	4	3	3	3	3	3	3	3	4	3	3	3	5	5	4	4.4	9.9	
29-Jun-07	2	5	6	8	A	4	6	5	3	4	3	2	3	3	4	6	6	3	3	3	4	3	1	3	3.9	7.6	
30-Jun-07	3	3	7	3	A	5	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.9	6.6	
Hourly Avg	4.6	4.9	5.1	5.3	N	6.4	6.1	5.6	9.1	11.3	7.5	2.2	2.4	2.4	2.2	1.9	2.4	2.2	2.4	3.1	3.8	4.2	3.9	4.0			
Hourly Max	15.3	15.9	17.0	8.9	6.0	15.5	13.5	29.0	72.9	156.3	87.2	6.9	7.2	8.6	5.7	6.0	8.6	9.0	6.0	7.0	12.0	7.9	11.0	9.9			

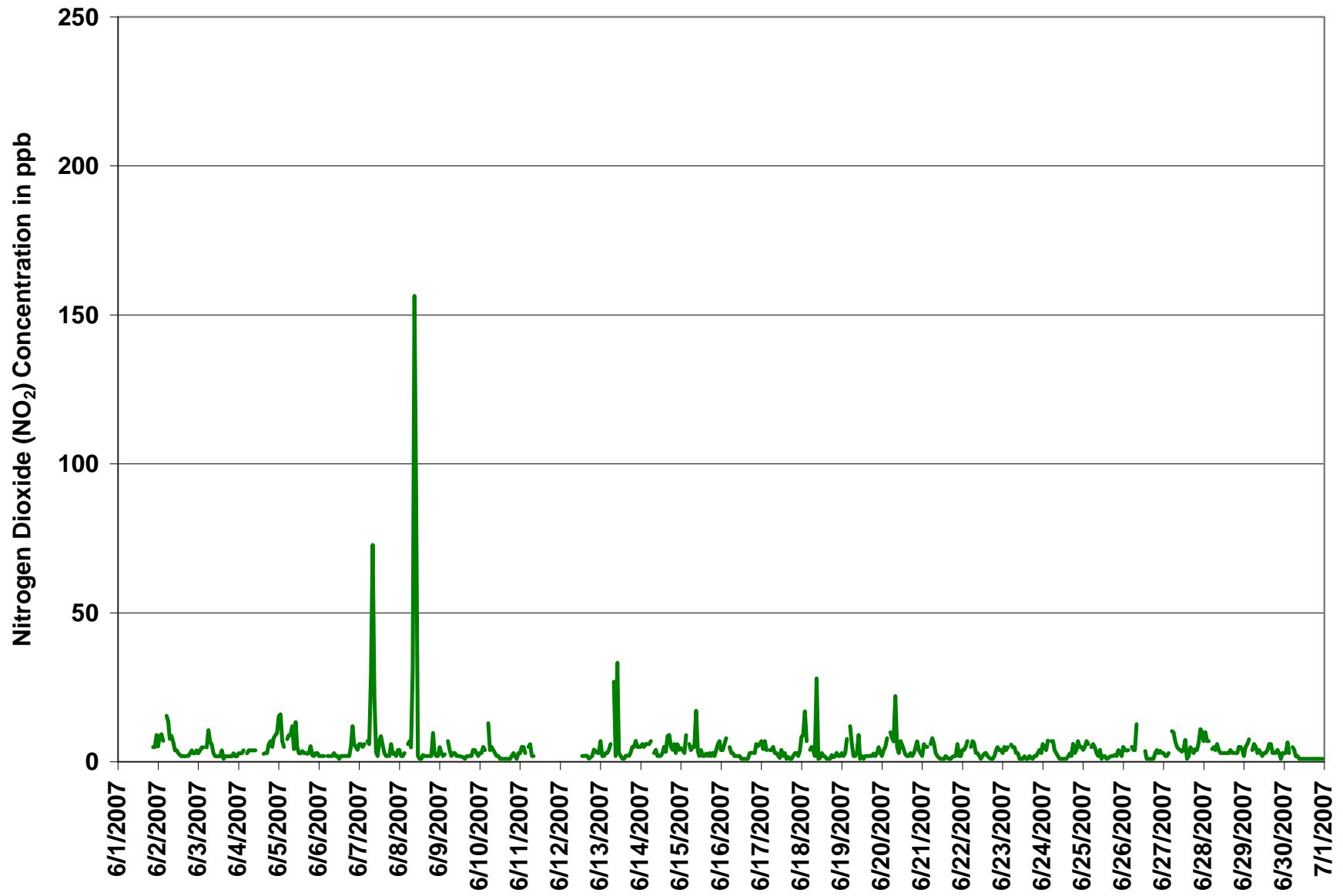
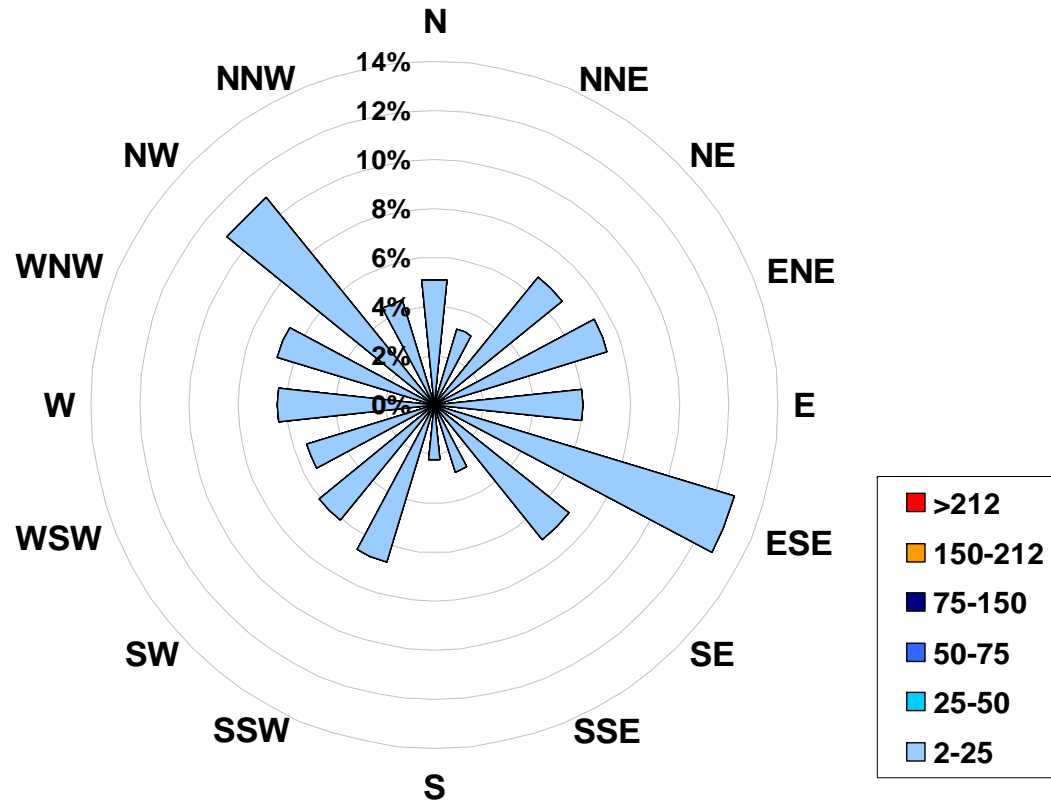


Figure 37. PASZA - Beaverlodge Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of NO <sub>2</sub> in ppb			
Range		Frequency (hrs)	
2.0	< 25	635	
25	to 50	0	
50	to 75	0	
75	to 150	0	
150	to 212	0	
	> 212	0	
Total Non-Zero Values		635	

# PASZA - Beaverlodge - Nitric Oxide Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

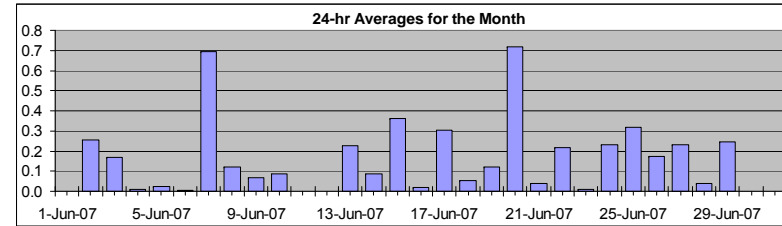
## Nitric Oxide (NO)

Monitoring Dates: June 1, 2007 to July 1, 2007

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

Maximum 1-hr Average:	3.9	ppb	7-Jun	8:00 9:00
Maximum 24-hr Average:	0.7	ppb	20-Jun	

AIC Time:	30 hrs	Operational Time:	635 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	93.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.2 ppb	0.0 ppb



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jun-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	C	A	0	0	0	N	0.0
2-Jun-07	0	0	0	0	A	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.1
3-Jun-07	0	0	0	0	A	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.2
4-Jun-07	0	0	0	0	A	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0.0	0.1
5-Jun-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	0.2
6-Jun-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
7-Jun-07	0	0	0	0	A	1	2	3	4	3	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0.7	3.9
8-Jun-07	0	0	0	0	A	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.3
9-Jun-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	0.9
10-Jun-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
11-Jun-07	0	0	0	0	A	1	2	0	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	1.6
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	N	0.1
13-Jun-07	0	0	0	0	0	0	2	A	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.4
14-Jun-07	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
15-Jun-07	0	0	0	0	A	1	1	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.4
16-Jun-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
17-Jun-07	0	0	0	0	A	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.3
18-Jun-07	0	0	0	0	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7
19-Jun-07	0	0	0	0	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.2
20-Jun-07	0	0	0	0	A	3	4	1	2	2	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0.7	3.9
21-Jun-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	0.4
22-Jun-07	0	0	0	0	A	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.8
23-Jun-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	0.2
24-Jun-07	0	0	0	0	A	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.1
25-Jun-07	0	0	0	0	A	1	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.9
26-Jun-07	0	0	0	0	A	1	1	1	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0
27-Jun-07	0	0	0	0	A	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1
28-Jun-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	0	0.0	0.5
29-Jun-07	0	0	0	0	A	0	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.8
30-Jun-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
Hourly Avg	0.0	0.0	0.0	0.0	N	0.4	1.0	0.9	0.9	0.4	0.2	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		
Hourly Max	0.1	0.0	0.1	0.2	0.0	2.7	3.9	2.9	3.9	2.5	0.9	1.7	1.1	0.9	0.6	0.1	0.1	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0		

# PASZA - Beaverlodge - Oxides of Nitrogen Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

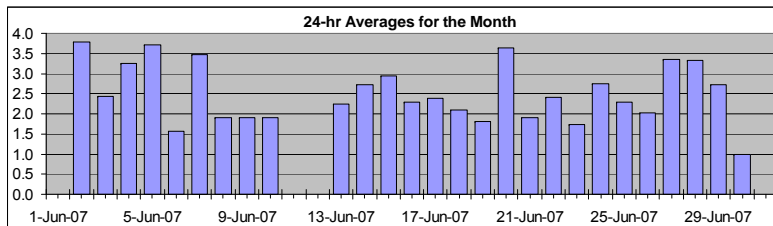
### Oxides of Nitrogen (NO<sub>x</sub>)

Monitoring Dates: June 1, 2007 to July 1, 2007

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

Maximum 1-hr Average:	10.2	ppb	20-Jun	6:00 7:00
Maximum 24-hr Average:	3.8	ppb	2-Jun	

AIC Time:	30 hrs	Operational Time:	635 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	93.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	8.6	6.0	3.3	2.0	1.1	0.8	0.6	2.5 ppb	2.0 ppb



#### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jun-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	C	A	2	2	2	N	2.3
2-Jun-07	3	4	5	4	A	9	10	8	9	5	3	3	2	2	2	2	2	1	2	2	2	2	3	3	3	3.8	9.9
3-Jun-07	2	3	4	4	A	4	9	6	5	2	2	2	2	1	1	1	1	1	1	1	2	1	1	1	2.4	9.4	
4-Jun-07	2	2	3	3	A	3	3	4	4	3	2	C	C	C	C	A	2	2	3	4	4	4	5	5	3.3	5.2	
5-Jun-07	9	9	5	4	A	5	5	6	6	3	6	3	2	2	3	2	2	2	2	3	2	2	2	2	3.7	8.6	
6-Jun-07	2	2	1	1	A	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	4	3	3	3	1.6	3.9
7-Jun-07	4	5	5	5	A	7	7	6	10	6	3	1	2	3	2	2	1	1	1	3	1	1	1	1	3.5	10.1	
8-Jun-07	2	1	1	1	A	3	4	3	3	4	4	1	1	1	1	1	1	1	1	2	3	1	1	2	1.9	4.4	
9-Jun-07	3	2	2	2	A	4	3	2	3	3	2	2	1	1	1	1	1	1	1	1	2	2	2	2	2	1.9	4.0
10-Jun-07	2	2	3	3	A	3	3	4	4	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1.9	4.4	
11-Jun-07	2	2	4	3	A	4	5	2	2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	4.8	
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1	1	1	1	1	1	1	2	2	1	N	1.8	
13-Jun-07	2	1	2	2	2	3	6	A	5	2	3	1	1	1	1	1	1	1	1	2	2	3	4	3	2.2	6.1	
14-Jun-07	3	3	3	4	3	3	5	A	3	2	1	2	2	2	3	2	2	4	3	3	4	2	2	2	2.7	4.6	
15-Jun-07	3	3	2	6	A	4	4	6	4	5	2	2	2	1	2	1	1	2	2	2	2	4	5	2.9	6.2		
16-Jun-07	3	3	3	3	A	3	3	3	2	2	2	1	1	1	1	1	1	2	2	2	2	4	4	4	2.3	3.9	
17-Jun-07	5	2	3	4	A	5	5	5	4	3	2	1	2	2	1	1	1	1	1	1	2	2	2	2	2.4	5.4	
18-Jun-07	4	5	6	4	A	4	4	3	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2.1	6.5	
19-Jun-07	1	1	1	4	A	7	5	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1.8	7.2	
20-Jun-07	1	2	3	3	A	7	10	6	8	5	3	5	4	3	2	2	1	2	2	2	3	4	3	2	3.7	10.2	
21-Jun-07	2	3	4	4	A	4	5	3	2	1	1	1	1	1	1	1	1	1	1	1	1	3	1	2	1.9	4.8	
22-Jun-07	2	3	3	5	A	4	6	5	3	2	1	1	1	2	1	1	1	1	1	1	2	2	3	3	2.4	6.3	
23-Jun-07	2	3	3	2	A	4	4	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	3	2	1.7	4.3	
24-Jun-07	4	3	3	3	A	6	7	4	3	1	1	1	1	1	1	1	2	2	4	2	3	4	4	4	2.7	6.9	
25-Jun-07	4	3	5	4	A	4	7	7	3	2	1	1	1	1	1	1	1	1	1	1	2	2	1	2.3	6.8		
26-Jun-07	2	2	2	3	A	4	4	3	2	C	C	C	C	1	1	1	1	1	1	1	2	2	2	2	2.0	4.4	
27-Jun-07	2	2	2	2	A	7	8	6	4	5	4	3	2	2	1	1	1	2	2	2	3	4	6	6	3.3	8.1	
28-Jun-07	5	5	6	6	A	4	3	3	4	3	3	3	3	3	3	3	3	2	3	3	2	3	4	2	3.3	5.7	
29-Jun-07	2	3	5	4	A	3	5	5	3	3	2	1	2	3	2	3	3	3	2	2	3	1	1	1	2.7	5.2	
30-Jun-07	2	2	3	1	A	3	2	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0	0	1	1.0	2.9	
Hourly Avg	2.8	2.9	3.3	3.3	N	4.3	5.2	4.1	3.7	2.8	2.2	1.6	1.5	1.4	1.3	1.3	1.3	1.5	1.5	1.8	2.1	2.3	2.4	2.4			
Hourly Max	8.5	8.6	6.5	6.2	3.1	9.4	10.2	7.7	10.1	6.3	6.2	5.2	4.0	2.9	3.0	2.9	3.3	4.5	3.8	4.1	3.9	4.5	6.2	6.0			

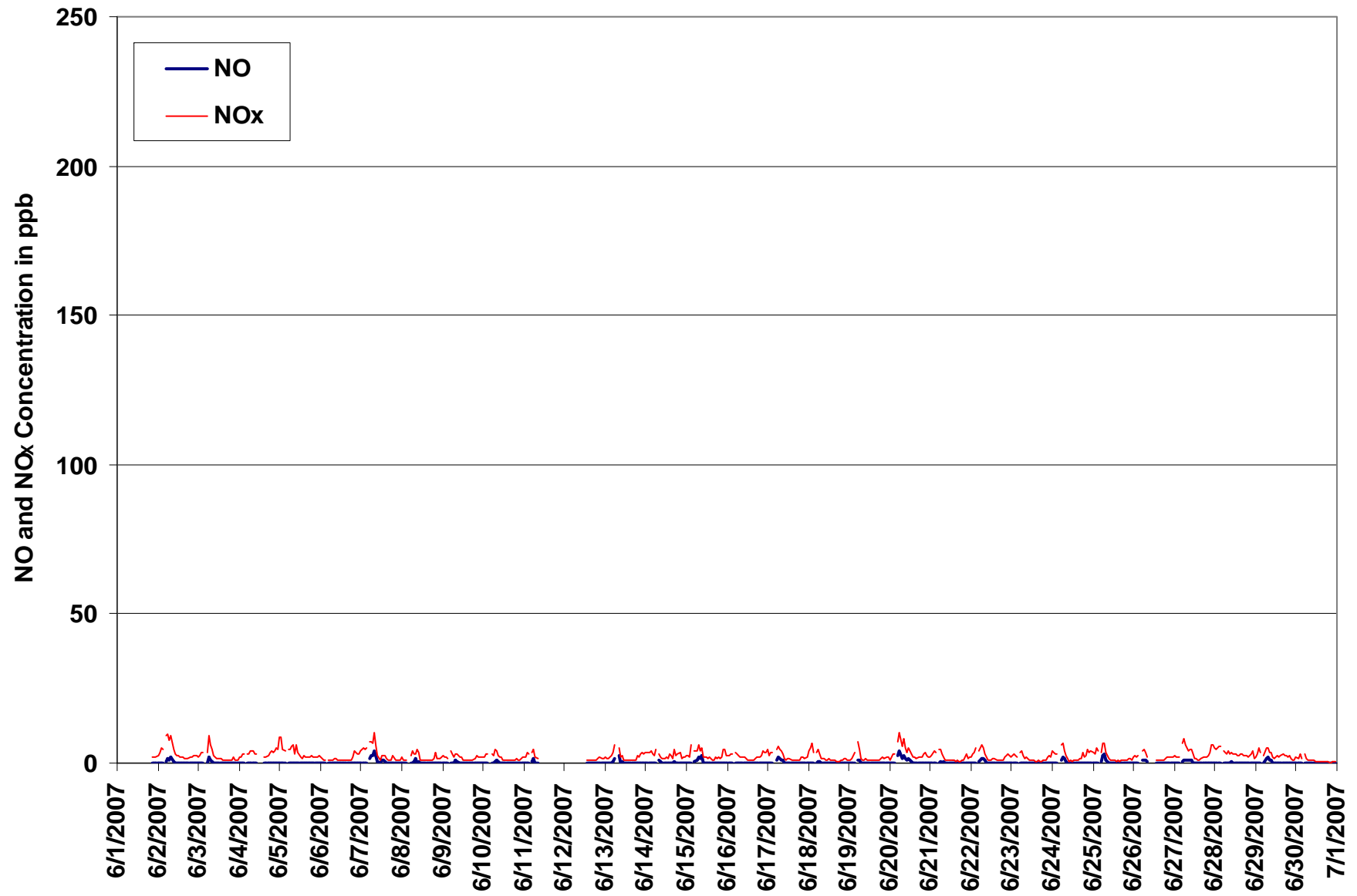


Figure 38. PASZA - Beaverlodge Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

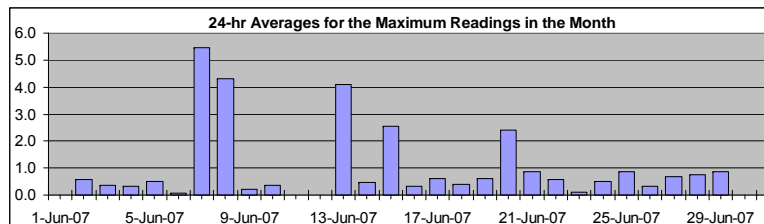
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Nitric Oxide (NO)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	73.9	ppb	13-Jun	8:00 9:00
Maximum 24-hr Value:	5.5	ppb	7-Jun	



AIC Time:	30 hrs	Operational Time:	635 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	93.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	18.2	3.2	0.9	0.0	0.0	0.0	0.0	1.1 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**

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-Jun-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	C	A	0	0	0	N	0.0
2-Jun-07	0	0	0	0	A	3	4	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	3.9
3-Jun-07	0	0	0	0	A	0	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	4.9
4-Jun-07	0	0	0	0	A	0	0	1	1	0	4	C	C	C	A	0	0	0	0	0	0	0	0	0	0.3	3.9
5-Jun-07	1	1	0	0	A	0	1	1	1	0	1	1	0	0	1	0	1	0	0	3	0	0	0	0	0.5	2.9
6-Jun-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.1	1.0
7-Jun-07	0	0	0	0	A	2	4	16	43	19	1	0	23	10	7	0	0	0	0	1	0	0	0	0	5.5	42.7
8-Jun-07	0	0	0	0	A	1	1	4	64	1	27	0	0	0	0	0	0	0	0	0	0	0	0	0	4.3	64.1
9-Jun-07	0	0	0	0	A	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.0
10-Jun-07	0	0	0	0	A	3	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.9
11-Jun-07	0	0	0	0	A	2	5	1	1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	4.9
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	1	0	0	0	0	0	0	1	0	0	0	N	1.0
13-Jun-07	1	0	0	0	0	2	3	A	74	1	11	0	1	0	0	0	0	0	0	0	0	0	0	0	4.1	73.9
14-Jun-07	0	0	0	0	0	0	0	A	2	1	2	0	0	0	1	0	1	1	1	0	0	0	0	0	0.5	1.9
15-Jun-07	0	1	1	1	A	2	1	3	3	40	2	1	1	0	0	1	0	0	0	0	0	0	0	0	2.6	40.2
16-Jun-07	0	0	1	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	1.2
17-Jun-07	1	0	0	1	A	2	3	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	3.9
18-Jun-07	0	0	0	0	A	0	2	1	1	2	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0.4	2.1
19-Jun-07	0	0	0	0	A	3	3	1	1	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	3.9
20-Jun-07	0	0	0	0	A	17	8	2	14	3	1	5	3	2	1	0	0	0	0	0	0	0	0	0	2.4	17.0
21-Jun-07	0	0	0	0	A	0	15	1	1	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0.9	14.6
22-Jun-07	0	0	0	0	A	1	3	5	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.6	4.9
23-Jun-07	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.1	1.0
24-Jun-07	0	0	0	0	A	2	3	2	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.5	3.0
25-Jun-07	0	1	0	0	A	2	4	4	2	1	3	2	0	1	1	0	0	0	0	0	0	0	0	0	0.9	4.0
26-Jun-07	0	0	0	0	A	1	2	2	1	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.3	2.0
27-Jun-07	0	0	0	0	A	2	2	2	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0	1	0.7	2.2
28-Jun-07	0	1	1	1	A	1	1	1	1	1	1	4	0	0	1	0	1	0	0	0	0	0	0	0	0.7	4.0
29-Jun-07	0	0	0	0	A	2	6	5	1	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0.9	5.9
30-Jun-07	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
Hourly Avg	0.2	0.1	0.1	0.1	N	1.7	2.8	2.4	8.0	3.2	2.4	0.6	1.3	0.5	0.5	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1		
Hourly Max	1.0	1.0	1.2	1.0	0.1	17.0	14.6	16.3	73.9	40.2	27.3	5.1	23.2	9.5	6.7	1.0	1.0	1.0	1.0	2.9	1.0	0.4	0.3	1.0		



Station: Beaverlodge  
 Station Owner: PASZA

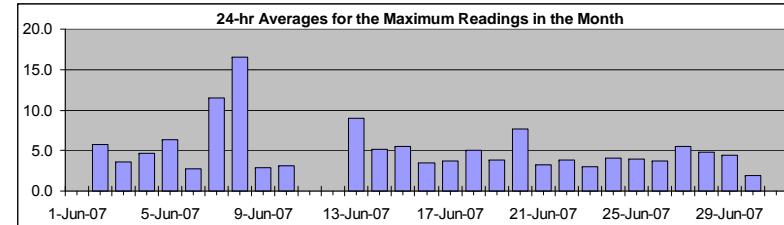
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Oxides of Nitrogen (NO<sub>x</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	155.7	ppb	8-Jun	9:00 10:00
Maximum 24-hr Value:	16.6	ppb	8-Jun	



AIC Time:	30 hrs	Operational Time:	635 hrs						
Calibration Time:	9 hrs	AMD Operational Uptime:	93.6%						
Percentile	99	95	75	50	25	5	1	Average	Median
	39.8	11.1	5.0	3.0	2.0	1.0	0.9	5.1 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-Jun-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C	C	A	2	3	8	N	7.6
2-Jun-07	4	8	9	7	A	18	18	10	12	8	4	4	3	2	2	2	2	2	2	2	4	3	3	4	5.7	17.7
3-Jun-07	3	4	5	5	A	5	15	8	7	3	2	2	2	4	1	1	2	2	2	2	3	2	2	2	3.6	14.7
4-Jun-07	3	3	3	3	A	3	4	5	5	4	4	C	C	C	A	2	3	3	6	7	5	7	9	10	4.6	9.7
5-Jun-07	16	17	7	5	A	8	9	10	13	4	15	5	3	3	4	3	3	3	3	6	2	2	3	3	6.4	17.0
6-Jun-07	2	2	2	2	A	1	2	2	2	3	2	2	1	2	1	1	1	1	2	5	13	6	5	4	2.7	13.0
7-Jun-07	6	6	5	6	A	8	10	45	77	27	5	2	12	17	10	3	2	2	2	7	3	3	2	4	11.5	76.9
8-Jun-07	4	2	2	2	A	7	8	6	46	156	114	2	2	1	2	2	2	2	2	2	10	3	2	2	16.6	155.7
9-Jun-07	5	3	2	3	A	7	5	3	4	4	3	2	2	2	2	1	2	2	2	2	4	4	2	2	2.9	7.0
10-Jun-07	2	3	5	4	A	15	5	5	6	3	2	3	1	1	1	1	1	1	1	2	3	2	1	3	3.1	15.3
11-Jun-07	2	5	5	3	A	6	11	2	3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	10.9
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	3	2	2	2	1	2	3	4	4	3	3	N	4.4
13-Jun-07	8	2	2	3	3	6	9	A	83	3	42	3	3	1	1	2	2	3	3	5	5	7	5	5	8.9	82.8
14-Jun-07	5	6	5	6	6	6	8	A	5	5	2	2	2	3	6	4	10	10	6	5	6	3	6	4	5.2	10.0
15-Jun-07	5	4	3	9	A	8	5	9	8	29	6	2	5	2	2	3	2	3	2	3	2	4	6	7	5.6	29.0
16-Jun-07	4	4	6	8	A	5	4	4	3	3	2	2	1	1	2	1	1	3	3	3	3	6	5	6	3.5	8.0
17-Jun-07	7	4	7	5	A	6	7	9	4	4	3	2	5	3	3	1	2	1	1	2	3	3	2	4	3.8	8.5
18-Jun-07	8	9	17	7	A	4	7	5	3	30	1	1	3	2	2	1	2	1	3	2	2	3	2	2	5.1	30.0
19-Jun-07	3	2	3	8	A	15	8	3	3	5	10	1	2	2	2	2	2	2	2	3	2	3	5	3	3.9	15.0
20-Jun-07	2	4	5	8	A	27	16	9	36	8	4	11	8	5	3	2	2	3	3	3	5	7	4	3	7.7	35.7
21-Jun-07	2	6	5	5	A	6	8	7	4	2	2	1	2	2	3	2	1	1	2	3	2	6	2	2	3.2	7.9
22-Jun-07	3	4	5	7	A	6	10	11	4	4	2	1	2	3	4	2	2	1	1	2	4	5	4	4	3.9	10.5
23-Jun-07	3	5	4	5	A	6	5	5	4	4	2	1	1	2	2	1	2	2	2	2	2	3	4	3	3.0	5.9
24-Jun-07	5	5	4	8	A	9	9	6	4	2	1	1	1	1	1	2	3	3	7	3	4	7	5	5	4.1	8.9
25-Jun-07	4	6	7	6	A	8	9	8	5	2	7	1	2	2	1	2	2	2	3	3	2	4	3	2	3.9	8.9
26-Jun-07	5	4	4	4	A	6	6	5	14	C	C	C	C	4	1	1	1	1	1	3	4	3	3	3	3.8	13.5
27-Jun-07	3	2	2	3	A	12	12	9	6	5	5	4	4	9	1	2	5	4	3	5	4	6	12	10	5.5	12.0
28-Jun-07	7	10	7	7	A	5	6	4	7	4	4	6	4	3	4	3	4	3	3	3	3	5	5	4	4.8	10.0
29-Jun-07	2	5	6	7	A	6	11	10	4	5	3	2	3	3	4	6	7	3	3	3	4	3	1	3	4.5	10.9
30-Jun-07	3	3	7	3	A	5	4	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.9	6.6
Hourly Avg	4.4	4.9	5.1	5.3	N	8.0	8.2	7.7	13.2	12.6	9.5	2.5	2.9	3.0	2.6	1.9	2.4	2.3	2.6	3.2	3.8	4.1	3.8	4.0		
Hourly Max	16.0	17.0	17.0	8.9	6.0	27.0	17.7	45.0	82.8	155.7	114.3	11.3	12.4	17.2	10.4	6.0	9.5	10.0	7.0	7.0	13.0	7.2	12.0	10.0		

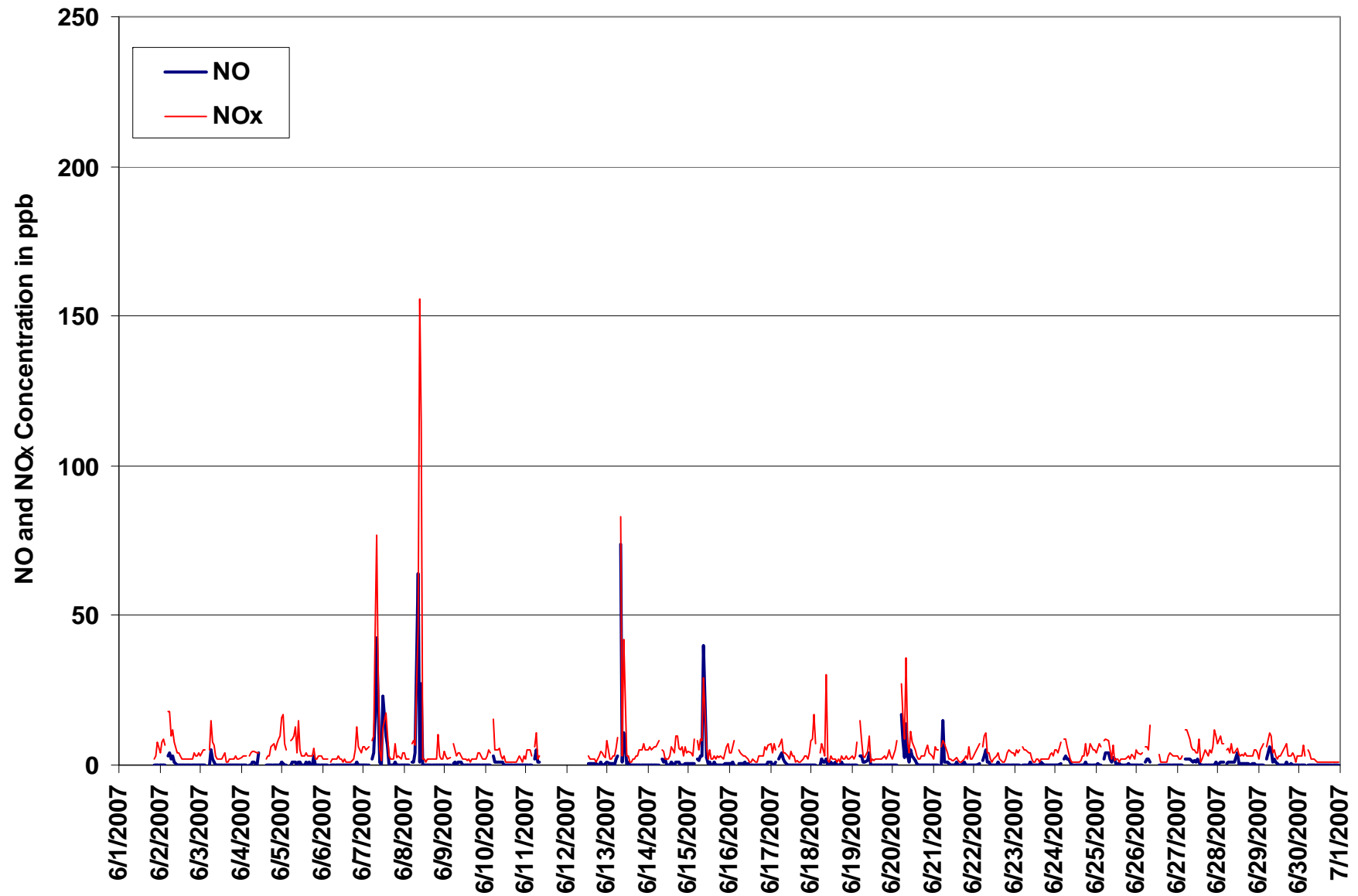


Figure 39. PASZA - Beaverlodge Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

## PASZA - Beaverlodge - Ozone Monthly Summary

Station: Beaverlodge  
Station Owner: PASZA

### HOURLY AVERAGE TABLE

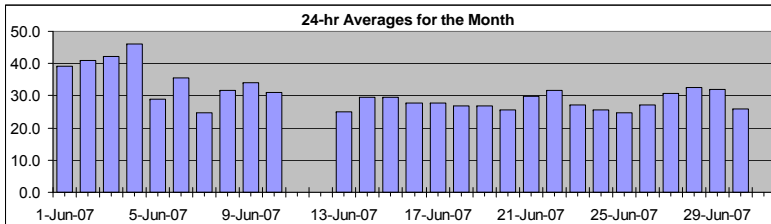
Ozone (O<sub>3</sub>)

Monitoring Dates: June 1, 2007 to July 1, 2007

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

Number of 1-hr Exceedances:		0			
Maximum 1-hr Average:	61.5 ppb	4-Jun	15:00 16:00		
Maximum 24-hr Average:	46.0 ppb	4-Jun			

AIC Time:	30 hrs		Operational Time:	656 hrs					
Calibration Time:	6 hrs		AMD Operational Uptime:	96.1%					
Percentile	99	95	75	50	25	5	1	Average	Median
	57.5	48.1	35.9	29.9	25.0	16.4	11.5	30.5 ppb	29.9 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-Jun-07	31	29	21	27	A	13	14	26	31	38	45	49	50	51	56	58	54	53	49	44	42	40	40	42	39.2	57.5	
2-Jun-07	39	32	28	29	A	18	15	20	28	41	49	54	55	54	54	55	55	55	51	45	40	43	42	42	40.9	55.2	
3-Jun-07	43	39	36	35	A	29	19	27	40	51	50	50	50	49	48	48	48	48	47	46	43	41	40	39	42.0	51.1	
4-Jun-07	36	36	35	35	A	34	34	34	40	45	51	56	58	59	61	62	59	61	57	44	44	43	38	36	46.0	61.5	
5-Jun-07	28	25	30	32	A	27	25	21	22	24	20	24	C	C	C	C	A	28	30	32	40	40	39	32	28.9	40.5	
6-Jun-07	29	28	28	30	A	36	36	35	31	32	34	38	41	41	42	43	44	44	44	41	32	29	29	32	35.6	44.3	
7-Jun-07	27	21	19	15	A	11	11	12	17	23	33	39	38	35	34	31	28	26	24	24	27	23	22	23	24.6	39.4	
8-Jun-07	24	26	26	28	A	26	26	28	31	30	30	30	33	34	36	36	36	37	36	35	32	38	37	34	31.7	38.2	
9-Jun-07	31	32	32	31	A	26	25	27	28	31	36	40	40	40	40	39	39	37	35	31	33	36	36	36	34.0	40.5	
10-Jun-07	34	32	30	27	A	21	17	20	23	28	32	34	37	36	36	36	37	37	37	36	34	33	32	29	31.2	37.5	
11-Jun-07	26	26	16	19	A	14	14	22	26	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	26.0	
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	26	27	28	27	27	27	27	27	24	24	24	N	27.8
13-Jun-07	20	22	18	17	17	15	17	A	24	27	28	30	30	30	30	33	32	33	32	29	26	24	22	22	25.1	32.7	
14-Jun-07	20	19	19	18	18	20	16	A	22	25	30	31	34	39	39	39	41	34	39	36	32	36	37	34	29.4	41.2	
15-Jun-07	32	21	24	10	A	14	17	16	22	29	35	36	40	40	39	40	40	38	37	36	35	33	25	25	29.6	39.9	
16-Jun-07	27	26	24	26	A	24	22	22	25	28	31	32	32	34	33	34	34	31	28	29	28	25	22	23	27.8	34.4	
17-Jun-07	19	23	17	12	A	9	10	16	17	25	34	36	35	36	39	38	37	37	35	36	31	29	32	31	27.6	38.6	
18-Jun-07	25	21	19	19	A	19	19	28	33	34	35	35	31	30	25	27	27	28	30	31	29	25	25	24	26.9	35.5	
19-Jun-07	25	24	23	21	A	13	15	22	26	27	28	29	30	30	30	30	31	32	35	30	28	29	28	28	26.8	34.6	
20-Jun-07	27	25	22	20	A	15	7	15	15	17	24	23	28	32	35	37	37	36	33	33	28	26	26	26	25.6	37.5	
21-Jun-07	28	24	21	19	A	17	17	21	24	27	29	34	36	36	36	37	38	38	37	35	34	31	32	32	29.7	38.0	
22-Jun-07	30	28	26	17	A	21	19	23	27	28	32	34	34	34	41	43	41	40	41	40	33	33	29	29	31.5	43.4	
23-Jun-07	28	28	29	26	A	24	22	26	30	27	28	28	28	29	29	29	30	30	31	28	26	24	22	24	27.2	30.9	
24-Jun-07	20	19	19	18	A	14	16	19	23	25	29	31	31	32	32	32	31	31	28	30	29	24	28	27	25.7	32.5	
25-Jun-07	27	21	14	14	A	15	11	13	19	25	28	30	31	31	30	30	30	30	29	32	28	26	26	26	24.6	31.6	
26-Jun-07	25	23	22	16	A	13	17	19	24	29	31	30	C	C	32	32	33	33	34	33	30	31	30	30	27.0	33.7	
27-Jun-07	31	31	28	26	A	17	16	22	25	28	31	37	38	40	39	41	41	38	37	36	34	29	21	21	30.7	40.8	
28-Jun-07	22	26	16	17	A	25	28	34	31	31	31	35	37	42	43	44	41	40	39	33	35	35	30	33	32.5	43.9	
29-Jun-07	29	27	20	22	A	21	16	18	26	29	36	40	45	46	40	42	38	32	33	33	35	36	36	33	31.8	45.9	
30-Jun-07	30	28	25	29	A	18	19	23	26	26	26	27	27	26	26	26	26	26	26	27	28	27	27	26	25.8	29.6	
Hourly Avg	28.0	26.2	23.7	22.6	N	19.6	18.5	22.6	26.0	29.6	33.1	35.4	37.3	37.5	37.6	38.3	37.7	36.5	35.9	34.2	32.5	31.6	30.2	29.7			
Hourly Max	42.8	39.2	35.9	35.1	18.0	35.7	35.8	35.3	40.0	51.1	51.4	55.8	57.8	58.8	61.3	61.5	59.2	60.6	57.5	45.5	44.1	43.4	41.8	41.7			

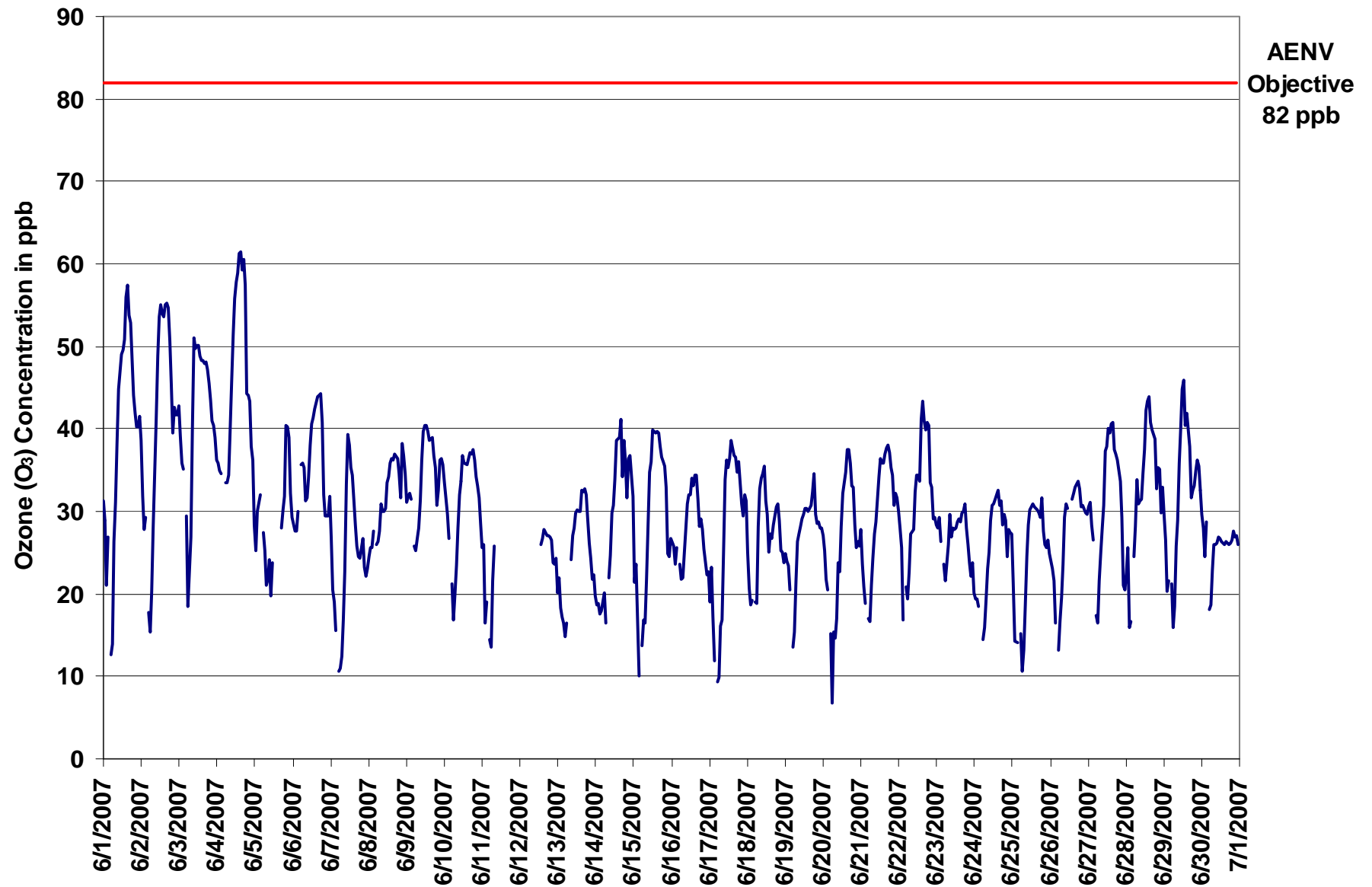


Figure 40. PASZA - Beaverlodge Ozone 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

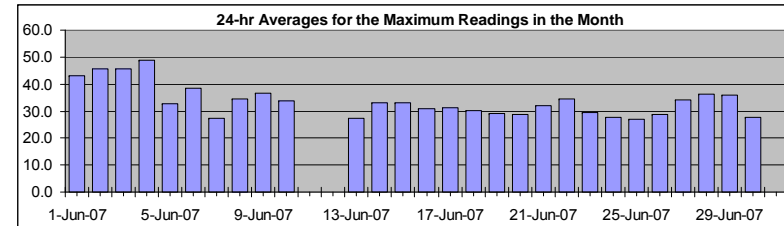
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Ozone (O<sub>3</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	65.4	ppb	4-Jun	18:00 19:00
Maximum 24-hr Value:	49.0	ppb	4-Jun	



AIC Time:	30 hrs	Operational Time:	656 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	96.1%						
Percentile	99	95	75	50	25	5	1	Average	Median
	59.9	50.3	38.6	32.4	27.6	20.0	15.4	33.5 ppb	32.4 ppb

**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-07	36	33	29	34	A	19	21	30	37	43	49	51	51	53	59	61	57	55	54	47	44	43	43	44	43.2	60.7
2-Jun-07	43	42	37	38	A	27	27	24	37	47	51	57	57	56	56	57	57	56	54	50	43	47	44	45	45.6	56.7
3-Jun-07	45	44	39	39	A	40	36	31	52	53	52	52	51	52	50	51	49	50	49	47	46	42	41	40	45.7	52.9
4-Jun-07	38	37	36	36	A	34	34	38	44	50	55	58	59	62	63	63	62	65	65	47	46	49	42	43	49.0	65.4
5-Jun-07	39	30	33	33	A	31	27	25	26	28	24	27	C	C	C	C	A	29	32	37	46	45	43	35	32.8	45.9
6-Jun-07	31	30	29	34	A	38	37	37	33	33	36	41	42	43	44	45	46	46	46	40	37	35	35	35	38.5	46.5
7-Jun-07	33	22	20	18	A	12	12	14	21	27	41	42	41	38	37	34	31	27	26	27	28	25	23	25	27.2	41.6
8-Jun-07	27	28	27	30	A	28	30	29	33	32	32	33	35	36	38	38	38	40	39	36	39	44	43	39	34.5	44.0
9-Jun-07	39	35	34	37	A	30	28	28	30	34	40	41	42	42	42	41	40	39	38	33	36	39	38	38	36.7	42.5
10-Jun-07	36	33	32	29	A	25	21	23	27	30	35	35	40	37	38	39	39	38	39	39	38	35	33	31	33.6	40.4
11-Jun-07	29	32	21	21	A	17	20	24	29	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	32.4
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	27	28	30	29	28	28	28	28	27	24	26	N	29.9
13-Jun-07	23	26	22	19	18	17	18	A	26	28	30	31	31	31	31	36	34	34	34	32	30	26	24	25	27.3	35.9
14-Jun-07	24	22	21	20	21	22	19	A	24	30	31	33	37	46	43	43	47	40	41	39	35	41	41	36	32.9	46.8
15-Jun-07	36	27	25	23	A	17	18	18	25	35	37	38	42	42	44	41	41	41	39	38	37	36	28	30	32.9	43.5
16-Jun-07	31	30	29	30	A	26	25	24	28	30	33	33	33	36	36	37	36	35	31	31	31	29	27	30	31.0	36.9
17-Jun-07	29	27	23	19	A	15	16	18	20	32	38	38	39	38	40	39	38	38	37	38	36	31	34	34	31.3	39.7
18-Jun-07	33	31	25	26	A	20	22	32	35	36	36	38	35	32	29	30	29	30	32	33	31	27	26	25	30.2	37.7
19-Jun-07	26	26	25	24	A	16	19	24	29	29	30	31	31	32	31	32	33	36	37	33	30	30	31	31	28.9	37.3
20-Jun-07	29	27	25	27	A	21	13	19	16	22	26	26	31	34	36	39	38	39	35	35	32	29	28	29	28.6	38.9
21-Jun-07	30	26	23	21	A	23	21	24	30	29	34	36	38	37	38	39	39	39	39	37	36	34	33	32	32.1	39.3
22-Jun-07	31	29	29	23	A	25	24	28	29	31	35	36	36	37	44	46	45	41	42	42	39	37	32	32	34.4	45.9
23-Jun-07	30	31	31	30	A	25	24	31	32	29	29	30	29	31	31	30	31	31	32	31	27	25	25	25	29.3	32.3
24-Jun-07	22	23	21	22	A	17	17	22	24	27	31	32	32	33	34	34	33	33	32	31	31	28	29	29	27.7	33.9
25-Jun-07	28	26	19	16	A	21	12	16	22	28	30	31	32	32	32	32	32	32	33	34	30	27	27	28	26.9	33.8
26-Jun-07	27	26	25	19	A	14	19	21	27	31	32	34	C	C	33	33	34	35	35	34	32	32	31	30	28.8	34.8
27-Jun-07	32	33	29	28	A	24	21	23	28	31	34	40	41	42	40	43	43	42	42	39	38	33	31	29	34.3	43.3
28-Jun-07	33	32	27	25	A	27	33	36	32	32	33	37	42	45	45	46	44	42	41	37	39	39	34	35	36.4	45.8
29-Jun-07	31	32	22	24	A	27	25	25	29	33	39	43	48	49	44	50	45	35	36	35	39	42	37	35	35.9	50.1
30-Jun-07	33	33	29	31	A	21	21	24	28	27	28	28	28	27	27	27	27	27	27	28	28	28	28	27	27.6	33.2
Hourly Avg	32.0	30.1	27.2	26.7	N	23.5	22.9	25.6	29.5	32.8	35.7	37.5	39.4	39.7	39.7	40.6	39.9	38.7	38.5	36.7	35.7	34.8	33.0	32.5		
Hourly Max	45.3	44.3	38.7	39.2	20.8	39.9	37.3	37.7	51.8	52.9	55.0	57.9	59.3	61.5	62.7	63.5	61.7	65.0	65.4	50.0	46.4	49.5	44.3	44.8		

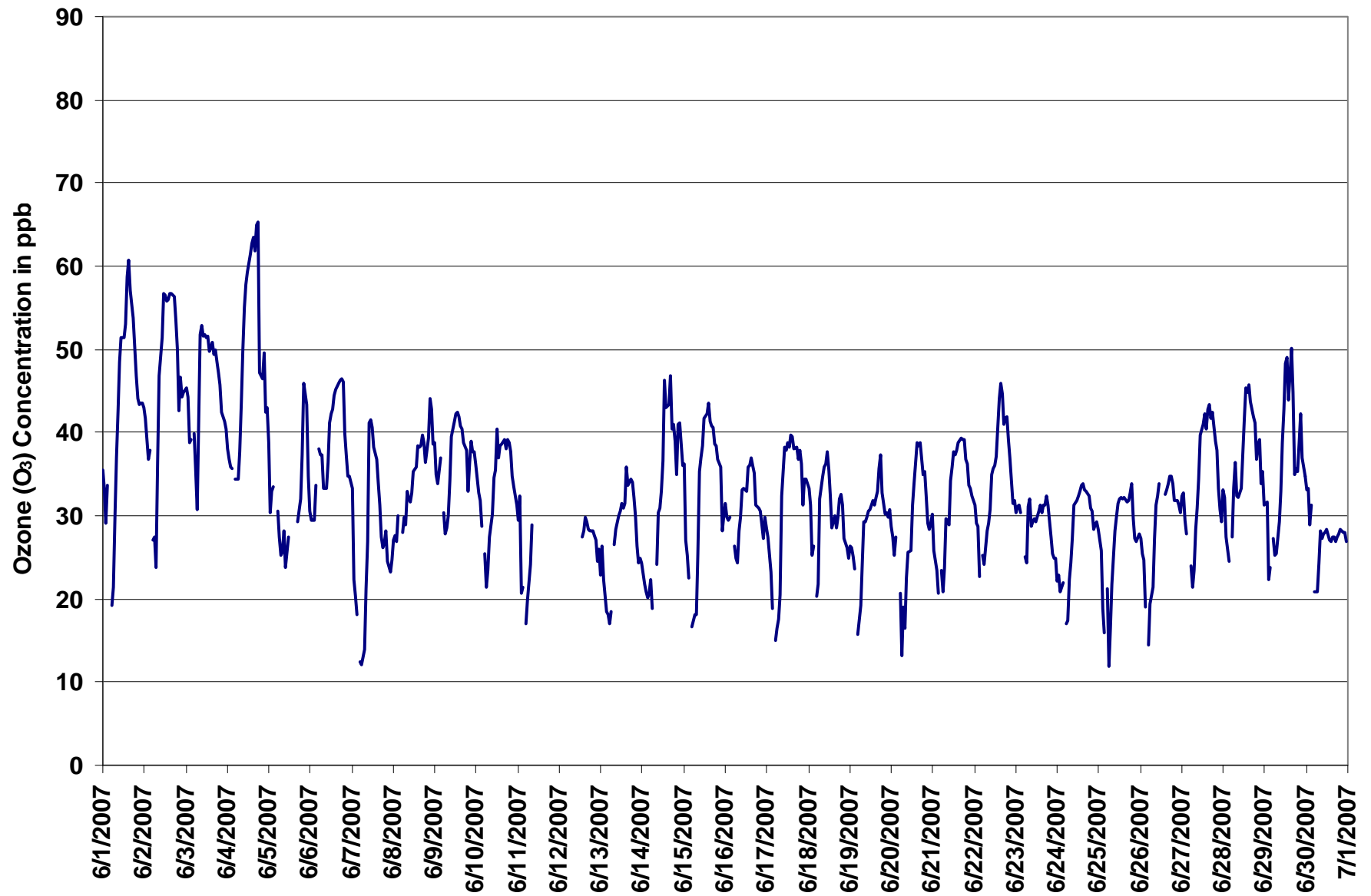
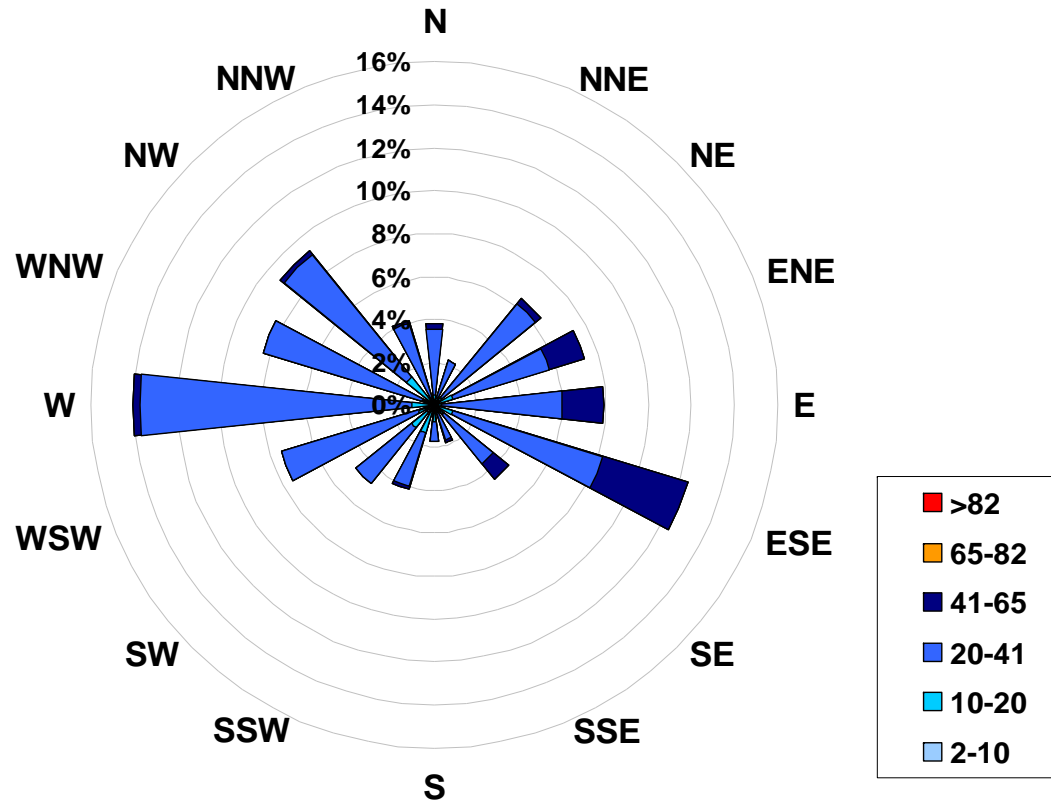


Figure 41. PASZA - Beaverlodge Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of O <sub>3</sub> in ppb			Frequency (hrs)
Range			
2.0	< 10		3
10	to 20		76
20	to 41		509
41	to 65		68
65	to 82		0
	> 82		0
Total Non-Zero Values			656

## PASZA - Beaverlodge - Ozone Eight Hour Average Summary

Station: Beaverlodge  
Station Owner: PASZA

### EIGHT HOUR RUNNING AVERAGE TABLE

Ozone (O<sub>3</sub>)

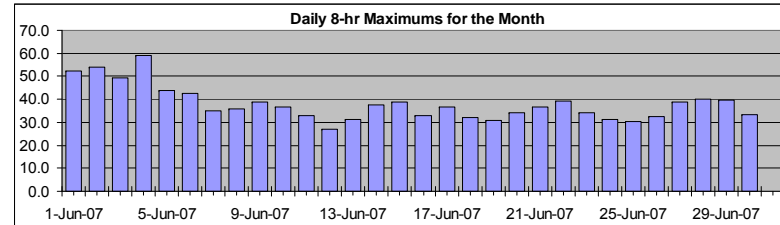
Monitoring Dates: June 1, 2007 to July 1, 2007

Objective Limit: Alberta Environment: 8-hr 65 ppb

**Summary**

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	59.1 ppb      4-Jun    18:00 19:00

Percentile	99	95	75	50	25	5	1
	54.0	46.3	35.0	29.5	24.9	19.2	15.8



**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	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-Jun-07	41	39	36	34	33	29	25	23	23	24	28	31	33	38	43	47	50	52	52	52	51	49	47	45	52.3	
2-Jun-07	43	41	38	36	36	32	29	26	24	26	29	32	35	40	44	49	52	54	54	53	51	50	48	46	54.0	
3-Jun-07	45	43	41	40	40	38	35	33	32	34	36	38	39	42	46	48	49	49	49	48	47	46	45	44	49.3	
4-Jun-07	43	41	40	38	37	36	35	35	35	37	39	42	44	47	51	54	56	58	59	58	56	54	51	48	59.1	
5-Jun-07	44	40	36	35	33	31	29	27	26	26	24	23	23	N	N	N	N	N	N	N	N	N	N	35	44.0	
6-Jun-07	34	34	34	33	32	32	31	32	32	32	33	35	35	36	37	38	39	41	42	43	42	40	38	37	42.6	
7-Jun-07	35	32	29	26	25	22	19	17	15	15	17	21	23	26	29	31	33	33	32	30	29	27	26	25	34.8	
8-Jun-07	24	24	24	25	25	25	26	26	27	28	28	29	29	30	32	33	33	34	35	35	35	36	36	36	35.9	
9-Jun-07	35	34	34	33	34	32	30	29	29	29	29	30	32	33	35	37	38	39	39	38	37	36	36	35	38.8	
10-Jun-07	35	34	33	33	33	31	28	26	24	24	24	25	26	28	31	33	34	36	36	37	36	36	35	34	36.6	
11-Jun-07	33	32	29	27	26	23	21	20	20	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	33.0	
12-Jun-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	27	27	27	26	26	27.0
13-Jun-07	25	24	23	22	21	20	19	18	18	19	21	22	24	27	28	29	30	31	31	31	31	30	29	28	31.2	
14-Jun-07	26	24	23	21	20	20	19	18	19	20	21	23	25	28	31	32	35	36	37	38	37	37	37	36	37.5	
15-Jun-07	35	33	31	28	28	24	22	19	18	19	20	24	26	29	32	35	37	38	39	39	38	37	35	33	38.6	
16-Jun-07	32	30	29	27	26	25	25	24	24	24	25	26	27	28	30	31	32	33	32	32	32	30	29	28	32.8	
17-Jun-07	26	25	23	21	20	18	16	15	15	15	18	21	23	26	30	32	35	36	37	37	36	35	34	33	36.6	
18-Jun-07	32	30	28	26	25	24	22	21	22	24	27	29	29	31	31	31	30	30	29	29	28	28	28	27	32.0	
19-Jun-07	27	27	26	25	24	22	21	20	21	21	22	23	24	26	28	29	29	30	31	31	31	31	30	30	31.0	
20-Jun-07	30	29	27	26	26	24	21	19	17	16	16	16	18	20	24	26	29	32	33	34	34	33	32	31	34.0	
21-Jun-07	29	28	26	25	24	23	22	21	20	21	22	24	26	28	30	32	34	35	37	37	36	36	35	35	36.7	
22-Jun-07	34	32	31	29	28	26	25	23	23	24	26	27	29	32	34	36	38	39	39	39	39	39	38	36	39.4	
23-Jun-07	34	33	31	30	29	28	27	26	26	26	26	26	26	27	28	28	28	29	29	29	29	28	27	27	34.3	
24-Jun-07	26	24	23	22	21	20	19	18	19	19	21	22	24	26	28	29	30	31	31	31	31	30	29	29	31.1	
25-Jun-07	28	27	25	23	22	21	19	17	15	16	18	20	21	23	26	28	29	30	30	30	30	29	29	28	30.4	
26-Jun-07	28	27	26	24	23	22	20	19	19	20	21	23	23	N	N	N	N	N	N	N	32	32	32	32	32.4	
27-Jun-07	31	31	30	30	30	28	26	25	24	23	24	25	27	30	33	35	37	38	39	39	38	37	35	32	38.8	
28-Jun-07	30	28	26	23	22	21	22	24	25	26	28	31	32	34	36	37	38	39	40	40	40	39	37	36	40.1	
29-Jun-07	34	33	30	29	28	26	24	22	21	22	24	27	29	32	35	38	39	40	39	39	37	36	35	34	39.8	
30-Jun-07	33	33	32	31	31	28	26	24	24	24	24	24	24	25	26	26	26	26	26	26	26	26	27	27	33.3	

Hourly Max	44.9	43.0	41.1	39.8	39.9	38.0	35.4	34.7	35.2	36.6	39.0	42.0	44.0	47.1	50.6	54.0	56.4	58.3	59.1	57.6	55.9	54.0	51.1	47.9
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## PASZA – Beaverlodge - Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

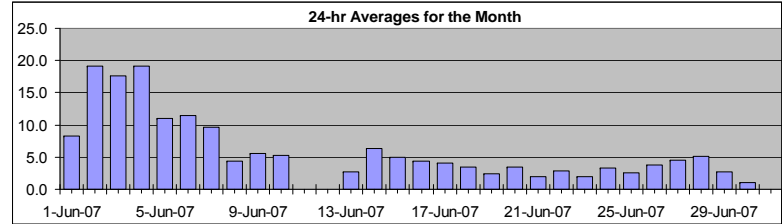
### Particulate Matter (PM<sub>2.5</sub>)

Monitoring Dates: June 1, 2007 to July 1, 2007

Draft Objective Limit: Alberta Environment: 1-hr - µg/m<sup>3</sup> 24-hr 30 µg/m<sup>3</sup>  
 Summary

Number of 24-hr Exceedances (draft):	0
Maximum 1-hr Average:	72.5 µg/m <sup>3</sup> 3-Jun 6:00 7:00
Maximum 24-hr Value:	19.1 µg/m <sup>3</sup> 2-Jun

AIC Time:	0 hrs	Operational Time:	662 hrs
Calibration Time:	6 hrs	AMD Operational Uptime:	92.8%
Percentile	99	95	75
	36.3	18.1	8.3
	50	25	5
	4.1	1.9	0.0
	1	0.0	6.2
	Average / Median		4 µg/m <sup>3</sup>
	Geomean		4.8 µg/m <sup>3</sup>



#### Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S 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-Jun-07	5	6	8	8	8	9	10	1	14	10	7	5	5	5	9	8	6	9	8	13	13	10	11	10	8.4	14.4
2-Jun-07	10	21	12	12	15	18	36	31	25	18	16	17	12	60	39	12	9	10	11	18	28	11	8	11	19.1	60.3
3-Jun-07	11	11	14	12	11	13	73	38	21	9	7	7	11	9	8	27	42	21	15	15	12	15	12	13	17.7	72.5
4-Jun-07	13	14	13	18	36	24	15	17	19	18	18	18	18	15	15	17	23	27	20	9	9	25	41	17	19.1	41.0
5-Jun-07	12	14	12	12	8	7	10	11	8	4	3	7	2	5	5	7	12	12	11	P	16	24	28	23	10.9	28.1
6-Jun-07	15	14	6	0	2	12	13	13	7	1	3	1	6	10	12	12	17	20	17	21	23	18	16	15	11.4	22.8
7-Jun-07	15	15	13	10	12	11	10	11	10	8	2	2	14	21	16	16	12	7	8	10	2	4	2	4	9.6	21.1
8-Jun-07	4	4	2	1	3	2	2	4	1	3	2	1	0	21	6	2	11	6	3	4	6	7	8	2	4.4	21.0
9-Jun-07	9	8	5	3	4	4	5	0	6	0	0	5	2	6	2	1	3	3	15	10	10	15	9	7	5.5	14.9
10-Jun-07	8	10	11	10	8	7	8	7	5	3	0	D	D	4	5	0	D	0	2	2	10	3	2	6	5.2	11.0
11-Jun-07	5	0	2	1	0	2	1	0	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	5.0
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	0	0	0	1	1	2	1	3	4	4	4	N	4.3
13-Jun-07	4	3	3	2	1	3	3	6	2	1	1	0	4	6	0	0	4	1	2	5	4	4	5	5	2.8	6.3
14-Jun-07	6	4	3	4	5	4	6	7	3	2	2	2	0	11	18	14	4	5	13	13	16	1	1	5	6.3	17.8
15-Jun-07	6	5	8	2	7	8	7	7	6	3	6	7	7	7	7	0	2	3	7	3	3	3	4	3	5.0	8.1
16-Jun-07	5	5	5	4	4	2	5	4	2	2	2	5	5	2	5	3	3	12	7	3	5	4	6	4	4.4	12.0
17-Jun-07	5	6	2	2	3	5	5	9	9	3	D	D	9	1	0	1	0	2	5	2	8	4	3	4	4.0	9.1
18-Jun-07	7	8	9	6	5	6	6	4	0	0	0	3	7	3	D	0	0	0	1	2	2	1	3	3	3.4	8.6
19-Jun-07	2	3	1	2	5	7	6	0	0	0	D	0	0	0	0	4	2	3	2	11	5	D	0	0	2.4	10.5
20-Jun-07	5	3	2	2	5	4	6	5	5	6	0	3	D	4	3	0	2	1	3	1	10	4	3	2	3.4	9.5
21-Jun-07	2	2	1	5	5	5	P	2	0	0	D	D	0	D	0	D	0	0	2	1	3	3	3	3	2.0	5.1
22-Jun-07	4	3	3	4	3	2	3	3	2	0	D	0	5	6	0	1	4	0	0	0	6	5	3	9	2.9	9.0
23-Jun-07	3	2	1	3	3	3	4	0	3	1	0	D	D	0	D	D	D	1	0	5	1	1	3	4	2.0	5.0
24-Jun-07	3	3	1	2	0	0	3	2	7	0	D	D	D	1	2	1	9	13	4	3	3	7	4	2	3.4	13.2
25-Jun-07	3	1	5	0	0	5	3	3	4	0	0	0	0	0	0	1	3	7	1	3	9	3	7	6	2.6	9.1
26-Jun-07	4	3	5	2	7	1	3	1	5	C	C	C	C	C	0	0	0	0	3	7	13	6	7	3	3.7	13.1
27-Jun-07	3	3	2	2	4	4	4	7	8	5	9	12	9	5	0	1	6	4	2	3	5	4	4	3	4.5	12.4
28-Jun-07	3	3	5	5	3	4	4	5	0	6	C	6	6	9	8	10	10	10	9	7	0	0	6	0	5.2	9.9
29-Jun-07	1	3	5	4	3	6	5	6	1	3	3	2	2	3	2	0	2	0	2	4	1	1	2	4	2.7	6.4
30-Jun-07	2	2	2	2	3	3	1	0	0	0	0	0	0	0	0	0	0	1	1	0	3	5	2	1	1.1	4.9
Hourly Avg	6.1	6.2	5.6	4.8	5.9	6.2	9.2	7.1	6.0	3.8	N	N	5.3	8.0	5.9	5.1	6.9	6.2	6.1	6.3	7.8	6.8	7.1	6.0		
Hourly Max	15.3	21.1	14.0	18.4	36.2	23.6	72.5	38.2	25.3	17.7	18.1	18.2	17.7	60.3	39.4	26.7	41.7	27.2	19.8	21.1	28.3	24.7	41.0	22.9		

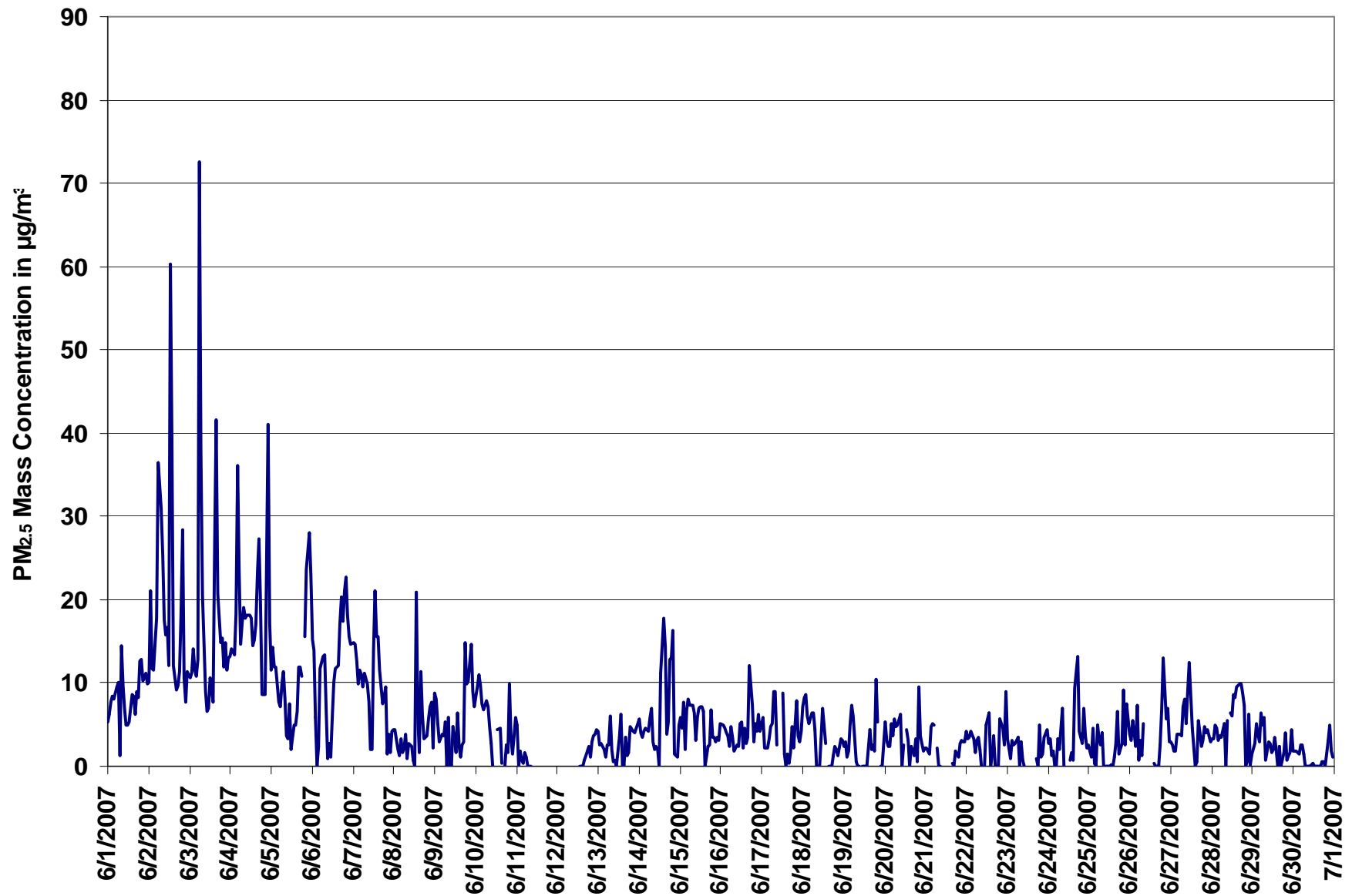


Figure 42. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend

Station: Beaverlodge  
 Station Owner: PASZA

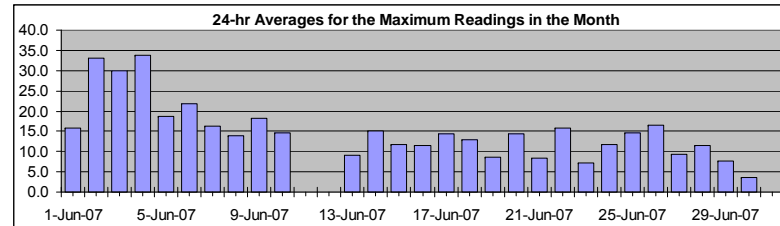
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Particulate Matter (PM<sub>2.5</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Average:	143.3	µg/m <sup>3</sup>	3-Jun	6:00 7:00
Maximum 24-hr Value:	33.8	µg/m <sup>3</sup>	4-Jun	



AIC Time:	0 hrs	Operational Time:	662 hrs						
Calibration Time:	6 hrs	AMD Operational Uptime:	92.8%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	67.6	38.2	18.1	11.1	7.3	3.9	2.1	14.9 11 µg/m <sup>3</sup>	13.5 µg/m <sup>3</sup>

**Status Flag Characters**

C	Calibration	A	AIC - Zero / Span Check
S	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-Jun-07	9	8	12	11	14	12	16	23	48	16	11	20	11	8	12	14	13	16	21	20	22	13	13	15	15.8	48.2
2-Jun-07	14	71	18	16	19	27	50	57	44	26	27	30	23	104	66	17	14	16	17	45	49	15	12	18	33.1	103.9
3-Jun-07	14	18	17	14	13	17	143	48	38	15	12	13	19	16	15	90	70	40	19	18	15	21	17	17	30.0	143.3
4-Jun-07	14	15	15	30	60	56	18	20	24	24	27	28	29	27	61	28	35	35	26	19	17	60	86	55	33.8	86.3
5-Jun-07	22	25	15	15	10	10	14	15	13	8	6	18	18	28	22	14	18	19	15	P	24	30	39	31	18.6	39.1
6-Jun-07	18	17	13	3	6	20	21	24	27	4	8	12	14	23	21	20	25	43	30	30	44	37	35	26	21.7	44.2
7-Jun-07	18	17	15	12	15	16	12	17	21	21	12	9	28	32	24	20	18	14	20	21	6	6	6	9	16.2	32.4
8-Jun-07	7	7	5	3	7	3	5	7	6	8	11	10	7	45	33	13	32	22	13	14	24	25	20	8	13.9	45.0
9-Jun-07	17	16	7	9	7	11	11	7	9	8	5	19	16	21	15	15	12	14	72	43	20	54	19	10	18.2	72.0
10-Jun-07	10	11	13	12	11	10	11	12	10	10	20	D	D	25	15	25	D	9	13	14	54	8	4	9	14.7	54.2
11-Jun-07	11	8	8	3	3	6	7	5	6	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	10.6
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	5	2	5	5	7	10	5	6	7	8	7	N	9.6
13-Jun-07	6	4	4	4	3	7	8	12	5	9	15	5	24	27	9	10	12	8	6	12	7	10	7	8	9.2	26.5
14-Jun-07	10	6	5	5	7	6	10	13	9	7	8	8	9	32	36	47	22	23	19	18	29	15	12	7	15.2	47.1
15-Jun-07	8	10	14	10	12	12	10	12	9	13	18	17	15	20	15	10	10	14	11	8	9	6	5	11.6	19.6	
16-Jun-07	8	7	7	6	6	6	8	7	12	10	14	18	13	15	18	22	16	19	17	7	15	6	10	11	11.5	22.2
17-Jun-07	11	12	9	6	9	12	20	24	18	11	D	D	23	11	16	15	17	22	15	10	21	10	9	16	14.4	24.1
18-Jun-07	25	17	14	11	7	8	28	30	9	6	4	27	32	17	D	11	3	8	5	9	9	3	8	5	12.9	31.8
19-Jun-07	5	5	4	5	9	11	8	7	4	6	D	6	7	5	6	22	6	7	7	22	8	D	8	23	8.7	23.2
20-Jun-07	14	8	12	36	11	9	16	11	10	24	9	10	D	24	16	10	20	12	10	10	23	17	11	7	14.4	35.6
21-Jun-07	7	6	5	11	8	9	P	11	11	7	D	D	11	D	10	D	14	5	11	5	7	10	7	7	8.5	13.8
22-Jun-07	6	5	11	13	8	21	20	31	17	7	D	9	35	32	21	12	19	12	10	7	21	20	8	21	15.9	34.7
23-Jun-07	9	7	4	6	5	5	9	5	8	10	6	D	D	6	D	D	D	12	7	13	4	5	8	7	7.1	13.3
24-Jun-07	6	9	4	7	3	8	9	8	23	5	D	D	D	17	10	12	23	42	13	9	13	10	9	4	11.6	41.8
25-Jun-07	8	4	8	5	12	20	6	9	10	8	12	9	14	14	29	17	23	28	22	25	23	11	18	16	14.7	29.1
26-Jun-07	7	11	12	27	43	43	7	19	46	C	C	C	C	C	5	4	5	11	9	16	25	8	12	6	16.6	45.8
27-Jun-07	6	5	3	3	7	6	7	18	13	11	14	21	15	9	6	9	16	11	7	11	8	7	7	6	9.3	21.1
28-Jun-07	5	5	8	8	5	6	5	31	12	16	C	33	10	13	12	13	13	15	14	14	2	8	14	5	11.6	33.5
29-Jun-07	4	6	9	6	5	10	9	9	7	8	7	6	6	10	8	7	9	7	7	8	12	11	4	9	7.6	12.2
30-Jun-07	8	5	4	6	5	4	3	2	1	1	0	2	3	1	4	3	4	3	3	2	5	7	3	3	3.5	8.5
Hourly Avg	10.6	11.9	9.4	10.5	11.3	13.5	17.7	16.9	16.3	11.0	N	N	16.7	21.5	18.9	18.2	17.6	16.8	15.6	15.6	18.1	15.8	14.5	12.8		
Hourly Max	25.0	70.5	18.3	35.6	60.5	56.0	143.3	56.9	48.2	25.9	27.2	33.5	34.7	103.9	65.8	90.0	70.4	42.7	72.0	44.6	54.2	60.1	86.3	55.4		

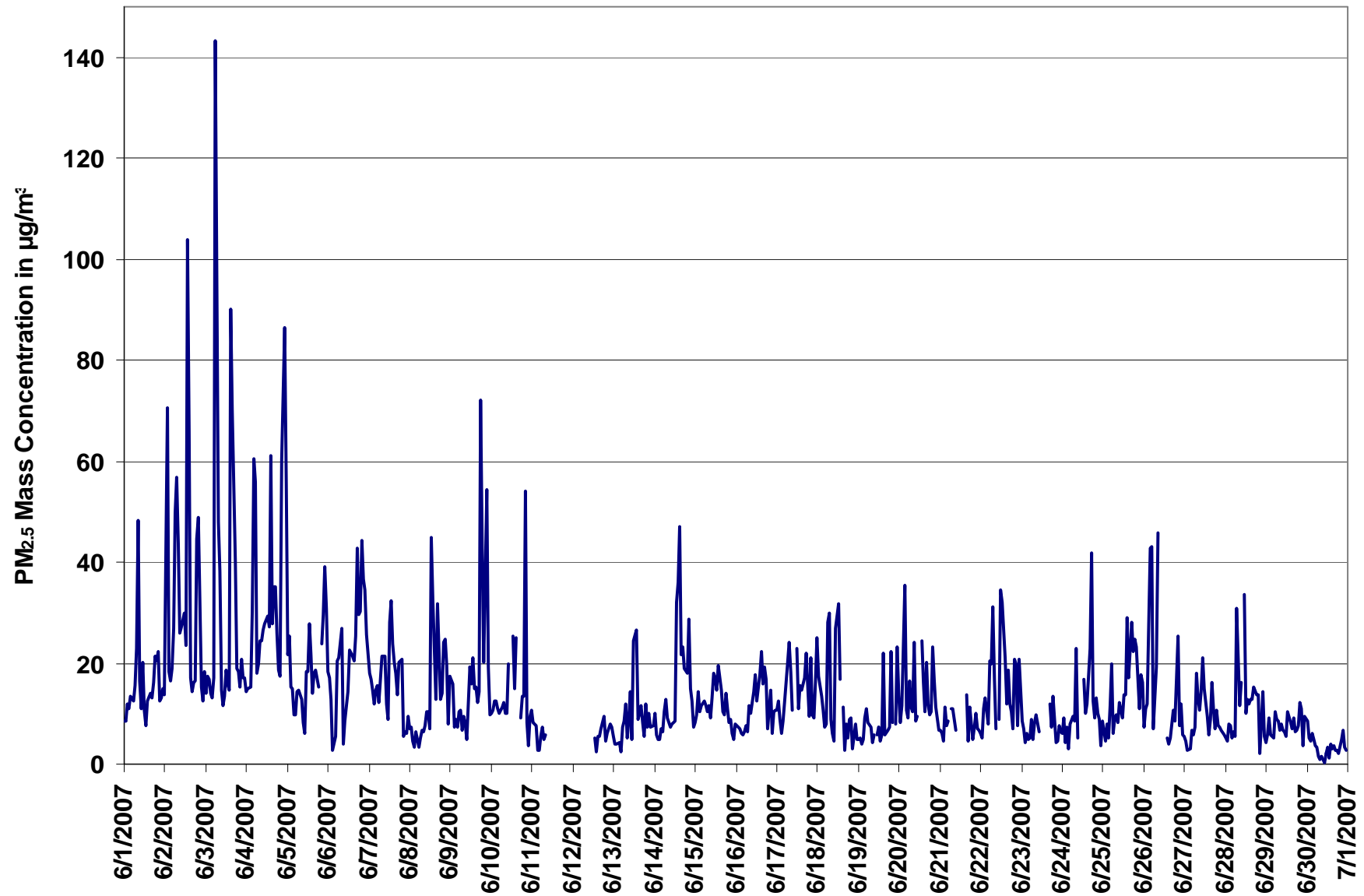
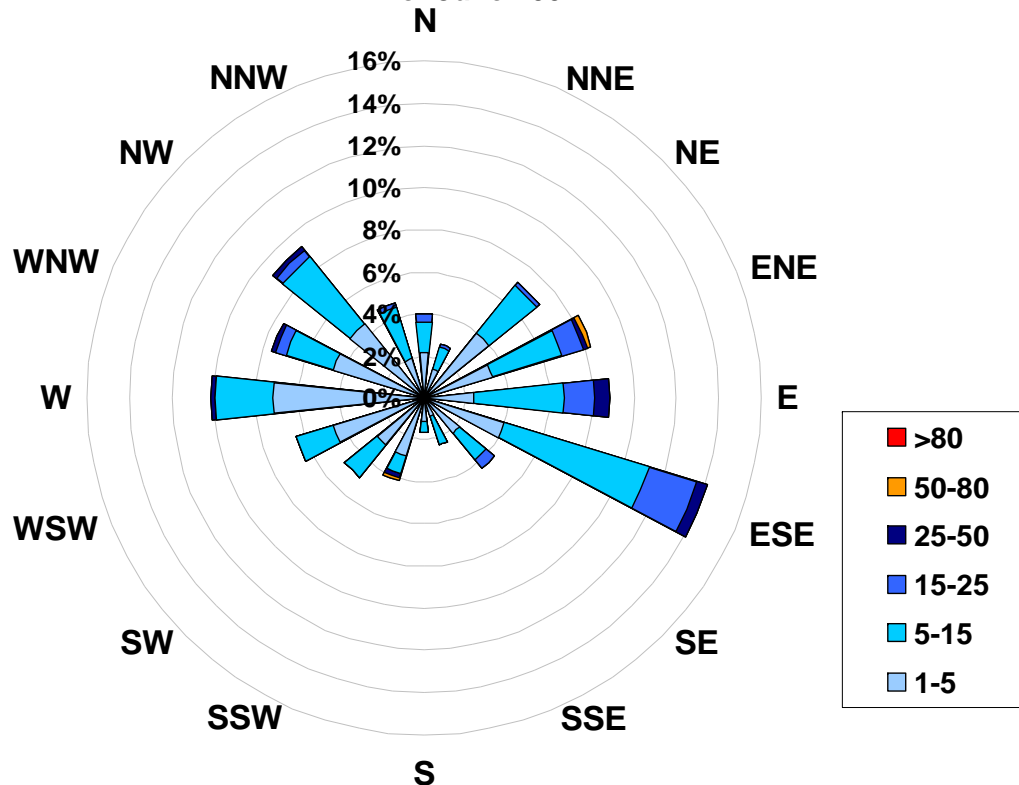


Figure 43. PASZA - Beaverlodge Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of PM <sub>2.5</sub> in µg/m <sup>3</sup>			Frequency (hrs)
Range			
1.0	<	5	384
5	to	15	224
15	to	25	40
25	to	50	12
50	to	80	2
	>	80	0
Total Non-Zero Values			662



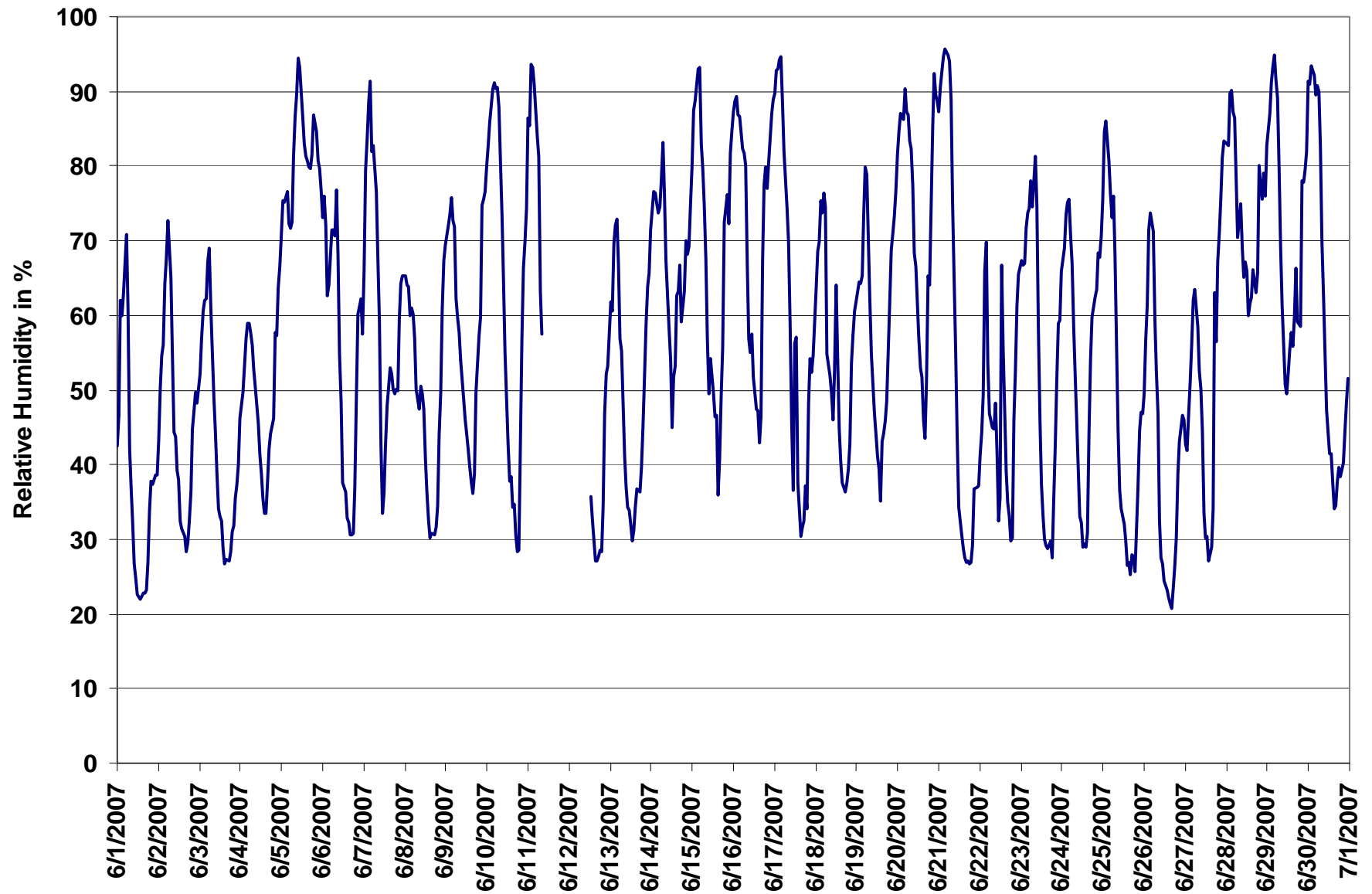


Figure 44. PASZA - Beaverlodge Relative Humidity 1-hr Average Monthly Trend

# PASZA - Beaverlodge - Temperature Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

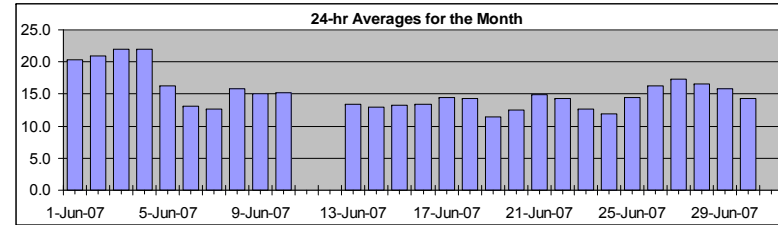
## HOURLY AVERAGE TABLE

## Ambient Temperature (T)

Monitoring Dates: June 1, 2007 to July 1, 2007

### Summary

Maximum 1-hr Average:	28.6	°C	4-Jun	15:00 16:00
Maximum 24-hr Value:	22.0	°C	3-Jun	



AIC Time:	0 hrs	Operational Time:	692 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	96.1%						
Percentile	99	95	75	50	25	5	1	Average	Median
	26.8	24.5	18.5	15.4	11.4	7.3	5.4	15.2 °C	15.4 °C

### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jun-07	16	15	12	11	11	10	14	19	21	22	25	25	25	26	26	26	26	26	26	25	23	22	20	20	20	20.3	26.4
2-Jun-07	19	17	16	15	14	14	15	16	19	22	23	25	25	26	26	26	27	26	26	25	22	20	19	19	22.0	26.6	
3-Jun-07	18	17	16	16	16	16	16	18	22	23	24	25	26	27	27	27	27	27	26	25	24	22	22	21	22.0	27.4	
4-Jun-07	20	19	18	18	17	17	18	19	21	22	24	25	27	28	28	29	27	26	25	22	20	20	19	19	21.9	28.6	
5-Jun-07	18	17	16	16	17	17	17	16	15	15	14	15	15	16	17	17	18	18	18	17	16	16	16	15	16.3	18.4	
6-Jun-07	14	13	13	12	10	9	9	9	8	10	13	14	15	16	17	17	17	17	17	16	15	12	11	10	13.1	17.4	
7-Jun-07	9	7	6	5	5	7	7	9	11	14	16	17	18	18	17	16	16	17	17	17	16	14	13	12	12.6	17.8	
8-Jun-07	11	12	11	12	12	12	12	14	15	16	17	18	19	20	20	21	20	20	20	19	17	15	14	12	15.8	20.8	
9-Jun-07	12	12	11	11	10	11	13	14	15	16	17	18	18	19	20	20	20	19	17	16	16	13	13	13	15.0	19.8	
10-Jun-07	12	12	12	11	11	11	12	12	13	15	16	17	18	20	20	21	20	20	21	21	16	13	12	11	15.2	21.0	
11-Jun-07	10	10	8	8	8	9	9	13	14	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	13.7	
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	16	18	19	19	18	18	18	15	12	10	9	N	18.9	
13-Jun-07	7	7	5	5	4	6	9	11	15	16	18	18	19	20	20	18	18	18	17	16	15	13	12	11	13.3	20.1	
14-Jun-07	10	9	9	9	10	10	10	10	12	14	16	18	20	17	16	14	14	14	15	15	13	13	11	10	12.9	19.8	
15-Jun-07	9	7	8	6	6	9	10	12	15	17	19	18	19	20	20	21	18	16	15	12	11	12	10	9	13.3	20.8	
16-Jun-07	9	9	9	9	10	10	11	11	14	17	17	17	18	19	19	19	18	14	13	12	13	12	10	10	13.4	19.0	
17-Jun-07	9	8	7	6	5	7	10	12	14	17	19	19	15	15	19	22	21	20	19	21	18	15	15	14	14.5	21.7	
18-Jun-07	13	12	12	11	11	11	12	16	17	18	18	17	15	18	19	18	17	16	15	14	14	11	9	8	14.3	18.7	
19-Jun-07	7	6	6	6	5	6	9	11	12	13	15	15	16	16	17	16	15	15	15	13	12	11	10	9	11.5	17.0	
20-Jun-07	9	8	7	7	7	8	8	9	10	13	14	15	16	17	18	19	19	18	15	14	12	11	11	11	12.5	19.3	
21-Jun-07	12	11	11	10	10	10	11	12	14	16	17	17	18	18	19	19	19	19	19	19	17	14	13	13	14.9	18.9	
22-Jun-07	12	11	10	7	7	10	13	15	15	15	17	19	18	12	15	18	19	19	20	20	16	14	11	10	14.3	19.9	
23-Jun-07	10	10	9	8	9	9	9	9	9	11	14	15	16	17	17	18	18	17	17	16	14	12	10	9	12.7	17.8	
24-Jun-07	8	7	6	5	5	6	8	10	13	15	17	17	18	18	19	18	15	14	13	13	12	11	11	10	11.9	18.6	
25-Jun-07	9	7	7	7	7	8	8	10	14	17	18	18	19	20	20	20	21	20	20	20	17	14	13	12	14.4	20.9	
26-Jun-07	11	10	9	6	6	7	11	13	15	18	19	20	22	22	23	23	23	23	22	21	19	17	15	15	16.3	23.4	
27-Jun-07	15	16	15	14	13	13	13	14	16	17	20	23	23	23	24	24	22	17	19	16	15	15	14	13	17.3	24.4	
28-Jun-07	13	13	12	11	12	12	15	16	16	17	19	18	19	21	20	20	20	21	21	19	17	15	15	14	16.5	21.1	
29-Jun-07	13	12	11	10	9	12	12	15	17	19	21	22	21	21	20	18	19	17	18	18	16	14	13	12	15.8	21.6	
30-Jun-07	11	11	11	11	11	11	11	11	13	14	15	16	18	17	18	19	19	18	17	17	15	14	13	12	14.3	18.8	
Hourly Avg	11.9	11.2	10.5	9.8	9.6	10.3	11.3	13.0	14.7	16.3	17.9	18.6	19.1	19.4	20.0	20.1	19.7	19.0	18.6	17.7	16.0	14.3	13.2	12.6			
Hourly Max	19.6	19.0	18.3	17.5	17.2	17.3	18.0	19.1	22.5	23.1	24.6	25.4	26.6	27.6	28.1	28.6	27.3	26.7	26.1	24.9	23.6	22.1	21.5	20.9			



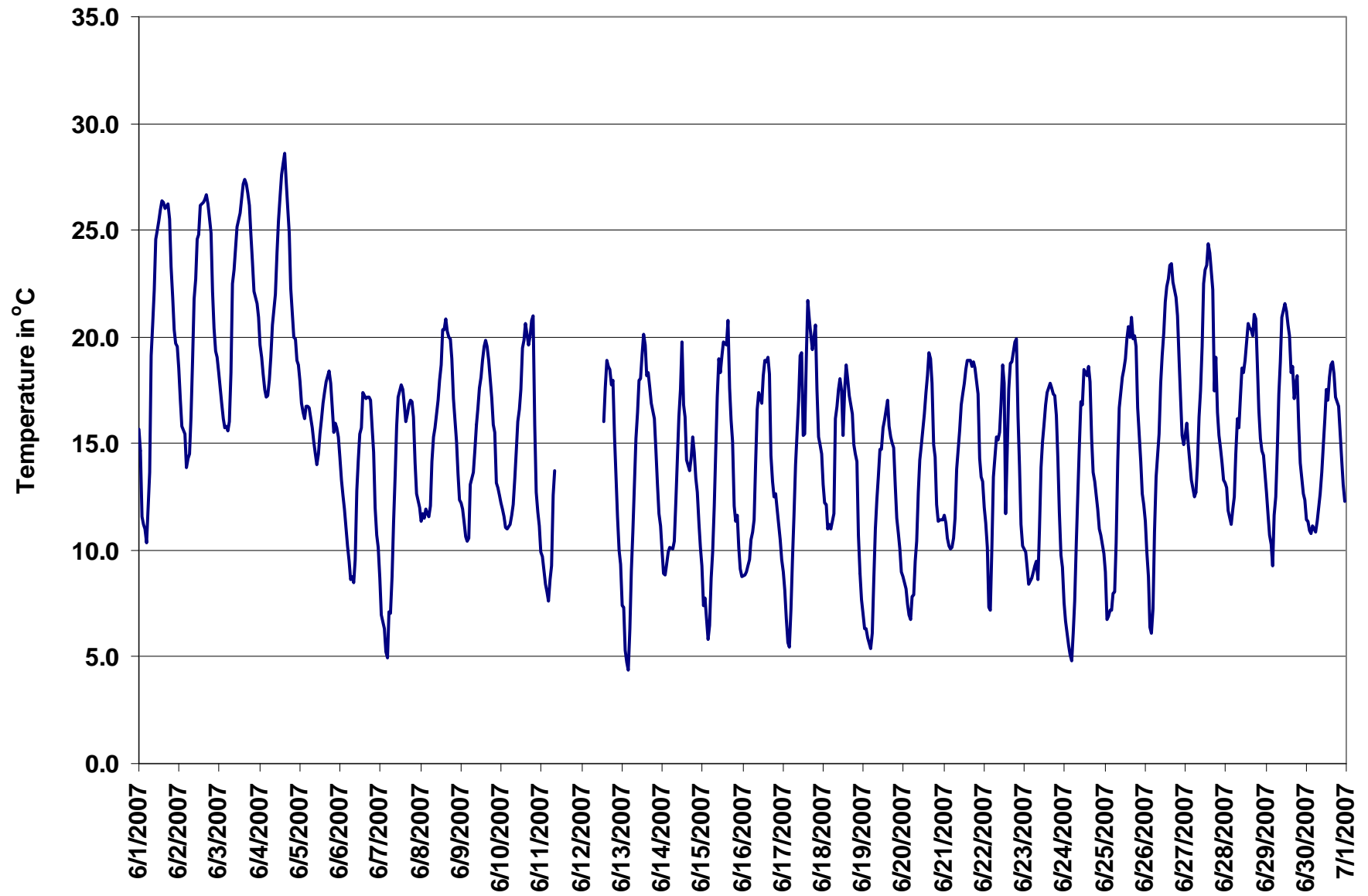


Figure 45. PASZA - Beaverlodge Temperature 1-hr Average Monthly Trend

# PASZA - Beaverlodge - Scalar Wind Speed Monthly Summary

Station: Beaverlodge  
Station Owner: PASZA

## HOURLY AVERAGE TABLE

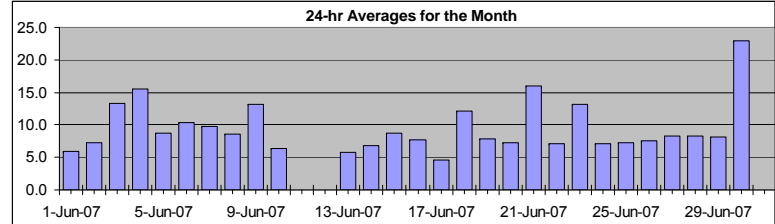
## Wind Speed (WSs)

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Average:	40.1	km/hr	30-Jun	15:00 16:00
Maximum 24-hr Value:	22.9	km/hr	30-Jun	

Calm Time:	0 hrs	0% calms	Operational Time:	692 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	96.1%				
Percentile	99	95	75	50	25	5	1	AverageS
	32.3	21.8	11.8	7.6	4.7	2.6	1.6	9.5 km/hr



**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hr 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-Jun-07	4	5	3	5	4	2	4	5	5	6	4	5	7	8	9	9	9	7	10	12	6	5	3	3	5.9	12.4	
2-Jun-07	2	4	5	4	4	5	8	2	7	10	10	9	9	8	8	10	9	8	10	8	6	10	9	8	7.2	10.5	
3-Jun-07	5	5	8	5	2	6	4	3	5	15	17	17	16	17	19	20	21	21	20	16	15	18	21	21	13.2	21.4	
4-Jun-07	17	16	14	13	14	14	17	19	18	19	20	22	22	20	21	21	20	17	14	10	8	6	8	4	15.5	22.4	
5-Jun-07	4	7	7	8	7	8	8	7	6	3	7	10	10	10	8	7	8	9	10	11	11	13	12	11	18	8.8	18.4
6-Jun-07	18	18	18	19	21	19	14	13	8	7	7	12	10	12	8	7	7	6	7	5	3	2	3	4	10.3	21.0	
7-Jun-07	4	2	2	2	2	2	4	4	5	7	10	11	15	17	18	19	19	19	15	12	15	14	10	8	9.8	18.9	
8-Jun-07	7	8	7	12	11	8	8	6	10	8	8	7	10	8	10	14	12	7	6	3	8	10	12	7	8.6	14.1	
9-Jun-07	6	7	6	4	5	3	2	9	10	11	14	14	16	18	20	21	20	19	23	17	21	16	19	16	13.2	22.8	
10-Jun-07	13	11	10	5	2	1	1	3	3	6	6	10	9	6	8	6	8	7	4	4	9	9	7	5	6.4	12.5	
11-Jun-07	4	5	4	2	4	3	2	2	5	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	4.9	
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	14	14	18	21	19	20	21	14	10	9	5	N	20.9	
13-Jun-07	3	3	3	4	5	2	3	6	2	4	4	5	5	7	13	9	19	13	5	7	7	8	4	2	5.8	19.0	
14-Jun-07	2	1	4	5	7	8	4	5	8	11	9	8	5	7	5	14	7	6	13	10	7	10	7	3	6.9	13.9	
15-Jun-07	3	4	5	4	5	4	8	5	5	4	4	6	7	10	14	15	18	18	16	21	18	7	5	4	8.7	20.7	
16-Jun-07	4	3	4	6	6	4	6	6	2	4	7	11	12	14	16	16	17	14	8	7	7	5	3	3	7.7	17.1	
17-Jun-07	5	3	4	2	1	1	1	4	4	3	5	6	11	9	7	4	4	7	8	6	5	4	4	4	4.6	10.5	
18-Jun-07	5	8	9	8	7	7	5	4	4	6	7	8	11	12	20	28	27	29	27	17	12	11	10	10	12.2	28.9	
19-Jun-07	9	7	4	6	6	4	6	10	8	8	8	7	7	4	6	9	12	14	10	11	12	10	5	4	7.8	14.0	
20-Jun-07	6	2	4	1	3	5	4	4	6	7	9	10	10	11	9	6	6	10	17	14	4	9	10	6	7.2	16.5	
21-Jun-07	9	11	9	8	4	5	3	9	7	15	23	29	36	35	29	28	27	26	21	17	11	9	6	5	16.0	35.7	
22-Jun-07	5	6	6	4	2	7	3	6	8	10	10	6	9	26	9	8	5	4	3	3	7	9	6	8	7.2	25.6	
23-Jun-07	6	6	7	6	7	5	4	10	13	11	12	17	22	22	22	23	22	21	22	21	14	11	7	7	13.1	22.9	
24-Jun-07	3	3	2	3	2	4	5	6	9	7	8	8	10	9	6	7	18	14	14	12	7	5	4	5	7.2	18.1	
25-Jun-07	3	3	4	8	6	3	4	5	3	4	7	8	7	6	11	11	12	8	7	16	15	11	8	5	7.2	16.2	
26-Jun-07	5	5	3	3	3	3	3	5	11	15	13	11	8	7	8	6	5	9	13	10	8	9	7	8	7.5	15.1	
27-Jun-07	12	19	16	13	10	4	3	7	5	5	3	4	6	7	6	10	8	13	11	13	10	5	4	6	8.2	18.5	
28-Jun-07	3	4	4	4	6	5	4	7	6	2	4	11	11	11	12	10	12	12	13	17	13	7	10	11	8.3	17.5	
29-Jun-07	9	7	6	5	5	4	4	5	4	4	4	8	11	9	8	15	6	10	9	8	12	15	15	11	8.1	15.2	
30-Jun-07	9	6	8	7	5	5	7	13	23	26	30	31	34	37	36	40	35	32	31	30	31	25	26	24	22.9	40.1	
1-hr Average	6.3	6.5	6.4	6.1	5.7	5.2	5.3	6.5	7.2	8.5	9.7	11.1	12.3	13.0	13.0	14.3	14.3	13.8	13.3	12.3	10.9	9.8	8.7	7.7			
Hourly Max	18.0	18.5	18.1	19.4	21.0	18.5	17.1	18.5	22.7	25.5	30.2	31.2	35.7	36.6	35.9	40.1	35.1	32.1	30.8	29.5	30.8	25.5	25.7	23.8			

# PASZA - Beaverlodge - Vector Wind Speed Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

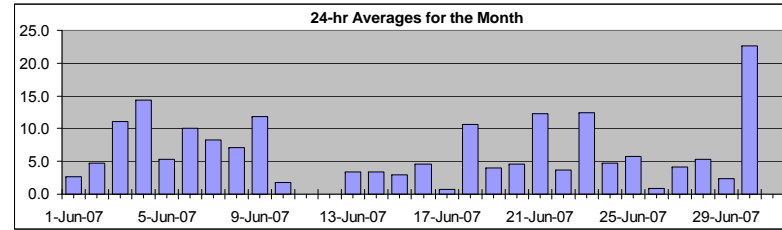
### Wind Speed (WSv)

Monitoring Dates: June 1, 2007 to July 1, 2007

#### Summary

Maximum 1-hr Average:	40.0	km/hr	30-Jun	15:00 16:00
Maximum 24-hr Value:	22.6	km/hr	30-Jun	

Calm Time:	5 hrs	1% calms	Operational Time:	687 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	96.1%				
Percentile	99	95	75	50	25	5	1	AverageV
	32.2	21.7	11.5	7.0	4.0	1.7	1.0	1.2 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 Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jun-07	3	4	1	5	1	1	2	2	5	6	3	3	6	7	8	9	8	7	10	12	6	5	3	3	2.7	11.8	
2-Jun-07	1	3	4	4	3	2	2	1	7	9	10	6	9	6	8	9	9	8	10	8	5	10	9	8	4.7	10.4	
3-Jun-07	5	2	8	3	1	6	2	3	4	14	17	17	16	17	18	20	21	21	20	16	15	17	21	21	11.1	21.3	
4-Jun-07	17	16	14	13	13	14	17	18	18	19	19	22	22	20	20	20	20	17	14	10	7	2	8	2	14.3	22.2	
5-Jun-07	3	6	7	8	7	8	8	7	4	1	7	9	9	8	7	8	9	10	11	10	13	12	10	18	5.3	18.2	
6-Jun-07	18	18	18	19	21	18	14	13	7	7	11	9	11	7	7	5	5	6	5	3	2	3	4	4	10.0	20.9	
7-Jun-07	4	2	2	2	2	1	4	4	5	7	10	11	14	17	18	19	19	18	15	12	15	14	10	8	8.3	18.7	
8-Jun-07	6	7	6	12	11	8	8	5	9	7	7	6	9	7	10	14	11	6	6	3	8	6	11	7	7.1	13.9	
9-Jun-07	4	6	6	3	4	1	2	9	10	11	14	14	16	17	19	20	20	19	22	17	21	15	19	16	11.9	22.2	
10-Jun-07	13	11	10	3	2	calm	1	2	3	6	6	9	8	4	5	5	7	7	3	4	2	8	7	4	1.7	12.5	
11-Jun-07	2	2	4	1	2	3	2	2	4	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	4.3	
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	14	14	18	21	19	19	21	14	10	9	5	N	20.6	
13-Jun-07	3	2	2	3	5	2	2	5	1	3	2	3	4	6	12	4	18	12	5	7	6	8	3	1	3.5	18.5	
14-Jun-07	calm	1	3	4	6	7	4	4	8	11	8	7	3	5	4	13	6	6	13	10	3	10	5	2	3.5	13.1	
15-Jun-07	2	3	5	3	4	3	7	5	5	3	2	5	6	9	14	15	14	17	13	20	18	2	3	4	2.9	20.3	
16-Jun-07	4	3	4	6	6	4	6	6	2	2	6	10	12	13	16	16	17	12	7	7	6	5	3	2	4.5	16.8	
17-Jun-07	4	3	2	calm	calm	calm	1	4	4	3	4	3	6	9	6	1	3	7	7	6	5	4	4	4	0.7	8.6	
18-Jun-07	4	6	8	5	7	7	5	3	3	6	7	6	11	11	19	27	27	29	27	17	12	11	10	10	10.7	28.6	
19-Jun-07	9	6	3	5	6	4	6	10	8	7	6	6	4	5	9	12	14	10	11	12	10	5	3	4.0	13.8		
20-Jun-07	6	2	2	1	3	4	4	1	2	6	8	9	9	11	9	6	4	9	16	14	2	7	9	5	4.6	16.4	
21-Jun-07	9	11	9	8	3	4	2	4	7	15	23	29	35	34	29	28	27	26	21	17	11	9	6	5	12.3	35.5	
22-Jun-07	5	6	5	3	1	7	2	6	8	9	9	4	8	25	7	7	4	3	1	3	7	9	6	7	3.7	25.4	
23-Jun-07	5	6	7	6	7	5	4	9	12	11	11	17	21	22	21	23	21	21	22	20	14	11	7	6	12.4	22.6	
24-Jun-07	3	1	2	2	2	4	5	5	9	7	8	7	9	7	5	6	18	14	14	12	7	5	4	4	4.8	17.9	
25-Jun-07	2	2	4	7	5	1	4	5	3	3	6	7	6	4	10	11	12	5	6	16	15	11	8	5	5.8	16.1	
26-Jun-07	5	5	2	3	3	3	3	5	10	15	13	11	6	5	7	2	3	8	13	10	8	9	7	8	0.9	14.7	
27-Jun-07	12	18	16	13	10	3	2	6	4	4	2	2	5	6	4	9	1	8	11	9	9	4	1	4	4.2	18.5	
28-Jun-07	2	3	2	4	6	5	4	7	5	1	3	10	11	11	12	10	12	11	12	17	12	3	10	10	5.4	17.3	
29-Jun-07	9	5	5	5	5	4	2	4	4	2	3	7	10	9	8	11	4	9	8	7	11	14	15	9	2.3	15.1	
30-Jun-07	9	6	8	7	5	5	7	13	23	25	30	31	34	36	36	40	35	32	31	29	31	25	26	24	22.6	40.0	
1-hr Vector	1.7	1.3	1.3	1.2	1.6	1.1	0.8	1.7	3.3	3.1	2.7	2.0	2.4	1.6	2.4	1.9	3.4	2.3	1.3	1.2	0.6	1.9	1.0	1.1			
Hourly Max	18.0	18.5	18.1	19.3	20.9	18.4	17.0	18.5	22.6	25.4	30.1	31.1	35.5	36.3	35.6	40.0	34.9	31.9	30.8	29.5	30.7	25.4	25.7	23.7			

### PASZA - Beaverlodge - Wind Direction Monthly Summary

Station: Beaverlodge  
Station Owner: PASZA

#### HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2007 to July 1, 2007

Summary


Calm Time:	0 hrs	0% calms	Operational Time:	692 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	96.1%				
Percentile	99	95	75	50	25	5	1	Average
	355.7	333.4	279.1	216.2	99.5	37.4	8.6	281 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	24:00	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-Jun-07	28	312	342	50	24	263	351	324	311	304	278	192	124	97	94	105	100	86	102	129	73	91	78	355	78	ENE	
2-Jun-07	327	357	11	25	5	20	267	94	314	9	58	81	93	69	103	122	107	115	112	105	79	37	53	64	67	ENE	
3-Jun-07	67	305	311	307	347	54	197	208	138	114	123	110	113	100	96	96	93	96	98	105	103	105	100	106	102	ESE	
4-Jun-07	116	117	118	116	108	105	112	117	114	111	116	127	122	117	119	111	110	107	130	154	130	73	290	310	116	ESE	
5-Jun-07	252	255	288	294	302	298	285	277	313	335	291	315	316	321	310	307	305	311	323	1	49	95	61	60	327	NNW	
6-Jun-07	66	58	53	54	52	62	58	52	28	32	39	56	83	71	56	67	59	65	90	84	87	87	79	87	60	ENE	
7-Jun-07	154	147	80	105	160	180	217	218	211	220	228	232	259	287	283	285	280	276	275	271	272	259	254	258	262	W	
8-Jun-07	279	312	300	281	278	294	303	298	307	305	326	313	311	322	300	283	290	333	353	356	265	330	36	69	309	NW	
9-Jun-07	350	42	59	9	39	208	112	115	112	125	124	114	89	96	101	97	99	99	122	111	131	117	113	121	106	ESE	
10-Jun-07	122	125	131	127	72	44	98	202	196	212	229	243	263	287	295	336	317	293	254	277	154	330	318	262	243	WSW	
11-Jun-07	271	357	206	42	246	266	202	236	291	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	-
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	310	299	290	281	280	277	278	262	260	267	267	N	-	
13-Jun-07	69	4	113	78	68	118	200	220	212	207	205	262	214	251	256	313	256	278	343	304	296	256	225	208	261	W	
14-Jun-07	173	75	54	305	317	321	306	223	262	267	291	292	304	53	345	39	341	221	255	263	109	12	273	9	305	NW	
15-Jun-07	282	322	341	284	335	339	333	320	316	275	76	66	79	84	65	87	179	196	134	62	50	343	163	138	75	ENE	
16-Jun-07	48	46	22	18	22	43	46	41	66	125	123	96	102	91	74	78	86	152	236	271	333	309	40	11	75	ENE	
17-Jun-07	324	343	313	326	35	220	227	268	242	243	241	270	297	189	201	261	338	53	56	64	94	90	79	68	307	NW	
18-Jun-07	358	328	10	304	308	324	324	271	226	229	258	246	233	317	273	266	277	272	274	276	268	262	261	264	277	W	
19-Jun-07	268	256	304	310	306	292	314	314	306	311	318	339	320	5	302	256	237	235	249	48	54	54	66	85	307	NW	
20-Jun-07	92	143	7	311	34	29	229	1	261	105	128	114	130	130	104	105	140	87	52	50	38	360	52	75	81	E	
21-Jun-07	114	133	150	155	146	186	321	307	256	245	261	266	260	265	266	265	267	271	279	291	284	295	345	334	264	W	
22-Jun-07	356	336	334	110	203	292	250	212	233	237	227	186	218	232	310	277	326	52	197	118	123	148	197	202	233	SW	
23-Jun-07	222	223	269	210	219	231	251	258	293	295	293	278	270	271	275	264	263	259	259	249	246	238	248	243	261	W	
24-Jun-07	178	124	137	115	169	189	200	231	247	240	244	244	216	230	250	193	167	123	146	189	158	82	96	77	186	S	
25-Jun-07	110	114	194	276	285	64	209	220	242	274	298	311	300	269	289	277	279	320	296	277	267	277	298	342	281	W	
26-Jun-07	316	284	284	76	76	72	219	240	253	282	286	307	313	326	304	36	96	107	104	98	98	115	97	104	351	N	
27-Jun-07	104	110	112	116	120	188	126	140	183	257	269	328	351	70	67	73	0	358	44	316	34	26	96	70	74	ENE	
28-Jun-07	22	299	278	51	44	43	59	117	127	151	49	58	104	117	112	103	85	103	108	104	65	318	314	360	80	E	
29-Jun-07	36	352	317	299	66	71	127	211	226	221	91	112	105	106	112	138	335	28	26	40	121	308	327	299	45	NE	
30-Jun-07	248	284	271	291	276	225	243	259	269	276	274	274	272	267	270	262	264	263	256	257	264	260	255	251	265	W	N
Hourly Avg	73	41	23	15	21	10	270	243	261	255	254	262	246	264	290	272	262	257	230	292	104	325	352	59			

## PASZA - Beaverlodge - Standard Deviation of Wind Direction Monthly Summary

Station: Beaverlodge  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

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Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	692 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	96.1%			
Percentile	99	95	75	50	25	5	1
	56.5	47.4	27.3	13.9	7.7	3.4	2.6

**Status Flag Characters**

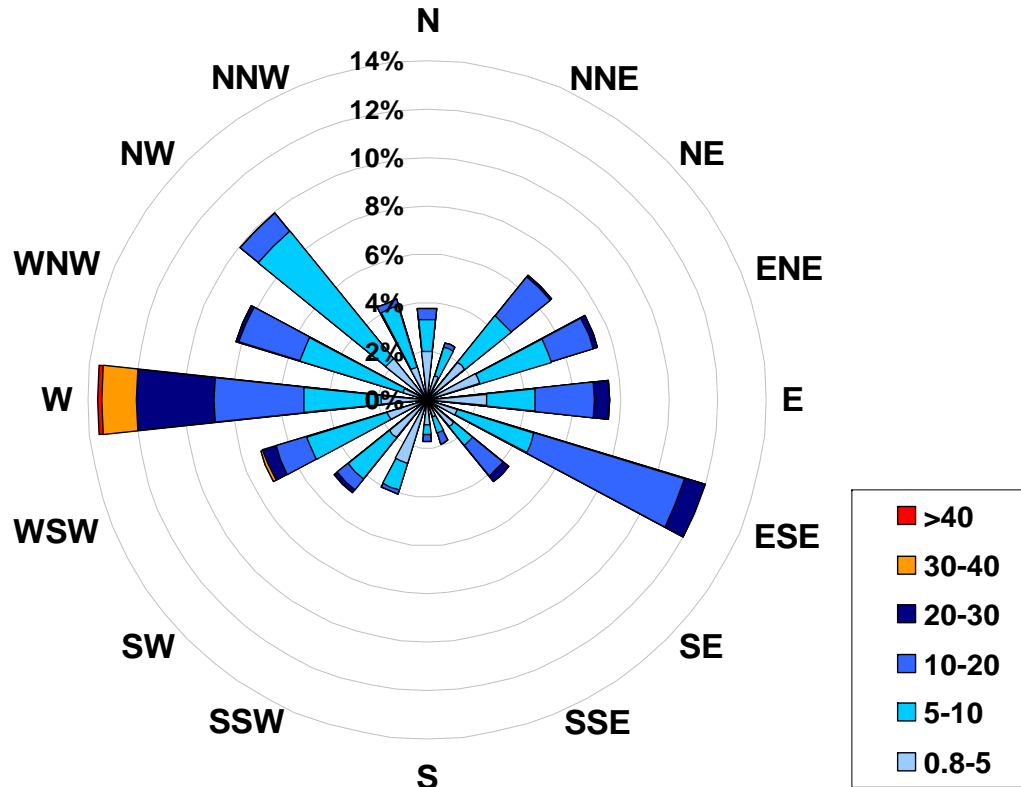
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

**Day Mountain Standard Time**

Hour Start	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-Jun-07	21	19	51	9	29	47	31	30	18	16	44	36	48	21	22	19	19	14	10	13	7	7	9	29	50.6		
2-Jun-07	28	39	28	35	50	46	32	41	11	14	12	32	19	33	19	18	15	20	4	6	9	9	2	7	49.8		
3-Jun-07	41	29	4	27	56	13	33	17	45	10	8	9	14	13	12	12	12	7	6	4	3	3	3	4	56.3		
4-Jun-07	3	3	3	4	4	9	3	10	6	8	7	6	8	8	6	9	6	4	7	6	11	42	11	39	42.0		
5-Jun-07	20	10	8	8	5	4	5	11	26	34	6	7	9	10	8	9	8	9	5	15	10	7	9	3	34.0		
6-Jun-07	3	3	4	4	4	5	6	7	14	11	22	15	25	16	36	23	52	45	20	5	8	14	8	14	52.1		
7-Jun-07	8	34	12	15	14	22	11	18	15	12	16	16	14	7	10	5	8	7	4	3	8	3	3	6	34.5		
8-Jun-07	25	9	14	3	4	4	5	15	11	15	20	28	18	28	23	9	10	24	14	13	11	36	12	7	36.3		
9-Jun-07	34	11	13	30	50	29	43	9	11	11	10	10	12	9	11	9	8	8	8	4	4	4	4	3	49.6		
10-Jun-07	3	3	6	35	9	41	44	35	23	20	26	22	21	60	42	33	20	31	32	11	36	17	11	20	60.2		
11-Jun-07	22	22	14	35	27	40	44	46	29	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	46.3		
12-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	7	8	9	7	7	7	4	4	2	2	42	41.6		
13-Jun-07	10	30	25	16	8	13	17	17	49	38	54	42	41	34	16	62	12	10	18	10	6	12	18	43	61.8		
14-Jun-07	38	21	8	25	15	9	12	29	9	14	16	15	53	50	28	40	14	22	6	5	27	13	44	16	52.6		
15-Jun-07	19	30	30	24	37	49	22	12	16	40	59	39	33	20	15	10	20	8	11	9	4	26	20	20	58.7		
16-Jun-07	12	18	13	9	8	17	15	9	31	48	39	14	15	14	10	12	7	10	8	7	22	10	22	31	48.1		
17-Jun-07	35	36	55	88	66	24	29	11	19	28	48	41	26	8	17	56	37	14	6	10	8	5	4	7	87.5		
18-Jun-07	29	31	14	41	12	5	14	16	39	27	19	52	10	15	12	7	8	7	4	4	5	2	4	3	52.3		
19-Jun-07	6	7	21	10	11	13	8	10	12	23	18	31	28	36	27	26	12	8	10	39	3	3	15	43	42.6		
20-Jun-07	9	33	17	51	9	17	15	25	31	15	11	13	14	15	21	31	36	13	4	4	43	16	8	36	50.8		
21-Jun-07	7	6	5	6	20	35	45	33	14	7	6	5	6	7	7	7	6	6	8	5	3	14	9	4	45.1		
22-Jun-07	9	6	7	43	28	40	44	26	12	14	16	54	37	6	48	33	37	41	39	33	4	8	8	5	53.6		
23-Jun-07	15	12	10	10	4	5	6	6	5	7	10	8	9	8	9	8	8	6	5	4	3	3	5	11	14.7		
24-Jun-07	18	47	27	35	22	15	13	14	10	22	24	22	22	29	37	29	10	9	7	6	5	19	5	6	47.4		
25-Jun-07	15	32	14	8	35	38	9	12	29	25	31	34	26	39	16	14	14	33	25	9	3	2	10	12	39.2		
26-Jun-07	9	8	37	10	15	10	19	14	11	11	12	18	33	54	22	37	53	14	7	5	4	5	3	3	53.8		
27-Jun-07	3	3	3	3	6	27	59	22	51	41	46	63	31	37	53	16	42	28	18	19	19	13	37	24	62.9		
28-Jun-07	28	36	50	36	7	12	25	36	43	54	54	16	12	33	36	22	24	25	30	17	15	29	11	10	54.2		
29-Jun-07	7	18	23	38	24	8	14	13	19	49	44	23	16	7	8	41	39	8	9	10	24	27	6	18	49.3		
30-Jun-07	18	16	18	14	23	21	19	11	18	3	15	5	17	14	5	5	5	5	4	3	4	3	3	3	22.6		

Hourly Max	41	47	55	88	66	49	59	46	51	54	59	63	53	60	53	62	53	45	39	39	43	42	44	43
------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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



**Calms: 0%**

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	189
5	to	10	273
10	to	20	176
20	to	30	42
30	to	40	11
	>	40	1
Total Non-Zero Values			692

# PASZA – Portable-Falher Station

## Monthly Summary Tables, Graphs, and Roses

# PASZA - Portable-Falher - Sulphur Dioxide Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

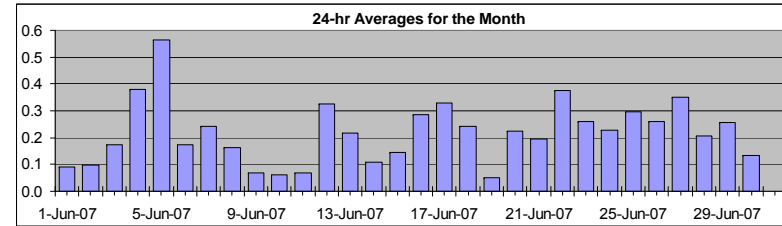
## HOURLY AVERAGE TABLE

## Sulphur Dioxide (SO<sub>2</sub>)

Monitoring Dates: June 1, 2007 to July 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:	1.7	ppb	5-Jun	20:00	21:00
Maximum 24-hr Average:	0.6	ppb	5-Jun		



AIC Time:	31 hrs	Operational Time:	682 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.0	0.6	0.3	0.2	0.1	0.0	0.0	0.2 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-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.2
2-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.3
3-Jun-07	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.2	0.7
4-Jun-07	0	1	1	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.4	0.8
5-Jun-07	0	0	0	A	0	0	0	0	0	2	1	1	0	0	0	0	0	1	1	2	2	1	0	0	0.6	1.7
6-Jun-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	0.2	1.0
7-Jun-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	0.2	0.5
8-Jun-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	0.2	0.4
9-Jun-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	0.1	0.3
10-Jun-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	0.1	0.1
11-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.1	0.2
12-Jun-07	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	0.5
13-Jun-07	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.6
14-Jun-07	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0.1	0.7
15-Jun-07	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	A	0	0	0	0	0	0	0	0.1	0.6
16-Jun-07	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0.3	0.8
17-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	1	0	1	0	0.3	0.9
18-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	A	0	0	0	0	0.2	0.5
19-Jun-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	0.1	0.3
20-Jun-07	0	0	0	A	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
21-Jun-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	0.2	0.4
22-Jun-07	0	A	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9
23-Jun-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
24-Jun-07	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.6
25-Jun-07	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	A	1	1	0.3	0.8
26-Jun-07	0	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0.3	0.4
27-Jun-07	0	0	0	A	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.4	0.7
28-Jun-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	0.2	0.4
29-Jun-07	0	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
30-Jun-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	0.1	0.2
Hourly Avg	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Hourly Max	0.4	1.0	0.8	0.7	0.5	0.4	0.8	0.8	1.6	1.4	0.8	0.7	0.7	0.8	0.6	0.6	0.4	1.1	1.0	1.6	1.7	1.0	0.8	0.6	0.6	



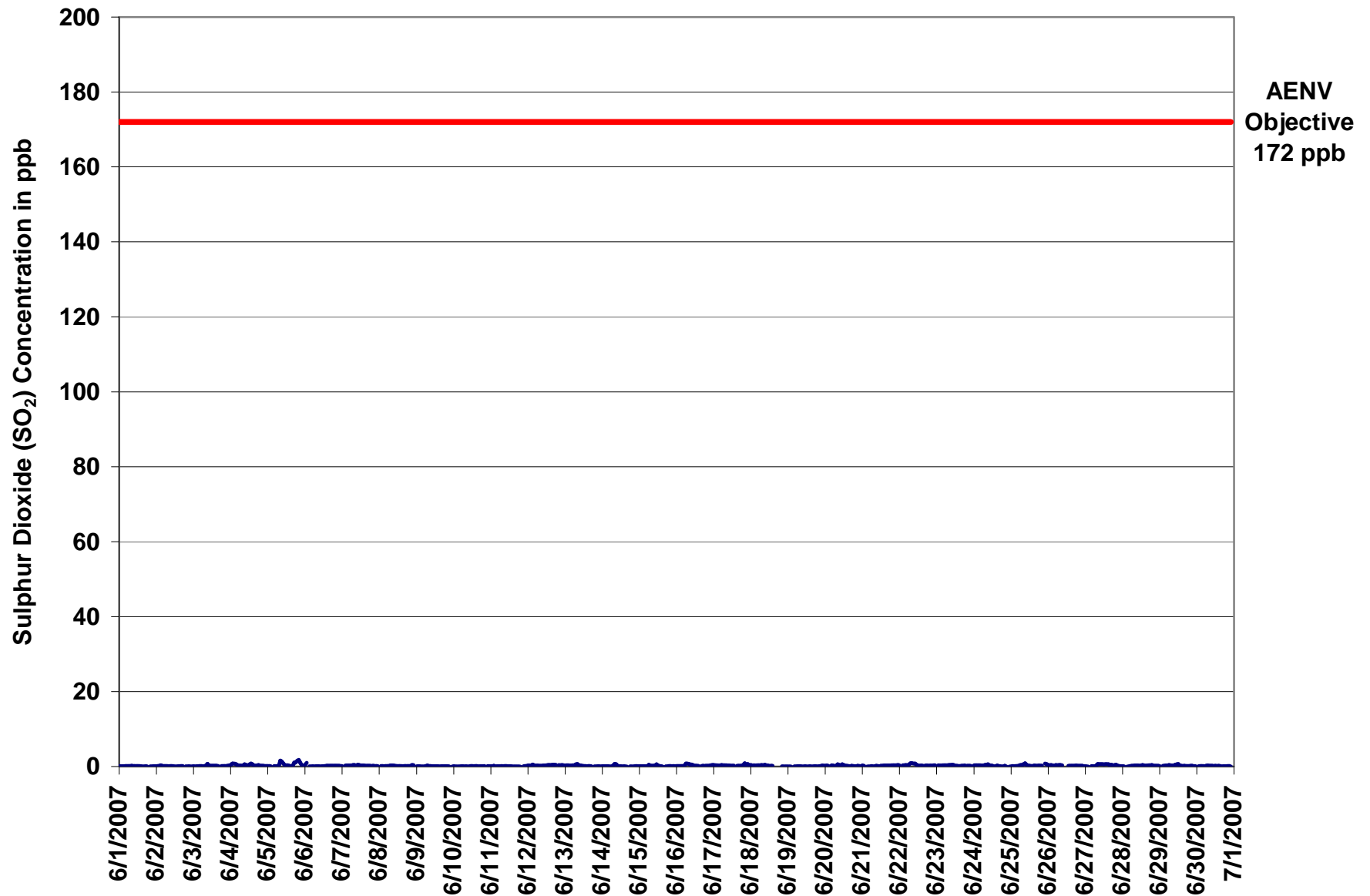


Figure 46. PASZA - Portable-Falher Sulphur Dioxide 1-hr Average Monthly Trend

Station: Portable-Falher  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

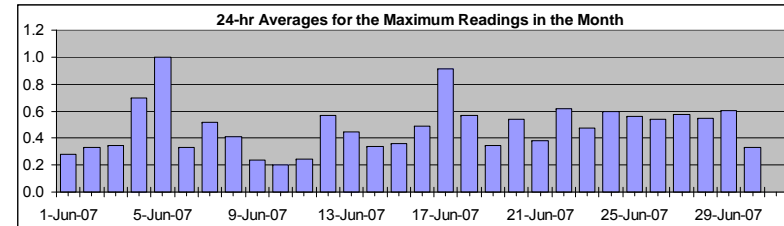
**Sulphur Dioxide (SO<sub>2</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	3.3	ppb	17-Jun	22:00 23:00
Maximum 24-hr Value:	1.0	ppb	5-Jun	

AIC Time:	31 hrs	Operational Time:	682 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.9	1.1	0.7	0.4	0.2	0.1	0.1	0.5 ppb	0.4 ppb



**Status Flag Characters**

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

**Day Mountain Standard Time**

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-Jun-07	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	A	A	0	0	0	1	0.3	0.7
2-Jun-07	0	0	1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0.3	1.3
3-Jun-07	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	A	0	0	0	0	0	1	0.3	1.2	
4-Jun-07	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0.7	1.2	
5-Jun-07	0	0	0	A	0	0	1	0	3	2	1	1	1	1	0	1	2	2	3	2	2	1	1	1.0	3.2	
6-Jun-07	1	2	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.7	
7-Jun-07	0	A	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.5	0.8	
8-Jun-07	A	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	1	A	0.4	1.3
9-Jun-07	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.6	
10-Jun-07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.5	
11-Jun-07	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	0.7	
12-Jun-07	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0	A	0	0	1	0	0.6	1.2	
13-Jun-07	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	A	0	0	0	1	0	0.4	0.8	
14-Jun-07	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	A	0	0	0	1	1	0.3	1.1	
15-Jun-07	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	A	0	0	0	0	0	0	0.4	1.1	
16-Jun-07	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	A	1	0	0	0	0	0	1	0.5	1.2	
17-Jun-07	1	1	1	1	1	1	1	1	1	1	0	0	0	0	A	0	0	0	0	1	2	3	3	0.9	3.3	
18-Jun-07	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	C	C	C	C	A	0	0	0	0.6	0.8	
19-Jun-07	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.9	
20-Jun-07	1	1	0	A	1	0	0	0	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0.5	1.8	
21-Jun-07	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4	
22-Jun-07	0	A	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0.6	1.4	
23-Jun-07	A	1	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0.5	0.9	
24-Jun-07	1	1	1	0	1	1	0	1	1	1	1	1	0	0	0	2	0	0	0	0	1	0	A	0.6	1.7	
25-Jun-07	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	A	1	0.6	1.3	
26-Jun-07	1	1	1	1	0	1	1	1	1	1	1	C	C	C	0	0	0	0	0	0	0	0	1	0.5	0.9	
27-Jun-07	0	0	0	A	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.6	1.1	
28-Jun-07	0	0	A	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.5	0.7	
29-Jun-07	0	A	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0.6	1.3	
30-Jun-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	0.4	
Hourly Avg	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.6	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.4		
Hourly Max	0.9	1.7	1.3	1.2	0.8	0.9	1.2	1.2	3.2	2.2	1.2	1.3	1.3	1.2	1.1	1.7	0.9	1.7	1.7	2.7	2.3	3.1	3.3	1.3		

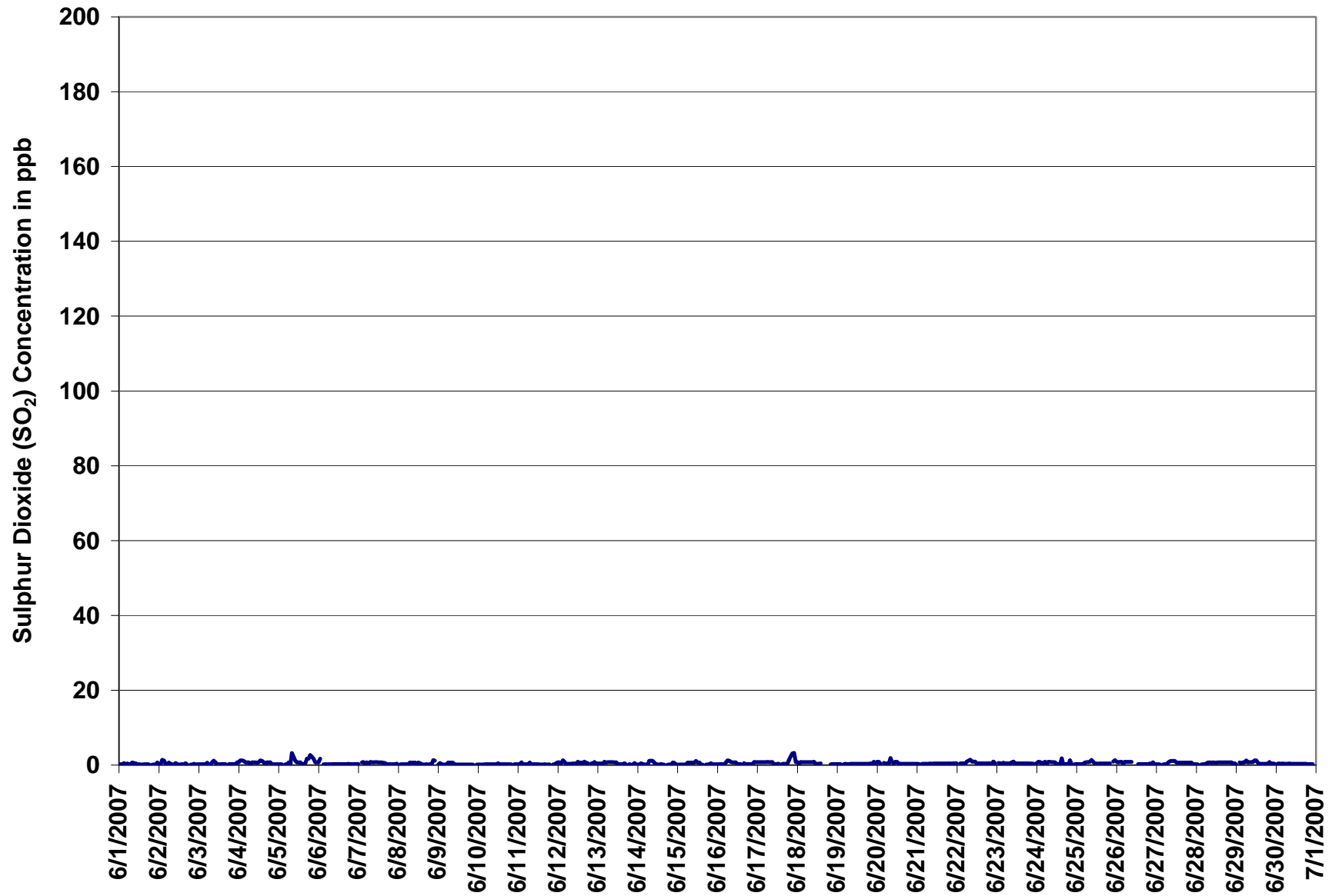
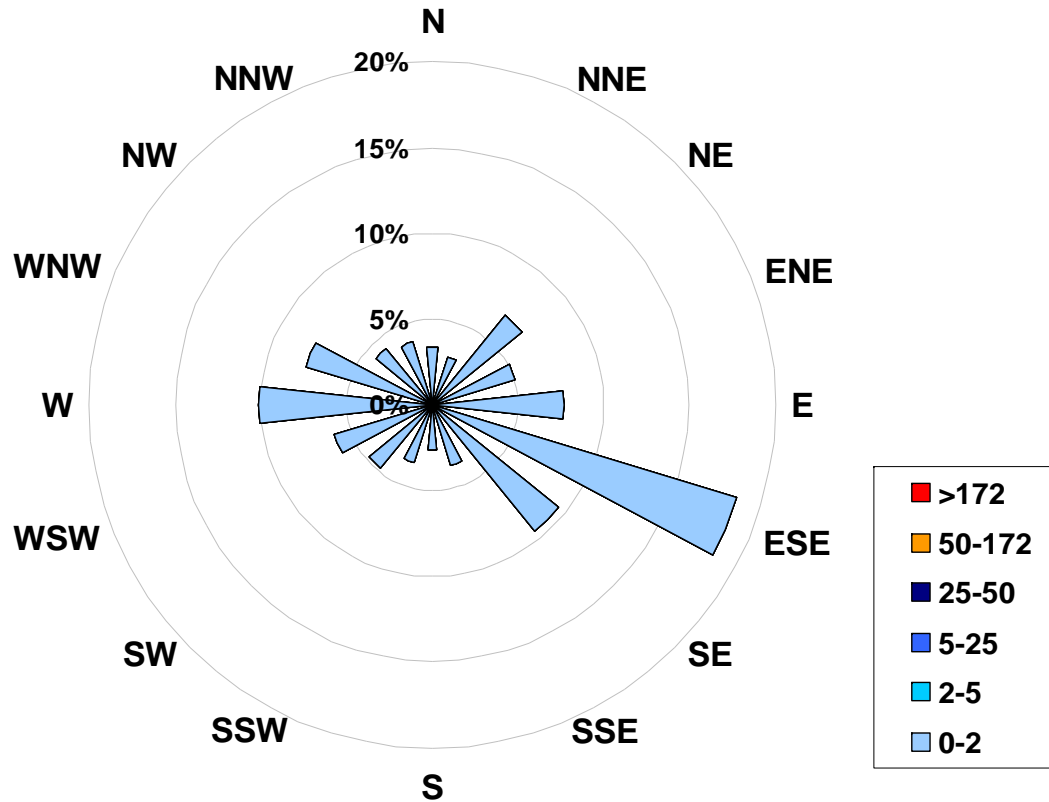


Figure 47. PASZA - Portable-Falher Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of SO <sub>2</sub> in ppb			
Range		Frequency (hrs)	
0.0	< 2	682	
2	to 5	0	
5	to 25	0	
25	to 50	0	
50	to 172	0	
	> 172	0	
Total Non-Zero Values		682	

## PASZA - Portable-Falher - Nitrogen Dioxide Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

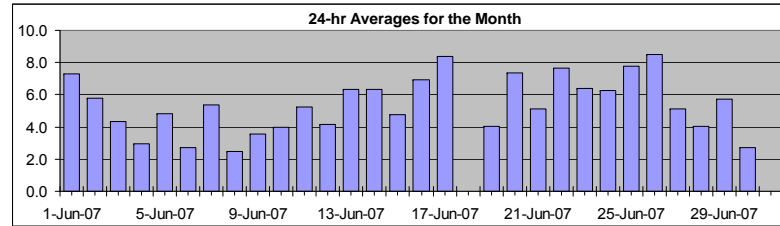
### Nitrogen Dioxide (NO<sub>2</sub>)

Monitoring Dates: June 1, 2007 to July 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:	24.6 ppb 22-Jun 22:00 23:00
Maximum 24-hr Average:	8.5 ppb 26-Jun

AIC Time:	32 hrs	Operational Time:	677 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	18.7	15.1	7.6	3.5	2.0	1.0	0.7	5.4 ppb	3.5 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-Jun-07	14	13	18	15	15	11	10	8	6	3	2	1	1	1	1	1	1	A	A	2	3	6	9	11	8	7.3	18.4
2-Jun-07	8	10	12	12	14	13	5	4	3	3	2	2	1	1	2	A	3	2	2	2	4	7	9	14	5.8	14.0	
3-Jun-07	10	7	7	8	9	12	4	2	2	2	1	1	1	1	A	2	1	1	1	2	5	7	6	4	4.3	12.4	
4-Jun-07	4	5	4	5	5	3	2	2	2	2	2	2	1	2	2	1	1	2	2	3	3	3	7	7	3.0	7.1	
5-Jun-07	9	8	8	A	13	15	9	4	5	4	3	3	2	2	2	2	2	2	2	1	2	4	4	4	3	4.8	14.8
6-Jun-07	2	3	A	5	5	5	4	3	2	1	1	1	1	1	1	1	1	1	1	1	3	5	10	9	2.7	9.7	
7-Jun-07	9	A	17	17	13	12	8	5	3	2	2	1	1	2	1	1	2	2	4	3	3	6	4	4	5.4	17.1	
8-Jun-07	A	8	6	6	6	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1	4	4	3	A	2.5	7.5	
9-Jun-07	9	10	12	10	7	4	3	3	2	1	1	1	1	1	1	1	1	1	1	1	3	3	A	A	6	3.6	12.2
10-Jun-07	5	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	4	3	3	3	8	A	6	8	4.0	8.3
11-Jun-07	10	8	10	9	9	6	4	3	3	3	3	2	2	2	2	1	1	1	1	2	3	A	17	14	6	5.3	17.0
12-Jun-07	5	7	8	6	6	6	4	2	2	2	2	2	2	2	1	1	2	2	2	2	A	8	10	6	7	4.2	10.5
13-Jun-07	11	16	13	12	8	5	4	3	2	2	3	2	2	2	1	1	1	1	2	A	5	8	17	13	10	6.3	16.6
14-Jun-07	15	14	14	13	10	9	7	6	6	3	3	3	2	1	2	3	3	A	3	3	5	6	7	7	7	6.3	14.6
15-Jun-07	6	6	7	10	8	5	3	2	2	2	2	2	2	2	2	2	A	6	4	4	3	5	10	15	4.8	14.6	
16-Jun-07	14	15	14	11	10	9	4	3	3	2	2	2	1	1	1	A	4	4	4	4	7	15	15	15	6.9	15.2	
17-Jun-07	17	15	16	15	15	14	11	8	5	3	2	2	1	1	A	3	2	2	2	4	5	10	11	16	15	8.4	17.4
18-Jun-07	16	16	14	14	13	11	6	4	3	4	3	C	C	C	C	C	C	A	4	3	3	3	4	3	N	16.4	
19-Jun-07	3	3	5	A	5	3	3	2	2	2	2	2	2	2	2	3	3	3	3	3	4	9	6	14	9	4.0	13.8
20-Jun-07	10	15	14	A	13	11	9	5	4	3	3	3	3	3	3	3	3	3	4	6	13	15	13	12	7.4	14.9	
21-Jun-07	14	14	A	6	4	4	3	3	4	4	2	2	2	2	2	2	2	2	2	2	4	10	20	8	5.1	20.2	
22-Jun-07	19	A	15	11	10	8	6	4	4	2	3	3	3	2	2	2	2	2	2	3	9	21	25	19	7.7	24.6	
23-Jun-07	A	21	18	16	15	12	8	4	3	2	2	2	1	1	1	1	1	1	1	2	4	14	9	A	6.4	21.1	
24-Jun-07	17	15	13	12	12	10	5	3	3	3	2	2	2	2	2	2	3	3	3	4	5	6	A	16	6.3	16.6	
25-Jun-07	11	13	16	15	15	10	6	5	5	4	3	2	2	2	2	2	2	3	5	6	9	A	21	18	7.8	20.8	
26-Jun-07	16	16	13	16	13	10	4	2	2	2	C	C	C	C	C	C	2	1	2	2	3	11	17	18	13	8.5	17.7
27-Jun-07	11	10	8	A	10	7	4	4	4	4	3	3	3	3	3	3	3	3	3	3	4	8	8	4	5.1	11.1	
28-Jun-07	5	4	A	7	7	4	4	4	4	3	3	3	3	3	3	3	3	3	3	4	4	3	4	7	4.0	7.4	
29-Jun-07	7	A	11	14	13	10	6	6	4	4	4	4	4	4	3	3	3	3	3	4	6	5	5	7	5.7	13.6	
30-Jun-07	A	10	4	4	4	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	A	2.7	9.6	
Hourly Avg	10.3	10.5	11.2	10.5	9.7	8.1	5.2	3.7	3.1	2.6	2.3	2.0	1.8	1.7	1.8	2.0	2.2	2.3	2.6	3.2	5.8	8.6	10.0	9.4			
Hourly Max	19.4	21.1	18.4	16.7	15.4	14.8	11.4	8.0	6.3	4.2	4.2	3.6	3.6	3.3	3.4	3.4	4.3	5.8	5.1	6.4	12.8	20.8	24.6	19.5			

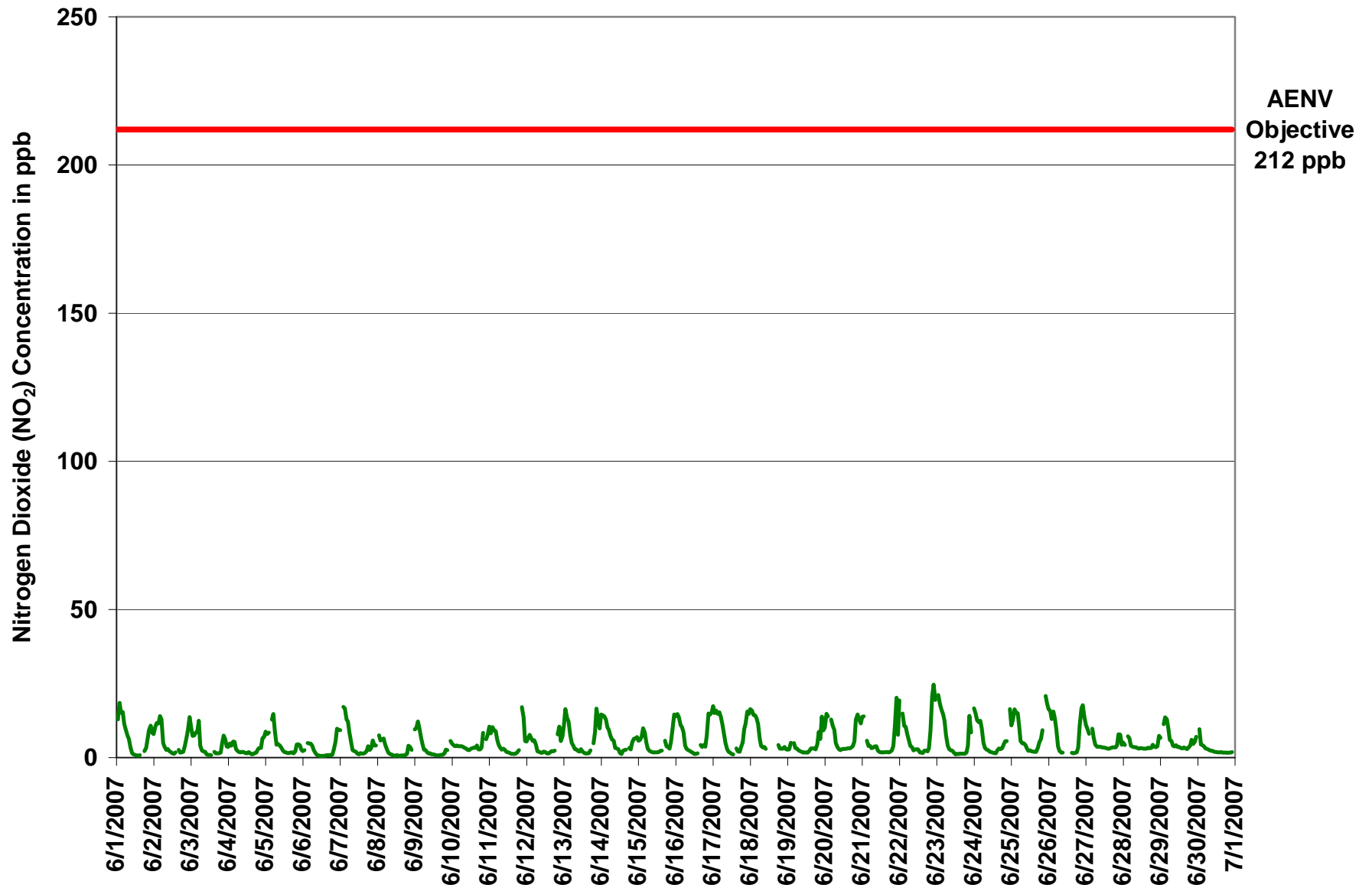


Figure 48. PASZA - Portable-Falher Nitrogen Dioxide 1-hr Average Monthly Trend

Station: Portable-Falher  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

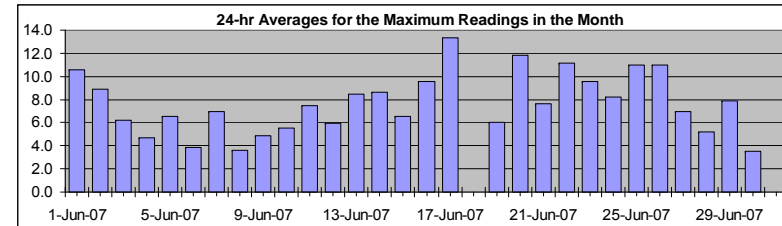
**Nitrogen Dioxide (NO<sub>2</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	35.5	ppb	22-Jun	22:00 23:00
Maximum 24-hr Value:	13.3	ppb	17-Jun	

AIC Time:	32 hrs	Operational Time:	677 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	26.5	20.3	11.6	4.7	2.8	1.5	0.9	7.7 ppb	4.7 ppb



**Status Flag Characters**

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

**Day Mountain Standard Time**

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-Jun-07	19	18	22	20	19	15	12	9	8	6	3	2	1	1	1	A	A	3	4	10	17	19	21	10.5	21.5	
2-Jun-07	16	15	16	15	17	16	7	6	4	4	3	3	3	2	5	A	5	2	3	3	6	9	20	26	8.9	25.9
3-Jun-07	19	10	9	13	12	15	9	4	4	2	2	1	1	1	A	3	2	2	2	3	8	8	8	5	6.2	19.4
4-Jun-07	5	9	8	9	10	6	3	2	2	3	2	2	2	2	2	2	2	2	2	5	5	4	13	10	4.7	13.2
5-Jun-07	19	11	10	A	17	17	14	5	5	5	4	3	3	3	2	2	2	2	3	5	6	5	4	6.5	18.9	
6-Jun-07	3	3	A	7	6	6	5	4	2	1	1	1	1	1	1	1	1	1	1	7	7	14	12	3.8	13.9	
7-Jun-07	12	A	22	21	16	14	13	6	4	3	3	2	2	2	2	2	3	3	5	4	4	7	6	5	7.0	21.6
8-Jun-07	A	9	7	8	8	5	4	2	2	1	1	1	1	1	1	1	1	1	2	11	7	4	A	3.6	10.5	
9-Jun-07	11	13	14	14	8	6	4	4	2	2	2	2	1	1	1	1	1	1	2	2	4	4	A	8	4.8	14.3
10-Jun-07	6	5	5	6	5	5	5	4	4	4	3	3	4	4	4	5	6	4	4	5	14	A	8	12	5.5	14.0
11-Jun-07	14	13	16	11	13	9	7	5	4	4	4	3	3	2	2	2	2	2	4	4	A	20	21	7	7.5	21.1
12-Jun-07	7	12	16	9	8	8	6	3	2	2	2	3	3	2	2	4	3	3	3	A	11	15	7	8	5.9	15.7
13-Jun-07	17	21	18	14	9	7	5	4	3	3	3	4	3	2	3	2	2	4	A	7	15	19	16	12	8.4	20.7
14-Jun-07	18	17	16	15	14	12	9	8	8	4	5	7	2	2	4	4	4	A	5	4	9	11	11	9	8.6	17.8
15-Jun-07	6	7	8	12	12	6	5	3	3	3	3	3	3	3	3	A	A	8	6	5	4	7	17	20	6.5	20.4
16-Jun-07	18	17	15	15	12	13	6	4	4	3	3	3	2	3	3	A	7	5	6	6	12	21	20	22	9.6	22.4
17-Jun-07	26	17	20	17	17	16	13	10	7	4	3	12	3	2	A	5	3	2	6	9	23	35	35	20	13.3	35.1
18-Jun-07	23	19	17	18	17	13	10	5	4	4	4	C	C	C	C	C	C	A	8	4	4	4	4	4	N	22.8
19-Jun-07	4	4	13	A	7	4	6	3	3	3	2	2	2	2	4	5	4	5	4	8	14	9	20	12	6.1	20.2
20-Jun-07	17	25	16	A	18	14	12	7	5	4	3	4	4	4	4	21	10	14	7	10	19	16	17	20	11.8	25.1
21-Jun-07	20	20	A	8	5	6	4	4	5	5	3	2	2	2	2	2	2	2	2	3	9	24	29	12	7.6	28.9
22-Jun-07	25	A	18	14	14	11	21	5	5	3	4	3	4	2	2	2	4	4	3	5	18	28	35	25	11.2	35.5
23-Jun-07	A	26	26	19	19	15	14	5	4	3	3	2	2	2	2	2	2	3	2	3	10	20	27	A	9.5	26.5
24-Jun-07	18	19	17	14	14	13	7	4	3	3	2	3	3	2	2	4	4	4	5	5	7	11	A	24	8.2	24.1
25-Jun-07	17	19	20	19	20	14	7	6	6	6	4	3	5	3	2	3	3	5	8	10	18	A	27	28	11.0	28.4
26-Jun-07	21	20	16	19	17	13	5	3	2	2	C	C	C	C	C	3	2	2	2	7	17	21	20	16	11.0	21.2
27-Jun-07	17	12	14	A	12	9	6	4	4	4	4	4	4	4	4	4	4	4	4	4	6	13	12	7	7.0	16.9
28-Jun-07	7	7	A	10	9	5	4	4	5	4	4	4	4	4	4	4	4	4	4	6	5	4	5	9	5.2	9.8
29-Jun-07	8	A	14	20	15	12	8	6	5	6	5	5	5	5	5	5	6	4	4	5	11	8	7	13	7.9	19.6
30-Jun-07	A	20	5	5	4	4	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	A	3.5	20.0
Hourly Avg	14.5	14.4	14.6	13.5	12.4	10.2	7.8	4.8	4.0	3.5	3.1	3.2	2.6	2.4	2.7	3.5	3.4	3.7	3.8	4.8	10.0	12.8	15.3	13.8		
Hourly Max	25.9	26.4	25.7	21.4	20.1	17.0	21.2	10.4	8.3	6.3	5.2	12.0	4.9	4.5	5.1	21.5	9.8	14.1	7.9	10.0	23.1	35.1	35.5	28.4		

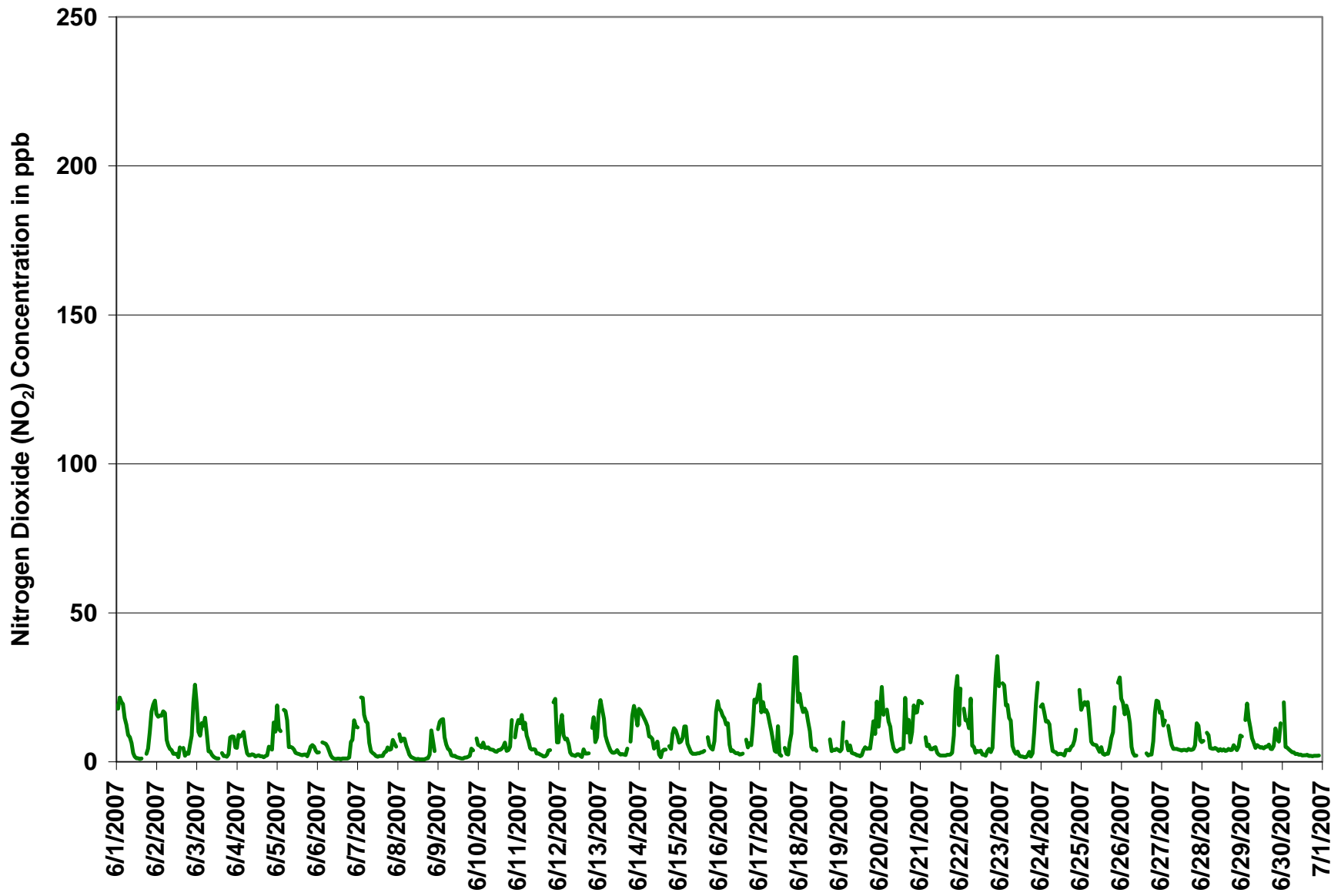
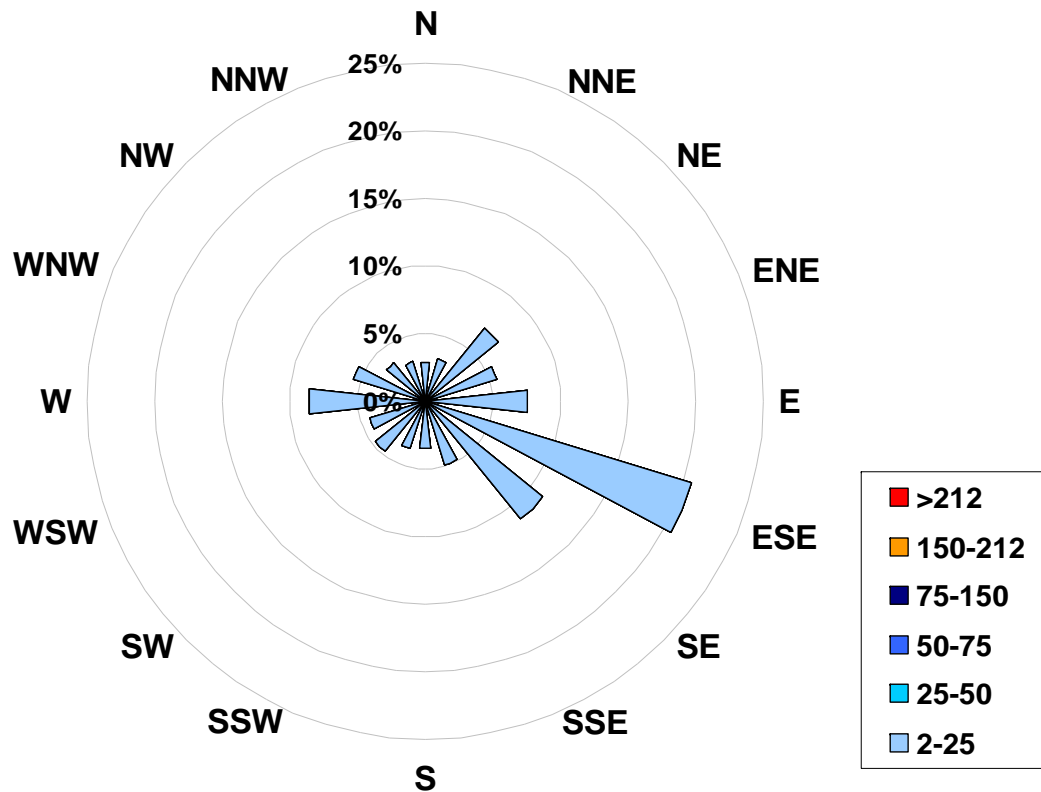


Figure 49. PASZA - Portable-Falher Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



**Calms: 0%**

Frequency Distribution of NO <sub>2</sub> in ppb			Frequency (hrs)
Range			
2.0	< 25		663
25	to 50		13
50	to 75		1
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			677

# PASZA - Portable-Falher - Nitric Oxide Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

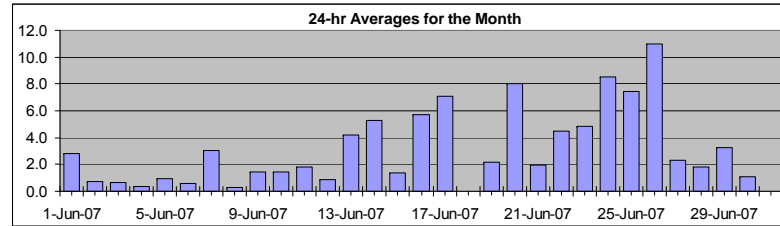
## Nitric Oxide (NO)

Monitoring Dates: June 1, 2007 to July 1, 2007

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

Maximum 1-hr Average:	51.0	ppb	25-Jun	23:00 0:00
Maximum 24-hr Average:	11.0	ppb	26-Jun	

AIC Time:	32 hrs	Operational Time:	677 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	30.3	16.8	2.5	1.2	0.5	0.1	0.0	3.4 ppb	1.2 ppb



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start Hour End	0:00 1:00	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-Jun-07	1	1	2	11	17	17	3	3	2	1	0	0	0	0	0	0	A	A	0	0	1	1	1	1	2.8	17.5	
2-Jun-07	0	1	1	2	1	3	1	1	0	0	0	0	0	0	1	A	0	0	0	0	0	1	1	3	0.7	3.1	
3-Jun-07	1	1	0	0	1	6	1	1	1	0	0	0	0	0	A	0	0	0	0	0	1	1	1	1	0.7	6.0	
4-Jun-07	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	0.6	
5-Jun-07	1	1	1	A	2	8	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1.0	7.6	
6-Jun-07	0	0	A	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.5	1.1	
7-Jun-07	0	A	6	18	19	15	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3.1	19.0	
8-Jun-07	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	0.3	0.9	
9-Jun-07	2	3	9	6	2	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	A	1	1.5	8.7	
10-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	2	4	A	2	3	1.5	3.6	
11-Jun-07	6	3	4	4	5	3	2	1	1	1	1	0	0	0	0	0	0	0	0	0	A	3	4	1	1.8	6.5	
12-Jun-07	1	1	3	2	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	A	2	2	1	1	0.9	3.0	
13-Jun-07	2	23	13	10	3	1	1	1	1	1	1	1	1	1	1	0	0	1	A	2	4	15	11	4	4.2	23.1	
14-Jun-07	14	15	15	14	29	12	6	3	3	1	1	1	1	0	1	1	2	A	0	0	0	1	1	1	5.3	28.9	
15-Jun-07	0	0	1	2	3	1	1	1	1	1	1	0	1	1	2	2	A	1	0	1	1	2	4	6	1.4	5.6	
16-Jun-07	15	8	15	12	8	6	3	2	2	2	1	2	1	1	1	A	2	2	3	2	5	6	9	23	5.7	22.6	
17-Jun-07	24	27	22	23	11	6	7	5	3	1	1	1	0	0	A	0	0	0	1	3	3	7	8	9	7.1	26.8	
18-Jun-07	18	28	30	17	9	6	2	2	1	2	1	C	C	C	C	C	A	1	1	1	1	1	2	2	N	30.5	
19-Jun-07	2	2	2	A	3	2	2	2	2	1	1	2	1	1	2	2	2	2	2	3	3	2	8	2	2.2	8.3	
20-Jun-07	12	18	19	A	35	30	10	4	3	2	1	2	2	2	2	2	2	2	2	3	8	11	8	5	8.0	34.7	
21-Jun-07	9	7	A	2	1	2	1	1	1	2	2	1	1	1	1	1	1	1	1	1	0	1	8	1	2.0	9.0	
22-Jun-07	11	A	7	8	10	5	3	3	3	1	1	1	1	1	0	1	1	1	1	1	2	11	15	17	4.5	16.7	
23-Jun-07	A	21	16	11	23	10	4	3	2	1	1	0	0	0	0	1	1	1	1	1	1	1	7	3	A	4.8	22.9
24-Jun-07	18	37	44	30	18	16	6	4	2	2	1	1	1	1	1	1	1	1	1	1	2	2	A	6	8.5	43.5	
25-Jun-07	4	7	15	15	18	10	4	3	3	2	1	1	1	0	0	0	0	1	3	3	3	A	26	51	7.5	51.0	
26-Jun-07	36	25	50	23	8	11	5	3	1	1	C	C	C	C	C	1	0	0	0	2	6	13	17	7	11.0	49.9	
27-Jun-07	6	5	5	A	5	4	3	2	2	2	2	2	1	1	1	1	2	1	1	1	1	2	2	1	2.3	6.2	
28-Jun-07	1	2	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	1	1	1	2	1.8	2.3	
29-Jun-07	2	A	3	7	17	9	5	3	2	2	2	2	2	2	1	2	2	1	2	2	2	1	2	3	3.2	17.2	
30-Jun-07	A	3	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	A	1.1	2.6	
Hourly Avg	7.0	8.9	10.5	8.5	8.4	6.4	2.9	1.9	1.5	1.1	0.9	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.9	1.1	1.9	3.5	4.9	5.5			
Hourly Max	35.7	37.2	49.9	30.2	34.7	29.7	10.1	4.9	3.1	2.0	2.5	2.0	1.9	2.1	2.2	2.3	2.2	2.4	2.9	3.1	7.6	15.0	26.5	51.0			

Station: Portable-Falher  
 Station Owner: PASZA

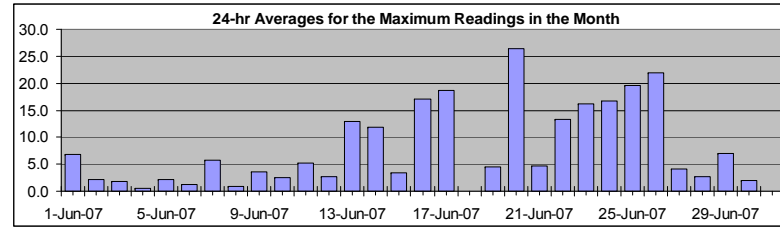
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Nitric Oxide (NO)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	158.1	ppb	25-Jun	23:00 0:00
Maximum 24-hr Value:	26.5	ppb	20-Jun	



AIC Time:	32 hrs	Operational Time:	677 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	89.4	44.1	5.1	2.2	1.0	0.4	0.3	8.3 ppb	2.2 ppb

**Status Flag Characters**

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

**Day Mountain Standard Time**

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jun-07	5	9	11	29	29	34	6	4	3	2	1	0	0	0	0	A	A	0	1	1	4	4	7	6.8	33.6	
2-Jun-07	1	1	2	6	4	7	1	1	1	1	1	0	1	0	3	A	0	0	0	0	1	2	3	13	2.2	12.5
3-Jun-07	5	2	1	3	5	11	3	1	1	0	0	0	0	0	A	0	0	0	0	1	2	1	1	1	1.7	10.7
4-Jun-07	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0.6	0.9
5-Jun-07	1	1	1	A	7	18	7	2	2	1	1	0	1	0	0	1	1	1	0	1	0	1	1	1	2.1	17.8
6-Jun-07	1	1	A	2	2	2	2	1	1	1	1	0	1	1	1	0	0	1	0	1	2	2	5	3	1.2	4.8
7-Jun-07	3	A	23	32	24	27	9	3	1	1	1	0	0	0	0	0	2	0	1	1	1	1	1	1	5.8	32.2
8-Jun-07	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	5	2	1	A	A	0.8	5.0
9-Jun-07	3	17	20	22	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	A	1	3.6	22.1
10-Jun-07	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2	3	9	A	2	7	2.6	8.8
11-Jun-07	21	15	15	7	12	5	3	2	2	2	2	1	1	1	1	1	1	2	1	1	A	6	14	1	5.1	21.4
12-Jun-07	1	12	17	4	3	1	1	1	1	1	1	1	1	1	0	3	1	1	1	A	4	6	1	1	2.7	16.6
13-Jun-07	13	74	34	19	5	2	2	2	1	1	2	2	2	2	2	1	1	2	A	3	11	52	59	7	13.0	74.3
14-Jun-07	34	31	31	45	48	33	9	7	5	3	4	5	1	0	3	3	3	A	2	1	2	2	1	1	11.9	47.9
15-Jun-07	0	1	1	5	5	2	2	2	2	2	2	3	2	2	3	2	A	2	1	2	1	3	10	25	3.5	25.0
16-Jun-07	54	23	39	19	15	14	4	3	3	3	2	2	2	3	3	A	5	5	5	5	8	18	68	87	17.0	86.7
17-Jun-07	105	81	38	46	24	20	8	8	4	2	3	5	2	1	A	2	0	0	4	5	6	18	17	31	18.8	105.3
18-Jun-07	57	60	60	32	13	9	7	2	2	3	2	C	C	C	C	C	A	2	1	2	2	3	3	3	N	60.0
19-Jun-07	3	3	9	A	4	4	7	2	2	2	2	2	2	2	4	3	4	4	3	4	7	3	25	3	4.4	24.7
20-Jun-07	126	139	49	A	80	62	16	8	4	3	2	3	3	3	3	19	5	7	4	6	13	14	26	14	26.5	139.3
21-Jun-07	18	15	A	2	2	2	2	2	2	3	3	2	1	1	1	1	1	1	1	1	1	17	27	2	4.7	27.0
22-Jun-07	19	A	10	12	12	9	22	4	4	2	2	2	1	1	2	1	1	1	1	1	5	28	99	63	13.3	99.0
23-Jun-07	A	56	62	28	96	15	10	4	4	1	3	1	1	1	1	1	1	2	1	1	3	18	44	A	16.1	96.1
24-Jun-07	49	77	87	48	36	23	12	5	3	2	2	2	2	2	2	4	2	2	2	2	3	4	A	14	16.6	87.3
25-Jun-07	7	26	29	29	32	12	8	5	5	4	2	2	2	1	1	1	1	2	5	7	9	A	103	158	19.6	158.1
26-Jun-07	75	47	76	66	18	24	6	4	2	1	C	C	C	C	C	2	1	1	1	6	12	25	35	12	21.9	75.9
27-Jun-07	14	7	14	A	7	5	4	3	3	2	2	2	2	2	2	3	2	2	2	2	2	3	3	3	4.1	14.3
28-Jun-07	3	2	A	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	3	2.7	3.5
29-Jun-07	3	A	6	38	36	13	7	5	3	3	4	3	3	3	3	3	3	2	3	3	3	2	3	6	6.9	37.8
30-Jun-07	A	9	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	1	1	1	0	1	1	A	2.0	8.9
Hourly Avg	23.1	26.4	23.7	19.3	17.6	12.1	5.6	3.0	2.4	1.8	1.8	1.7	1.5	1.3	1.7	2.2	1.6	1.7	1.7	2.2	4.0	8.5	20.1	17.3		
Hourly Max	125.7	139.3	87.3	65.6	96.1	62.3	21.9	8.2	5.2	3.9	4.3	5.2	3.1	3.4	4.0	18.8	5.1	7.5	5.1	7.2	12.7	52.1	103.1	158.1		

# PASZA - Portable-Falher - Oxides of Nitrogen Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

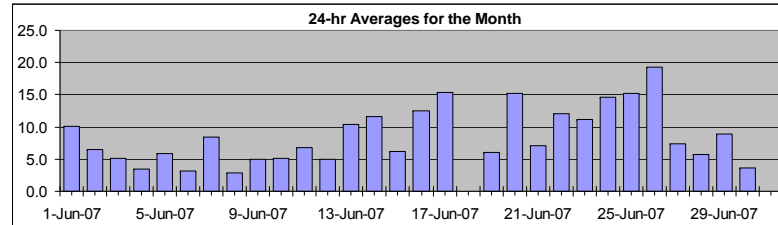
## Oxides of Nitrogen (NO<sub>x</sub>)

Monitoring Dates: June 1, 2007 to July 1, 2007

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

Maximum 1-hr Average:	68.8	ppb	25-Jun	23:00 0:00
Maximum 24-hr Average:	19.3	ppb	26-Jun	

AIC Time:	32 hrs	Operational Time:	677 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	45.4	31.7	9.6	4.8	2.7	1.3	0.8	8.7 ppb	4.8 ppb



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	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-Jun-07	15	14	20	26	32	29	13	10	8	4	2	1	1	1	1	1	A	A	2	4	7	10	12	9		10.1	32.1	
2-Jun-07	8	11	12	13	15	16	6	4	3	3	2	2	2	1	2	A	3	2	2	2	4	7	10	17		6.5	16.8	
3-Jun-07	12	8	8	9	10	18	5	3	3	2	1	1	1	1	A	2	2	2	2	2	6	9	7	4		5.1	18.4	
4-Jun-07	4	5	5	6	6	3	3	3	2	3	2	2	2	2	2	2	1	2	2	2	3	4	4	7	8		3.4	7.8
5-Jun-07	10	9	10	A	15	22	12	5	6	5	4	3	2	2	2	2	2	2	2	2	5	5	5	3		5.8	22.4	
6-Jun-07	3	3	A	6	6	6	5	3	2	1	1	1	1	1	1	1	1	1	1	1	4	6	11	10		3.2	10.8	
7-Jun-07	10	A	23	35	32	27	14	7	3	3	2	1	1	2	1	1	2	2	4	3	4	7	5	4		8.4	34.8	
8-Jun-07	A	8	6	7	7	5	4	2	1	1	1	1	1	1	1	1	1	1	1	1	4	4	3	A		2.8	8.1	
9-Jun-07	11	13	21	16	8	6	3	3	2	2	2	1	2	1	1	1	1	1	2	2	4	4	A	7		5.0	20.9	
10-Jun-07	6	5	5	5	5	5	5	5	4	4	4	4	4	4	5	4	5	4	4	5	11	A	7	11		5.2	11.4	
11-Jun-07	17	11	14	13	13	8	6	4	3	4	3	2	2	2	1	1	1	2	2	3	A	20	17	6		6.9	20.3	
12-Jun-07	6	8	11	9	7	7	5	2	2	2	2	2	2	2	1	2	2	2	2	A	10	12	7	8		5.0	12.3	
13-Jun-07	13	39	26	22	10	6	5	4	4	3	3	4	3	2	2	2	2	4	A	7	12	31	24	14		10.5	39.3	
14-Jun-07	29	29	28	27	39	21	13	9	9	5	4	4	2	1	3	4	4	A	4	3	6	7	7	8		11.6	39.1	
15-Jun-07	6	6	8	12	11	7	4	3	3	2	3	2	3	3	4	4	A	6	4	4	4	7	15	20		6.1	20.0	
16-Jun-07	28	23	28	22	18	15	7	5	4	4	3	3	2	3	3	A	6	6	7	6	12	21	23	38		12.5	37.7	
17-Jun-07	41	42	38	38	26	20	18	13	8	4	3	2	2	1	A	3	2	2	5	8	13	19	23	23		15.4	41.7	
18-Jun-07	35	44	45	31	22	17	9	5	5	4	C	C	C	C	C	C	C	A	5	3	4	4	5	4		N	44.9	
19-Jun-07	4	4	7	A	8	5	5	4	4	3	3	3	3	3	4	5	5	5	5	5	7	12	8	22	11		6.1	22.0
20-Jun-07	22	33	33	A	47	40	19	9	6	4	4	4	5	4	5	5	5	6	6	8	20	26	22	16		15.3	47.4	
21-Jun-07	23	21	A	7	5	5	4	5	5	6	4	3	2	2	2	2	2	2	3	3	4	12	28	8		7.0	28.5	
22-Jun-07	30	A	22	18	20	13	9	6	6	4	4	4	4	2	2	2	3	3	3	4	11	32	39	36		12.1	39.4	
23-Jun-07	A	42	33	27	37	23	11	7	5	3	2	1	2	2	2	2	2	2	2	2	5	21	11	A		11.1	41.6	
24-Jun-07	34	52	56	42	30	26	11	7	5	4	3	3	2	2	2	4	4	4	4	6	7	7	A	22		14.6	55.9	
25-Jun-07	15	19	31	30	33	20	10	8	8	6	4	3	3	2	2	2	2	4	8	9	13	A	47	69		15.1	68.8	
26-Jun-07	52	41	63	38	21	20	9	5	3	3	C	C	C	C	C	2	2	2	2	5	16	30	34	20		19.3	62.6	
27-Jun-07	17	15	13	A	15	10	7	6	6	5	5	5	5	5	4	4	5	5	5	4	5	9	9	6		7.4	17.2	
28-Jun-07	7	6	A	9	8	6	6	5	6	5	5	5	5	5	5	5	5	5	5	6	5	5	5	10		5.7	9.7	
29-Jun-07	9	A	14	20	30	18	11	9	6	5	7	5	5	5	4	5	5	4	5	6	8	6	7	10		8.8	30.0	
30-Jun-07	A	12	6	5	5	4	4	4	3	3	3	3	3	3	3	3	3	2	2	2	1	2	3	A		3.6	12.1	
Hourly Avg	17.2	19.4	21.7	19.0	18.1	14.3	8.1	5.6	4.5	3.6	3.1	2.7	2.5	2.3	2.5	2.7	2.9	3.0	3.4	4.2	7.6	12.0	14.9	14.9				
Hourly Max	51.9	51.9	62.6	42.0	47.4	40.5	19.2	12.7	8.7	6.2	6.6	5.4	5.0	4.9	4.9	5.4	6.4	6.5	7.7	9.4	20.3	31.7	47.1	68.8				

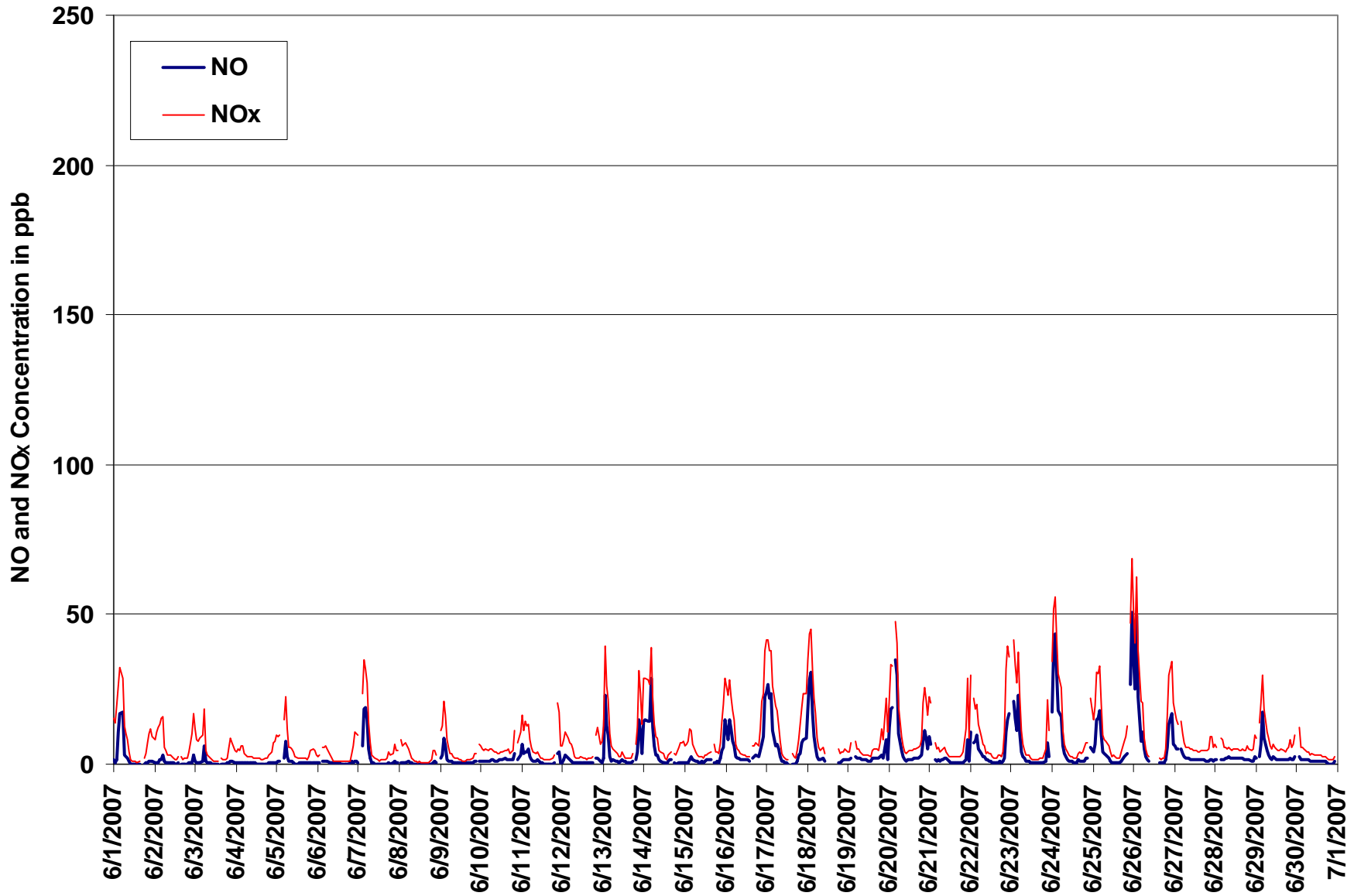


Figure 50. PASZA - Portable-Falher Oxides of Nitrogen 1-hr Average Monthly Trend

Station: Portable-Falher  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

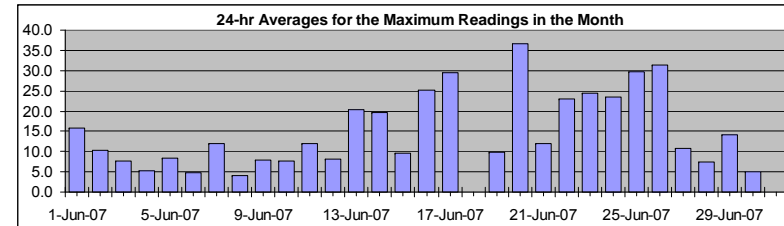
**Oxides of Nitrogen (NO<sub>x</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	185.3	ppb	25-Jun	23:00 0:00
Maximum 24-hr Value:	36.7	ppb	20-Jun	

AIC Time:	32 hrs	Operational Time:	677 hrs						
Calibration Time:	11 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	105.7	56.3	15.8	6.9	4.0	1.9	1.1	15.1 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	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-Jun-07	21	25	27	41	44	42	18	13	11	8	3	2	1	1	1	A	A	3	5	11	20	20	27	15.7	44.0	
2-Jun-07	17	16	17	21	18	21	8	7	5	5	3	3	3	2	7	A	5	2	3	3	7	10	22	32	10.2	32.2
3-Jun-07	24	10	10	16	16	25	12	4	5	3	2	2	1	1	A	3	2	2	2	3	9	10	10	6	7.7	25.1
4-Jun-07	5	10	9	10	11	7	4	3	3	3	3	2	2	3	2	2	2	2	3	6	5	5	14	11	5.2	14.0
5-Jun-07	20	12	12	A	24	34	21	6	6	6	5	3	3	3	2	2	3	2	4	5	6	6	4	4	8.4	33.8
6-Jun-07	3	4	A	8	8	8	6	5	3	2	2	1	1	1	1	1	1	1	1	2	9	9	16	14	4.7	16.2
7-Jun-07	13	A	40	47	38	39	22	9	4	4	3	2	2	2	2	2	5	3	6	5	5	9	7	6	11.9	47.1
8-Jun-07	A	10	8	8	8	6	5	3	2	1	1	1	1	1	1	1	1	1	1	3	15	9	4	A	4.1	14.7
9-Jun-07	13	28	33	34	10	7	6	5	3	3	3	2	2	2	2	2	2	2	3	6	5	A	9	8.0	33.8	
10-Jun-07	7	7	6	8	6	7	7	6	6	5	5	5	5	6	6	7	8	5	5	7	22	A	10	19	7.6	21.8
11-Jun-07	34	26	29	18	24	13	9	6	6	6	6	3	4	3	3	2	2	4	5	4	A	25	34	7	11.9	34.2
12-Jun-07	7	23	32	12	10	9	7	4	3	2	2	3	3	3	2	7	3	3	3	A	14	20	7	9	8.3	32.1
13-Jun-07	30	87	48	32	13	8	7	5	4	4	4	6	4	4	4	3	3	6	A	9	26	67	74	19	20.3	86.9
14-Jun-07	49	47	44	55	58	43	17	15	12	7	9	11	4	2	6	7	7	A	6	5	11	14	12	10	19.5	57.9
15-Jun-07	7	7	9	16	16	8	6	5	4	4	5	5	5	5	6	6	A	9	7	6	5	10	25	44	9.6	44.4
16-Jun-07	66	37	52	32	25	26	10	6	7	6	5	5	4	4	5	A	11	10	11	10	19	39	85	105	25.2	105.5
17-Jun-07	118	93	54	58	40	33	19	18	11	5	5	17	4	2	A	6	3	3	9	14	27	46	45	50	29.5	117.5
18-Jun-07	74	76	73	46	29	21	17	7	6	7	5	C	C	C	C	C	C	A	9	4	5	6	7	6	N	76.4
19-Jun-07	6	6	21	A	9	8	12	5	5	4	4	4	3	4	8	8	7	8	7	12	18	11	41	14	9.8	40.8
20-Jun-07	140	150	61	A	92	74	27	15	8	6	5	7	7	7	8	40	15	21	11	16	31	30	42	33	36.7	150.1
21-Jun-07	37	34	A	10	7	8	6	6	7	7	6	4	3	3	3	3	3	3	3	4	10	41	55	13	11.9	54.6
22-Jun-07	42	A	26	25	25	19	43	10	9	5	6	5	5	4	4	3	4	6	4	6	23	56	111	87	22.9	110.9
23-Jun-07	A	79	81	46	106	28	24	9	7	4	7	3	2	2	2	2	3	6	3	4	14	38	70	A	24.5	106.5
24-Jun-07	61	90	96	59	47	35	19	8	7	5	4	4	5	3	3	7	5	6	7	7	10	14	A	38	23.5	96.1
25-Jun-07	24	44	48	44	52	25	14	11	10	9	6	5	7	3	3	3	3	6	12	15	27	A	124	185	29.7	185.3
26-Jun-07	91	61	87	80	34	37	11	7	4	3	C	C	C	C	C	5	3	3	3	13	28	44	55	27	31.4	90.5
27-Jun-07	30	19	27	A	18	13	9	8	7	7	7	6	6	6	6	6	7	6	6	6	7	15	15	10	10.7	30.0
28-Jun-07	10	9	A	12	11	7	8	7	8	7	6	7	6	7	7	6	7	6	6	8	7	5	7	12	7.5	11.8
29-Jun-07	11	A	20	51	48	23	14	10	8	9	9	8	8	7	9	8	9	6	7	8	14	9	10	18	14.1	50.8
30-Jun-07	A	27	7	6	6	5	5	5	4	5	4	4	4	4	4	4	3	3	3	3	2	2	3	A	5.1	26.9
Hourly Avg	35.6	38.4	36.2	30.6	28.4	21.3	13.1	7.6	6.1	5.1	4.6	4.6	3.8	3.4	4.1	5.5	4.7	5.1	5.2	6.7	13.5	20.5	33.2	30.2		
Hourly Max	139.7	150.1	96.1	79.8	106.5	74.3	42.8	17.6	12.2	9.2	8.9	17.1	7.5	7.0	8.7	40.0	14.9	21.2	11.8	15.8	30.6	66.6	124.3	185.3		

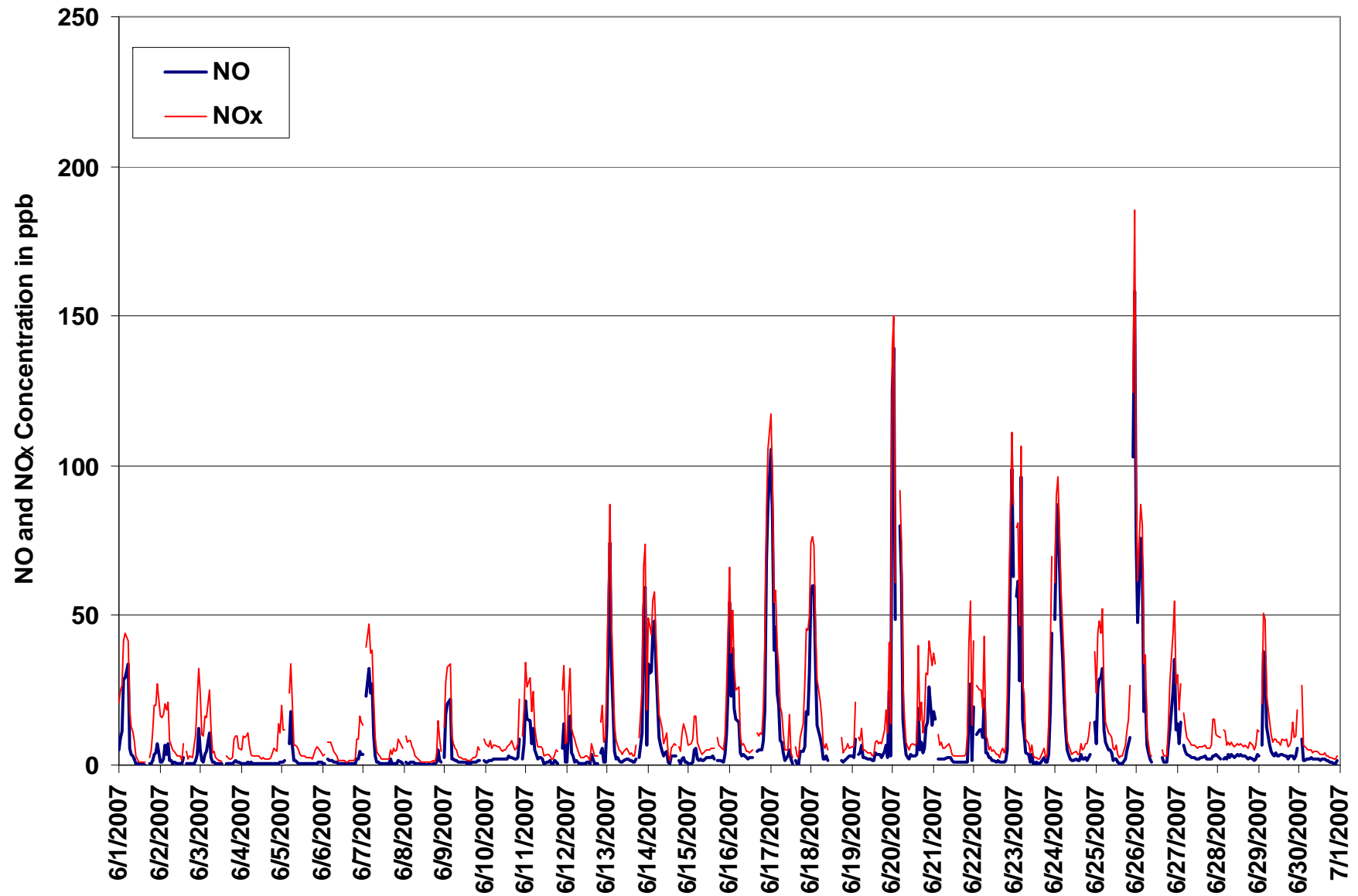


Figure 51. PASZA - Portable-Falher Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend

# PASZA - Portable-Falher - Ozone Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

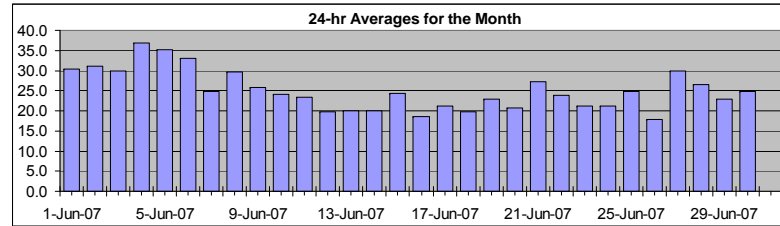
## Ozone (O<sub>3</sub>)

Monitoring Dates: June 1, 2007 to July 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:	52.7 ppb	1-Jun	13:00 14:00
Maximum 24-hr Average:	36.8 ppb	4-Jun	

AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	52.0	44.1	34.0	26.1	15.9	3.8	1.3	25.1 ppb	26.1 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	0:00		
1-Jun-07	13	11	5	4	2	3	18	24	32	42	50	52	53	53	53	52	52	52	49	A	23	18	16	25	30.4	52.7	
2-Jun-07	29	20	20	18	15	13	29	32	38	37	40	37	40	39	41	48	51	49	A	41	31	20	16	10	31.1	50.7	
3-Jun-07	13	14	15	14	13	9	27	32	34	39	42	43	43	44	45	46	44	A	42	39	27	16	18	24	29.8	45.6	
4-Jun-07	26	27	28	24	24	26	27	28	30	36	41	43	48	52	50	46	47	51	52	45	39	35	29	28	36.8	52.2	
5-Jun-07	25	23	19	A	13	8	20	30	35	42	49	51	48	49	47	43	41	40	40	40	49	39	27	29	35.1	51.5	
6-Jun-07	30	32	A	25	25	26	27	31	35	39	40	43	44	44	44	42	41	40	39	37	29	20	14	15	33.1	44.2	
7-Jun-07	15	A	3	1	1	4	13	25	33	32	37	40	42	44	45	45	38	31	24	26	22	15	18	17	24.9	45.5	
8-Jun-07	A	14	15	13	13	16	21	30	33	34	38	39	40	39	38	39	39	38	37	29	25	23	A	29.6	39.7		
9-Jun-07	11	9	5	7	14	19	22	24	28	31	32	34	33	35	36	37	36	35	35	33	28	27	A	25	25.9	36.7	
10-Jun-07	24	25	25	24	24	23	24	24	24	24	25	26	26	28	29	29	27	31	26	24	16	A	16	12	24.1	31.1	
11-Jun-07	6	10	8	6	8	12	14	18	21	25	30	34	38	38	39	39	40	40	38	34	A	9	11	19	23.3	40.4	
12-Jun-07	17	16	14	15	16	14	15	19	19	19	20	19	19	21	29	29	27	27	28	A	23	15	18	16	19.7	29.1	
13-Jun-07	11	3	5	3	7	12	14	18	20	23	26	28	33	36	37	38	40	37	A	33	17	4	5	11	19.9	39.7	
14-Jun-07	4	4	3	2	1	4	7	14	16	22	24	27	31	37	35	34	34	A	35	34	27	25	21	17	19.9	36.5	
15-Jun-07	18	16	12	7	9	17	24	28	29	32	33	34	34	35	35	32	A	28	29	30	30	25	14	7	24.2	35.4	
16-Jun-07	4	4	3	4	6	9	16	20	23	27	31	30	30	30	32	A	30	29	26	27	19	9	8	7	18.5	31.7	
17-Jun-07	3	2	1	1	4	6	9	16	23	31	33	34	37	40	A	43	43	44	36	28	25	15	10	7	21.3	43.6	
18-Jun-07	4	2	1	5	8	7	10	18	20	23	27	32	34	34	35	36	24	C	C	A	26	23	21	23	19.7	36.0	
19-Jun-07	22	21	15	A	15	22	22	27	29	31	27	27	28	27	27	26	27	27	30	27	18	15	6	11	22.9	30.9	
20-Jun-07	11	4	2	A	1	3	8	20	26	29	33	33	33	34	34	35	35	34	33	29	15	6	8	13	20.8	35.4	
21-Jun-07	7	9	A	21	25	27	30	30	25	24	32	35	34	32	34	38	38	37	37	35	29	18	10	24	27.3	37.9	
22-Jun-07	4	A	6	8	7	13	17	20	22	28	29	30	33	39	40	42	38	38	43	40	28	12	8	7	24.0	42.9	
23-Jun-07	A	4	6	5	5	7	14	22	25	25	25	28	32	32	33	33	31	31	30	28	23	10	18	A	21.3	33.2	
24-Jun-07	2	1	1	1	3	5	15	22	23	26	29	31	32	33	33	32	32	33	36	30	27	29	A	13	21.3	35.7	
25-Jun-07	16	11	4	5	6	13	20	21	26	31	35	41	43	43	44	43	41	39	32	27	22	A	6	4	24.9	43.6	
26-Jun-07	1	2	1	3	6	8	16	20	22	24	26	27	28	C	C	31	31	33	36	35	21	7	6	10	17.9	35.6	
27-Jun-07	10	10	10	A	10	13	17	20	26	31	36	39	40	41	41	42	43	44	43	41	38	31	27	32	29.8	44.1	
28-Jun-07	31	32	A	24	23	23	20	20	21	24	26	26	27	27	29	30	31	32	34	31	29	27	25	17	26.6	34.4	
29-Jun-07	17	A	11	9	3	7	14	17	24	28	25	26	32	37	39	40	39	29	22	21	19	25	24	23	23.0	39.9	
30-Jun-07	A	15	28	24	22	26	30	28	26	24	26	27	26	23	23	21	23	24	23	26	25	26	28	A	24.8	29.8	
Hourly Avg	13.9	12.7	9.9	10.6	10.9	13.2	18.8	23.3	26.2	29.4	32.2	33.9	35.3	36.8	37.3	37.6	36.7	36.0	34.7	32.5	25.9	19.4	16.2	16.5			
Hourly Max	31.0	32.4	27.9	25.3	24.7	27.2	30.1	32.1	38.3	42.4	49.7	51.7	52.5	52.7	52.6	52.1	52.4	52.1	52.0	45.2	48.9	39.3	29.3	32.1			



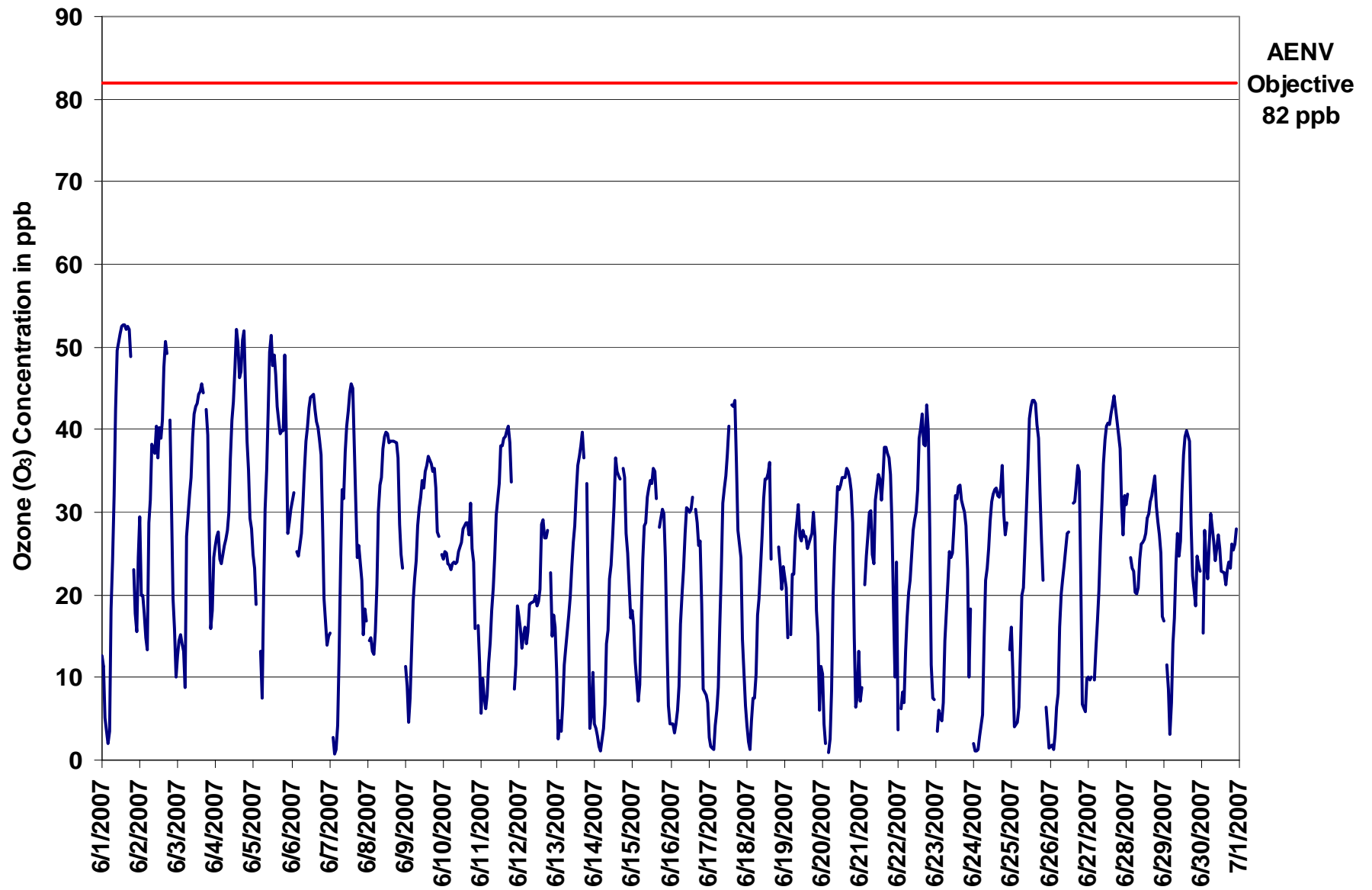


Figure 52. PASZA - Portable-Falher Ozone 1-hr Average Monthly Trend

Station: Portable-Falher  
 Station Owner: PASZA

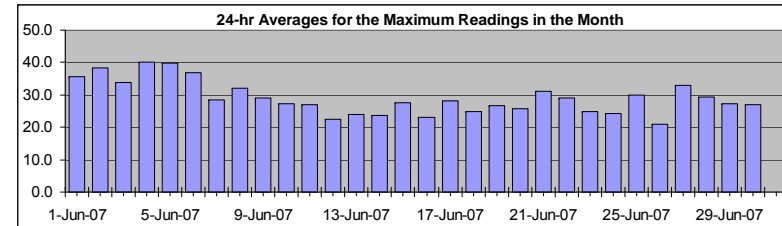
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Ozone (O<sub>3</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	55.6	ppb	4-Jun	14:00 15:00
Maximum 24-hr Value:	40.2	ppb	4-Jun	



AIC Time:	31 hrs	Operational Time:	685 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	54.8	47.1	37.1	29.3	20.5	9.1	2.8	29.1 ppb	29.3 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-Jun-07	18	17	10	14	10	12	22	29	40	49	52	54	55	55	54	54	55	55	53	A	30	24	22	36	35.7	55.0
2-Jun-07	40	26	31	40	25	26	34	37	47	42	43	42	43	41	48	51	53	53	A	46	39	27	23	23	38.3	53.4
3-Jun-07	18	18	18	20	17	15	32	35	37	43	44	45	45	46	47	47	47	A	46	44	36	23	27	28	33.8	47.4
4-Jun-07	28	30	30	26	26	28	29	29	35	41	44	47	52	55	56	51	51	55	55	54	42	38	33	32	40.2	55.6
5-Jun-07	32	30	25	A	18	13	30	33	40	47	53	54	52	51	51	46	44	42	43	48	55	47	32	32	39.9	54.9
6-Jun-07	34	36	A	31	28	29	32	34	39	41	43	45	46	46	46	45	43	42	41	40	36	23	21	22	36.7	46.4
7-Jun-07	21	A	7	2	3	8	20	30	35	36	41	42	44	46	47	48	44	37	27	28	27	19	20	19	28.4	48.0
8-Jun-07	A	17	16	15	15	18	26	35	35	36	41	41	41	41	40	40	40	40	40	39	36	27	27	A	32.1	41.3
9-Jun-07	16	16	11	14	17	22	24	27	31	33	36	35	35	37	39	39	37	37	37	36	31	30	A	28	29.0	38.8
10-Jun-07	26	28	28	27	26	26	26	25	26	26	26	28	28	31	32	32	35	36	28	27	25	A	19	17	27.2	36.1
11-Jun-07	12	19	16	9	13	18	17	20	24	28	34	37	41	40	40	41	41	42	41	38	A	12	20	20	27.1	41.7
12-Jun-07	19	20	18	18	18	17	19	20	20	20	21	20	21	25	34	31	29	28	32	A	28	21	19	18	22.6	34.3
13-Jun-07	16	12	14	7	10	14	16	19	23	25	28	32	36	38	39	40	42	41	A	39	28	7	9	16	24.0	41.5
14-Jun-07	11	6	6	4	3	8	9	18	19	26	29	35	35	39	39	38	37	A	38	38	32	29	23	21	23.5	39.3
15-Jun-07	21	18	14	12	15	19	29	31	31	34	35	36	36	37	38	35	A	35	33	34	32	30	21	12	27.7	38.0
16-Jun-07	11	10	8	9	9	14	18	23	27	30	33	32	32	32	34	A	34	32	32	29	26	18	17	16	22.9	34.1
17-Jun-07	9	4	5	3	11	11	13	21	28	34	35	38	39	43	A	45	44	46	45	34	39	40	42	15	28.1	45.7
18-Jun-07	11	7	4	20	23	13	14	23	23	27	32	35	36	36	38	39	36	C	C	A	28	25	22	27	24.7	38.7
19-Jun-07	24	24	18	A	18	24	28	30	33	34	32	28	29	30	31	28	29	30	32	31	26	19	14	17	26.6	34.4
20-Jun-07	21	13	9	A	2	5	13	25	28	33	35	35	35	36	37	38	37	36	35	34	27	9	23	24	25.7	37.5
21-Jun-07	13	16	A	26	27	29	32	32	30	26	35	36	37	34	38	39	39	39	39	37	34	25	26	30	31.3	39.4
22-Jun-07	9	A	10	12	12	18	22	24	26	31	32	34	36	43	42	43	43	44	45	45	37	21	19	19	28.9	45.2
23-Jun-07	A	10	11	8	12	17	20	26	27	26	29	31	34	33	34	35	33	32	31	30	28	16	22	A	24.7	34.9
24-Jun-07	4	1	1	1	4	10	22	23	25	28	31	33	34	35	36	35	33	35	41	35	32	35	A	20	24.1	40.7
25-Jun-07	19	17	11	8	13	22	22	25	30	34	41	44	45	46	46	45	43	42	38	31	29	A	17	20	29.9	46.2
26-Jun-07	3	5	2	5	10	13	19	22	23	25	27	29	30	C	C	33	33	36	38	38	34	14	12	13	21.1	38.4
27-Jun-07	13	13	14	A	13	16	20	23	30	34	38	41	42	43	43	44	45	47	45	43	41	37	35	37	32.9	46.5
28-Jun-07	35	36	A	27	29	26	22	22	23	27	28	29	29	29	32	32	34	35	37	35	31	29	27	23	29.3	36.8
29-Jun-07	21	A	17	18	7	11	16	21	27	29	28	32	36	40	42	43	44	36	27	23	27	28	27	28	27.3	44.3
30-Jun-07	A	25	31	26	24	29	32	29	28	25	27	29	28	24	24	24	25	25	24	28	27	27	28	A	26.9	31.7
Hourly Avg	18.7	17.5	14.2	15.5	15.4	17.7	22.6	26.5	29.7	32.4	35.1	36.6	37.7	39.2	40.2	40.0	39.7	39.2	37.9	36.4	32.5	25.0	23.2	22.5		
Hourly Max	40.4	36.2	31.2	40.4	29.3	29.4	33.8	36.7	47.5	49.2	52.5	54.0	54.8	55.0	55.6	54.0	54.5	55.1	55.1	53.6	54.9	46.8	42.1	36.7		

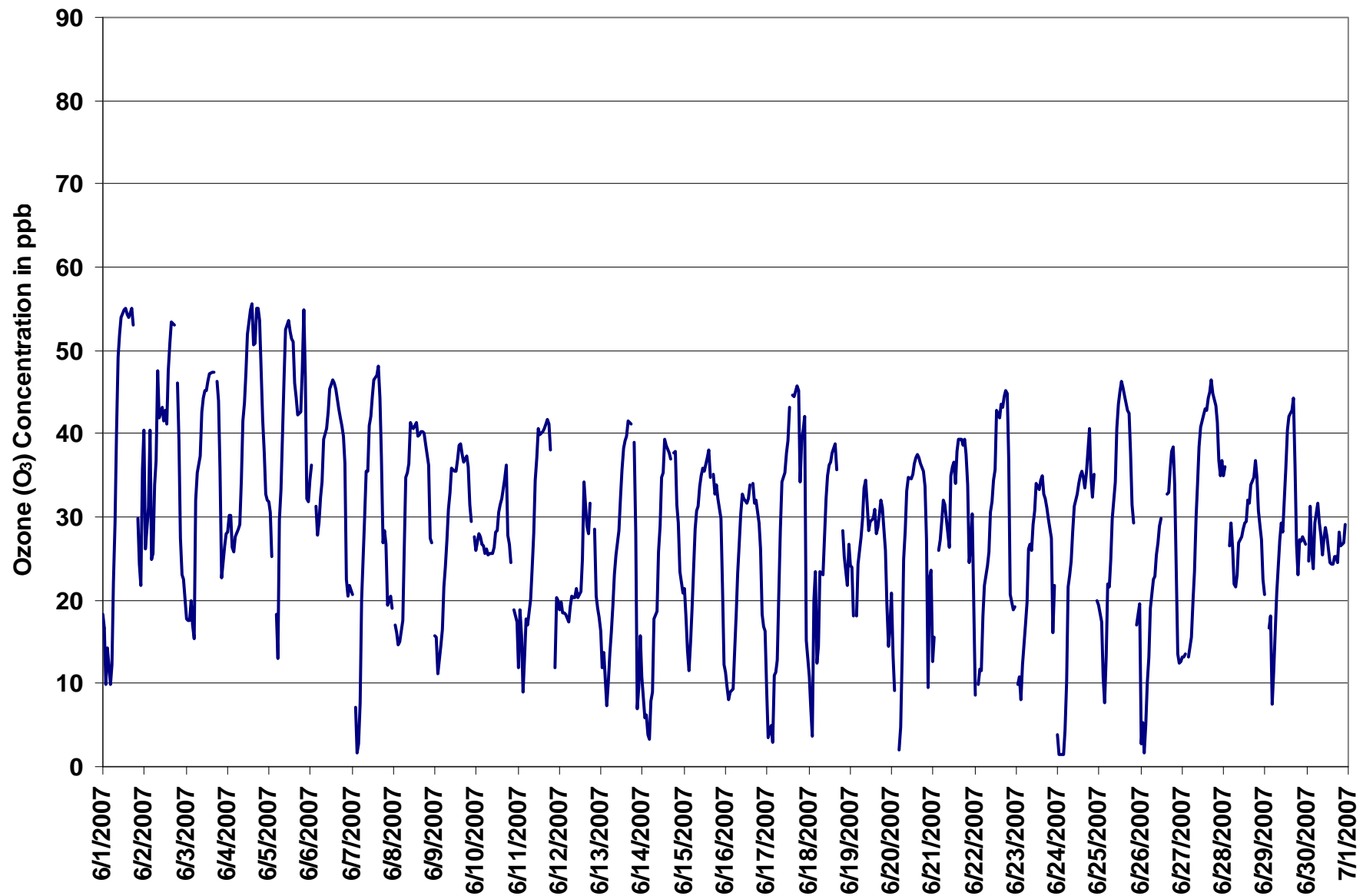
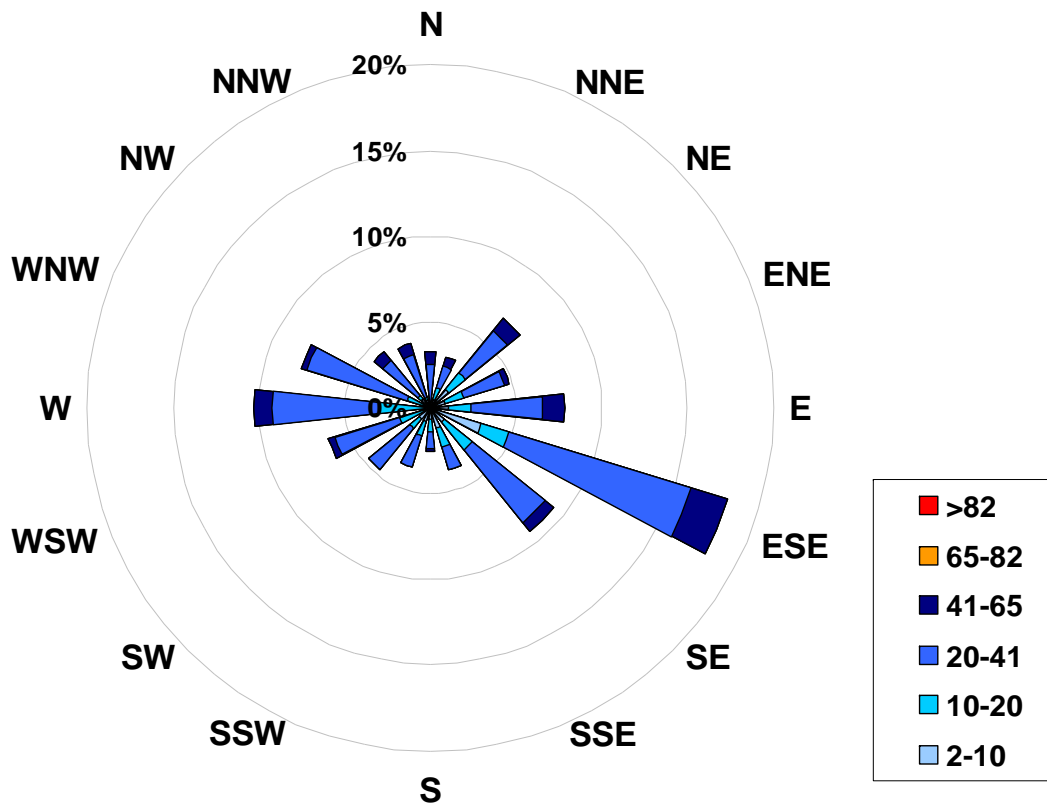


Figure 53. PASZA - Portable-Falher Ozone Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of O <sub>3</sub> in ppb			
Range			Frequency (hrs)
2.0	<	10	104
10	to	20	120
20	to	41	397
41	to	65	64
65	to	82	0
	>	82	0
Total Non-Zero Values			685

## PASZA - Portable-Falher Ozone Eight Hour Average Summary

Station: Portable-Falher  
 Station Owner: PASZA

### EIGHT HOUR RUNNING AVERAGE TABLE

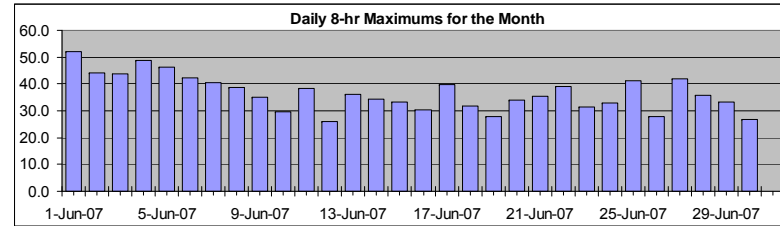
Ozone (O<sub>3</sub>)

Monitoring Dates: June 1, 2007 to July 1, 2007

Objective Limit: Alberta Environment: 8-hr 65 ppb

Number of 8-hr Exceedances:	0
Maximum 8-hr Average:	52.0 ppb 1-Jun 17:00 18:00

Percentile	99	95	75	50	25	5	1
	47.8	41.9	32.3	25.3	17.7	7.9	4.3



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-Jun-07	40	35	30	24	18	13	11	10	12	16	22	28	34	40	45	48	51	52	52	52	48	43	37	33	52.0
2-Jun-07	30	26	21	21	20	19	21	22	23	25	28	30	33	36	38	40	42	43	44	44	43	40	37	31	44.2
3-Jun-07	26	21	20	17	14	13	14	17	20	23	26	30	34	38	40	42	43	44	44	43	41	37	33	30	43.9
4-Jun-07	28	28	26	24	23	25	26	26	27	28	29	32	35	38	41	43	46	47	49	49	48	46	43	41	48.9
5-Jun-07	38	35	30	28	25	21	19	20	21	24	28	31	35	41	44	46	46	46	45	43	43	42	40	38	46.3
6-Jun-07	37	36	35	33	30	28	28	28	29	30	31	33	36	38	40	41	42	42	42	41	40	36	33	29	42.3
7-Jun-07	26	24	19	14	10	8	7	9	11	14	18	23	28	33	37	40	41	41	39	37	35	31	28	24	40.6
8-Jun-07	22	20	18	16	15	15	16	17	19	22	25	28	31	34	37	38	38	39	39	39	37	35	33	33	38.8
9-Jun-07	29	25	20	16	13	13	12	14	16	19	22	25	28	30	32	33	34	35	35	35	34	33	33	31	35.0
10-Jun-07	30	28	27	25	25	24	24	24	24	24	24	24	24	25	26	26	27	28	28	27	26	26	24	22	29.6
11-Jun-07	19	16	13	11	9	10	9	10	12	14	17	20	24	27	30	33	35	37	38	38	38	34	30	27	38.4
12-Jun-07	24	21	17	14	15	15	16	16	16	16	17	18	18	19	21	22	23	24	25	26	26	25	24	22	26.1
13-Jun-07	20	16	13	12	10	9	9	9	10	13	15	18	22	25	28	30	33	34	35	36	34	29	25	21	36.1
14-Jun-07	16	11	10	6	4	4	4	5	6	9	11	14	18	22	26	28	30	32	33	34	34	32	30	28	34.3
15-Jun-07	26	24	21	18	16	15	15	17	18	20	22	26	29	31	32	33	33	33	32	32	31	30	27	23	33.4
16-Jun-07	21	18	15	11	9	7	7	8	11	14	17	20	23	26	28	29	30	30	30	29	27	24	21	19	30.3
17-Jun-07	16	12	9	6	4	4	4	5	8	11	15	20	24	28	31	35	37	39	40	39	37	33	30	26	39.6
18-Jun-07	21	16	11	9	6	6	6	7	9	12	15	18	21	25	28	30	31	32	N	N	N	N	N	N	31.7
19-Jun-07	N	N	22	22	20	20	20	21	22	23	25	25	27	27	28	28	27	27	27	27	26	25	22	20	27.8
20-Jun-07	18	15	12	10	7	5	6	7	9	13	17	19	23	27	30	32	33	34	34	33	31	28	24	22	34.0
21-Jun-07	18	15	12	11	13	16	19	21	24	26	27	28	30	30	31	32	33	35	35	35	35	33	30	28	35.5
22-Jun-07	24	22	18	14	11	10	11	11	13	15	18	21	24	27	30	33	35	36	38	39	38	35	31	27	39.1
23-Jun-07	25	20	15	10	7	6	7	9	11	14	16	19	22	25	28	29	30	31	31	31	30	27	26	25	31.3
24-Jun-07	20	16	12	8	5	5	4	6	9	12	16	19	23	26	29	30	31	32	33	33	32	31	31	29	32.7
25-Jun-07	26	23	19	15	12	10	11	12	13	16	20	24	29	33	35	38	40	41	41	39	36	35	30	24	41.2
26-Jun-07	19	14	9	6	3	4	5	7	10	13	16	19	21	23	N	N	N	N	N	N	N	28	25	22	27.7
27-Jun-07	20	17	14	11	9	10	11	13	15	18	22	24	28	31	34	37	39	41	42	42	41	40	39	37	41.8
28-Jun-07	36	34	33	31	29	28	27	25	23	22	23	23	23	24	25	26	28	29	30	30	30	30	30	28	35.8
29-Jun-07	27	26	23	19	16	13	11	11	12	14	16	18	22	25	29	31	33	33	33	32	31	29	27	25	33.3
30-Jun-07	23	21	22	22	23	23	24	25	25	26	26	26	27	26	25	24	24	24	24	24	24	24	25	25	26.6

Hourly Max	39.5	35.9	35.3	33.2	29.7	27.8	27.8	28.1	28.8	29.7	31.0	33.2	35.6	40.7	44.7	48.2	50.8	52.0	51.9	51.9	47.8	45.7	43.0	40.7
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## PASZA - Portable-Falher - Total Reduced Sulphur Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

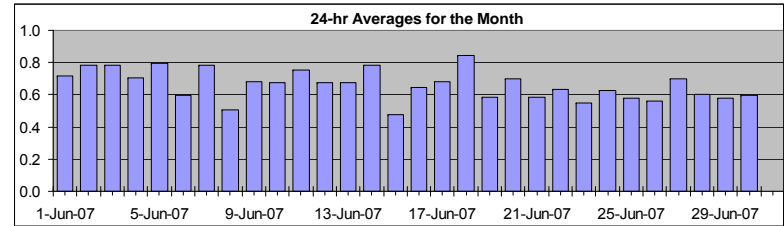
### HOURLY AVERAGE TABLE

### Total Reduced Sulphur (TRS)

Monitoring Dates: June 1, 2007 to July 1, 2007

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

Maximum 1-hr Average:	2.7	ppb	7-Jun	5:00 6:00
Maximum 24-hr Value:	0.8	ppb	18-Jun	



AIC Time:	31 hrs	Operational Time:	682 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	1.7	1.2	0.7	0.6	0.5	0.4	0.4	0.7 ppb	0.6 ppb

#### Status Flag Characters

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
	Hour Start 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-Jun-07	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	1	1	A	1	1	1	1	0.7	1.2
2-Jun-07	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	0	1	1	A	1	1	1	1	0.8	1.7	
3-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.8	1.5	
4-Jun-07	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	0	1	1	0	1	1	1	0.7	1.2	
5-Jun-07	1	1	1	A	1	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	0.8	1.6	
6-Jun-07	1	1	A	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0.6	1.3	
7-Jun-07	1	A	1	1	2	3	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	0.8	2.7	
8-Jun-07	A	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	A	0.5	0.6	
9-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	A	0.7	1.5	
10-Jun-07	1	1	1	1	1	1	1	2	1	1	1	1	1	0	1	0	1	1	1	1	1	A	1	0.7	1.5	
11-Jun-07	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	
12-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	1.1	
13-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	A	1	1	1	1	0.7	1.1	
14-Jun-07	1	1	1	1	2	2	2	1	1	1	1	1	0	0	0	0	A	0	0	0	0	0	1	0.8	2.4	
15-Jun-07	1	1	1	1	1	0	1	0	0	0	1	0	0	0	0	A	0	0	0	0	0	0	1	0.5	0.6	
16-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	A	1	0	1	1	1	1	1	0.6	0.9	
17-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	0	A	1	0	0	0	1	1	1	1	0.7	1.5	
18-Jun-07	1	1	1	1	2	2	1	1	1	1	1	1	1	0	C	C	C	C	A	1	1	1	1	0.8	2.3	
19-Jun-07	1	1	1	A	1	1	1	1	1	0	1	1	1	1	1	1	0	1	0	0	1	0	1	0.6	1.0	
20-Jun-07	1	1	1	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0.7	1.5	
21-Jun-07	1	1	A	1	1	1	1	0	1	1	1	0	1	0	0	0	0	0	1	0	0	0	1	0.6	0.9	
22-Jun-07	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	1	1	1	0.6	1.0	
23-Jun-07	A	1	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0.6	1.1	
24-Jun-07	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	1	1	1	A	0.6	1.2	
25-Jun-07	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	1	0.6	1.2	
26-Jun-07	1	1	1	1	1	1	1	1	1	1	C	C	C	0	0	0	0	0	0	0	1	1	1	0.6	0.8	
27-Jun-07	1	1	1	A	2	2	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0.7	1.9	
28-Jun-07	1	1	A	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	1.4	
29-Jun-07	1	A	1	1	1	1	1	1	1	1	0	1	0	0	0	0	1	0	0	1	1	1	1	0.6	0.8	
30-Jun-07	A	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0	0	0	1	0	A	0.6	0.9	
Hourly Avg	0.8	0.8	0.8	0.9	1.0	1.1	0.9	0.8	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7		
Hourly Max	1.2	1.2	1.2	1.4	2.3	2.7	1.8	1.5	1.0	1.5	1.0	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	0.8	1.5	1.0		

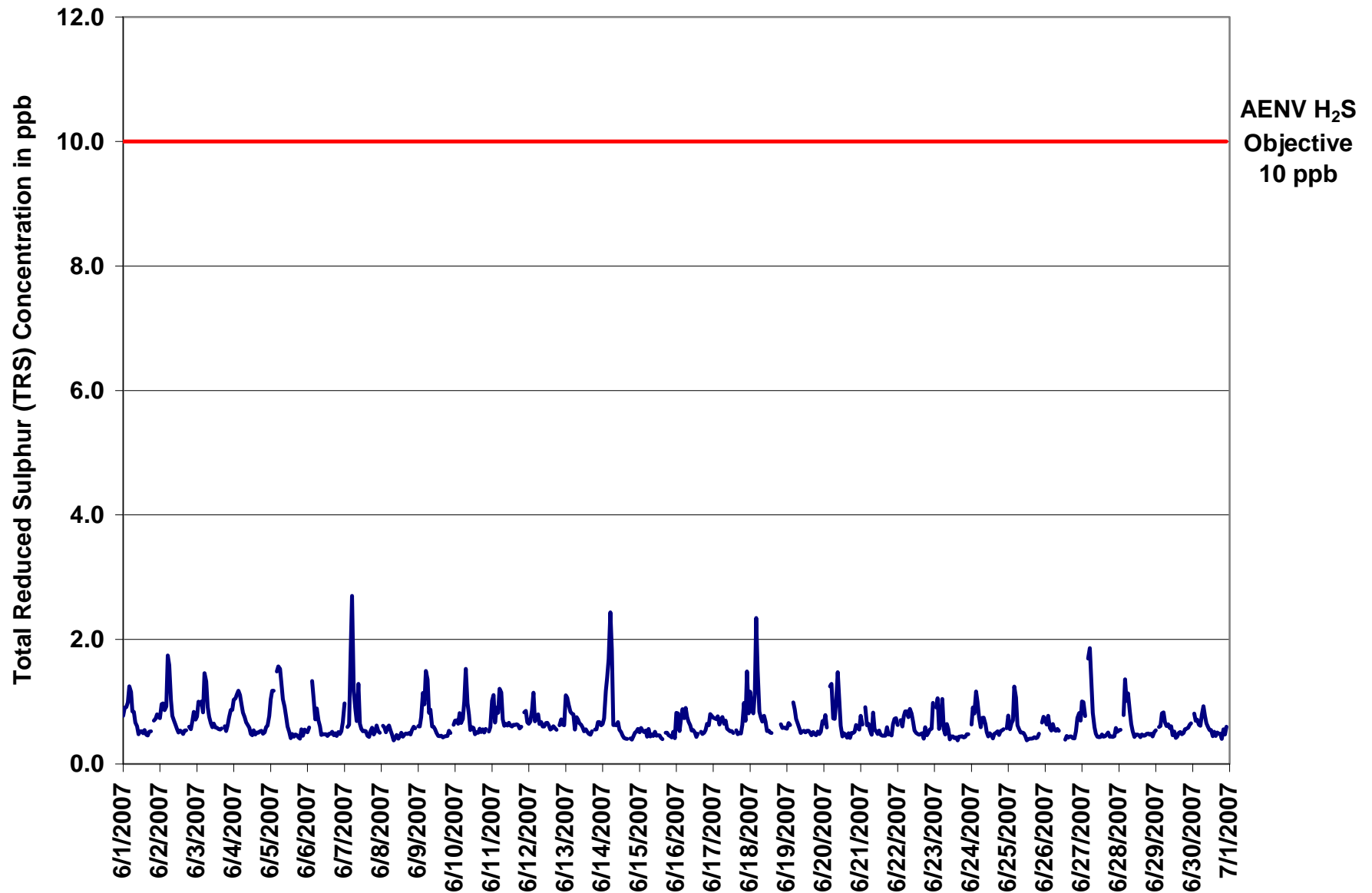


Figure 54. PASZA - Portable-Falher Total Reduced Sulphur 1-hr Average Monthly Trend

Station: Portable-Falher  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

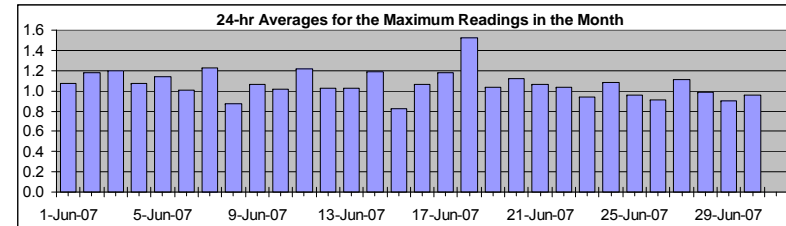
**Total Reduced Sulphur (TRS)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	4.3	ppb	18-Jun	4:00 5:00
Maximum 24-hr Value:	1.5	ppb	18-Jun	

AIC Time:	31 hrs	Operational Time:	682 hrs						
Calibration Time:	7 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.6	1.9	1.1	0.9	0.8	0.7	0.7	1.1 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-Jun-07	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.1	1.7
2-Jun-07	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.2	2.4
3-Jun-07	1	2	2	2	1	2	2	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1.2	2.3
4-Jun-07	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.6
5-Jun-07	1	2	2	A	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.2
6-Jun-07	1	1	A	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.2
7-Jun-07	2	A	1	1	3	4	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	3.6
8-Jun-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	0.9	1.1
9-Jun-07	1	1	1	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.1	1.9
10-Jun-07	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.0	1.9
11-Jun-07	3	2	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.2	2.6
12-Jun-07	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1.0	1.9
13-Jun-07	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.0	1.7
14-Jun-07	1	1	2	2	2	3	3	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.2	3.3
15-Jun-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	0.8	1.1
16-Jun-07	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.1	2.1
17-Jun-07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	2	2	3	1	1.2	3.2
18-Jun-07	2	1	1	2	4	2	2	1	1	1	1	1	1	1	1	C	C	C	C	A	3	1	1	1	1.5	4.3
19-Jun-07	1	1	1	A	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.8
20-Jun-07	1	1	1	A	2	2	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.2
21-Jun-07	1	1	A	2	1	2	1	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1.1	2.0
22-Jun-07	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1.0	1.7
23-Jun-07	A	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.6
24-Jun-07	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1.1	2.4
25-Jun-07	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1.0	1.9
26-Jun-07	1	1	1	1	1	1	1	1	1	1	C	C	C	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
27-Jun-07	1	1	1	A	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	2.5
28-Jun-07	1	1	A	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.9
29-Jun-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
30-Jun-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	1.0	1.3
Hourly Avg	1.2	1.2	1.2	1.4	1.6	1.7	1.4	1.2	1.1	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	1.0	1.0	1.1	1.1		
Hourly Max	2.6	2.0	1.6	2.4	4.3	3.6	2.6	1.9	1.6	2.2	1.6	1.4	1.1	0.9	0.9	1.0	1.0	2.0	1.7	1.0	2.6	2.1	3.2	1.4		



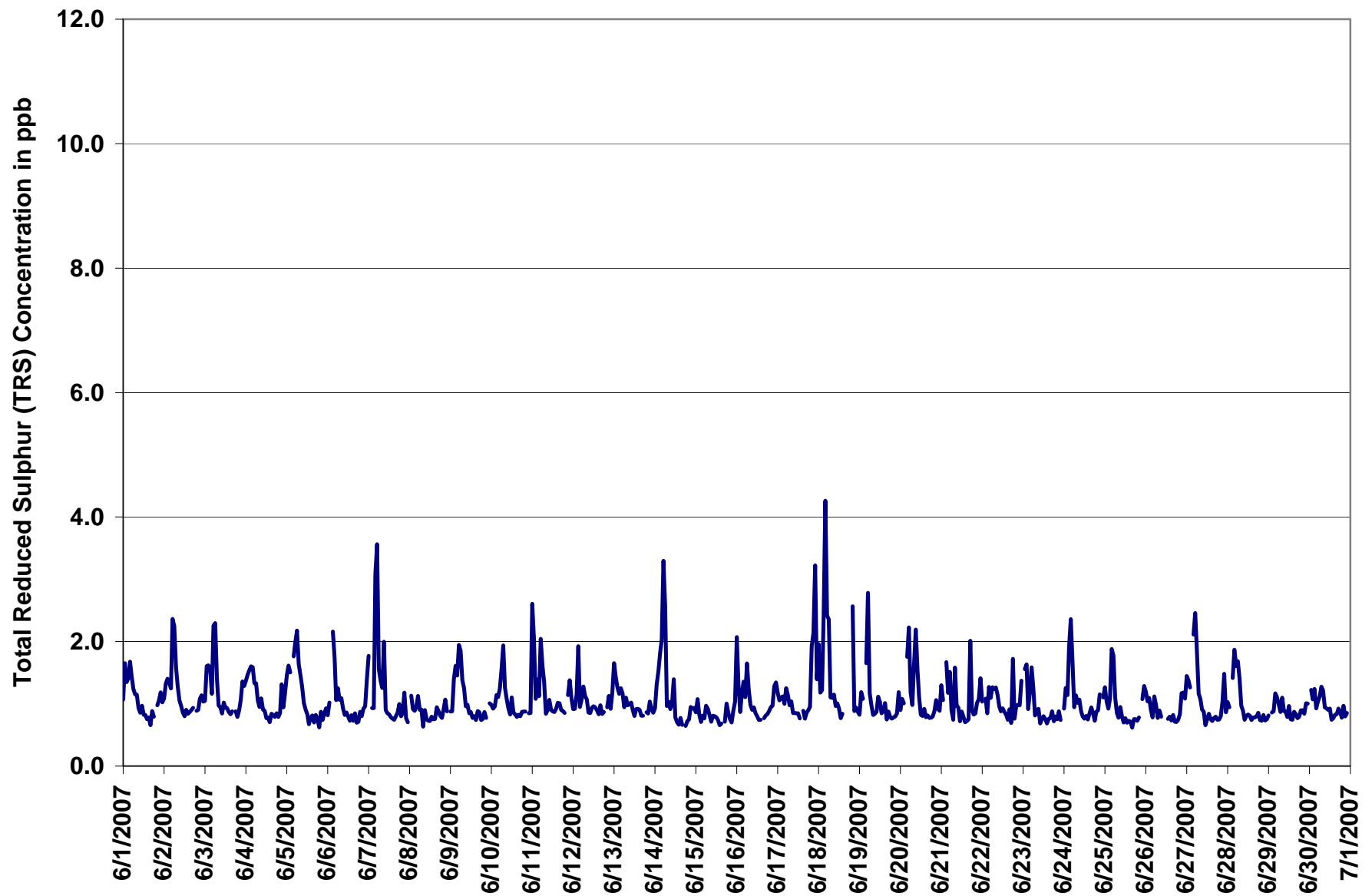
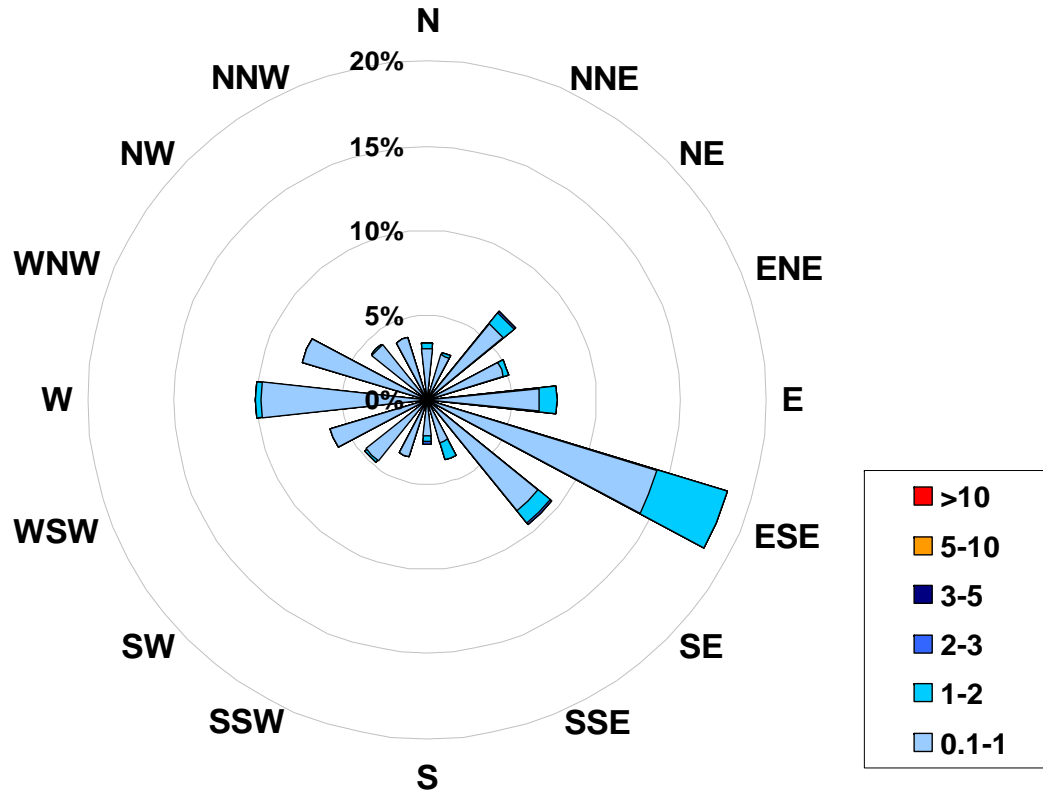


Figure 55. PASZA - Portable-Falher Total Reduced Sulphur Instantaneous (30 Second) Maximum Value Monthly Trend

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



**Calms: 0%**

Frequency Distribution of TRS in ppb			
Range		Frequency (hrs)	
0.1	< 1	615	
1	to 2	64	
2	to 3	3	
3	to 5	0	
5	to 10	0	
	> 10	0	
Total Non-Zero Values			682

# PASZA - Portable-Falher - Relative Humidity Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

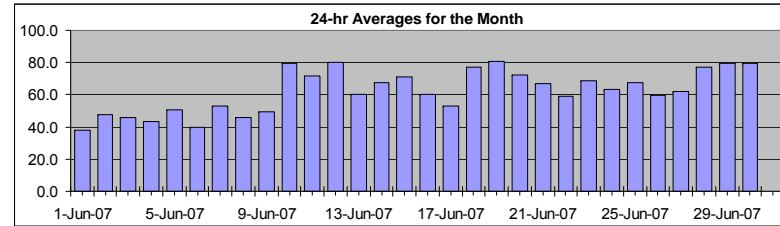
## HOURLY AVERAGE TABLE

## Relative Humidity (RH)

Monitoring Dates: June 1, 2007 to July 1, 2007

### Summary

Maximum 1-hr Average:	98.8	%	20-Jun	5:00 6:00
Maximum 24-hr Value:	80.5	%	19-Jun	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	97.1	94.1	80.3	63.2	45.0	29.1	19.7	62.3	63.2

### 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	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-Jun-07	53	61	65	70	76	70	54	49	39	26	20	20	19	18	18	19	18	19	20	23	31	36	46	48	38.2	76.0
2-Jun-07	49	55	56	55	63	68	65	56	45	48	42	45	45	45	35	29	28	30	31	34	39	50	59	63	47.3	67.7
3-Jun-07	69	72	76	79	79	75	59	50	44	37	32	31	29	28	26	25	26	26	27	33	45	52	54	45.7	78.7	
4-Jun-07	56	55	58	60	58	54	50	47	45	43	39	36	34	33	30	28	28	30	31	34	40	46	50	53	43.3	60.2
5-Jun-07	56	62	66	71	71	76	68	59	55	50	48	45	42	37	34	36	35	36	33	37	41	45	52	55	50.4	75.9
6-Jun-07	55	50	52	75	70	68	64	50	37	29	26	24	23	22	22	24	26	25	25	26	29	38	45	49	39.7	75.4
7-Jun-07	51	55	62	66	72	69	63	48	43	50	40	33	30	33	30	30	36	60	74	59	62	71	66	66	52.9	73.8
8-Jun-07	71	70	71	74	75	72	61	44	36	35	30	30	30	30	30	29	29	29	29	32	37	42	53	59	45.8	74.8
9-Jun-07	66	71	75	74	72	71	70	63	53	45	42	39	39	34	31	30	31	31	30	33	39	43	48	52	49.3	75.2
10-Jun-07	54	55	55	61	72	82	91	92	91	91	91	89	86	83	77	72	80	77	80	79	84	90	91	93	79.8	93.1
11-Jun-07	95	95	95	96	95	94	94	96	88	84	75	70	61	58	51	48	45	43	45	48	52	63	68	68	71.9	96.4
12-Jun-07	69	69	83	90	92	95	85	80	75	73	76	84	84	81	71	69	70	68	71	83	87	90	93	92	80.4	95.0
13-Jun-07	92	93	90	88	86	79	76	68	63	56	50	47	38	36	36	36	35	37	37	38	51	63	73	80	60.3	92.8
14-Jun-07	84	87	90	93	95	94	90	78	74	64	63	66	66	50	47	42	41	38	38	40	53	68	76	81	67.5	95.2
15-Jun-07	78	83	89	90	88	83	76	70	69	63	58	56	47	40	38	43	57	77	79	80	80	80	88	93	71.0	92.8
16-Jun-07	97	98	98	95	87	83	78	71	63	53	47	44	41	39	37	35	35	37	38	39	43	48	60	76	60.0	98.4
17-Jun-07	82	81	80	79	74	76	74	64	55	44	40	35	30	28	27	27	30	29	33	44	48	52	62	70	52.8	82.4
18-Jun-07	75	80	83	85	83	80	86	81	80	68	67	62	52	60	54	52	74	77	86	94	93	95	97	88	77.2	96.9
19-Jun-07	85	87	91	90	89	92	94	88	83	76	75	71	64	64	66	80	82	77	69	68	75	84	88	90	80.5	94.1
20-Jun-07	92	96	99	98	99	99	96	87	76	69	61	61	58	56	55	51	49	48	47	49	59	72	77	81	72.3	98.8
21-Jun-07	90	88	89	91	91	87	84	81	89	96	85	76	71	64	48	36	33	33	32	35	44	53	56	54	67.0	96.1
22-Jun-07	69	75	78	79	78	69	68	61	57	48	49	54	56	44	37	39	47	51	45	48	55	61	66	77	58.8	78.6
23-Jun-07	84	86	89	90	88	87	84	78	71	71	70	72	65	64	55	51	49	47	44	48	55	63	64	68	68.5	90.4
24-Jun-07	80	86	88	90	88	84	72	61	58	54	47	41	39	36	35	38	56	62	57	65	66	68	75	79	63.4	89.7
25-Jun-07	84	88	92	93	94	91	83	78	69	64	58	51	49	49	48	46	44	42	52	60	65	72	74	79	67.7	93.6
26-Jun-07	85	89	94	91	83	78	73	63	59	57	54	51	45	41	40	40	39	37	35	35	43	61	67	69	59.6	93.9
27-Jun-07	79	84	87	88	89	86	81	73	60	53	47	46	46	44	43	42	42	44	49	53	57	56	69	75	62.3	89.2
28-Jun-07	89	92	94	94	92	86	84	84	81	76	75	74	71	68	67	66	64	62	62	67	70	74	77	83	77.2	94.5
29-Jun-07	85	84	88	92	95	91	86	85	80	78	77	73	68	63	59	55	57	69	77	81	91	94	93	92	79.8	95.0
30-Jun-07	95	97	95	97	97	97	97	96	96	95	93	91	89	85	80	78	64	58	57	50	55	53	49	51	79.8	97.4
Hourly Avg	75.6	78.2	81.0	83.3	83.0	81.2	76.9	70.0	64.5	59.7	55.9	53.8	50.6	47.7	44.3	43.2	45.0	46.7	47.8	50.3	56.0	62.6	67.7	71.4		
Hourly Max	96.6	97.6	98.5	98.5	98.8	98.8	96.7	96.5	95.6	96.1	93.5	90.7	89.3	84.9	80.2	80.3	81.9	77.4	85.8	94.1	93.1	95.4	96.9	93.1		

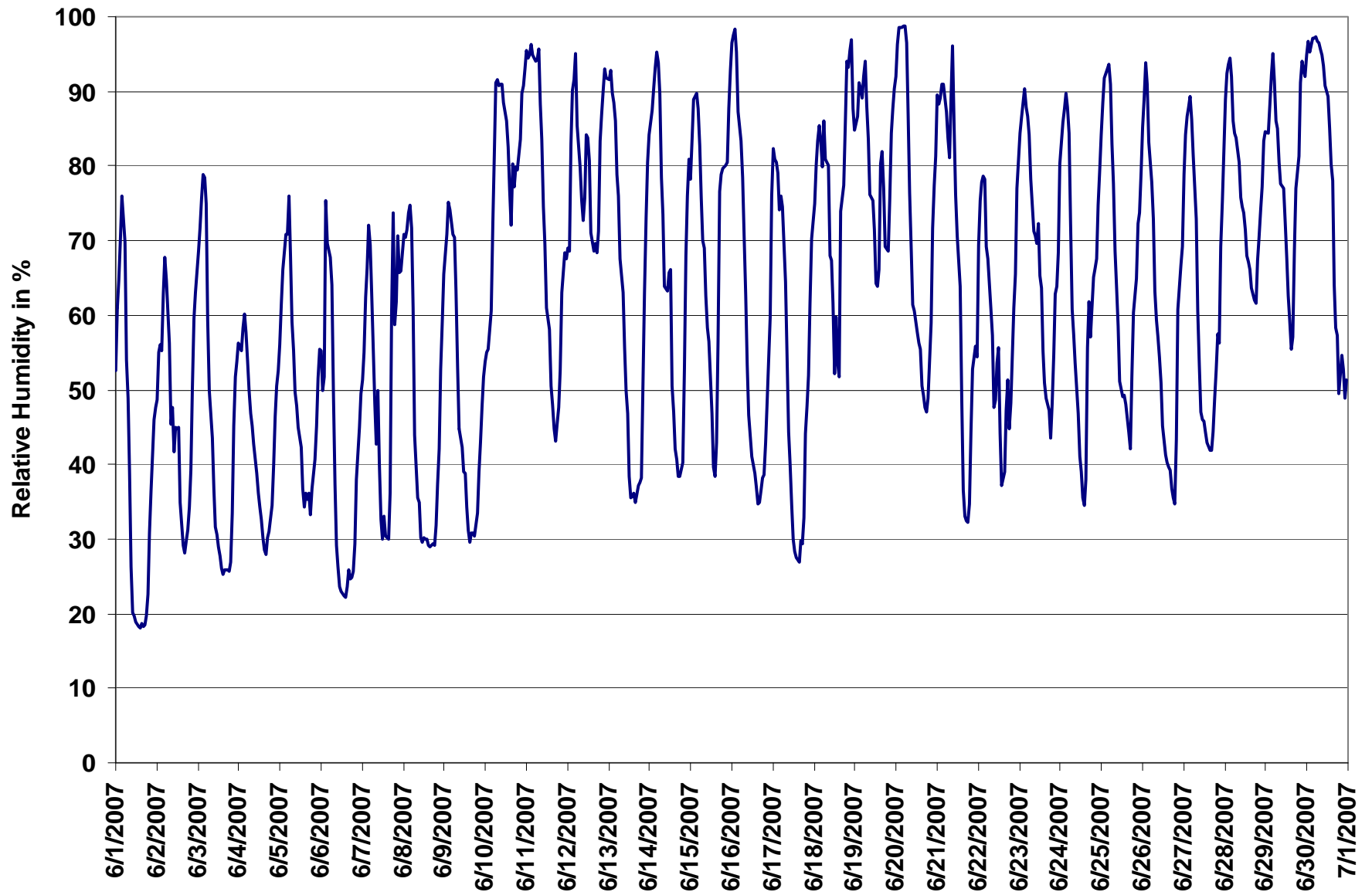


Figure 56. PASZA - Portable-Falher Relative Humidity 1-hr Average Monthly Trend

## PASZA - Portable-Falher - Temperature Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

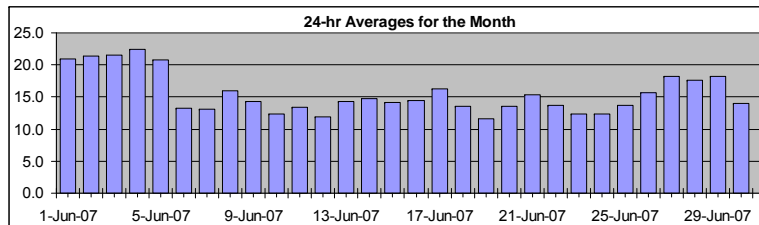
### HOURLY AVERAGE TABLE

### Ambient Temperature (T)

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Average:	28.3 °C	4-Jun	16:00 17:00
Maximum 24-hr Value:	22.5 °C	4-Jun	



AIC Time:	0 hrs	Operational Time:	720 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	27.5	25.3	18.7	15.2	11.8	8.1	6.0	15.5 °C	15.2 °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	6:00 7:00	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-Jun-07	15	13	13	11	10	11	16	18	20	23	25	25	26	27	27	28	28	27	27	26	24	21	20	21	20.9	27.8	
2-Jun-07	21	19	18	17	16	16	18	20	22	22	22	22	23	23	25	26	27	27	27	26	24	20	18	16	21.4	27.3	
3-Jun-07	15	14	14	14	13	14	18	20	22	24	25	26	26	27	27	28	27	27	27	26	24	20	18	19	21.5	27.6	
4-Jun-07	18	18	17	16	16	16	17	19	21	23	25	26	27	27	28	28	28	28	28	26	24	23	21	20	22.5	28.3	
5-Jun-07	19	18	17	16	16	15	17	19	21	22	23	25	25	26	26	26	26	25	25	23	20	18	16	16	20.8	26.3	
6-Jun-07	16	15	13	10	9	9	9	11	12	13	14	15	15	16	16	17	17	17	16	16	15	11	9	8	13.3	16.9	
7-Jun-07	7	5	4	3	3	4	7	11	14	15	17	18	19	19	20	20	19	16	15	17	16	14	15	14	13.0	19.8	
8-Jun-07	13	13	13	12	11	12	14	15	16	16	17	18	19	19	19	20	20	20	20	19	18	16	13	11	15.9	20.0	
9-Jun-07	9	8	7	8	9	10	11	12	13	15	16	17	17	18	19	19	19	19	19	18	17	15	14	13	14.3	19.4	
10-Jun-07	13	13	13	12	11	11	10	10	10	10	11	13	14	14	15	15	14	15	15	14	13	11	10	8	12.3	15.2	
11-Jun-07	8	8	8	8	8	8	9	9	11	13	14	15	16	17	18	19	19	19	18	18	17	15	14	13	13.4	19.1	
12-Jun-07	13	13	12	11	11	10	10	10	11	11	11	10	11	13	14	15	15	15	14	12	12	11	11	11	12.0	15.4	
13-Jun-07	11	11	11	10	10	10	10	11	12	13	15	16	16	18	18	18	19	20	19	18	18	16	15	12	12	14.2	19.6
14-Jun-07	11	10	10	9	8	9	10	13	15	16	16	15	16	18	19	19	20	21	21	20	18	14	13	12	14.7	20.9	
15-Jun-07	12	11	10	9	10	11	12	14	15	16	17	18	20	21	21	21	17	14	13	13	12	12	11	10	14.2	20.8	
16-Jun-07	9	8	7	7	7	9	10	12	13	15	16	17	18	19	19	20	19	19	19	19	18	17	15	13	14.5	19.7	
17-Jun-07	12	11	11	9	10	10	11	14	16	18	19	19	20	21	21	22	22	22	21	19	18	17	15	13	16.3	21.9	
18-Jun-07	12	10	9	9	10	12	12	13	14	16	16	16	18	18	18	19	19	14	14	14	12	12	12	12	13.5	19.0	
19-Jun-07	11	10	10	10	10	9	10	11	11	12	12	13	15	14	14	12	11	12	13	13	12	11	11	11	11.6	14.6	
20-Jun-07	10	9	7	6	7	7	9	11	13	14	15	15	16	16	17	18	18	18	18	18	17	15	14	14	13.5	18.2	
21-Jun-07	13	13	12	12	12	12	13	15	14	12	14	16	17	18	19	20	20	20	20	19	17	15	14	13	15.4	20.1	
22-Jun-07	10	8	8	7	7	10	11	13	14	15	16	16	15	17	18	19	18	17	18	18	17	14	13	11	13.8	18.9	
23-Jun-07	9	9	9	9	9	9	10	11	12	12	13	12	13	14	15	16	16	16	17	17	16	15	12	10	12.4	17.1	
24-Jun-07	8	7	6	5	6	7	10	11	13	15	16	17	18	19	19	18	15	13	14	14	13	12	11	10	12.4	19.2	
25-Jun-07	10	9	7	6	6	7	10	12	14	15	16	17	17	18	18	19	19	19	17	16	16	14	14	13	13.7	18.6	
26-Jun-07	11	10	9	8	8	9	11	13	15	16	17	18	19	20	20	21	21	21	22	22	20	16	14	13	15.7	21.7	
27-Jun-07	13	12	12	12	12	13	14	16	18	19	21	21	22	22	23	24	24	24	23	22	21	20	17	16	18.3	23.7	
28-Jun-07	14	14	13	13	13	15	16	16	16	17	18	18	19	19	20	20	21	22	22	21	20	19	18	17	17.6	22.4	
29-Jun-07	16	16	16	15	14	15	16	17	18	19	19	20	21	22	22	23	23	22	20	19	17	16	15	15	18.2	23.3	
30-Jun-07	15	15	14	14	13	13	12	11	11	12	12	12	12	13	14	14	16	17	17	17	16	15	15	14	14.0	17.1	
Hourly Avg	12.5	11.7	11.0	10.3	10.2	10.8	12.1	13.6	14.9	16.0	17.0	17.6	18.4	19.1	19.8	20.1	19.8	19.5	19.2	18.5	17.3	15.5	14.1	13.3			
Hourly Max	20.7	19.0	18.1	17.0	16.0	16.4	18.2	20.3	22.3	23.9	25.1	25.8	26.6	27.4	27.8	28.2	28.3	28.1	27.7	26.4	24.5	22.5	21.0	20.7			

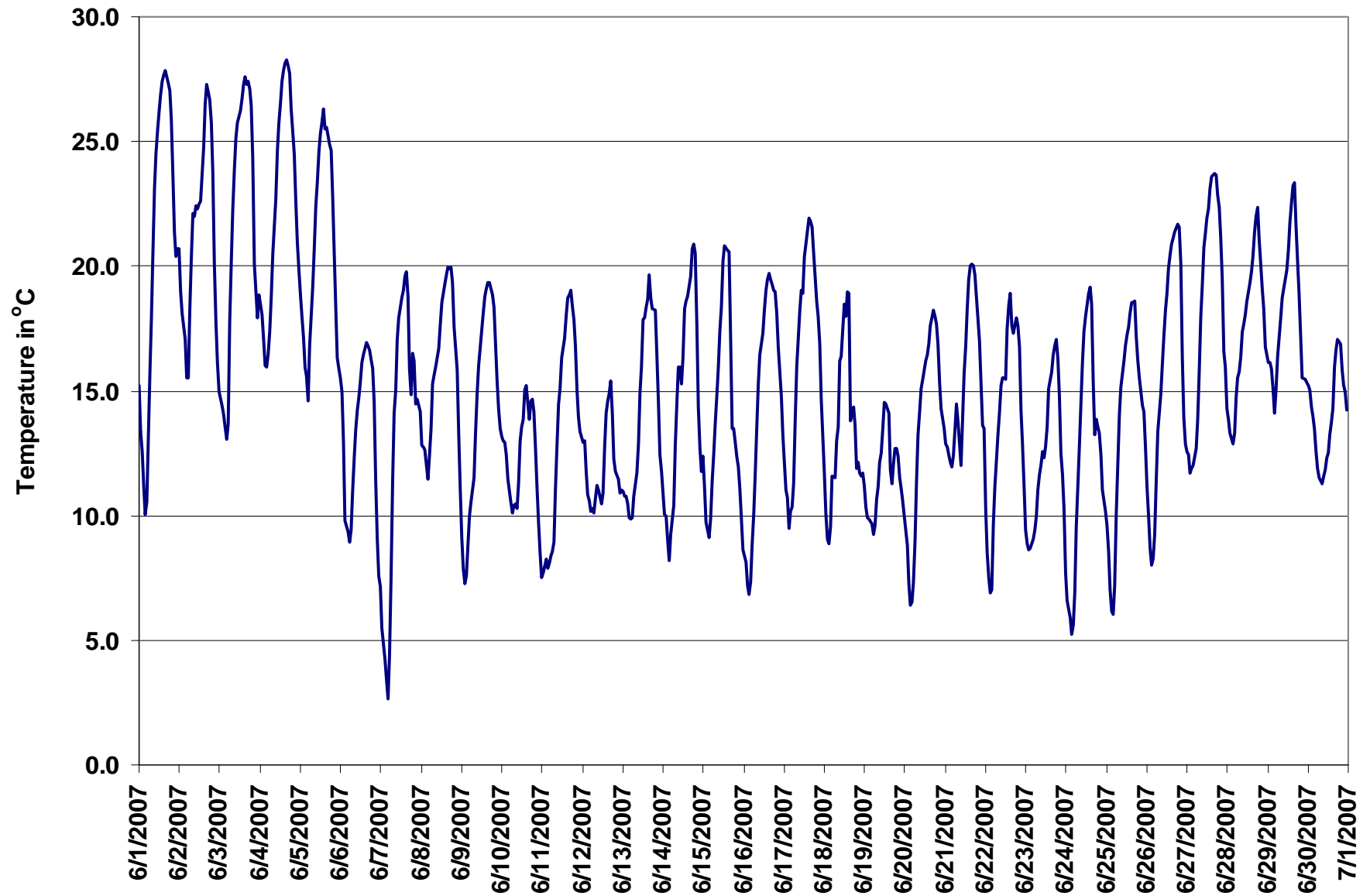


Figure 57. PASZA - Portable-Falher Temperature 1-hr Average Monthly Trend

## PASZA - Portable-Falher - Scalar Wind Speed Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

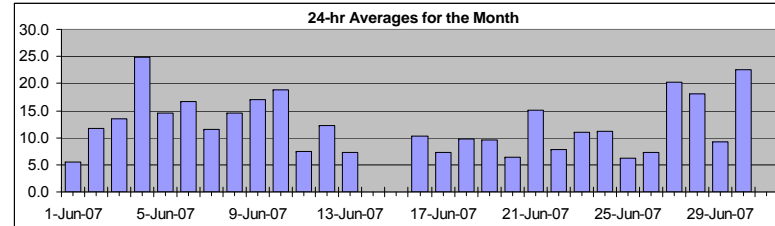
### Wind Speed (WSs)

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Average:	33.1	km/hr	4-Jun	17:00 18:00
Maximum 24-hr Value:	24.8	km/hr	4-Jun	

Calm Time:	0 hrs	0% calms	Operational Time:	690 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	95.8%				
Percentile	99	95	75	50	25	5	1	AverageS
	31.1	27.0	17.0	10.5	6.5	3.4	2.1	12.3 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-Jun-07	7	3	2	3	2	3	1	2	3	4	6	7	8	10	6	8	8	6	7	8	7	9	6	7	5.6	9.8	
2-Jun-07	7	8	7	7	6	7	10	12	7	12	11	23	22	26	30	15	8	10	11	14	9	7	6	5	11.8	30.4	
3-Jun-07	8	6	5	6	6	5	13	15	15	15	19	19	18	15	17	14	17	19	21	19	13	10	13	16	13.5	21.0	
4-Jun-07	19	21	21	20	22	26	31	31	26	25	25	27	27	29	28	30	31	33	32	25	20	18	15	13	24.8	33.1	
5-Jun-07	11	12	12	10	5	4	5	4	5	5	9	8	17	22	23	26	31	32	28	27	17	15	17	17	14.6	32.4	
6-Jun-07	20	21	30	18	17	15	16	23	23	25	22	23	18	15	15	16	14	14	13	7	6	5	8	16.7	30.4		
7-Jun-07	7	8	4	5	6	5	6	6	13	16	15	14	16	17	17	21	23	17	7	13	12	11	9	10	11.5	23.2	
8-Jun-07	9	8	9	9	9	10	12	16	18	17	18	18	20	20	20	20	19	18	18	16	9	13	15	10	14.5	20.2	
9-Jun-07	9	5	4	8	9	13	15	16	16	16	15	13	16	17	19	19	23	28	28	28	24	23	24	21	17.1	28.5	
10-Jun-07	20	19	19	16	19	20	21	21	23	24	27	22	22	22	23	22	16	12	18	21	17	10	12	17	11	18.8	27.1
11-Jun-07	8	5	6	9	9	8	7	7	3	4	4	8	6	8	6	8	8	9	10	12	9	6	9	12	7.5	11.5	
12-Jun-07	12	4	14	11	9	12	16	13	13	12	16	12	19	19	18	15	10	10	18	13	8	6	9	5	12.2	19.0	
13-Jun-07	3	3	3	5	6	10	9	8	7	5	4	6	8	8	10	5	5	12	11	11	11	7	8	8	7.3	12.1	
14-Jun-07	5	8	7	6	3	5	3	1	2	3	4	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	7.6
15-Jun-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	12	9	19	19	10	7	2	N	19.4	
16-Jun-07	4	5	6	6	5	6	14	22	23	16	15	15	13	10	9	11	11	11	11	12	8	5	6	4	10.3	22.7	
17-Jun-07	2	5	3	5	5	4	4	6	5	6	7	7	6	7	10	11	11	10	10	17	12	8	6	6	7.2	17.2	
18-Jun-07	7	6	5	6	6	6	9	9	8	3	11	15	15	14	15	8	16	6	17	8	11	11	10	12	9.8	16.7	
19-Jun-07	9	8	2	8	11	13	11	13	12	9	8	10	10	9	16	17	14	13	14	9	3	5	4	3	9.6	16.7	
20-Jun-07	2	4	6	4	3	2	4	7	6	6	7	7	8	7	8	8	9	11	12	8	8	7	6	4	6.4	11.5	
21-Jun-07	6	5	13	18	18	16	23	20	15	15	11	11	13	16	26	26	27	23	21	17	9	4	6	6	15.2	27.5	
22-Jun-07	6	8	9	7	6	5	6	7	6	9	10	7	8	7	8	8	16	11	10	7	5	9	6	6	7.9	16.1	
23-Jun-07	6	5	7	5	4	4	11	13	18	19	19	17	18	15	18	18	14	13	12	10	6	3	2	4	11.0	19.5	
24-Jun-07	5	3	6	6	7	8	10	12	10	9	14	14	13	11	10	14	24	22	10	18	16	12	7	8	11.2	24.4	
25-Jun-07	9	7	4	5	6	6	6	4	3	3	4	5	5	6	8	8	11	12	13	9	8	4	3	3	6.3	12.8	
26-Jun-07	4	4	3	5	4	3	9	11	10	12	10	11	9	10	8	9	6	4	5	5	7	8	8	9	7.3	11.6	
27-Jun-07	11	10	12	11	8	12	18	22	24	26	27	26	28	29	29	26	26	27	28	28	23	11	12	14	20.3	29.5	
28-Jun-07	12	11	11	15	12	15	12	16	17	18	22	20	20	20	20	19	18	21	25	21	26	27	24	13	18.1	26.7	
29-Jun-07	15	12	3	4	6	7	11	5	4	3	9	9	7	7	8	8	12	21	17	18	11	7	7	8	9.2	21.3	
30-Jun-07	6	8	11	11	11	13	20	29	31	29	29	30	29	28	25	20	23	25	22	32	24	24	31	29	22.5	31.9	
1-hr Average	8.6	8.0	8.5	8.6	8.3	9.1	11.6	12.8	12.6	12.6	13.6	14.5	14.7	15.0	16.1	15.0	16.0	16.1	16.0	15.6	12.4	10.4	10.2	9.3			
Hourly Max	19.8	21.2	30.4	19.9	22.2	26.4	31.0	31.2	31.1	28.5	29.3	30.2	29.0	29.5	30.4	29.6	31.4	33.1	32.4	31.9	26.6	26.7	31.2	28.6			

## PASZA - Portable-Falher - Vector Wind Speed Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

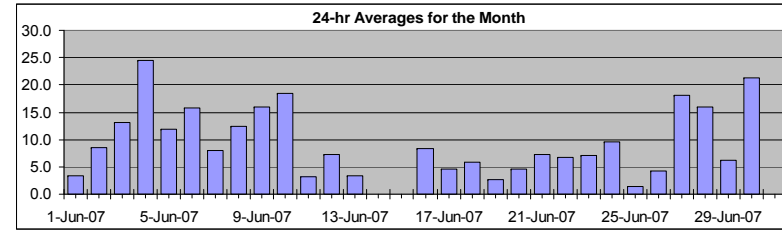
### Wind Speed (WSv)

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Average:	32.8	km/hr	4-Jun	17:00 18:00
Maximum 24-hr Value:	24.6	km/hr	4-Jun	

Calm Time:	0 hrs	0% calms	Operational Time:	690 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	95.8%				
Percentile	99	95	75	50	25	5	1	AverageV
	31.0	26.8	16.5	9.9	6.0	2.3	1.1	6.1 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
1-Jun-07	7	2	2	3	2	3	0	1	2	4	5	6	7	7	2	6	7	5	7	8	7	8	4	6	3.3	8.3	
2-Jun-07	6	8	6	6	3	6	10	12	5	12	11	23	22	25	30	15	6	8	11	13	8	7	6	5	8.5	29.9	
3-Jun-07	8	5	5	5	6	5	13	15	14	15	18	18	17	14	16	12	16	18	21	19	13	10	13	16	13.1	20.6	
4-Jun-07	19	21	21	20	22	26	31	31	26	24	25	27	26	28	28	29	31	33	32	25	20	17	15	12	24.6	32.8	
5-Jun-07	10	12	12	10	4	3	5	3	2	2	3	5	5	16	21	22	25	30	32	28	26	17	15	17	12.0	32.1	
6-Jun-07	20	21	30	18	17	15	16	23	23	25	21	22	18	14	14	13	15	13	14	13	7	6	4	8	15.8	30.3	
7-Jun-07	7	7	4	5	6	4	6	5	13	15	14	13	14	16	16	20	22	17	6	13	12	11	9	10	7.9	21.7	
8-Jun-07	9	8	9	8	9	10	12	15	17	17	18	17	20	20	20	19	18	17	18	15	8	13	15	9	12.4	19.7	
9-Jun-07	9	4	4	8	9	13	15	16	16	15	15	12	15	16	18	18	22	28	28	28	24	23	24	21	15.9	28.1	
10-Jun-07	20	19	19	16	19	20	21	21	23	23	27	22	21	23	22	16	10	18	21	16	9	12	17	10	18.5	27.0	
11-Jun-07	7	3	5	9	9	8	6	6	0	3	2	8	5	7	5	7	7	8	9	11	9	6	9	12	3.2	11.5	
12-Jun-07	12	1	14	10	8	11	16	12	13	12	15	12	19	19	17	15	10	10	17	13	7	5	9	5	7.3	18.8	
13-Jun-07	2	2	2	5	6	10	9	8	7	5	2	5	5	4	7	2	3	9	11	10	11	6	8	8	3.3	11.1	
14-Jun-07	5	8	7	6	2	5	2	0	1	2	1	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	7.6
15-Jun-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	9	8	19	19	10	7	1	N	19.3	
16-Jun-07	4	5	6	6	5	5	14	22	23	16	14	14	12	8	7	10	11	11	11	12	8	5	4	3	8.4	22.5	
17-Jun-07	1	5	2	4	5	4	4	5	4	6	6	6	4	5	9	9	10	9	8	17	11	7	6	4	4.7	17.1	
18-Jun-07	7	6	5	6	6	1	9	8	8	2	11	14	14	10	7	16	4	14	8	11	11	10	11	5.9	15.9		
19-Jun-07	8	8	2	8	11	13	11	12	11	8	7	9	9	8	11	15	14	12	14	8	2	5	3	3	2.6	14.9	
20-Jun-07	1	1	5	4	2	2	4	6	6	5	7	6	7	6	8	6	9	10	11	7	8	7	4	3	4.6	11.2	
21-Jun-07	6	4	12	18	18	16	23	20	7	14	11	11	12	16	26	26	27	23	21	17	8	4	5	6	7.3	27.3	
22-Jun-07	6	8	9	7	6	5	6	6	6	9	10	7	8	6	6	7	16	11	10	7	5	9	5	6	6.7	15.7	
23-Jun-07	6	5	7	4	3	4	11	13	18	19	19	17	18	15	18	18	14	13	12	9	6	3	2	3	7.0	19.3	
24-Jun-07	5	3	5	6	7	7	10	12	10	9	14	14	12	10	9	13	22	22	9	18	15	12	6	8	9.6	21.9	
25-Jun-07	9	7	3	5	5	6	6	2	1	1	2	3	3	5	7	7	10	11	12	9	7	3	2	3	1.3	11.9	
26-Jun-07	3	3	2	5	4	2	9	11	10	11	10	10	8	9	7	8	5	3	4	3	7	8	8	9	4.3	11.2	
27-Jun-07	11	10	11	11	8	12	18	22	24	26	27	26	27	29	28	26	25	27	28	28	23	10	11	11	18.1	29.1	
28-Jun-07	11	10	10	15	12	15	12	16	17	18	22	20	20	19	20	18	18	21	25	21	26	27	24	13	16.0	26.7	
29-Jun-07	15	10	3	4	5	7	11	4	3	1	9	8	6	6	7	7	12	21	17	18	10	7	6	7	6.2	21.1	
30-Jun-07	6	8	11	11	11	13	20	29	31	28	29	30	29	28	25	19	23	25	22	32	24	24	31	28	21.3	31.8	
1-hr Vector	4.3	3.5	4.3	4.2	4.3	3.6	3.6	3.4	2.8	1.1	2.0	1.8	1.2	1.0	1.5	1.7	0.6	2.1	3.5	5.0	4.9	3.4	2.6	2.0			
Hourly Max	19.8	21.2	30.3	19.9	22.2	26.4	31.0	31.1	31.1	28.4	29.3	30.1	29.0	29.1	29.9	28.9	31.0	32.8	32.2	31.8	26.5	26.7	31.2	28.5			



## PASZA - Portable-Falher - Wind Direction Monthly Summary

Station: Portable-Falher  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Calm Time:	0 hrs	0% calms	Operational Time:	690 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	95.8%				
Percentile	99	95	75	50	25	5	1	Average
	352.4	327.0	262.8	138.8	102.1	34.2	9.0	120 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-Jun-07	150	149	121	142	86	114	135	226	317	343	357	4	19	22	304	328	336	344	4	32	36	81	48	49	22	NNE	
2-Jun-07	95	124	129	75	127	116	106	98	120	3	22	344	352	10	56	85	32	26	20	52	46	17	47	61	45	NE	
3-Jun-07	73	85	65	71	79	75	98	116	107	91	88	113	121	105	120	101	86	92	89	90	99	84	86	93	96	E	
4-Jun-07	103	107	104	105	107	113	114	112	113	122	126	130	128	128	118	118	114	114	116	114	104	101	108	112	115	ESE	
5-Jun-07	119	104	104	107	121	316	352	79	185	175	271	319	45	97	82	65	64	53	58	86	87	65	59	62	74	ENE	
6-Jun-07	77	55	42	37	41	43	40	41	48	51	40	40	36	40	34	9	350	357	9	21	28	20	17	36	37	NE	
7-Jun-07	53	74	115	101	104	173	160	176	223	262	279	279	275	258	263	252	278	294	287	283	274	262	277	281	266	W	
8-Jun-07	298	284	281	289	293	294	302	315	332	311	299	300	283	295	300	293	298	296	293	285	297	29	44	48	305	NW	
9-Jun-07	56	36	329	47	80	103	103	117	129	121	136	120	97	107	104	98	117	131	121	105	108	104	107	111	109	ESE	
10-Jun-07	109	115	116	129	128	130	121	117	121	125	130	138	131	123	116	122	124	94	123	123	94	137	140	127	123	ESE	
11-Jun-07	142	220	35	75	107	134	173	209	303	4	324	321	331	321	289	306	287	281	277	267	266	252	246	253	273	W	
12-Jun-07	251	271	125	148	170	227	264	277	278	280	276	260	262	271	294	296	318	297	337	25	76	190	224	242	271	W	
13-Jun-07	273	91	156	191	230	242	237	233	249	278	288	70	86	122	192	205	213	114	116	99	102	105	116	127	155	SSE	
14-Jun-07	108	107	104	120	139	127	81	128	31	6	80	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-
15-Jun-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	-
16-Jun-07	284	313	343	18	27	39	71	91	103	114	85	94	93	69	61	58	46	44	61	61	46	55	116	151	72	ENE	
17-Jun-07	73	46	10	313	345	277	306	316	337	341	335	310	329	312	276	270	291	280	355	50	49	54	15	26	338	NNW	
18-Jun-07	55	75	60	42	44	356	276	264	242	181	242	246	273	293	349	28	278	235	257	285	268	267	263	295	283	WNW	
19-Jun-07	299	305	283	251	227	260	342	346	326	323	273	259	292	289	28	94	88	76	66	82	186	199	191	271	329	NNW	
20-Jun-07	284	166	65	182	122	125	53	71	127	159	167	145	141	130	134	108	102	95	75	49	85	84	222	193	114	ESE	
21-Jun-07	108	105	141	137	142	151	141	143	207	303	319	281	266	259	256	275	267	272	268	268	278	280	272	306	240	WSW	
22-Jun-07	188	188	193	207	209	277	304	246	223	231	208	223	225	218	225	242	239	263	273	233	207	197	178	144	224	SW	
23-Jun-07	91	111	167	153	145	163	196	217	230	249	262	271	291	294	289	297	295	298	296	329	337	353	336	183	269	W	
24-Jun-07	175	134	119	131	160	171	196	228	215	200	202	199	202	217	223	164	195	215	196	180	156	151	79	122	186	S	
25-Jun-07	128	134	96	99	106	151	165	179	66	6	315	324	353	293	275	312	308	351	44	91	131	203	105	69	63	ENE	
26-Jun-07	67	279	268	254	225	228	251	266	276	257	261	251	247	247	231	230	260	238	263	162	102	101	112	109	240	WSW	
27-Jun-07	104	111	124	121	119	121	115	118	122	124	130	127	122	120	118	120	116	121	123	123	121	172	255	294	123	ESE	
28-Jun-07	330	330	67	105	118	119	123	124	114	112	124	121	125	118	130	122	131	124	124	117	122	128	126	125	119	ESE	
29-Jun-07	132	156	217	148	120	136	154	238	274	257	150	162	143	94	98	88	110	129	131	142	172	277	332	15	139	SE	
30-Jun-07	106	282	303	292	290	280	272	261	263	258	254	253	250	248	244	240	247	246	245	248	234	234	238	237	252	WSW	
Hourly Avg	102	102	96	110	120	140	134	140	161	166	181	206	189	153	119	113	191	112	83	92	103	116	124	108		N	

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

Station: Portable-Falher  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

**Wind Direction (WD)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**


Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	690 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	95.8%			
Percentile	99	95	75	50	25	5	1
	59.7	42.2	17.6	10.0	5.3	2.7	1.8

**Status Flag Characters**

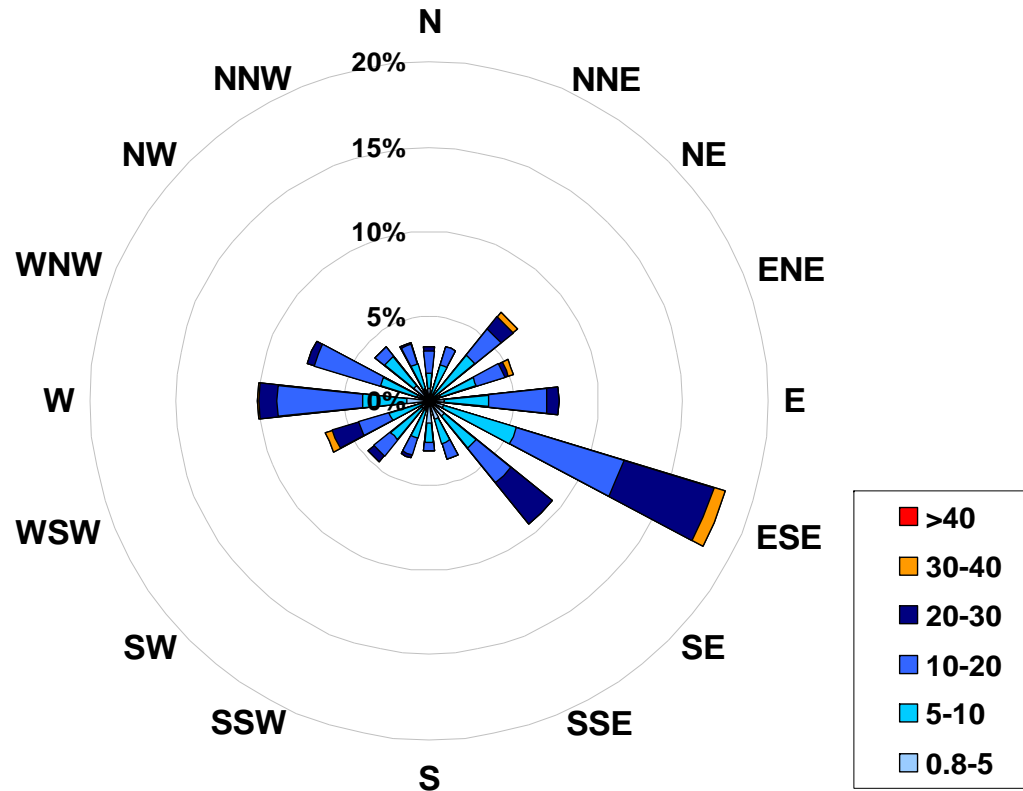
C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

**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-Jun-07	14	26	23	33	38	21	65	66	42	29	30	36	38	33	80	40	30	37	14	3	6	14	12	25	79.6		
2-Jun-07	11	8	26	16	51	20	10	9	23	9	14	9	6	7	7	16	39	23	12	7	10	5	14	15	51.4		
3-Jun-07	6	17	13	9	11	9	5	7	13	12	13	19	21	22	23	26	18	11	9	5	7	4	2	2	26.0		
4-Jun-07	1	2	3	1	2	2	3	4	7	9	9	10	12	10	10	12	9	8	6	3	2	3	2	3	11.9		
5-Jun-07	18	2	3	3	39	44	14	38	48	46	44	40	68	18	13	12	7	6	5	7	3	4	3	7	68.0		
6-Jun-07	5	6	3	4	2	5	4	4	7	10	14	14	14	22	18	18	16	17	13	15	5	4	12	4	22.1		
7-Jun-07	5	7	10	12	5	11	11	14	10	12	15	19	20	17	17	18	11	4	10	5	4	3	2	3	20.3		
8-Jun-07	3	6	3	3	3	5	5	6	6	6	8	12	11	11	11	14	14	10	10	5	16	9	2	6	16.0		
9-Jun-07	5	40	11	5	5	5	7	8	8	15	16	28	14	23	19	16	15	10	7	5	3	2	2	2	40.1		
10-Jun-07	2	2	3	2	2	2	3	3	4	5	4	6	7	8	9	13	15	13	7	6	9	5	3	8	14.7		
11-Jun-07	14	50	43	5	6	10	14	14	42	31	58	17	38	23	43	32	25	19	11	6	3	2	3	3	57.8		
12-Jun-07	3	47	10	10	9	7	5	4	5	5	7	7	4	6	7	7	8	8	5	6	11	12	2	10	46.8		
13-Jun-07	22	15	22	7	4	2	4	8	10	15	40	33	59	52	32	62	54	28	8	11	3	8	7	5	61.9		
14-Jun-07	6	2	5	7	27	10	27	46	44	51	34	N	N	N	N	N	N	N	N	N	N	N	N	N	50.9		
15-Jun-07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	28	9	5	2	4	8	50	49.7		
16-Jun-07	25	10	5	5	5	6	5	3	4	8	15	16	22	38	32	28	11	9	13	9	2	3	22	31	38.3		
17-Jun-07	34	11	18	37	6	16	12	18	27	26	39	19	59	53	36	40	24	20	20	4	12	11	12	21	59.4		
18-Jun-07	12	8	8	6	5	26	10	13	10	58	18	15	33	10	20	38	13	42	13	15	8	5	6	8	57.6		
19-Jun-07	8	6	18	7	7	8	9	8	9	13	17	14	20	17	19	11	5	7	8	12	14	6	19	13	19.6		
20-Jun-07	37	23	9	20	16	18	13	15	21	20	21	26	42	36	23	37	23	18	9	12	5	5	15	18	41.7		
21-Jun-07	16	9	6	4	4	3	3	5	17	7	13	14	17	12	9	8	6	6	6	3	10	11	7	13	16.7		
22-Jun-07	5	6	5	6	5	13	5	9	12	10	15	14	10	28	31	34	11	10	11	7	5	3	11	10	34.2		
23-Jun-07	17	17	14	15	17	9	5	3	4	5	7	8	9	8	12	10	11	13	12	9	7	8	30	19	30.1		
24-Jun-07	24	15	12	9	13	9	6	9	14	17	13	17	18	26	27	16	9	7	20	3	5	4	16	5	26.6		
25-Jun-07	7	9	51	14	9	13	18	39	65	53	63	41	54	49	30	23	15	11	7	9	16	34	26	50	64.8		
26-Jun-07	15	17	17	8	11	39	5	9	13	13	16	21	27	31	34	26	29	39	22	23	5	3	5	5	38.8		
27-Jun-07	4	4	4	5	4	3	3	4	5	6	6	9	8	9	10	10	7	6	4	3	3	8	14	14	13.7		
28-Jun-07	8	7	11	4	2	3	7	6	7	8	8	8	8	11	9	9	8	6	5	4	2	3	2	2	11.5		
29-Jun-07	3	13	27	12	22	9	9	17	45	54	13	25	24	37	33	29	25	5	4	5	10	11	14	16	54.0		
30-Jun-07	5	25	5	4	4	4	5	3	3	3	3	3	3	3	4	5	4	3	3	4	3	3	3	3	24.6		

Hourly Max	37	50	51	37	51	44	65	66	65	58	63	41	68	53	80	62	54	42	22	23	16	34	30	50
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1-hr Average Wind Rose (in km/hr) Located at the Portable-Falher Site for June 2007



Calms: 0%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	89
5	to	10	242
10	to	20	246
20	to	30	100
30	to	40	13
	>	40	0
Total Non-Zero Values			690

# PASZA – Valleyview Station

## Monthly Summary Tables, Graphs, and Roses

# PASZA - Valleyview - Sulphur Dioxide Monthly Summary

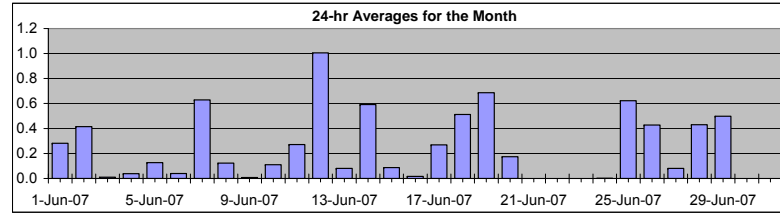
Station: Valleyview  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

## Sulphur Dioxide (SO<sub>2</sub>)

Monitoring Dates: June 1, 2007 to July 1, 2007

Objective Limit:	Alberta Environment: 1-hr 172 ppb 24-hr 57 ppb			
Summary				
Number of 1-hr Exceedances:	0			
Number of 24-hr Exceedances:	0			
Maximum 1-hr Average:	7.5 ppb	19-Jun	6:00	7:00
Maximum 24-hr Average:	1.0 ppb	12-Jun		



AIC Time:	30 hrs		Operational Time:	628 hrs					
Calibration Time:	5 hrs		AMD Operational Uptime:	92.1%					
Percentile	99	95	75	50	25	5	1	Average	Median
	3.7	1.7	0.3	0.0	0.0	0.0	0.0	0.3 ppb	0.0 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 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-Jun-07	A	0	0	0	0	0	0	1	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	3.6
2-Jun-07	A	0	0	0	0	0	0	0	2	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	4.6
3-Jun-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-Jun-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
5-Jun-07	A	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.1	1.4
6-Jun-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-Jun-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	3	3	0.6	5.8	
8-Jun-07	A	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.4
9-Jun-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
10-Jun-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
11-Jun-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0.3	1.7
12-Jun-07	A	0	0	0	0	3	4	1	1	1	2	2	3	1	1	2	1	2	1	0	0	0	0	0	0	1.0	3.8
13-Jun-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
14-Jun-07	A	0	0	0	0	0	0	2	5	2	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0.6	4.6
15-Jun-07	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.2
16-Jun-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
17-Jun-07	A	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0.3	1.3
18-Jun-07	A	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1	7	1	0	0	0	0	0	0.5	6.8
19-Jun-07	A	0	0	0	0	0	8	3	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0.7	7.5
20-Jun-07	A	0	0	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	0	0	P	0.2	0.3	
21-Jun-07	P	P	P	P	P	P	P	P	P	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	N	2.1	
22-Jun-07	A	2	2	2	2	2	2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	1.7	
23-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	1	1	1	1	1	0	N	1.3		
24-Jun-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
25-Jun-07	A	0	0	0	0	0	0	0	3	3	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0.6	3.3
26-Jun-07	A	1	0	2	0	0	0	0	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	4.5
27-Jun-07	A	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
28-Jun-07	A	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0.4	1.0
29-Jun-07	A	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0.5	2.0
30-Jun-07	A	1	1	1	1	1	1	1	1	1	1	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.8	
Hourly Avg	N	0.2	0.1	0.2	0.1	0.2	0.5	0.4	0.9	0.7	0.5	0.3	0.4	0.2	0.2	0.3	0.3	0.2	0.5	0.3	0.3	0.4	0.3	0.3			
Hourly Max	0.0	1.7	1.7	1.7	1.7	2.6	7.5	3.3	4.6	4.6	3.3	2.4	2.5	1.3	1.3	1.7	1.6	1.5	6.8	2.3	2.9	5.8	2.9	2.6			

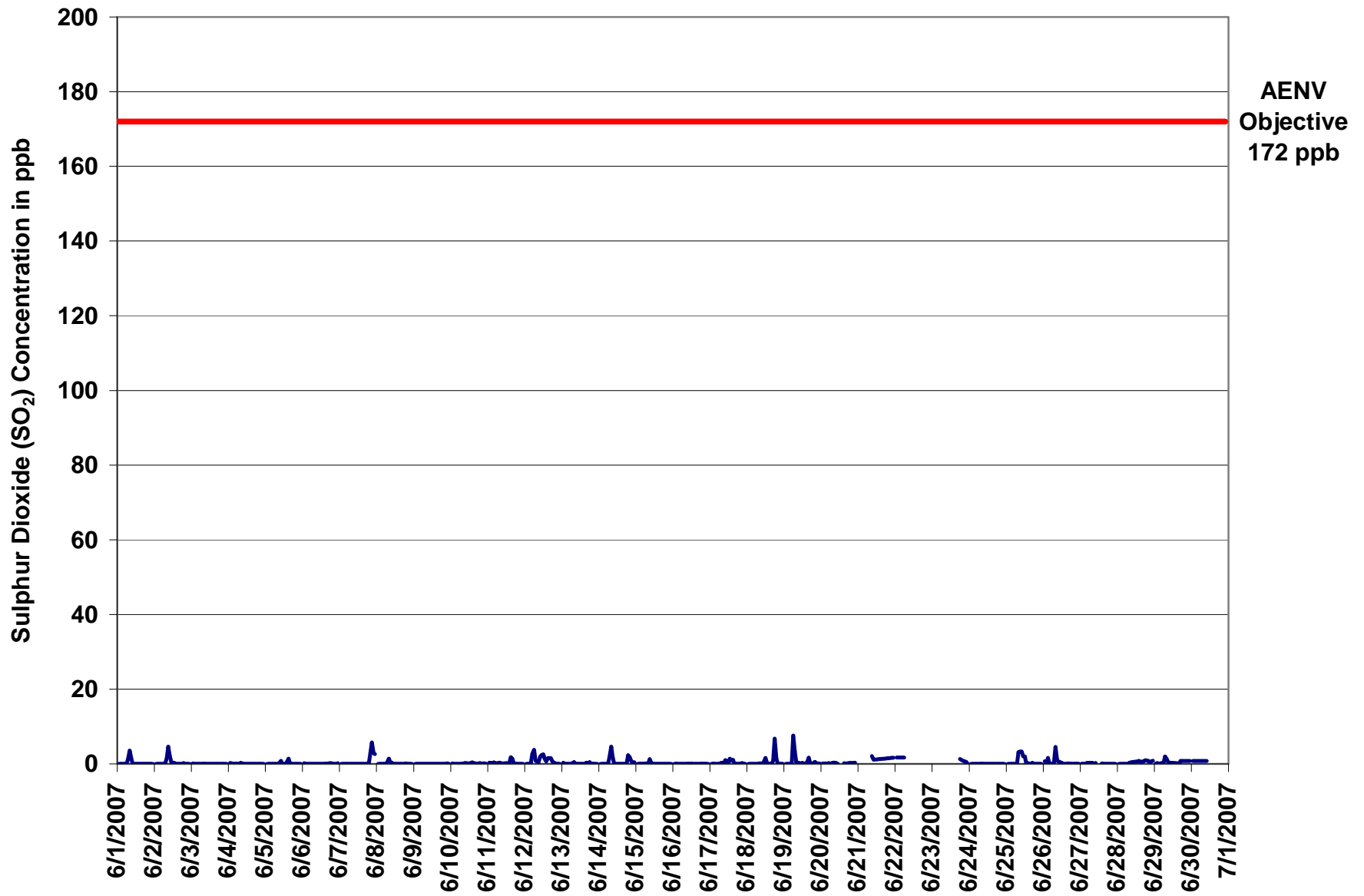


Figure 58. PASZA - Valleyview Sulphur Dioxide 1-hr Average Monthly Trend

Station: Valleyview  
 Station Owner: PASZA

**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

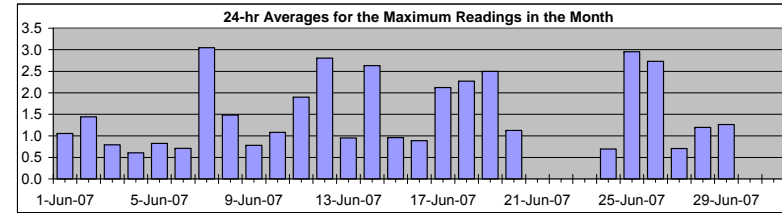
**Sulphur Dioxide (SO<sub>2</sub>)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	18.6	ppb	26-Jun	8:00 9:00
Maximum 24-hr Value:	3.0	ppb	7-Jun	

AIC Time:	30 hrs	Operational Time:	628 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	92.1%						
Percentile	99	95	75	50	25	5	1	Average	Median
	13.5	5.9	1.2	0.8	0.7	0.3	0.0	1.5 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																								24-hour Average	Daily Maximum			
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	0:00
1-Jun-07	A		0	1	0	0	0	1	5	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	7.3
2-Jun-07	A		1	1	0	0	0	0	0	6	9	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.4	9.1
3-Jun-07	A		1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	1	1	1	1	1	1	1	1	0.8	1.0
4-Jun-07	A		1	1	1	1	1	1	1	1	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.6	1.5
5-Jun-07	A		0	0	0	0	0	0	1	1	1	2	0	0	0	5	3	0	0	1	0	0	0	0	0	0	0	0.8	5.2
6-Jun-07	A		1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	0.7	1.5
7-Jun-07	A		2	0	0	0	0	0	0	0	0	3	1	3	1	6	0	4	2	0	5	8	10	11	13	13	3.0	13.3	
8-Jun-07	A		0	0	0	0	2	0	5	5	6	4	1	2	0	0	0	0	0	0	7	0	0	0	0	1	1.5	6.5	
9-Jun-07	A		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
10-Jun-07	A		1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1.1	2.1
11-Jun-07	A		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	7	1	1	1	1	1	1	1	1	1.9	13.9
12-Jun-07	A		1	1	1	1	10	11	2	2	2	3	4	4	3	1	9	3	3	2	1	1	1	1	1	1	1	2.8	10.8
13-Jun-07	A		1	1	1	1	1	1	1	2	1	1	1	1	0	1	1	3	1	2	2	1	1	1	1	0	1.0	2.6	
14-Jun-07	A		0	0	0	0	1	1	10	12	8	1	1	0	1	1	1	1	0	1	14	5	2	1	1	1	2.6	13.5	
15-Jun-07	A		1	1	1	1	1	1	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	3.5	
16-Jun-07	A		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0.9	1.1	
17-Jun-07	A		1	1	1	1	1	1	1	1	4	5	7	1	9	4	5	1	1	1	1	1	1	1	1	1	2.1	9.0	
18-Jun-07	A		1	1	1	1	1	1	1	1	1	1	4	5	2	1	6	1	5	14	5	1	1	1	1	1	2.3	13.5	
19-Jun-07	A		1	1	1	1	2	16	10	2	1	1	1	1	1	1	2	9	2	1	1	2	1	1	1	1	2.5	15.6	
20-Jun-07	A		1	1	1	1	1	1	1	1	1	1	1	C	C	A	1	1	1	1	1	1	1	1	P	1.1	1.3		
21-Jun-07	P	P	P	P	P	P	P	P	P	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	N	2.1	
22-Jun-07	A		2	2	2	2	2	2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	1.7	
23-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	2	2	2	1	1	1	1	N	2.3	
24-Jun-07	A		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	0.7	1.6	
25-Jun-07	A		1	1	1	1	1	1	1	16	10	16	5	7	1	2	1	1	3	1	1	1	1	1	1	0	3.0	15.7	
26-Jun-07	A		5	1	4	1	1	1	7	19	7	4	6	3	1	1	1	1	1	1	1	1	1	1	1	1	2.7	18.6	
27-Jun-07	A		1	1	1	1	1	1	1	1	1	1	C	C	C	1	1	1	1	1	0	1	0	0	0	0.7	1.3		
28-Jun-07	A		1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	1.7	
29-Jun-07	A		1	1	1	1	1	1	7	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3	7.5	
30-Jun-07	A		1	1	1	1	1	1	1	1	1	1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.8	
Hourly Avg	N	1.0	0.8	0.8	0.7	1.1	1.7	2.3	3.3	2.5	2.1	1.6	1.5	1.2	1.3	2.0	1.5	1.2	1.3	1.9	1.3	1.2	1.2	1.3					
Hourly Max	0.0	4.5	1.7	3.5	1.7	9.5	15.6	10.3	18.6	9.7	15.6	6.8	7.2	9.0	5.5	13.9	8.9	4.7	13.5	13.5	8.1	9.9	10.9	13.3					

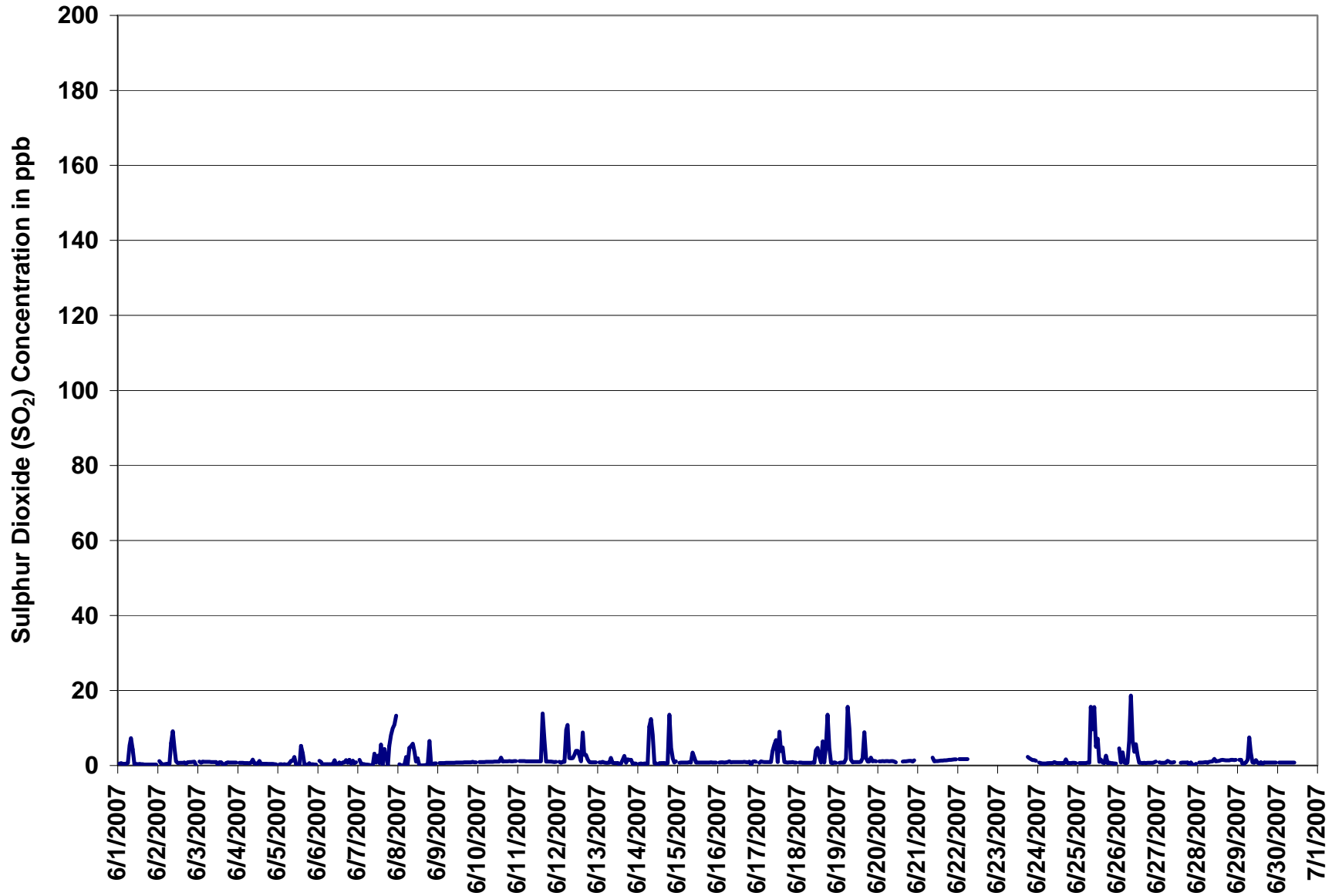
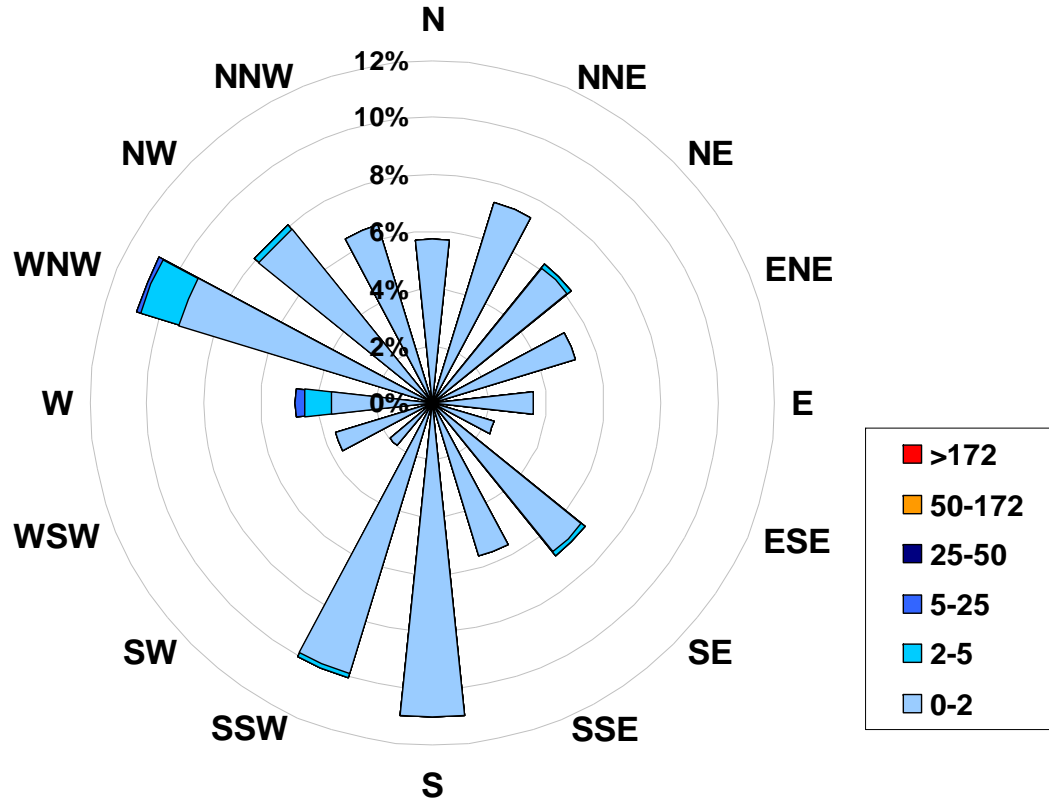


Figure 59. PASZA - Valleyview Sulphur Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



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



**Calms: 1%**

Frequency Distribution of SO <sub>2</sub> in ppb			
Range		Frequency (hrs)	
0.0	< 2		606
2	to 5		19
5	to 25		3
25	to 50		0
50	to 172		0
	> 172		0
Total Non-Zero Values			628

## PASZA - Valleyview - Hydrogen Sulphide Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

### Hydrogen Sulphide (H<sub>2</sub>S)

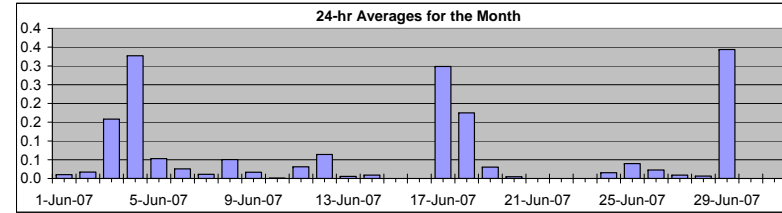
Monitoring Dates: June 1, 2007 to July 1, 2007

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

**Summary**

Number of 1-hr Exceedances:	1
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	12.2 ppb 21-Jun 20:00 21:00
Maximum 24-hr Value:	0.3 ppb 29-Jun

AIC Time:	30 hrs	Operational Time:	628 hrs
Calibration Time:	5 hrs	AMD Operational Uptime:	92.1%
Percentile	99	95	75
	1.9	0.4	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
	0.1	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	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-Jun-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	0.2
2-Jun-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	0.3
3-Jun-07	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0.2	2.1	
4-Jun-07	A	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.0	
5-Jun-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	
6-Jun-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	0.2	
7-Jun-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	0.1	
8-Jun-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
9-Jun-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	0.1	
10-Jun-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	0.0	
11-Jun-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	0.1	
12-Jun-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	
13-Jun-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	0.1	
14-Jun-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	0.1	
15-Jun-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	0.0	
16-Jun-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	0.0	
17-Jun-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	5	0.3	4.9		
18-Jun-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	
19-Jun-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	0.2	
20-Jun-07	A	0	0	0	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	0	0	P	0.0	0.1		
21-Jun-07	P	P	P	P	P	P	P	P	P	2	3	1	0	0	0	0	0	0	0	0	4	12	0	0	0	N	12.2		
22-Jun-07	A	0	0	0	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0		
23-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	0	0	0	0	0	0	0	0	N	0.1		
24-Jun-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		
25-Jun-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		
26-Jun-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		
27-Jun-07	A	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0.0	0.1		
28-Jun-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		
29-Jun-07	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0.3	0.6		
30-Jun-07	A	1	1	1	1	1	0	0	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.6		
Hourly Avg	N	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	0.0	0.2	0.5	0.1	0.1	0.3				
Hourly Max	0.0	1.1	2.0	1.9	0.8	0.5	0.5	0.5	0.4	1.9	2.8	0.9	0.3	0.3	0.3	0.3	0.4	0.5	0.5	3.8	12.2	0.6	0.6	4.9					

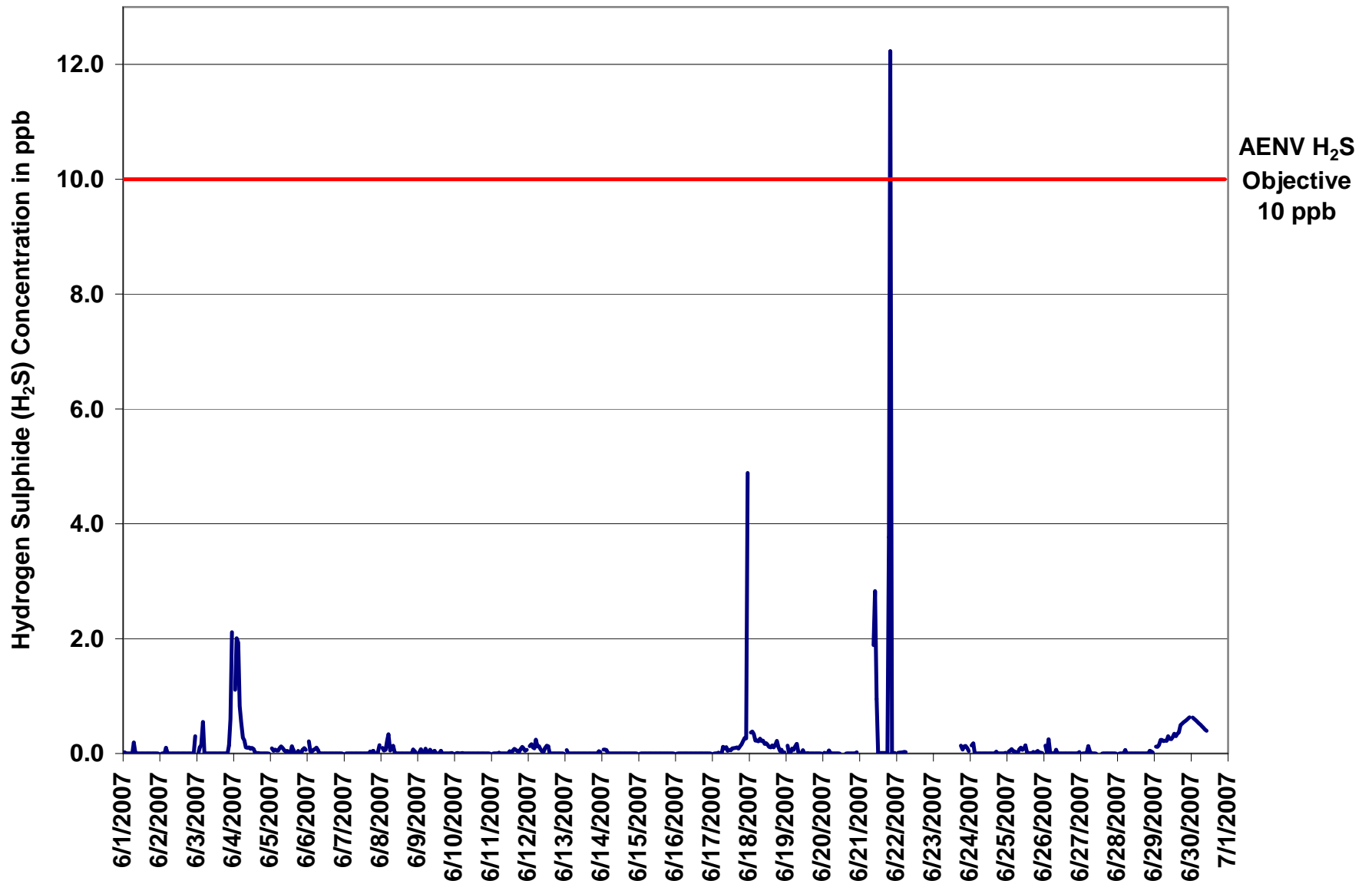


Figure 60. PASZA - Valleyview Hydrogen Sulphide 1-hr Average Monthly Trend

Station: Valleyview  
 Station Owner: PASZA

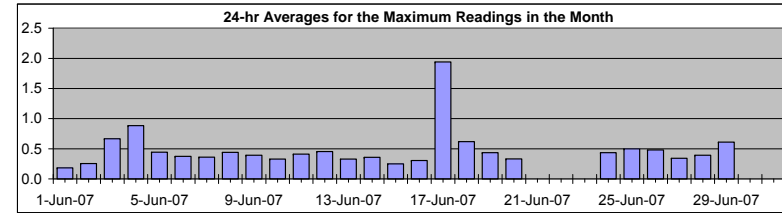
**INSTANTANEOUS (30 Second) MAXIMUM TABLE**

**Hydrogen Sulphide (H<sub>2</sub>S)**

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**

Maximum 1-hr Value:	34.5	ppb	17-Jun	23:00 0:00
Maximum 24-hr Value:	1.9	ppb	17-Jun	



AIC Time:	30 hrs	Operational Time:	628 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	92.1%						
Percentile	99	95	75	50	25	5	1	Average	Median
	3.2	0.9	0.5	0.4	0.3	0.0	0.0	0.5 ppb	0.4 ppb

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	Daily Maximum			
	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00			22:00	23:00	0:00
1-Jun-07	A		1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.3
2-Jun-07	A		0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.3	3.2
3-Jun-07	A		1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	4	0.7	3.9	
4-Jun-07	A		3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	3.5
5-Jun-07	A		1	0	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	0.4	0.6	
6-Jun-07	A		1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0.4	0.7	
7-Jun-07	A		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.4	0.6	
8-Jun-07	A		0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.4	0.9	
9-Jun-07	A		0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.4	0.6	
10-Jun-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	0.3	0.5	
11-Jun-07	A		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0.4	0.6	
12-Jun-07	A		1	0	1	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0.5	0.8	
13-Jun-07	A		1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
14-Jun-07	A		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	
15-Jun-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	0.5	
16-Jun-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	0.3	0.5	
17-Jun-07	A		0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	34	1.9	34.5	
18-Jun-07	A		1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	1	0	1	0	1	0	1	0	2	0.6	1.6	
19-Jun-07	A		1	0	0	1	1	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.8	
20-Jun-07	A		0	0	0	0	1	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	0	0	0	P	0.3	0.6	
21-Jun-07	P	P	P	P	P	P	P	P	P	2	3	1	0	C	0	0	0	0	0	0	0	4	12	0	0	0	N	12.2	
22-Jun-07	A		0	0	0	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0	
23-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	1	1	1	1	1	0	0	0	N	0.5		
24-Jun-07	A		1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.4	1.4	
25-Jun-07	A		0	1	0	1	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0.5	1.4	
26-Jun-07	A		2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.5	2.1	
27-Jun-07	A		0	0	0	0	1	1	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9	
28-Jun-07	A		0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.6	
29-Jun-07	A		0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0.6	0.9	
30-Jun-07	A		1	1	1	1	1	0	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.6		
Hourly Avg	N		0.6	0.6	0.6	0.6	0.5	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	0.5	0.7	0.4	0.5	1.9			
Hourly Max	0.0		3.1	3.5	2.8	2.2	1.6	0.9	1.3	0.6	1.9	2.8	1.8	1.4	0.8	0.6	0.9	0.7	1.4	0.7	3.8	12.2	0.8	3.8	34.5				

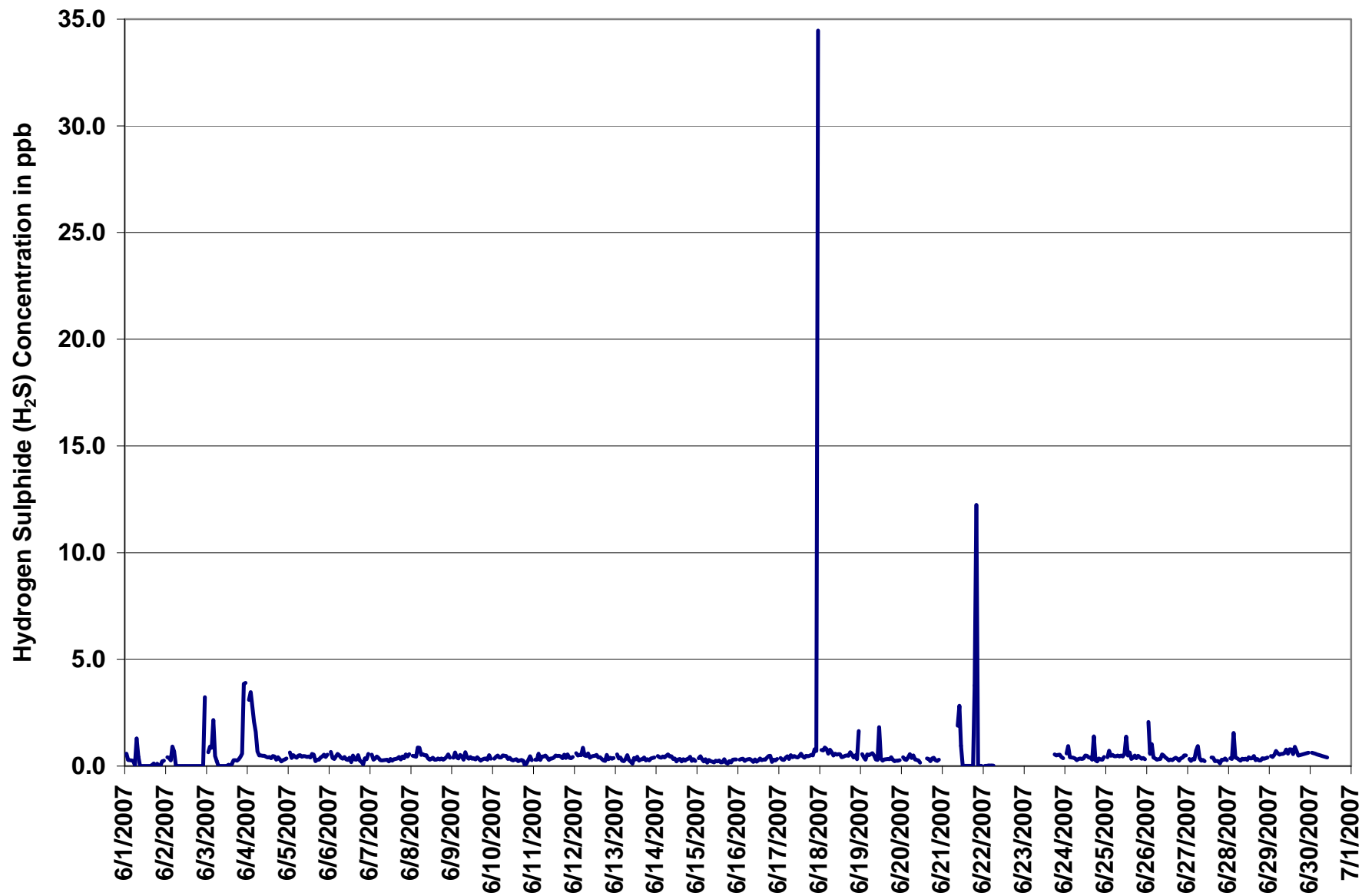
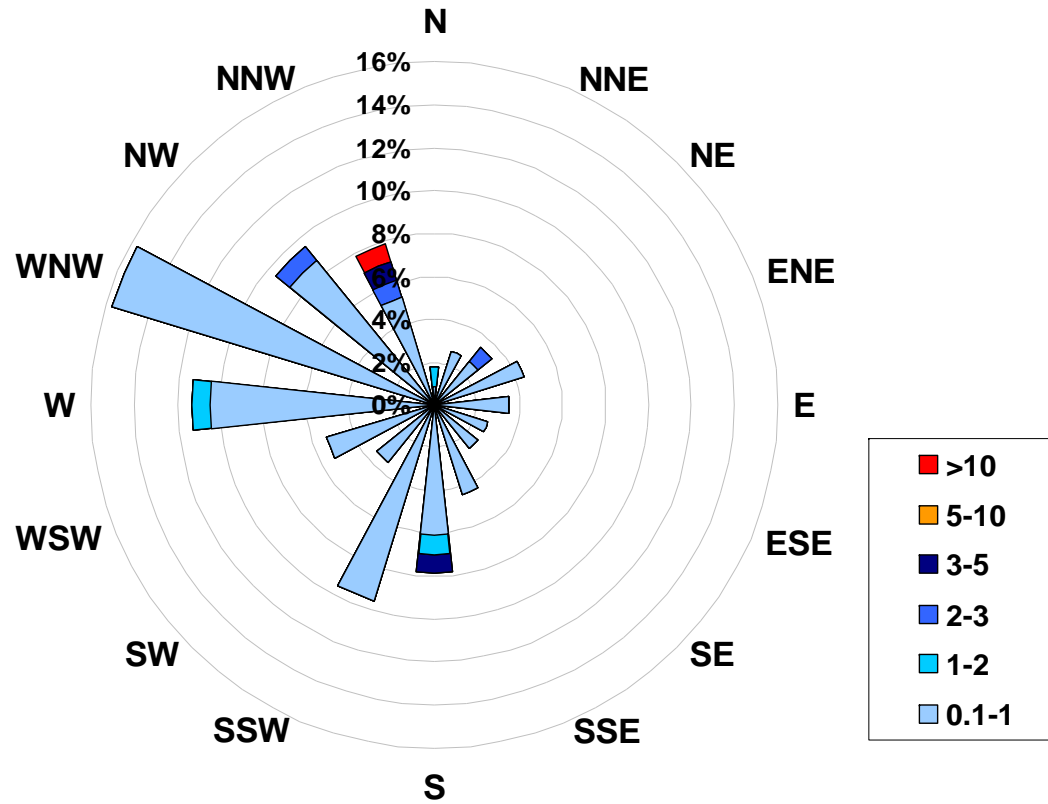


Figure 61. PASZA - Valleyview Hydrogen Sulphide Instantaneous (30 Second) Maximum Value Monthly Trend

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



<b>Calms:</b>	<b>1%</b>
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Frequency Distribution of H <sub>2</sub> S in ppb			
Range		Frequency (hrs)	
0.1	< 1	619	
1	to 2	3	
2	to 3	3	
3	to 5	2	
5	to 10	0	
	> 10	1	
Total Non-Zero Values		628	

# PASZA - Valleyview - Relative Humidity Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

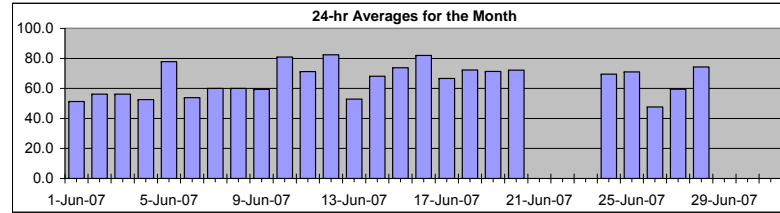
## HOURLY AVERAGE TABLE

## Relative Humidity (RH)

Monitoring Dates: June 1, 2007 to July 1, 2007

### Summary

Maximum 1-hr Average:	99.2	%	20-Jun	5:00 6:00
Maximum 24-hr Value:	82.4	%	12-Jun	



AIC Time:	0 hrs	Operational Time:	623 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	86.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	98.1	96.7	82.6	67.4	49.0	31.1	26.2	65.8 %	67.4 %

### 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	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	Average	Maximum	
1-Jun-07	75	85	86	89	88	89	76	67	58	46	41	33	28	26	25	25	27	33	34	36	38	38	40	49	51.3	89.3	
2-Jun-07	55	60	69	76	85	82	76	67	65	57	47	43	40	45	43	40	38	37	37	39	45	54	67	80	56.2	84.8	
3-Jun-07	84	87	90	95	97	94	83	71	68	58	45	38	35	32	31	30	29	28	30	31	36	45	51	58	56.2	97.3	
4-Jun-07	62	66	77	78	75	78	69	58	53	47	43	41	38	37	36	35	34	36	41	45	51	52	54	57	52.6	78.0	
5-Jun-07	65	74	79	78	81	89	90	88	89	84	83	81	80	78	76	77	73	72	74	72	76	82	69	58	77.8	89.5	
6-Jun-07	63	67	70	70	59	64	84	89	86	75	61	50	37	28	26	26	25	25	26	31	38	46	58	87	53.9	89.2	
7-Jun-07	94	96	97	96	97	93	83	73	67	53	35	31	30	28	28	27	34	44	52	54	56	58	58	59	60.0	96.8	
8-Jun-07	62	61	69	70	82	75	75	74	69	63	58	55	54	49	47	45	40	38	39	41	52	69	79	74	60.0	82.4	
9-Jun-07	70	74	74	77	78	82	80	72	66	57	46	43	41	41	40	41	44	42	46	50	52	57	67	82	59.4	82.2	
10-Jun-07	87	91	92	95	97	96	94	93	92	89	82	71	62	53	64	80	67	76	70	65	71	78	85	93	81.0	96.7	
11-Jun-07	97	97	98	97	98	94	93	77	69	60	56	53	49	48	44	42	49	52	60	70	69	76	80	82	71.2	97.8	
12-Jun-07	81	86	87	85	75	74	79	82	86	85	86	85	82	84	81	71	73	79	80	83	85	89	92	89	82.4	92.0	
13-Jun-07	93	87	79	80	87	74	69	63	52	42	41	39	38	32	29	27	27	26	27	28	44	57	62	66	52.9	92.6	
14-Jun-07	70	77	81	85	86	86	83	77	71	65	57	53	51	48	49	48	57	66	63	59	67	72	78	85	68.0	86.0	
15-Jun-07	93	96	97	97	97	97	92	82	73	67	63	57	54	57	51	45	48	50	54	60	74	83	89	93	73.7	97.3	
16-Jun-07	95	95	97	97	97	96	95	90	87	80	66	61	59	71	77	66	56	64	71	79	85	89	96	98	81.9	97.7	
17-Jun-07	98	98	98	98	98	97	93	88	82	73	64	43	40	43	44	33	33	34	38	32	46	58	79	89	66.6	98.0	
18-Jun-07	95	95	97	96	92	90	89	85	80	78	68	59	50	47	44	67	85	80	68	56	44	46	53	74	72.3	96.7	
19-Jun-07	79	79	81	80	89	85	68	68	67	68	69	65	61	53	53	53	47	50	74	70	78	87	92	96	71.3	95.9	
20-Jun-07	98	98	99	99	99	99	99	94	81	73	63	55	49	47	46	46	49	56	57	58	62	63	69	P	72.2	99.2	
21-Jun-07	P	P	P	P	P	P	P	P	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
22-Jun-07	N	N	N	N	N	N	N	N	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0
23-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	32	31	33	38	54	80	76	N	79.5	
24-Jun-07	79	90	91	96	95	95	89	74	55	46	45	44	42	54	71	60	55	57	64	66	65	69	78	89	69.5	95.6	
25-Jun-07	92	96	97	98	98	98	90	72	68	64	63	60	56	55	65	50	52	48	48	53	66	67	74	74	71.1	98.1	
26-Jun-07	72	60	61	67	78	75	66	56	46	41	37	35	32	32	30	28	28	28	29	32	41	48	55	66	47.7	78.4	
27-Jun-07	65	68	70	76	77	74	67	59	51	44	47	48	47	42	39	38	41	44	57	71	67	73	79	85	59.5	85.2	
28-Jun-07	88	87	87	88	93	95	93	81	75	73	67	63	60	57	57	60	61	60	62	66	71	78	80	81	74.2	95.5	
29-Jun-07	86	92	94	95	97	95	88	84	85	85	75	67	58	52	49	48	60	N	N	N	N	N	N	N	N	N	97.1
30-Jun-07	N	N	N	N	N	N	N	N	N	N	N	N	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0
Hourly Avg	80.5	83.1	85.2	86.9	88.3	87.2	83.2	76.3	70.8	64.5	58.0	52.9	48.9	47.6	47.9	46.5	47.3	48.4	51.2	53.1	58.4	65.0	71.6	77.6			
Hourly Max	97.6	98.4	98.9	99.0	99.0	99.2	99.2	93.8	92.3	89.1	85.5	85.5	82.2	83.6	81.0	80.4	84.6	79.9	80.1	82.7	85.3	89.3	95.6	97.7			

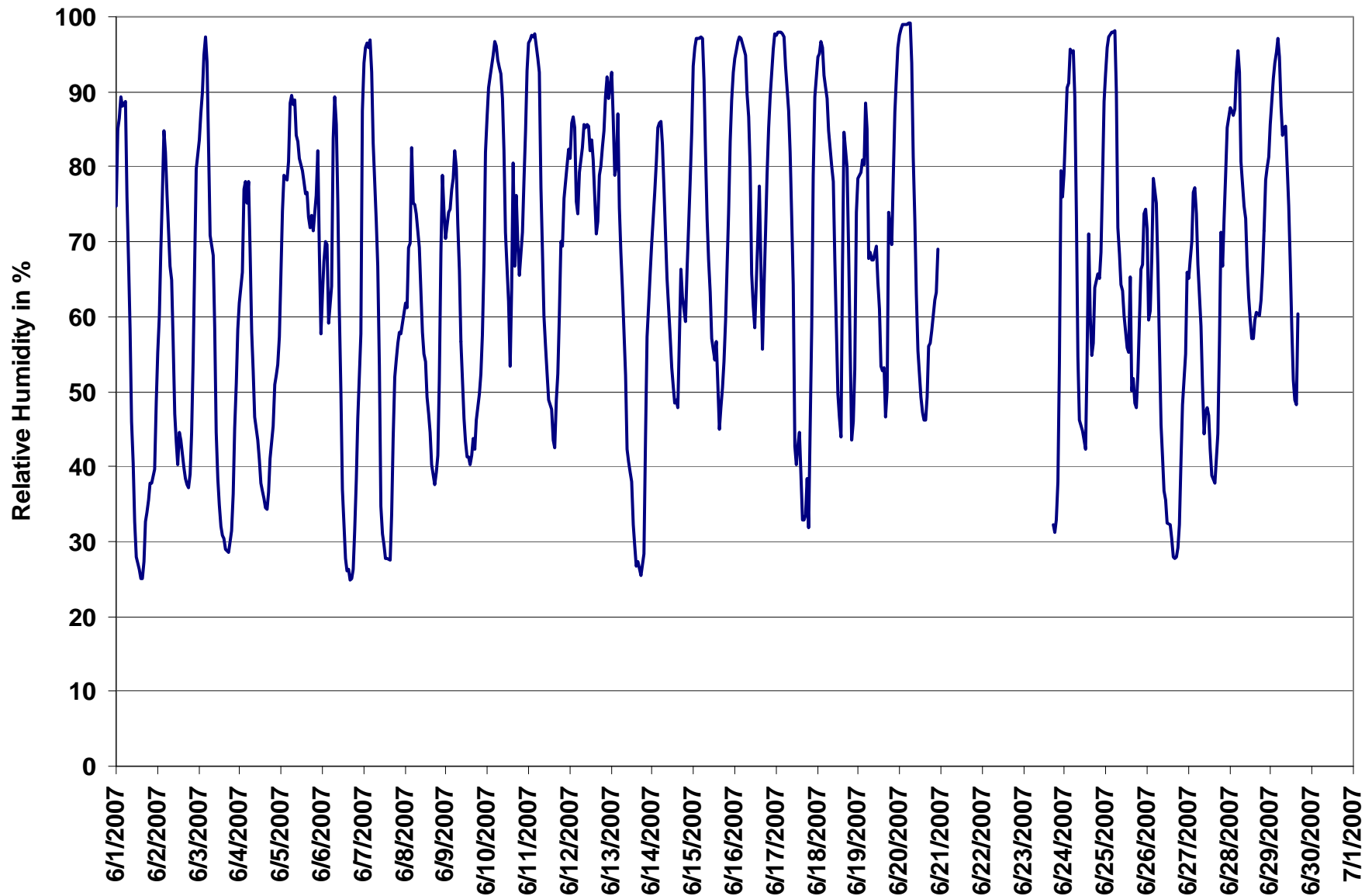


Figure 62. PASZA - Valleyview Relative Humidity 1-hr Average Monthly Trend



# PASZA - Valleyview - Temperature Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

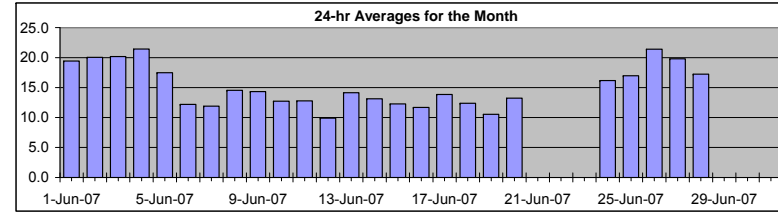
## Ambient Temperature (T)

Monitoring Dates: June 1, 2007 to July 1, 2007

### Summary

Maximum 1-hr Average:	27.8 °C	26-Jun	17:00 18:00
Maximum 24-hr Value:	21.4 °C	4-Jun	

AIC Time:	0 hrs	Operational Time:	623 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	86.5%						
Percentile	99	95	75	50	25	5	1	Average	Median
	26.9	25.3	18.6	15.3	11.3	7.4	4.7	15.3 °C	15.3 °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	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-Jun-07	13	12	11	10	9	10	13	16	18	20	22	24	25	26	26	27	26	25	25	24	23	22	21	19	19.4	26.7	
2-Jun-07	17	15	14	13	11	12	14	17	18	21	23	24	25	25	24	25	25	26	26	25	24	21	18	16	20.1	25.6	
3-Jun-07	15	14	13	12	11	11	14	17	18	21	24	25	26	26	26	27	27	26	26	25	23	21	20	18	20.2	26.7	
4-Jun-07	16	16	13	13	13	13	15	19	21	23	24	25	26	26	27	27	27	27	26	25	23	23	22	22	21.4	27.4	
5-Jun-07	20	18	17	16	16	15	16	16	16	16	17	17	18	18	19	20	21	19	19	19	18	17	17	16	17.5	20.6	
6-Jun-07	15	14	13	13	11	9	7	7	7	9	11	13	14	15	15	16	16	16	16	15	14	11	9	6	12.2	16.0	
7-Jun-07	5	4	3	2	2	3	5	8	11	15	16	17	17	18	18	19	18	17	16	15	15	15	14	11.9	18.5		
8-Jun-07	13	13	12	12	11	11	11	12	13	14	15	16	16	17	18	18	19	19	19	17	16	14	11	11	14.5	19.2	
9-Jun-07	12	11	10	9	9	8	9	11	12	15	17	17	18	19	19	19	19	18	18	17	16	16	14	12	14.3	19.1	
10-Jun-07	11	11	10	10	10	10	11	11	12	12	14	15	16	18	15	12	15	14	15	15	14	12	11	10	12.7	17.6	
11-Jun-07	9	8	9	9	9	9	10	12	13	14	15	16	16	17	17	18	17	16	13	13	11	11	10	12.8	17.6		
12-Jun-07	10	10	9	10	10	10	9	9	9	8	8	8	8	9	9	11	12	12	12	12	11	10	10	9.9	11.9		
13-Jun-07	9	9	9	8	8	8	9	12	14	15	17	17	17	18	18	19	19	20	20	20	17	14	12	11	14.1	19.7	
14-Jun-07	11	11	10	10	10	10	10	11	13	14	15	17	17	17	18	17	15	14	15	15	13	12	11	10	13.1	17.7	
15-Jun-07	8	7	7	6	6	6	8	11	13	15	16	17	18	18	16	16	17	16	16	15	13	11	10	9	12.3	17.8	
16-Jun-07	8	8	8	6	8	8	9	10	11	12	16	17	17	14	12	15	17	15	14	13	12	11	10	9	11.7	17.1	
17-Jun-07	9	8	7	7	7	7	9	11	13	14	15	18	18	18	17	19	20	20	19	21	17	15	12	11	13.9	20.6	
18-Jun-07	9	9	8	7	8	8	8	10	11	12	14	16	18	19	20	15	12	14	15	15	15	14	12	9	12.4	19.9	
19-Jun-07	7	6	5	5	4	5	8	10	11	11	11	12	13	14	15	15	16	15	12	13	12	11	10	8	10.5	16.0	
20-Jun-07	7	6	6	6	5	6	7	9	12	14	15	16	18	18	19	20	19	18	18	18	16	16	15	P	13.2	19.5	
21-Jun-07	P	P	P	P	P	P	P	P	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	
22-Jun-07	N	N	N	N	N	N	N	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0	
23-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	24	24	23	22	19	15	13	N	23.5	
24-Jun-07	12	11	10	9	9	9	11	15	19	20	21	22	23	21	18	20	20	19	18	19	18	16	15	13	16.2	23.2	
25-Jun-07	12	11	10	9	8	9	12	15	16	17	19	20	21	21	20	21	22	23	22	23	21	19	18	17	17.0	22.7	
26-Jun-07	17	18	17	15	13	13	16	19	20	22	23	24	25	26	26	27	28	28	27	27	25	22	20	18	21.4	27.8	
27-Jun-07	18	18	17	15	15	15	18	22	24	25	25	26	27	22	23	23	23	23	20	17	17	15	14	13	19.8	27.1	
28-Jun-07	12	13	13	13	12	11	12	15	16	17	18	20	21	22	22	21	21	22	22	21	19	18	17	16	17.2	22.3	
29-Jun-07	15	14	14	13	13	14	15	16	16	16	18	20	22	23	23	24	22	N	N	N	N	N	N	N	N	23.5	
30-Jun-07	N	N	N	N	N	N	N	N	N	N	N	P	P	P	P	P	P	P	P	P	P	P	P	P	N	0.0	
Hourly Avg	12.0	11.3	10.6	10.0	9.4	9.6	11.1	13.1	14.5	15.9	17.3	18.4	19.2	19.4	19.4	19.7	19.7	19.5	18.9	18.5	17.3	15.7	14.2	12.8			
Hourly Max	19.5	17.6	17.1	16.3	16.2	15.4	18.3	21.6	24.2	25.3	25.3	26.2	27.1	26.4	26.9	27.4	27.6	27.8	27.3	26.9	25.1	23.0	22.5	21.5			

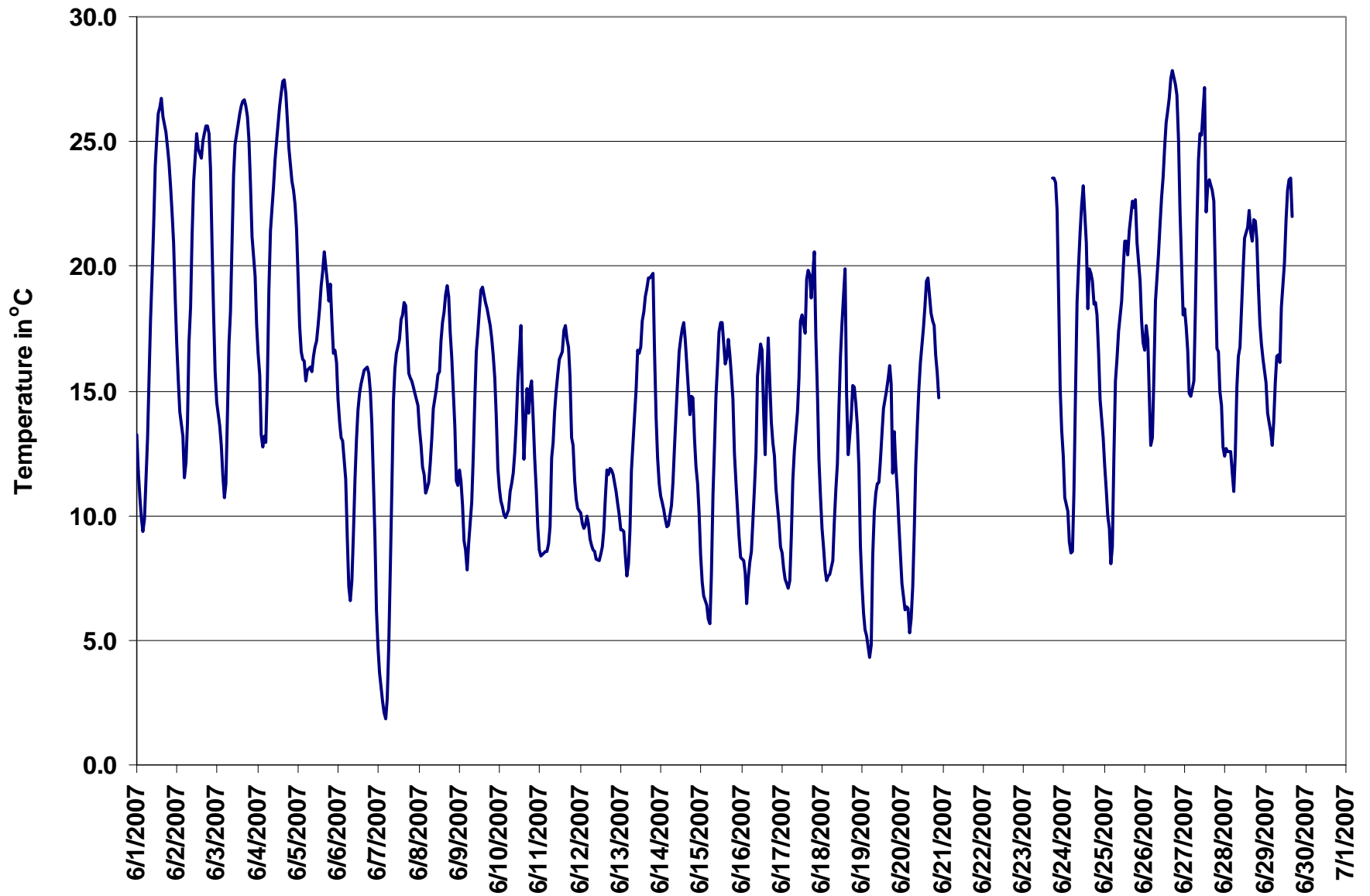


Figure 63. PASZA - Valleyview Temperature 1-hr Average Monthly Trend

# PASZA - Valleyview - Scalar Wind Speed Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

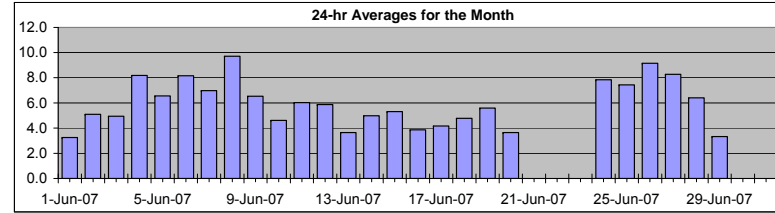
## Wind Speed (WSs)

Monitoring Dates: June 1, 2007 to July 1, 2007

### Summary

Maximum 1-hr Average:	21.6	km/hr	23-Jun	17:00 18:00
Maximum 24-hr Value:	9.7	km/hr	8-Jun	

Calm Time:	5 hrs	1% calms	Operational Time:	658 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	92.1%				
Percentile	99	95	75	50	25	5	1	AverageS
	17.3	13.4	8.6	4.9	3.0	1.7	1.1	6.1 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	0:00		
1-Jun-07	2	2	3	3	2	2	1	2	2	3	3	4	5	6	6	6	4	3	5	3	3	3	2	2		3.2	6.2
2-Jun-07	2	3	3	2	2	2	2	2	4	3	3	4	6	16	17	13	10	5	7	5	3	4	2	2		5.1	16.6
3-Jun-07	2	2	2	2	2	1	1	1	3	5	7	7	7	9	9	10	10	10	8	7	4	4	3	3		4.9	10.0
4-Jun-07	3	3	3	3	4	4	5	6	7	13	14	16	16	14	14	12	13	11	8	8	5	8	4	2		8.2	16.0
5-Jun-07	2	2	3	4	2	4	4	5	6	5	7	12	12	12	10	8	9	15	9	4	4	2	6	8		6.5	15.2
6-Jun-07	8	5	5	9	13	10	8	5	3	4	10	10	10	12	13	12	12	12	12	10	6	3	2	2		8.1	13.2
7-Jun-07	2	2	2	2	2	3	4	3	4	4	7	8	8	9	10	12	14	16	13	9	7	7	11	8		7.0	16.5
8-Jun-07	11	14	12	10	11	11	10	12	11	10	10	7	10	11	12	13	13	13	12	10	3	2	2	3		9.7	13.8
9-Jun-07	3	2	5	5	5	4	4	5	3	5	5	6	5	7	9	12	14	12	11	9	6	4	8	7		6.5	14.2
10-Jun-07	8	4	3	3	3	2	2	5	6	5	4	3	3	5	12	7	7	6	6	4	4	4	3	2		4.6	12.3
11-Jun-07	3	4	4	3	2	2	2	5	9	9	9	8	10	8	10	12	9	5	6	7	5	3	3	4		6.0	11.9
12-Jun-07	5	6	4	3	6	11	7	5	5	6	11	12	14	10	9	7	2	3	3	3	2	2	2	2		5.9	14.4
13-Jun-07	3	3	2	3	2	2	3	2	4	6	3	3	4	5	4	5	5	3	3	2	6	5	4	5		3.6	6.1
14-Jun-07	3	2	3	3	3	1	1	3	5	6	6	6	7	11	10	11	8	6	7	8	3	3	3	2		5.0	10.6
15-Jun-07	3	3	3	3	2	2	2	5	5	4	6	5	10	7	11	5	5	8	6	9	12	6	4	4		5.3	11.6
16-Jun-07	3	1	3	6	4	2	1	2	3	6	4	8	7	7	4	4	5	5	4	3	1	2	2	2		3.9	8.2
17-Jun-07	2	3	2	4	2	2	2	2	3	5	6	5	10	13	11	5	6	6	3	1	2	2	2	2		4.2	12.6
18-Jun-07	2	2	2	2	2	2	2	2	2	4	4	5	4	4	4	12	7	6	9	11	13	8	4	3		4.8	12.9
19-Jun-07	4	3	3	3	2	4	11	15	15	12	10	7	5	4	2	4	6	7	5	2	3	3	2	2		5.6	14.9
20-Jun-07	2	2	3	1	2	2	3	2	2	4	3	5	4	4	4	4	5	6	5	5	4	4	7	P		3.6	7.1
21-Jun-07	P	P	P	P	P	P	P	P	P	9	10	8	13	11	12	11	13	12	10	11	5	calm	calm	2		N	13.0
22-Jun-07	3	1	1	1	calm	1	2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		N	3.0
23-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	22	20	13	7	4	4	5		N	21.6
24-Jun-07	5	5	3	4	4	5	6	7	6	8	11	10	8	11	9	13	9	8	12	12	11	9	8	4		7.8	13.2
25-Jun-07	2	2	3	2	2	4	5	7	10	14	10	6	6	14	9	18	16	20	8	3	4	5	4	4		7.4	19.9
26-Jun-07	8	15	9	6	6	6	5	7	16	20	19	15	12	10	8	10	7	6	6	5	5	7	5	6		9.2	20.0
27-Jun-07	11	6	7	4	4	3	6	10	13	20	17	17	15	6	5	10	7	5	7	7	7	4	3	5		8.3	20.2
28-Jun-07	5	6	6	4	3	5	3	2	3	5	7	5	4	7	7	10	8	9	9	11	9	11	9	5		6.4	11.3
29-Jun-07	3	2	2	3	3	3	4	5	5	4	4	3	4	3	4	5	4	4	1	3	5	1	calm	calm		3.3	5.1
30-Jun-07	3	7	9	12	11	8	12	11	7	9	8	P	P	P	P	P	P	P	P	P	P	P	P	P		N	12.0
1-hr Average	4.0	4.0	3.9	3.9	4.0	3.9	4.2	5.2	6.0	7.3	7.7	7.5	8.2	8.7	8.7	9.1	8.8	8.8	7.7	6.7	5.4	4.4	4.2	3.7			
Hourly Max	11.4	14.9	12.2	12.0	12.6	10.9	12.0	14.9	16.3	20.2	18.7	16.6	16.0	16.4	16.6	17.5	16.4	21.6	19.9	13.0	12.9	10.6	10.5	8.3			

# PASZA - Valleyview - Vector Wind Speed Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

## HOURLY AVERAGE TABLE

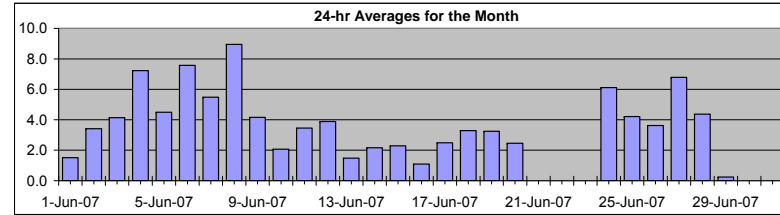
## Wind Speed (WSv)

Monitoring Dates: June 1, 2007 to July 1, 2007

### Summary

Maximum 1-hr Average:	20.2	km/hr	23-Jun	17:00 18:00
Maximum 24-hr Value:	8.9	km/hr	8-Jun	

Calm Time:	31 hrs	4% calms	Operational Time:	632 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	92.1%				
Percentile	99	95	75	50	25	5	1	AverageV
	16.8	13.0	8.1	4.3	2.4	1.2	0.9	1.5 km/hr



### Status Flag Characters

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

Day	Mountain Standard Time																								24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	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-Jun-07	1	1	2	2	calm	1	1	calm	2	2	2	2	4	4	4	4	4	3	4	3	3	2	calm	1.5	4.5		
2-Jun-07	1	3	1	calm	2	2	2	1	3	2	1	3	4	16	16	12	9	5	7	5	1	4	calm	calm	3.4	16.3	
3-Jun-07	1	2	calm	calm	1	1	1	calm	3	4	6	6	6	8	9	10	9	9	7	6	4	4	3	2	4.1	9.6	
4-Jun-07	calm	1	2	3	3	4	3	6	7	13	13	16	16	14	13	12	13	11	8	8	5	8	4	calm	7.2	15.7	
5-Jun-07	1	1	3	3	calm	3	4	5	6	4	6	11	11	10	8	9	14	15	9	2	4	calm	6	8	4.5	14.9	
6-Jun-07	8	5	4	8	12	10	8	5	3	4	9	9	10	11	13	11	11	12	11	10	6	3	2	2	7.6	12.7	
7-Jun-07	2	2	2	2	2	3	3	3	4	2	6	7	6	7	10	12	14	16	13	9	7	7	10	8	5.5	16.3	
8-Jun-07	11	14	12	10	10	11	10	12	10	9	10	7	9	10	11	13	13	13	12	8	2	calm	2	3	8.9	13.7	
9-Jun-07	1	2	4	5	4	4	4	5	1	4	4	4	4	7	8	11	14	12	11	9	6	4	8	7	4.2	13.8	
10-Jun-07	8	4	3	2	3	2	2	5	5	5	4	2	2	4	8	5	5	6	5	4	4	4	2	1	2.1	8.3	
11-Jun-07	2	3	3	2	2	2	1	5	8	9	8	8	9	6	10	11	9	calm	6	7	5	3	3	4	3.5	10.6	
12-Jun-07	5	5	3	2	5	11	7	5	5	6	11	12	14	10	9	6	1	2	2	3	2	1	2	2	3.9	14.3	
13-Jun-07	3	3	2	3	2	2	3	2	3	5	2	2	3	2	2	3	2	2	2	1	6	5	3	4	1.5	5.7	
14-Jun-07	1	1	1	1	2	1	calm	2	4	5	5	4	6	10	9	10	1	6	6	7	3	3	2	1	2.2	10.2	
15-Jun-07	3	3	3	3	2	2	2	4	4	2	5	2	10	6	11	4	3	8	5	9	11	6	4	4	2.3	11.5	
16-Jun-07	2	calm	calm	6	4	2	calm	2	3	5	3	7	6	6	4	4	2	4	4	3	1	2	2	2	1.1	7.4	
17-Jun-07	calm	3	2	3	2	2	2	2	3	5	3	9	12	11	3	4	5	2	calm	2	1	1	1	2	2.5	12.2	
18-Jun-07	2	2	2	2	2	2	2	1	1	4	2	3	3	2	calm	11	4	6	9	10	13	8	3	3	3.3	12.6	
19-Jun-07	4	3	3	3	2	3	11	15	15	12	10	7	4	3	1	1	5	4	4	1	3	2	2	2	3.2	14.6	
20-Jun-07	calm	1	3	calm	2	calm	1	1	2	3	2	4	2	2	2	4	3	5	5	5	4	4	4	P	2.5	5.0	
21-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	N	13.0
22-Jun-07	3	1	1	1	calm	1	2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	N	3.0
23-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	20	19	13	7	4	4	5	N	20.2
24-Jun-07	2	4	2	4	4	5	6	7	6	6	10	8	6	11	8	12	6	7	11	12	11	9	8	4	6.1	11.9	
25-Jun-07	2	2	2	1	2	4	5	6	10	13	9	3	2	11	8	17	16	19	8	2	2	5	4	3	4.2	18.5	
26-Jun-07	7	14	8	4	6	5	5	5	16	19	18	12	8	5	3	1	5	4	6	5	5	7	4	4	3.6	19.0	
27-Jun-07	11	6	7	3	4	2	5	10	12	20	17	16	14	6	4	4	10	7	4	7	7	4	2	4	6.8	19.7	
28-Jun-07	5	6	6	4	2	5	3	calm	2	5	6	4	4	6	7	10	8	9	9	11	9	10	8	5	4.4	11.1	
29-Jun-07	2	2	2	1	3	2	3	5	4	3	2	2	1	2	1	3	3	4	1	3	5	1	calm	calm	0.2	5.0	
30-Jun-07	3	7	9	12	11	8	12	11	7	9	8	P	P	P	P	P	P	P	P	P	P	P	P	P	N	N	12.0
1-hr Vector	1.0	1.1	0.9	0.8	0.3	1.0	1.5	2.2	2.8	2.8	2.5	2.0	2.9	2.9	3.1	3.0	2.5	2.4	1.7	1.1	0.9	1.1	0.7	1.3			
Hourly Max	11.3	14.4	12.1	12.0	12.4	10.8	12.0	14.5	15.7	19.7	17.7	15.9	15.7	16.1	16.3	16.8	15.9	20.2	19.4	12.5	12.6	10.3	10.4	8.1			

## PASZA - Valleyview - Wind Direction Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

### Wind Direction (WD)

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**


Calm Time:	0 hrs	0% calms	Operational Time:	663 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	92.1%				
Percentile	99	95	75	50	25	5	1	Average
	354.4	337.8	289.1	187.8	99.6	13.3	4.8	309 deg

**Status Flag Characters**

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

Day	Mountain Standard Time																								24-hour Average	WD Sector	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jun-07	349	233	183	206	206	159	186	354	200	31	37	14	13	7	3	49	30	58	62	78	94	123	161	132	48	NE	
2-Jun-07	335	342	356	274	195	179	196	208	343	55	129	345	13	12	13	13	5	354	11	19	129	190	335	101	11	N	
3-Jun-07	244	340	312	115	345	296	210	82	35	43	59	56	61	54	61	54	50	53	65	66	73	95	106	336	55	NE	
4-Jun-07	151	173	43	9	43	15	90	137	149	156	149	145	139	145	139	146	139	146	145	133	124	135	138	179	139	SE	
5-Jun-07	356	32	355	19	85	336	277	273	279	308	298	324	315	303	288	287	320	348	3	50	194	194	54	65	325	NW	
6-Jun-07	58	47	49	38	45	47	35	26	15	18	5	17	9	1	10	5	10	4	5	5	13	344	312	177	19	NNE	
7-Jun-07	180	192	195	188	178	182	184	188	193	208	288	288	296	302	307	328	303	293	298	292	274	276	290	287	285	WNW	
8-Jun-07	293	293	299	297	294	293	299	289	296	293	295	284	338	317	323	330	325	321	343	332	315	181	205	238	307	NW	
9-Jun-07	163	35	8	10	27	16	23	59	69	51	47	58	87	67	66	129	142	138	139	142	148	151	165	158	105	ESE	
10-Jun-07	163	169	144	107	95	110	172	184	186	182	187	159	113	80	304	129	60	46	56	107	89	80	41	355	118	ESE	
11-Jun-07	19	333	325	359	211	232	210	296	307	318	313	314	322	338	303	302	271	51	164	182	220	194	197	188	297	WNW	
12-Jun-07	194	172	172	124	304	289	294	289	253	266	276	280	282	278	265	276	176	112	142	156	171	140	195	197	261	W	
13-Jun-07	184	200	183	164	182	203	179	192	306	334	96	68	45	337	327	320	330	298	280	239	323	335	345	317	313	NW	
14-Jun-07	328	209	140	188	203	181	70	294	281	289	331	352	1	15	5	13	199	216	251	278	292	298	293	182	309	NW	
15-Jun-07	200	185	189	193	188	200	188	307	339	294	330	21	13	60	136	128	71	23	16	16	19	27	13	343	26	NNE	
16-Jun-07	310	257	274	0	32	54	184	32	29	15	22	12	50	149	182	6	354	187	202	252	251	313	187	193	13	NNE	
17-Jun-07	159	186	200	179	187	192	211	280	318	317	306	18	331	298	299	250	305	333	25	242	302	314	148	181	296	WNW	
18-Jun-07	194	189	191	190	177	199	192	129	176	199	213	276	331	312	331	280	275	276	288	299	308	321	282	204	278	W	
19-Jun-07	198	205	204	197	168	237	278	305	318	334	350	351	17	309	180	58	301	279	244	230	44	55	24	319	309	NW	
20-Jun-07	269	239	180	290	354	31	359	125	55	56	96	66	102	92	120	50	64	59	64	64	89	120	13	P	68	ENE	
21-Jun-07	P	P	P	P	P	P	P	P	P	P	274	321	319	300	299	292	296	307	322	340	341	291	140	197	N	-	
22-Jun-07	181	214	142	294	139	173	148	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	-
23-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	305	319	326	327	224	187	210	N	-
24-Jun-07	112	165	194	192	193	188	200	177	194	196	189	184	183	195	225	253	249	110	112	136	143	167	179	187	180	S	
25-Jun-07	215	157	337	192	256	198	192	207	275	297	286	270	315	358	23	339	348	312	311	308	122	211	198	217	303	WNW	
26-Jun-07	262	306	296	246	173	169	182	239	298	303	295	294	286	241	320	45	22	137	98	92	86	82	76	155	291	WNW	
27-Jun-07	155	165	187	225	202	211	190	173	178	185	190	184	190	185	188	139	137	150	177	111	89	80	90	315	172	S	
28-Jun-07	23	38	54	69	8	352	8	161	149	139	150	154	147	136	140	139	133	135	138	151	160	170	168	192	136	SE	
29-Jun-07	217	216	197	299	57	161	347	302	270	260	198	200	57	72	348	61	96	199	113	12	47	70	217	32	4	N	
30-Jun-07	292	289	294	291	272	266	255	254	235	246	241	P	P	P	P	P	P	P	P	P	P	P	P	P	P	N	-
Hourly Avg	208	249	266	281	279	256	245	254	278	283	287	320	341	344	333	350	343	338	4	27	63	148	161	206			N

## PASZA - Valleyview - Standard Deviation of Wind Direction Monthly Summary

Station: Valleyview  
 Station Owner: PASZA

### HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: June 1, 2007 to July 1, 2007

**Summary**


Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	623 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	86.5%			
Percentile	99	95	75	50	25	5	1
	69.0	56.9	35.4	20.9	13.5	8.6	6.7

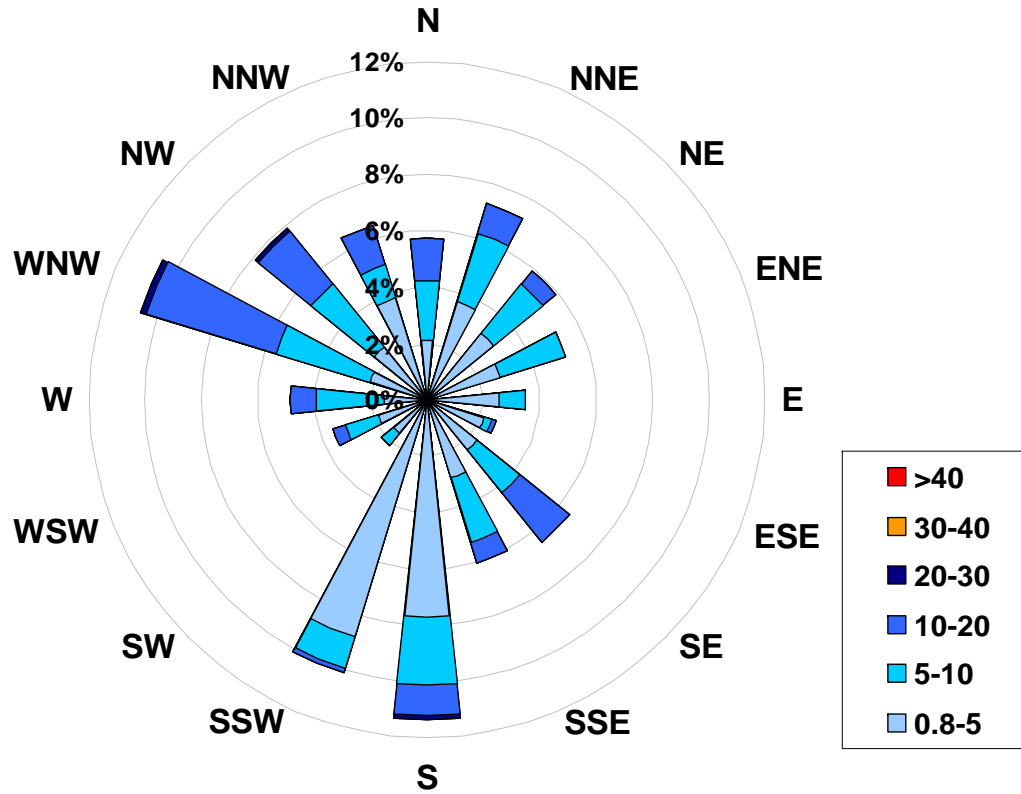
**Status Flag Characters**

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-Jun-07	68	52	29	25	54	48	49	58	27	48	57	68	52	39	61	38	13	18	13	17	15	16	28	29	68.3	
2-Jun-07	43	32	62	67	37	28	12	45	21	46	61	56	50	26	12	11	14	11	8	10	41	8	50	41	66.6	
3-Jun-07	35	22	41	37	26	24	58	74	30	29	30	31	33	31	24	18	18	18	16	16	14	22	10	30	73.8	
4-Jun-07	20	36	24	24	20	15	18	17	18	14	12	12	12	15	15	16	11	13	11	7	12	7	40	34	39.9	
5-Jun-07	57	17	34	25	42	37	17	17	16	32	24	13	12	12	19	27	11	7	9	32	19	31	17	14	56.9	
6-Jun-07	12	12	18	10	9	11	12	10	24	25	25	21	19	17	14	21	12	15	13	9	5	9	39	13	38.6	
7-Jun-07	15	11	18	34	12	16	14	15	17	53	29	35	42	42	20	14	11	8	9	10	9	9	8	10	52.5	
8-Jun-07	8	7	7	6	8	7	10	7	11	15	12	20	16	24	20	16	17	14	9	21	25	21	35	24	34.8	
9-Jun-07	39	39	25	9	12	13	32	27	51	36	42	40	42	30	28	15	13	11	9	11	12	14	14	11	51.3	
10-Jun-07	14	25	21	28	29	25	47	13	11	16	20	45	66	37	46	41	26	18	23	25	16	12	28	39	65.7	
11-Jun-07	32	23	20	32	17	21	26	33	19	19	25	27	24	30	21	19	16	44	15	9	18	16	12	17	43.9	
12-Jun-07	11	16	32	44	43	10	12	11	15	9	6	7	8	10	9	18	42	46	31	24	30	47	20	32	46.7	
13-Jun-07	9	14	16	14	12	13	14	26	43	33	44	55	42	69	71	74	48	61	54	50	26	18	32	22	74.2	
14-Jun-07	49	46	57	40	37	38	34	44	30	30	35	43	23	19	22	15	42	24	22	14	30	30	41	62	62.1	
15-Jun-07	13	8	11	8	11	12	14	33	25	61	43	47	24	19	9	32	33	11	13	10	8	10	9	12	60.6	
16-Jun-07	26	59	24	6	8	40	47	37	27	30	68	28	22	14	24	14	23	18	14	20	37	41	40	15	67.8	
17-Jun-07	73	12	13	11	14	17	25	43	40	30	39	66	37	14	13	35	40	30	32	45	23	49	32	10	72.8	
18-Jun-07	9	25	27	36	17	22	28	55	58	12	32	42	64	66	56	25	15	21	13	12	10	9	18	8	65.7	
19-Jun-07	8	11	10	11	25	19	9	10	10	11	12	15	60	43	42	54	46	21	17	46	14	20	15	56	60.4	
20-Jun-07	43	23	14	37	23	33	25	41	49	42	54	38	51	70	74	36	53	27	20	16	16	11	44	P	74.4	
21-Jun-07	P	P	P	P	P	P	P	P	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0
22-Jun-07	N	N	N	N	N	N	N	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0.0
23-Jun-07	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	19	12	13	10	20	14	17	20.0
24-Jun-07	21	25	30	10	12	12	12	17	21	33	25	37	39	12	22	16	41	30	22	12	15	10	10	22	41.4	
25-Jun-07	25	39	59	45	34	14	15	25	17	15	34	60	62	21	19	15	14	15	14	49	44	17	14	28	62.1	
26-Jun-07	21	10	20	39	10	11	14	31	13	18	22	30	44	56	69	38	53	38	26	20	14	10	18	19	69.1	
27-Jun-07	11	11	7	15	16	43	18	14	17	12	11	15	16	23	35	42	12	14	22	24	15	18	41	33	42.6	
28-Jun-07	19	10	13	19	29	5	14	33	31	17	21	31	29	18	17	10	9	11	10	11	15	12	12	24	33.2	
29-Jun-07	35	14	21	50	28	57	21	21	26	35	40	54	54	49	43	50	25	N	N	N	N	N	N	N	56.7	
30-Jun-07	N	N	N	N	N	N	N	N	N	N	N	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0.0

Hourly Max    73    59    62    67    54    57    58    74    58    61    68    68    66    70    74    74    53    61    54    50    44    49    50    62

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



Calms: 1%

Frequency Distribution of Wind in km/hr Range			Frequency (hrs)
0.8	<	5	335
5	to	10	201
10	to	20	117
20	to	30	3
30	to	40	0
	>	40	0
Total Non-Zero Values			658

# PASZA

## Monthly Passive Data Summary



Table 1. PASZA Passive Stations for June 2007

PASZA					
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
<b>Duplicates</b>					
5a	Boone Creek	0.2	31.4	1.1	
5b	Boone Creek	0.2	34.8	1.0	
2a	Bay Tree	0.2	32.8	0.3	
2b	Bay Tree	0.2	32.0	0.4	
1a	Silver Valley	0.3	31.7	1.6	
1b	Silver Valley	0.3	33.2	1.5	
3a	Forth Creek	0.4	37.7	0.7	
3b	Forth Creek	0.3	35.7	0.7	
49a	Grande Prairie HP	0.3	38.3	4.8	
49b	Grande Prairie HP	0.3	40.7	4.4	
1	Silver Valley	0.3	32.4	1.6	08-27-081-11 W6M
2	Bay Tree	0.2	32.4	0.4	13-16-078-13 W6M
3	Forth Creek	0.4	36.7	0.7	04-13-082-07 W6M
4	Gordondale	0.3	37.2	1.0	04-34-078-10 W6M
5	Boone Creek	0.2	33.1	1.0	01-23-076-11 W6M
7	Steeprock Creek	0.3	35.7	0.3	09-35-072-13 W6M
9	Spirit River	0.3	34.2	2.2	08-12-079-07 W6M
10	Woking	0.2	30.5	1.1	01-13-076-07 W6M
11	Webber Creek	0.3	31.6	1.9	09-36-074-09 W6M
12	Hythe	0.4	34.2	1.7	14-36-072-11 W6M
14	Sylvester	0.1	29.5	0.9	08-06-069-12 W6M
16	Beaverlodge	0.3	40.2	1.6	15-36-071-10 W6M
17	Poplar	0.3	31.8	2.0	13-06-073-08 W6M
18	Saddle Hills	0.4	35.1	0.9	04-25-074-07 W6M
19	Wanham	0.3	34.7	1.0	16-22-077-03 W6M
20	Shaftesbury	0.2	28.8	0.7	04-03-082-23 W5M

**Table 1. PASZA Passive Stations for June 2007 (Continued)**

<b>Station Number</b>	<b>Station Name</b>	<b>SO2 ppb</b>	<b>O3 ppb</b>	<b>NO2 ppb</b>	<b>Site Legal</b>
21	Eaglesham	0.5	32.7	1.3	16-21-079-25 W5M
23	Bear Lake	0.4	35.0	2.8	15-31-072-06 W6M
24	Wembley	0.3	33.0	2.1	12-31-070-08 W6M
25	Pinto Creek	0.2	32.3	0.6	04-24-069-11 W6M
26	Flyingshot	0.4	31.2	1.5	15-36-070-07 W6M
27	Grande Prairie I	N/A	31.7	5.1	08-15-071-06 W6M
28	Clairmont Lake	0.4	35.9	1.4	09-06-073-04 W6M
29	Smoky Heights	0.3	40.0	1.3	04-06-075-02 W6M
30	Fitzsimmons	0.3	27.5	1.0	15-36-072-03 W6M
32	Gold Creek	0.3	26.0	1.1	06-33-067-05 W6M
33	Wapiti	0.3	33.5	1.2	02-25-071-03 W6M
34	Puskwaskau	0.2	25.4	0.4	15-35-074-25 W5M
35	Jean Cote	0.3	35.6	3.0	12-35-079-21 W5M
36	Guy	0.2	36.0	2.3	03-04-076-22 W5M
37	Crooked Creek	0.3	33.1	1.3	16-01-071-26 W5M
38	Karr Creek	N/A	N/A	N/A	10-16-065-02 W6M
39	Clouston Creek	0.3	33.8	0.9	12-01-073-22 W5M
40	McLennan	0.5	32.8	2.7	03-29-077-19 W5M
41	Valleyview	0.3	35.8	0.7	09-30-069-22 W5M
42	Sunset House	0.3	35.7	0.4	05-32-070-19 W5M
43	High Prairie	0.2	34.7	1.5	16-13-074-17 W5M
44	Peavine	0.3	31.9	0.1	03-05-079-15 W5M
45	Gift Lake	0.2	28.9	0.6	10-07-079-12 W5M
46	Little Smoky	0.2	31.0	1.4	12-01-065-21 W5M
47	Kinuso	0.2	30.0	0.4	12-10-073-10 W5M
48	Deer Mountain	0.2	29.0	0.7	15-22-068-09 W5M
49	Grande Prairie HP	0.3	39.5	4.6	17-26-071-06 W6M

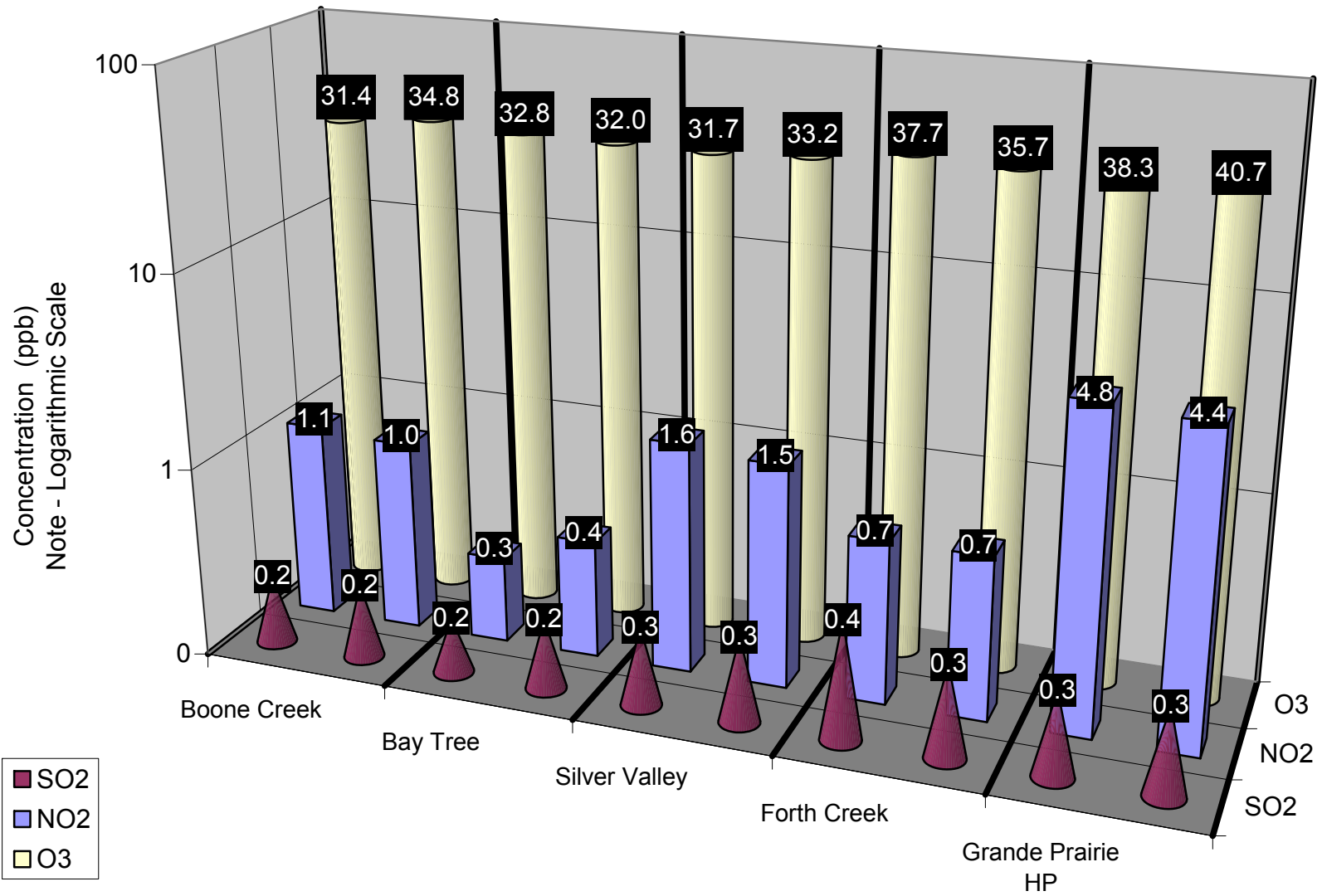


Figure 64. Duplicate Summary Chart

**Table 2. Passive Summary Results for June 2007**

Stats	Sulphur Dioxide SO <sub>2</sub>	Ozone O <sub>3</sub>	Nitrogen Dioxide NO <sub>2</sub>
	ppb	ppb	ppb
<b>Passive Summary for June 2007 (PASZA Zone)</b>			
Mean	0.3	33.1	1.4
Standard Deviation	0.1	3.4	1.0
Minimum	0.1	25.4	0.1
Minimum At	Sylvester (#14)	Puskwaskau (#34)	Peavine (#44)
Maximum	0.5	40.2	6.0
Maximum At	McLennan (#40)	Beaverlodge (#16)	Grande Prairie I (#27)
<b>Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)</b>			
	SO <sub>2</sub>	O <sub>3</sub>	NO <sub>2</sub>
AENV Beaverlodge station	0.2	30.5	2.3
PASZA Beaverlodge passive	0.3	40.2	1.6
<b>Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)</b>			
	SO <sub>2</sub>	O <sub>3</sub>	NO <sub>2</sub>
PASZA Henry Pirker station	0.1	30.3	7.3
PASZA Grande Prairie passive	0.3	39.5	4.6

**PASZA Passive SO<sub>2</sub> Stations - June 2007**  
**Average Concentrations in ppb**

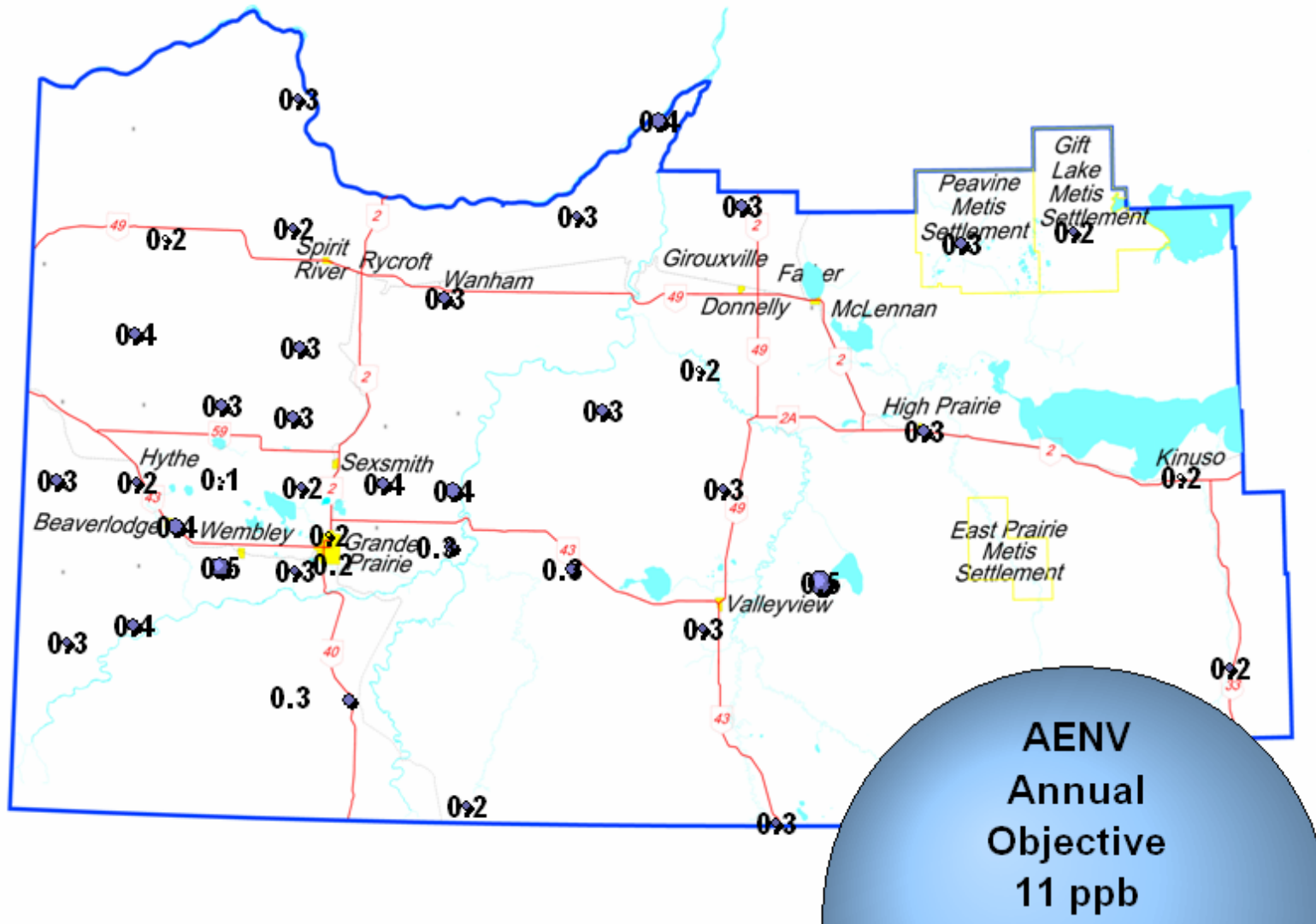
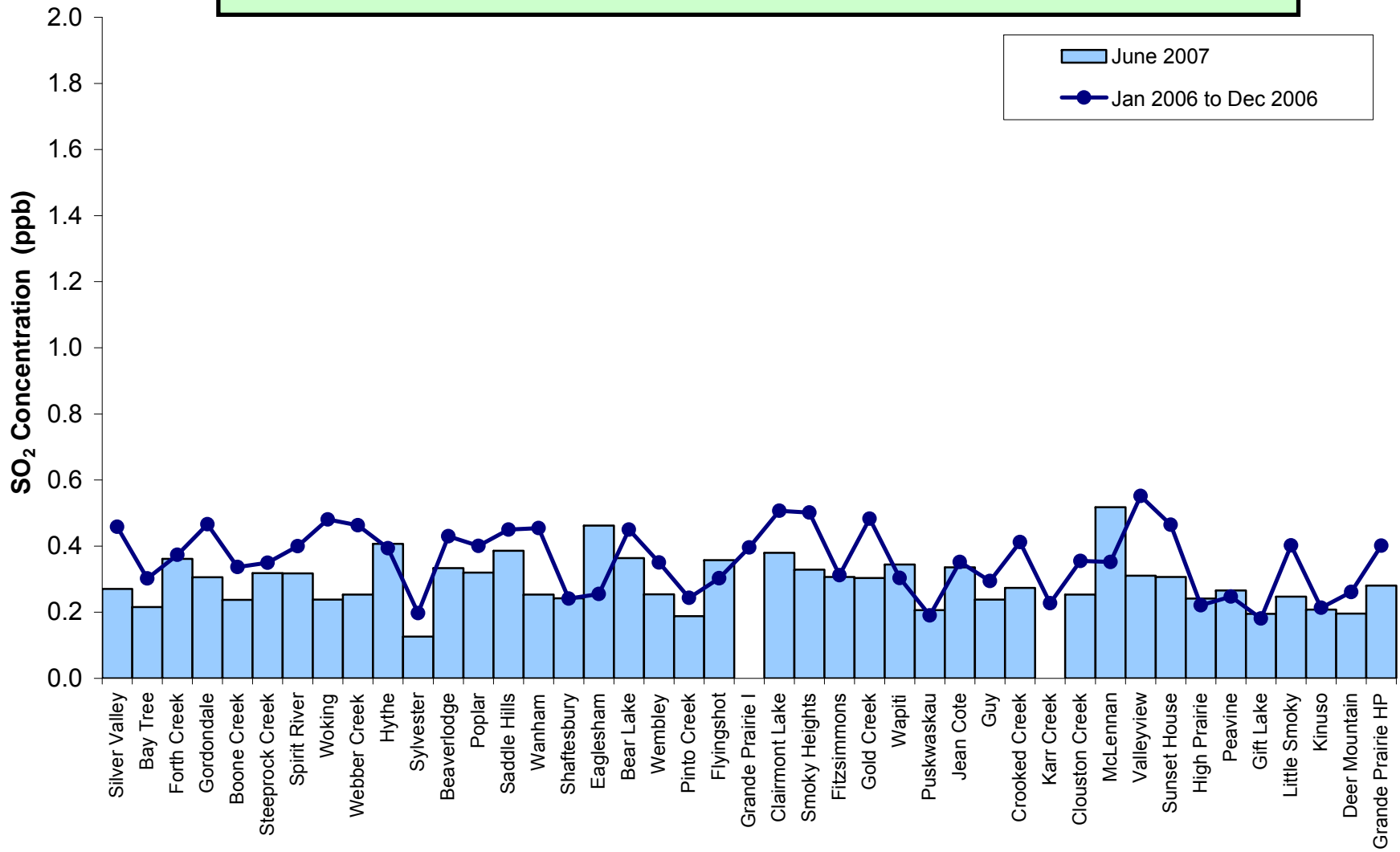


Figure 65. SO<sub>2</sub> Bubble Chart

**Alberta Ambient Air Quality Objective - Annual SO<sub>2</sub> Objective is 11 ppb**



**Figure 66. SO<sub>2</sub> Summary Chart**

### PASZA Passive O<sub>3</sub> Stations - June 2007 Average Concentrations in ppb

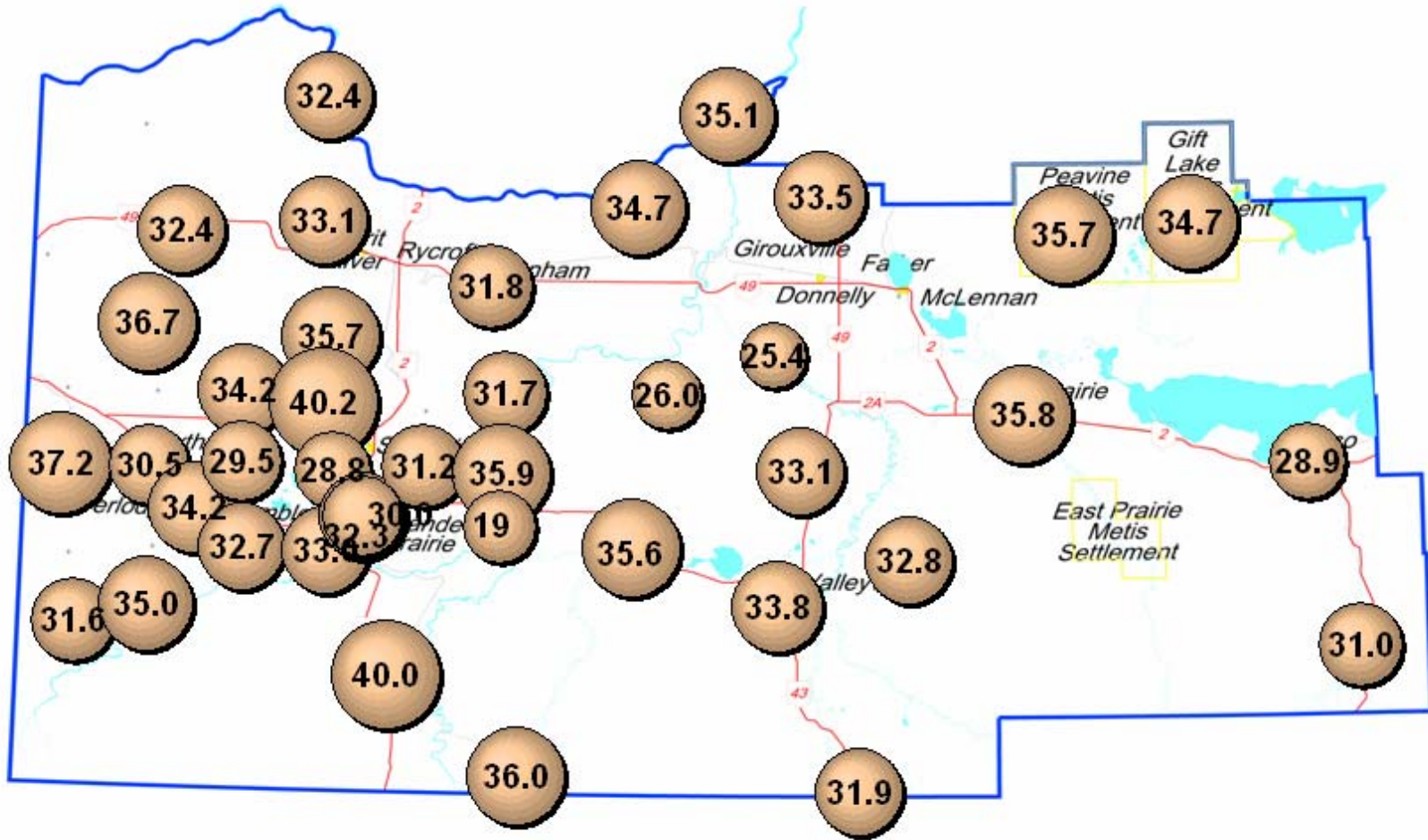
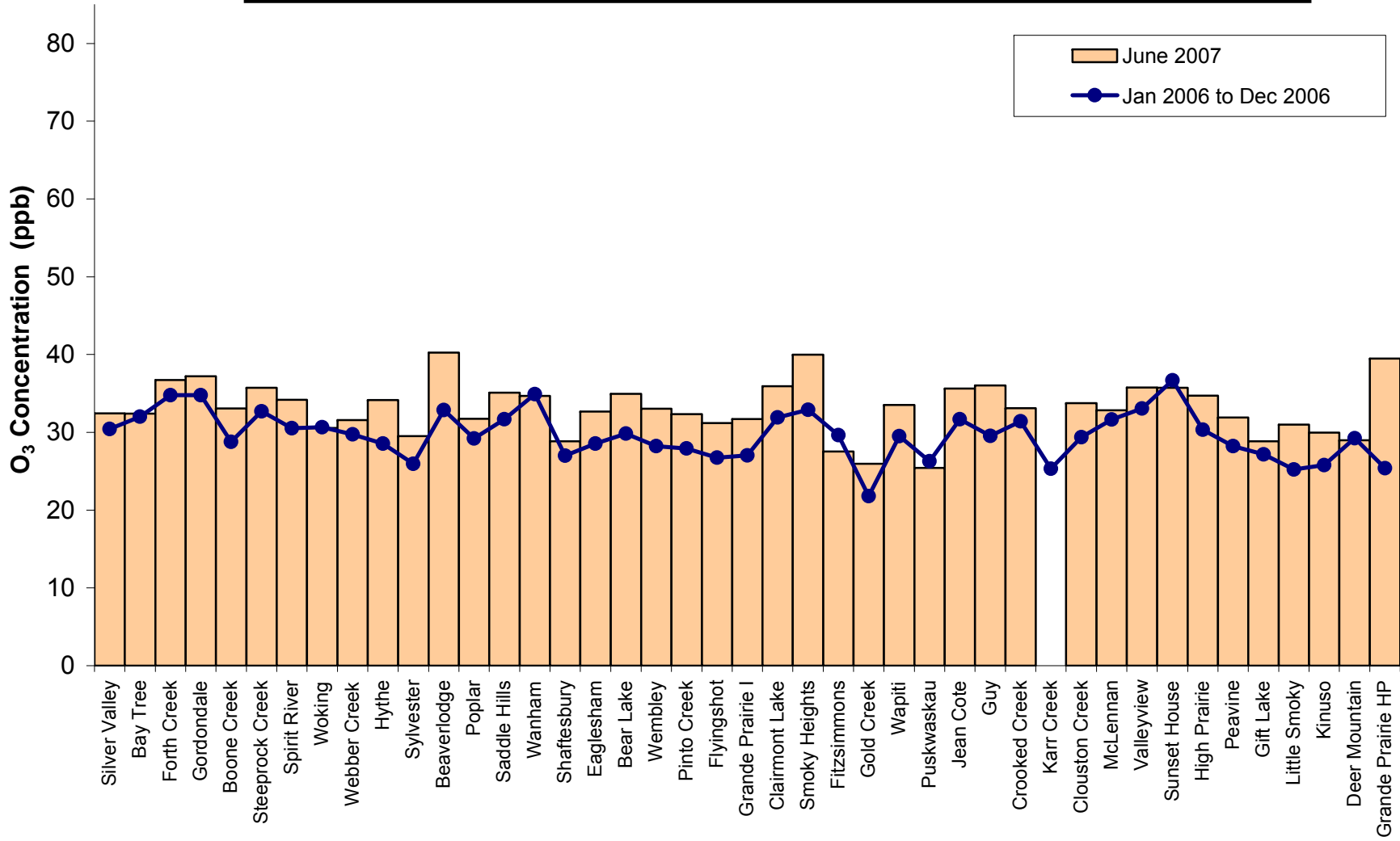


Figure 67. O<sub>3</sub> Bubble Chart

**Alberta Ambient Air Quality Objective - No Annual O<sub>3</sub> Objective**



**Figure 68. O<sub>3</sub> Summary Chart**



### PASZA Passive NO<sub>2</sub> Stations - June 2007 Average Concentrations in ppb

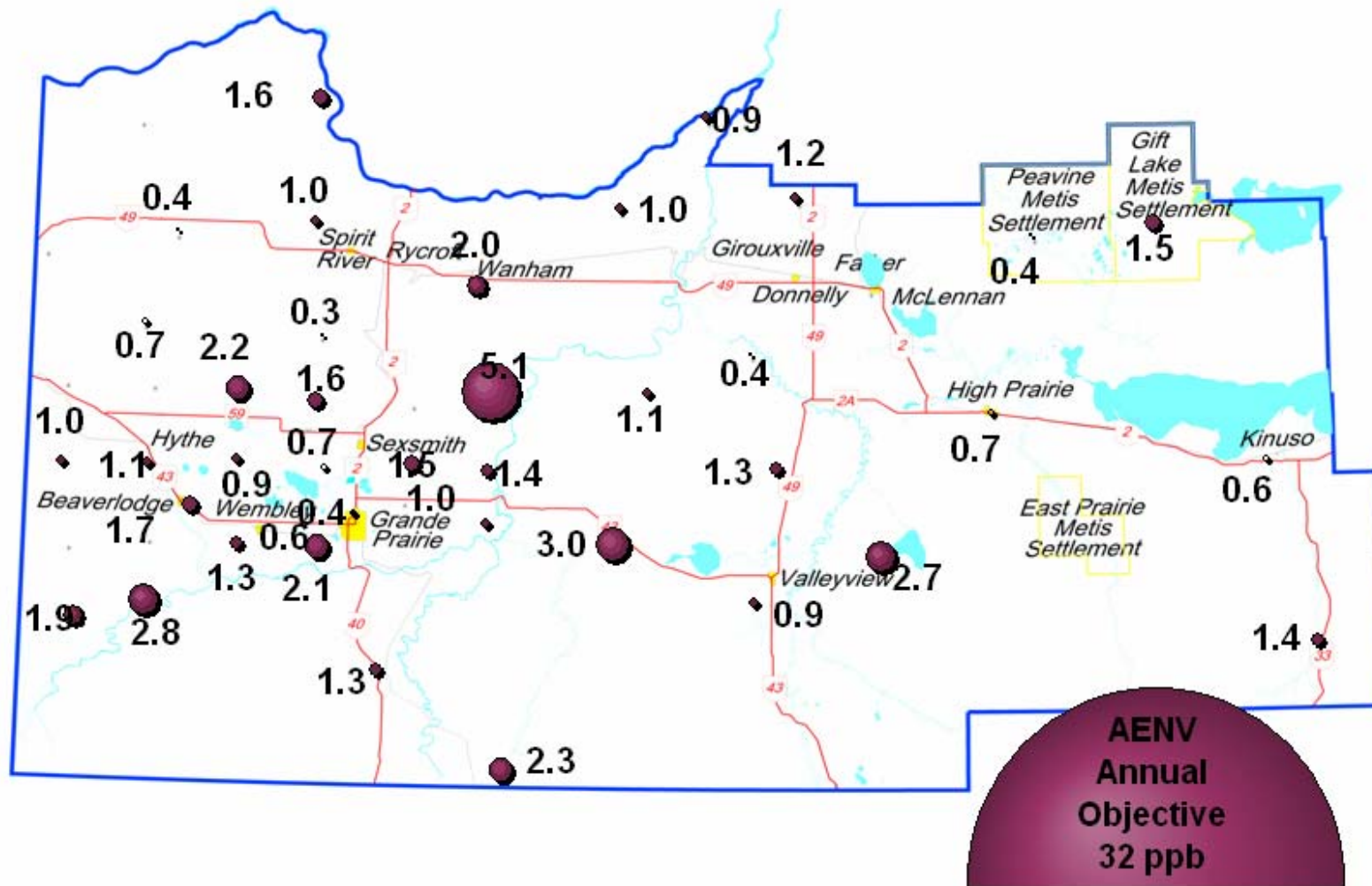
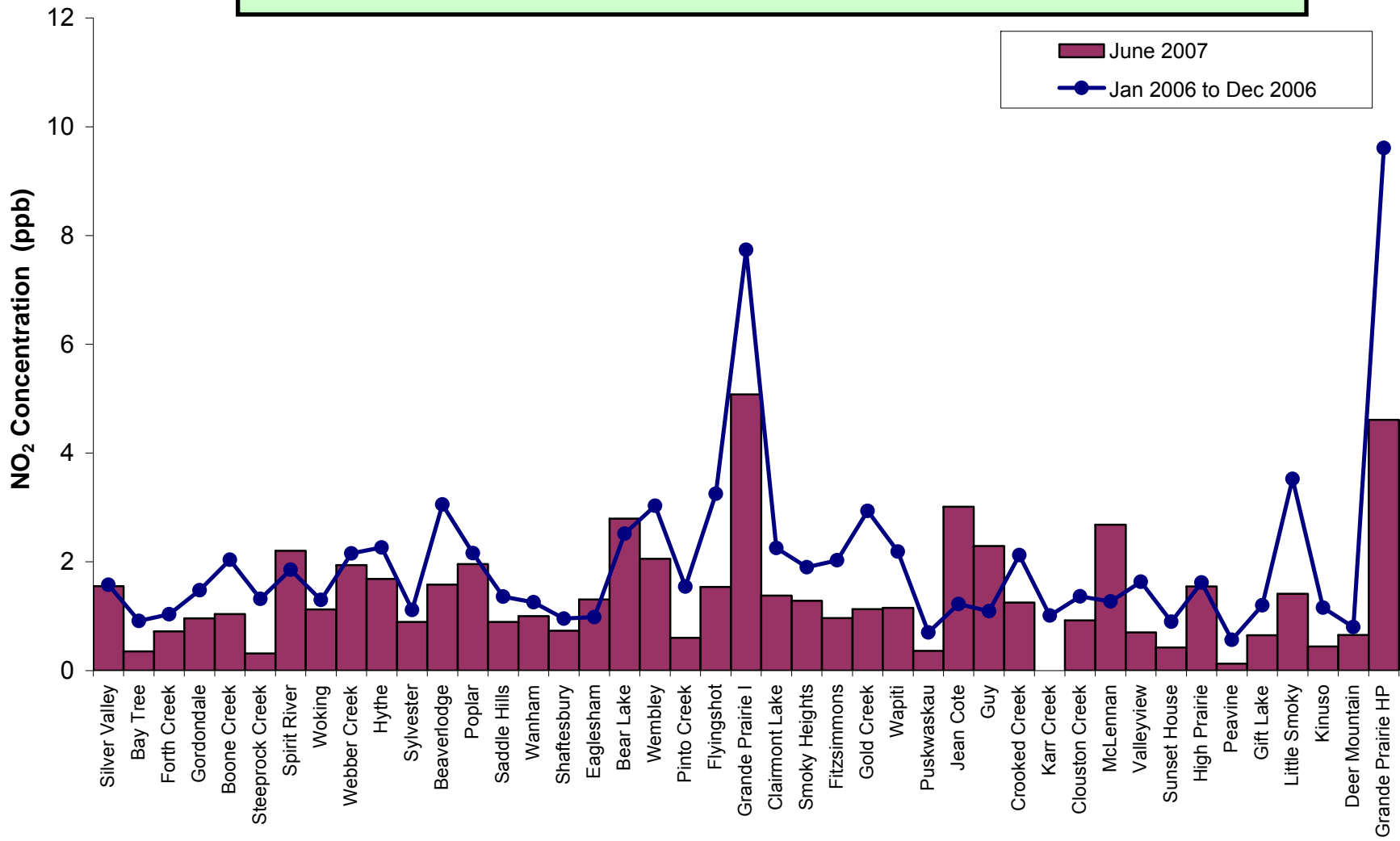


Figure 69. NO<sub>2</sub> Bubble Chart

**Alberta Ambient Air Quality Objective - Annual NO<sub>2</sub> Objective is 32 ppb**



**Figure 70. NO<sub>2</sub> Summary Chart**

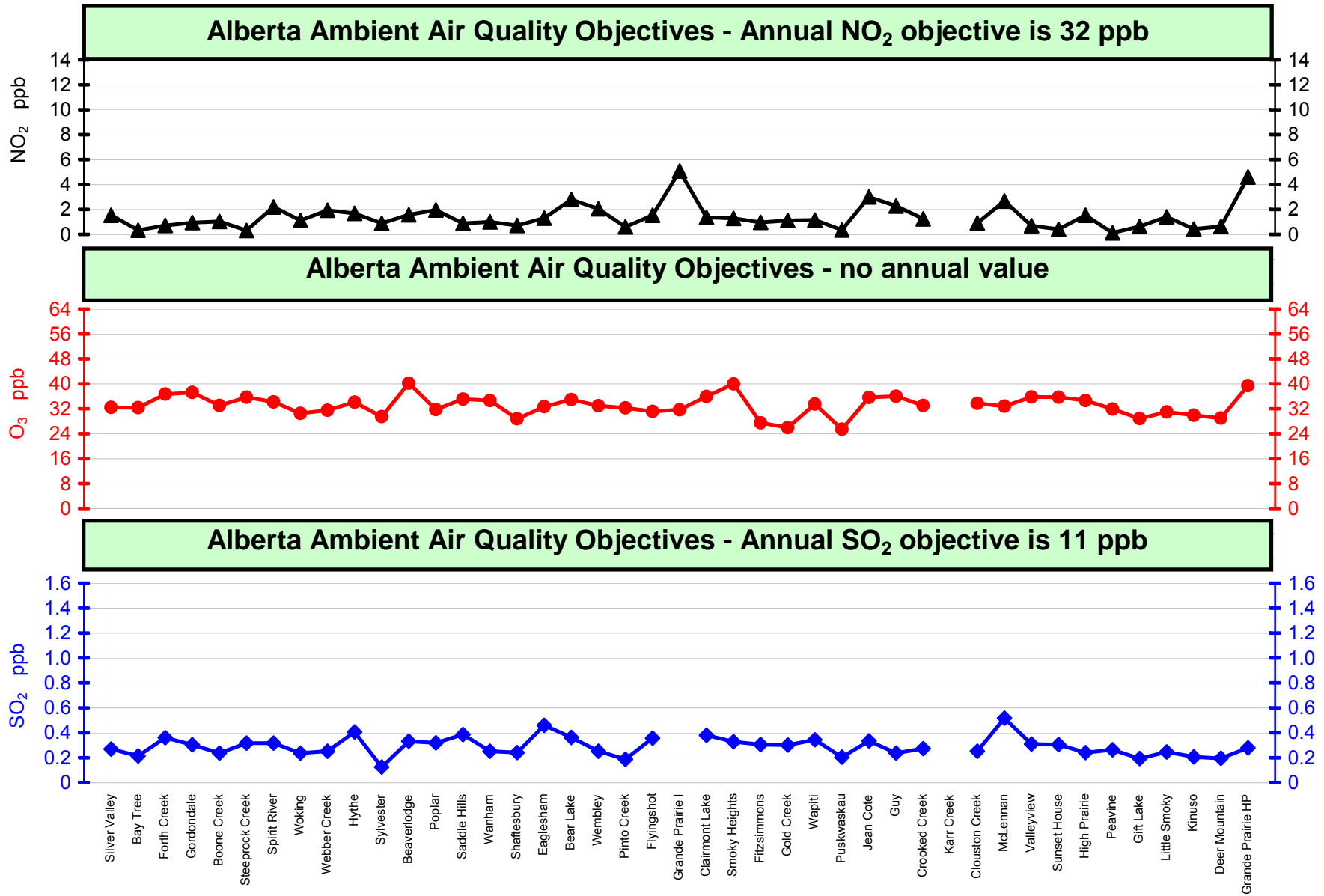


Figure 71. Overview Summary

## **June 2007 Calibration Reports**

**PASZA - Henry Pirker Station with the following calibrations:**

**SO<sub>2</sub>, NO, NO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, THC, TRS**

**PASZA – Evergreen Park Station with the following calibrations:**

**SO<sub>2</sub>, TRS, PM<sub>2.5</sub>**

**PASZA – Smoky Heights Station with the following calibrations:**

**SO<sub>2</sub>, TRS, PM<sub>2.5</sub>**

**PASZA – Beaverlodge Station with the following calibrations:**

**SO<sub>2</sub>, NO, NO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, PM<sub>2.5</sub>**

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

**SO<sub>2</sub>, TRS, NO, NO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>,**

**PASZA – Valleyview Station with the following calibrations:**

**SO<sub>2</sub>, H<sub>2</sub>S**

**Calibration Report**
 Parameter **SO<sub>2</sub>**  
 Air Monitoring Network **PASZA**
**Station Information**

Calibration Date	June 19, 2007	Previous Calibration	May 10, 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)	9:46	End Time (MST)	13:43
Barometric Pressure	27.7 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.940921	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	45266
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope	0.975761	Calculated slope	0.984539
Calculated intercept	2.629219	Calculated intercept	7.440099

 Analyzer make **TEI Model 43c** Analyzer serial # \_\_\_\_\_

	before		after	
Background coefficient	7.2	ppb	7.4	ppb
Lamp Voltage	.785		.785	
Chamber Temp	822		815	
Pressure	42.9	V	43	V
Sample Flow	645.5	" Hg	642	" Hg
	465	ccm	459	ccm

**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	2484.0	0.0	-0.2	N/A
2640	2484.0	299.0	300.0	0.9969
4980	4685.8	158.5	149.7	1.0589
8610	8101.3	91.7	78.2	1.1726
zero	2446.4	0.0	0.0	As Found Zero
2600	2446.4	303.6	300.0	As Found Span
Average Correction Factor				1.0761

Calculated value of As Found Response: 295.343 ppm Percent Change of As Found: 2.7%

	before calibration		after calibration	
Auto zero	-0.5	ppm	7.7	ppm
Auto span	269.1	ppm	346.2	ppm

Notes: \_\_\_\_\_

 Calibration Performed By: Dawn Ewan

## Calibration Summary

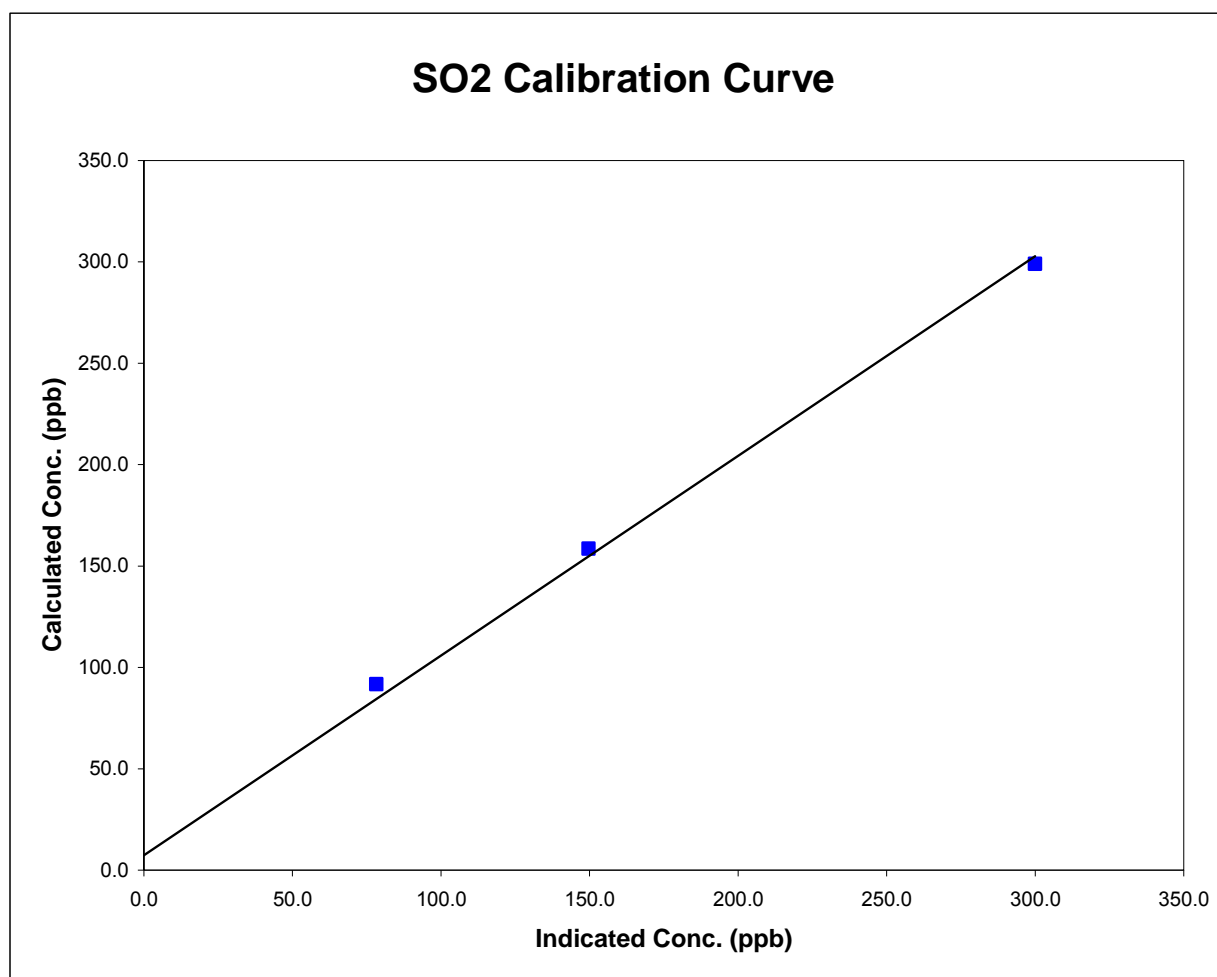
Parameter **SO2**Air Monitoring Network **PASZA**

### Station Information

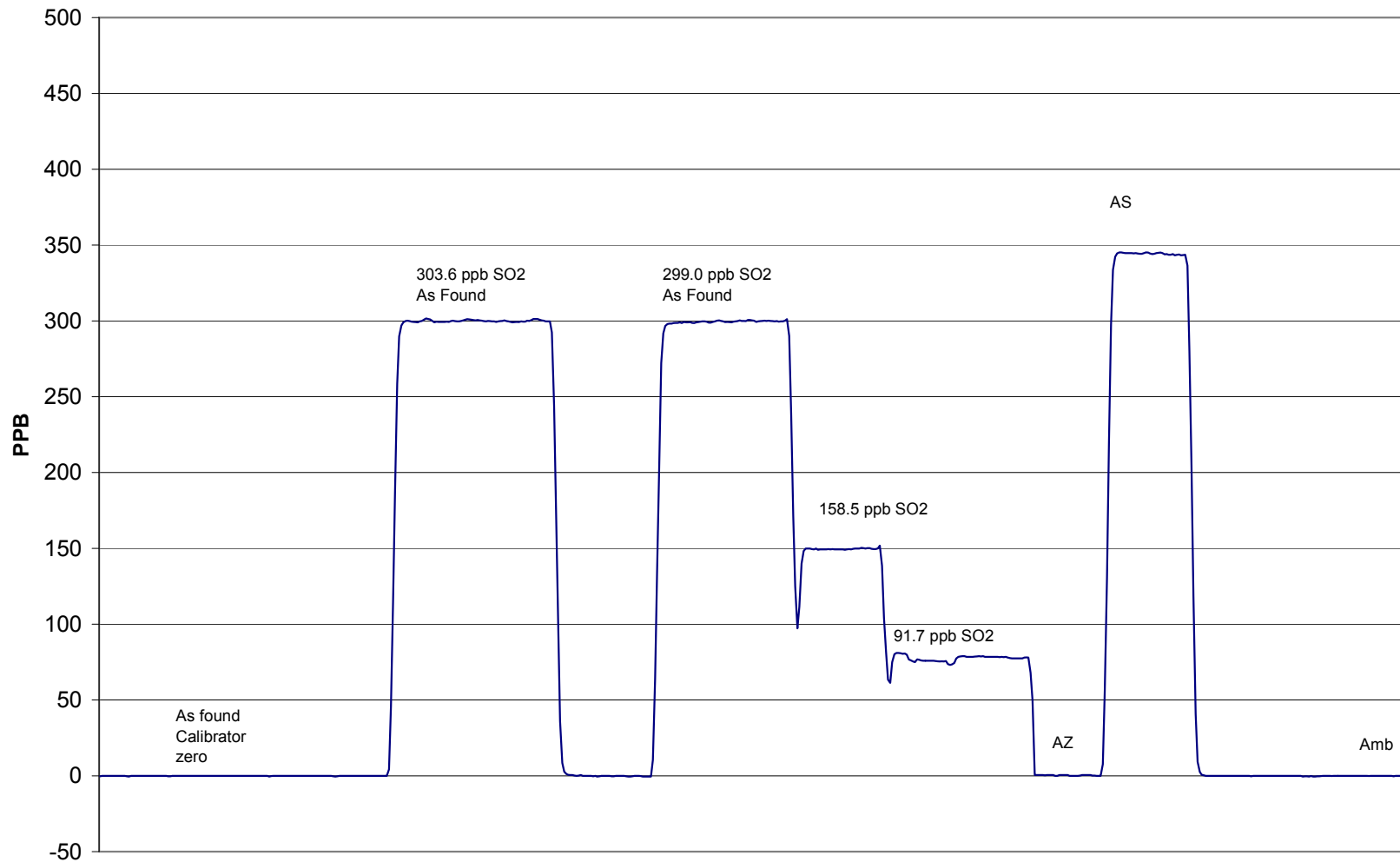
Calibration Date	June 19, 2007	Previous Calibration	May 10, 2007
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:46	End Time (MST)	13:43
Analyzer make/model	TEI Model 43c	Analyzer serial #	0

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	N/A		
299.0	300.0	0.9969	Correlation Coefficient	0.997215
158.5	149.7	1.0589		
91.7	78.2	1.1726	Slope	0.984539
			Intercept	7.440099



### SO2 Calibration



June 19, 2007

# Calibration Report

Parameter

NOx-NO-NO<sub>2</sub>

Air Monitoring Network

PASZA



## Station Information

Calibration Date	June 11, 2007	Previous Calibration	June 11, 2007
Station Number	1	Station Location	Henry Pirker/Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Installation <input type="checkbox"/> Removal            Other: <input checked="" type="checkbox"/> Shutdown for pump replacement.		
Start Time (MST)	9:15	End Time (MST)	15:33
Barometric Pressure	0.920    Atm	Station Temperature	20.0    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
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Parameter		NO2	NOx	NO
Before	Data Slope	NA	1.006765	1.002674
	Data Offset	NA	-1.830984	-1.599103
After	Data Slope	1.012033	1.012132	1.009524
	Data Offset	-0.117962	-2.595332	-2.308979
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	9.2	ppb	9.2	mV
NOx background	9.4	ppb	9.4	mV
NO coefficient	0.845		0.845	
NOx coefficient	0.995		0.995	
Chamber Temp	49.7	Deg C	49.7	Deg C
Cooler Temp	-2.4	Deg C	-2.4	Deg C
Converter Temp	319.0	Deg C	319.0	Deg C
Vacuum	163.2	mm Hg	163.2	mm Hg

Notes: Startup after pump replacement.



# Calibration Report

Parameter **NO<sub>x</sub>-NO-NO<sub>2</sub>**  
 Air Monitoring Network **PASZA**



## Station Information

Calibration Date: **June 11, 2007**

Station Location: **Henry Pirker/Muskoseepi Park**

## Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO <sub>x</sub> conc (ppb)	Calculated NO conc (ppb)	Calculated NO <sub>2</sub> conc (ppb)	Indicated NO <sub>x</sub> conc (ppb)	Indicated NO conc (ppb)	Indicated NO <sub>2</sub> conc (ppb)	NO <sub>x</sub> Correction factor	NO Correction factor
zero	4992	0.00	0.0	0.0	0.0	0.1	0.0	0.1	N/A	N/A
1	4992	39.93	393.6	392.8	0.8	389.9	389.9	0.0	1.0095	1.0074
2	4992	19.91	197.0	196.7	0.4	199.2	199.0	0.2	0.9891	0.9880
3	4992	10.00	99.2	99.0	0.2	102.6	102.1	0.4	0.9666	0.9689
AFZ	4992	0.00	0.0	0.0	0.0	0.1	0.0	0.1	0.0000	0.0000
AFS	4992	39.93	393.6	392.8	0.8	389.9	389.9	0.0	1.0095	1.0074
Average Correction Factor									0.9884	0.9881

As Found Concentrations: NO<sub>x</sub>= 388.0 NO= 388.3 As Found Percent Change NO<sub>x</sub>= -1.4% NO= -1.1%

## GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

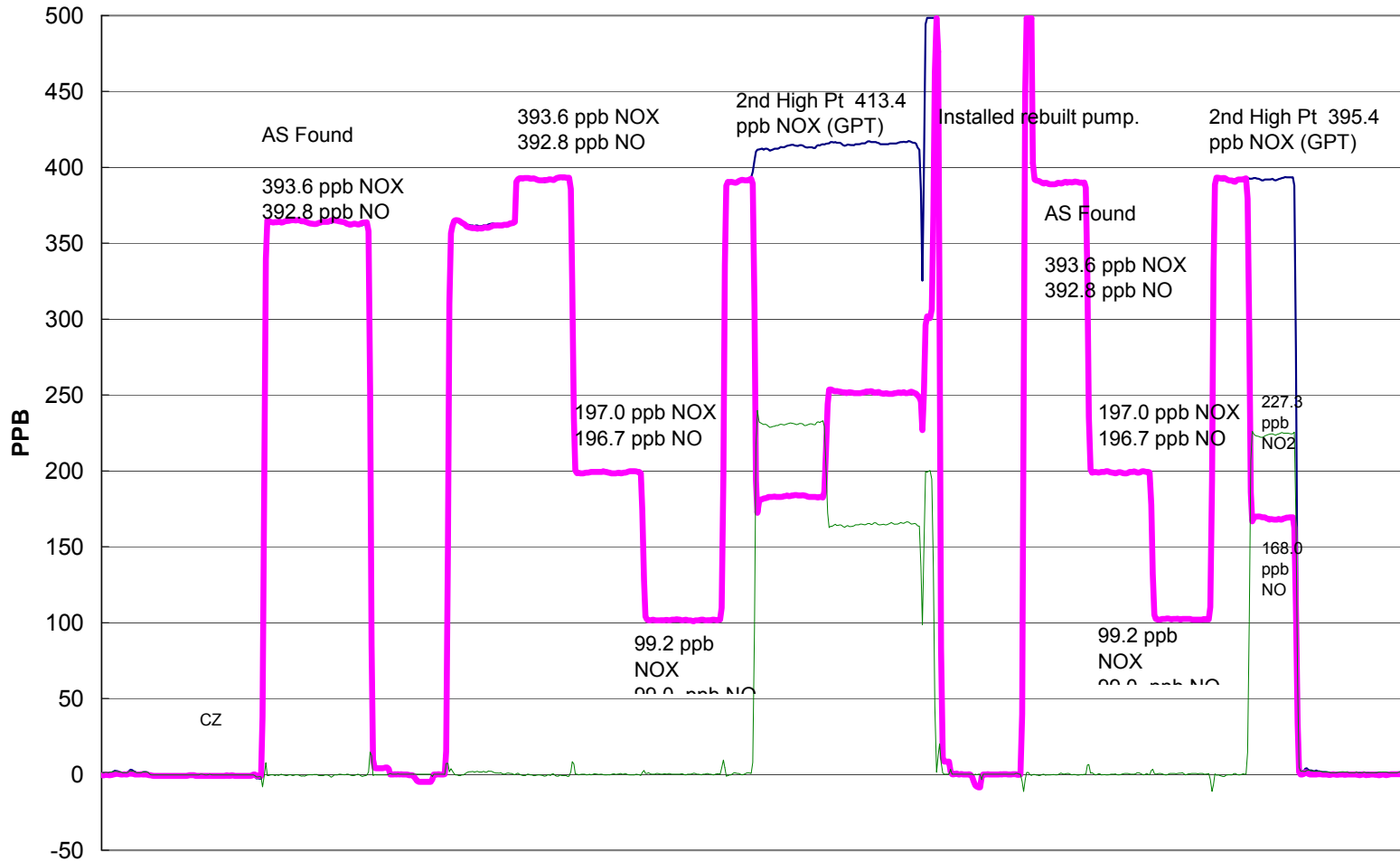
O <sub>3</sub> Setpoint (ppb)	Calculated NO <sub>x</sub> conc (ppb)	Calculated NO conc (ppb)	Calculated NO <sub>2</sub> conc (ppb)	Indicated NO <sub>x</sub> conc (ppb)	Indicated NO conc (ppb)	Indicated NO <sub>2</sub> conc (ppb)	NO <sub>x</sub> Correction factor	NO Correction factor	NO <sub>2</sub> Correction 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	395.4	393.1	2.3	391.6	391.7	0.0	1.0095	1.0036	N/A	N/A
300	395.4	168.0	227.3	393.2	168.7	224.7	1.0055	0.9958	1.0115	98.9%
200										
100										
Average Correction Factor							1.0055	0.9958	1.0115	98.9%

## AIC Data

Parameter	Previous calibration				Current calibration			
	NO <sub>x</sub>	NO <sub>2</sub>	NO		NO <sub>x</sub>	NO <sub>2</sub>	NO	
Auto zero	1.2	1.7	0.8	ppb	NA	NA	NA	ppb
Auto span	414.5	414.5	2.2	ppb	NA	NA	NA	ppb

Calibration Performed By: Dawn Ewan

### NOx Calibration



June 11, 2007

## Calibration Summary

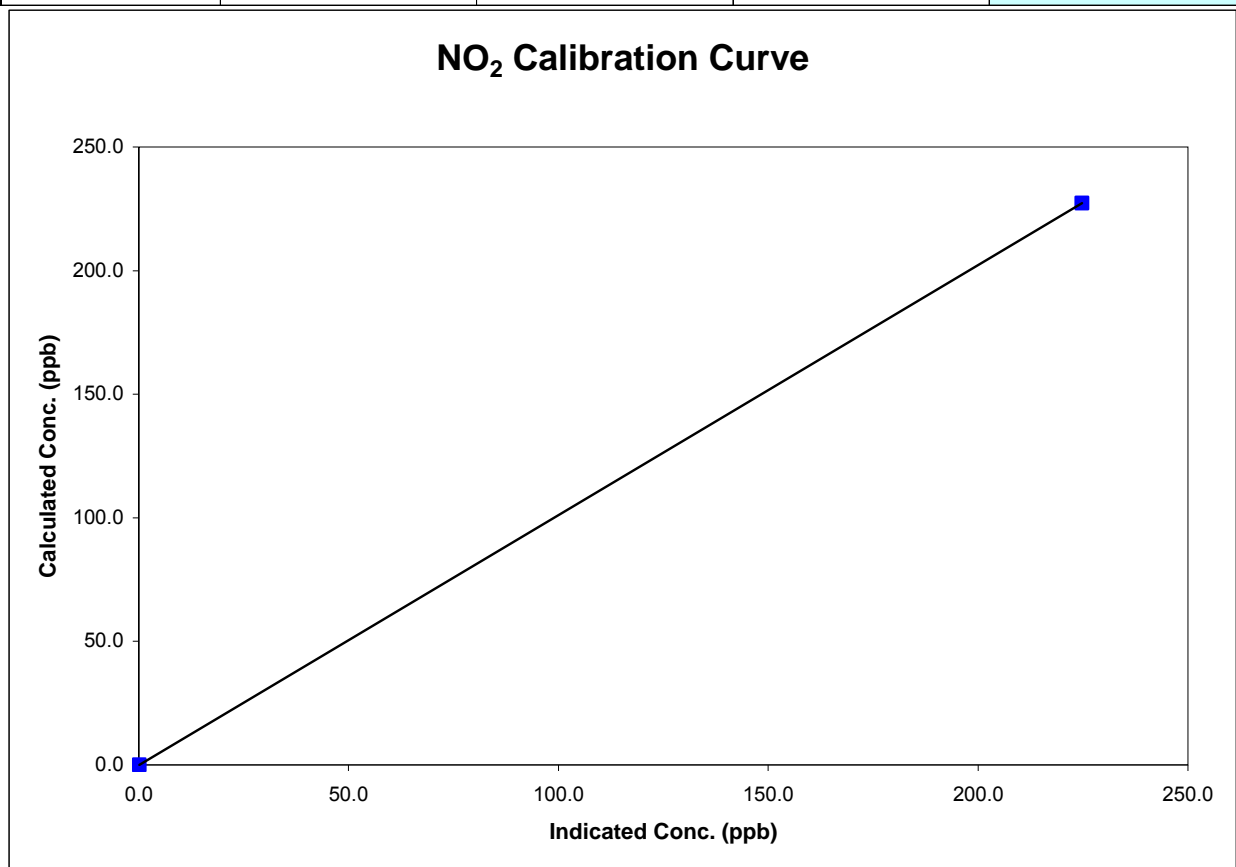
Parameter **NO<sub>2</sub>**Air Monitoring Network **PASZA**

### Station Information

Calibration Date	June 11, 2007	Previous Calibration	June 11, 2007
Station Number	1	Station Location	Henry Pirker/Muskoseepi Park
Start Time (MST)	9:15	End Time (MST)	15:33
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		
227.3	224.7	1.0115	Correlation Coefficient	1.000000
			Slope	1.012033
			Intercept	-0.117962



## Calibration Summary

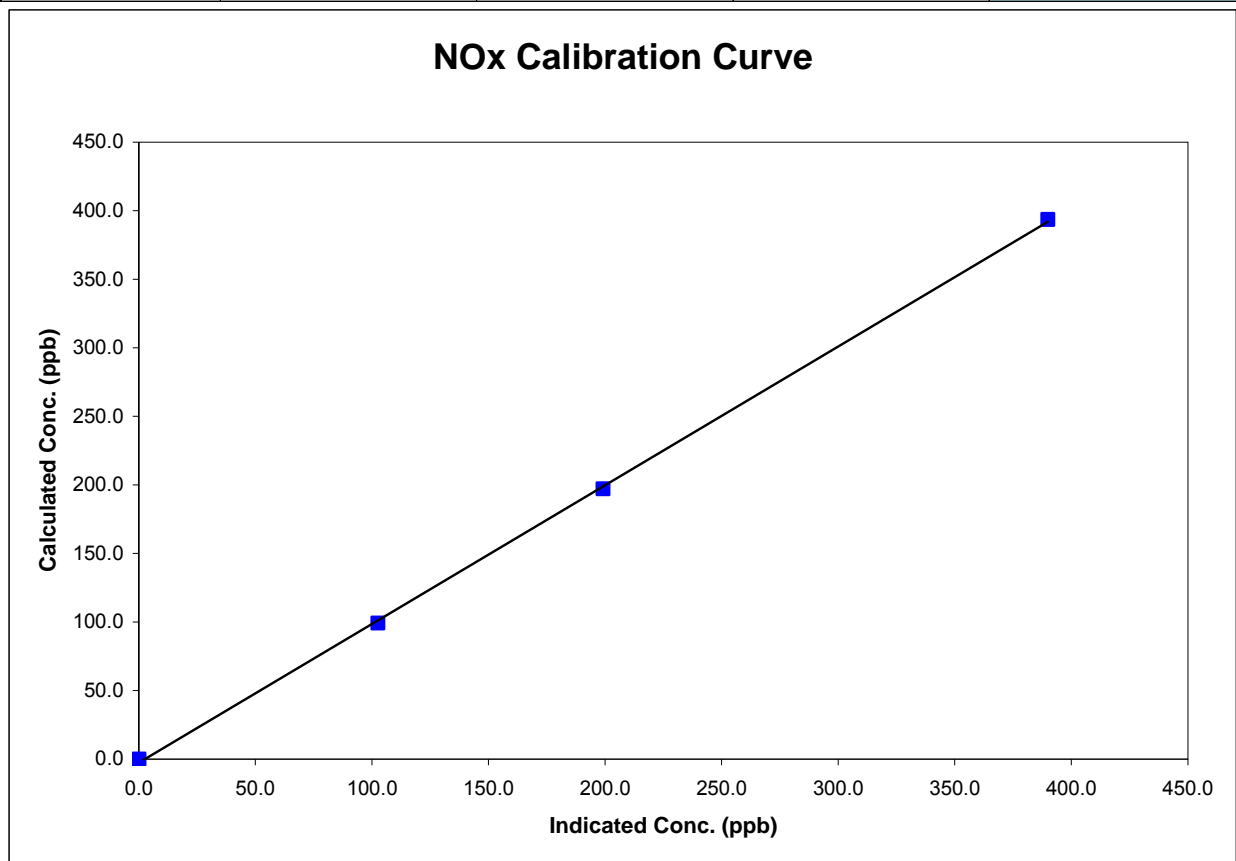
Parameter **NO<sub>x</sub>**Air Monitoring Network **PASZA**

### Station Information

Calibration Date	June 11, 2007	Previous Calibration	June 11, 2007
Station Number	1	Station Location	Henry Pirker/Muskoseepi Park
Start Time (MST)	9:15	End Time (MST)	15:33
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	0.999799
393.6	389.9	1.0095		
197.0	199.2	0.9891	Slope	1.012132
99.2	102.6	0.9666		
			Intercept	-2.595332



## Calibration Summary

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

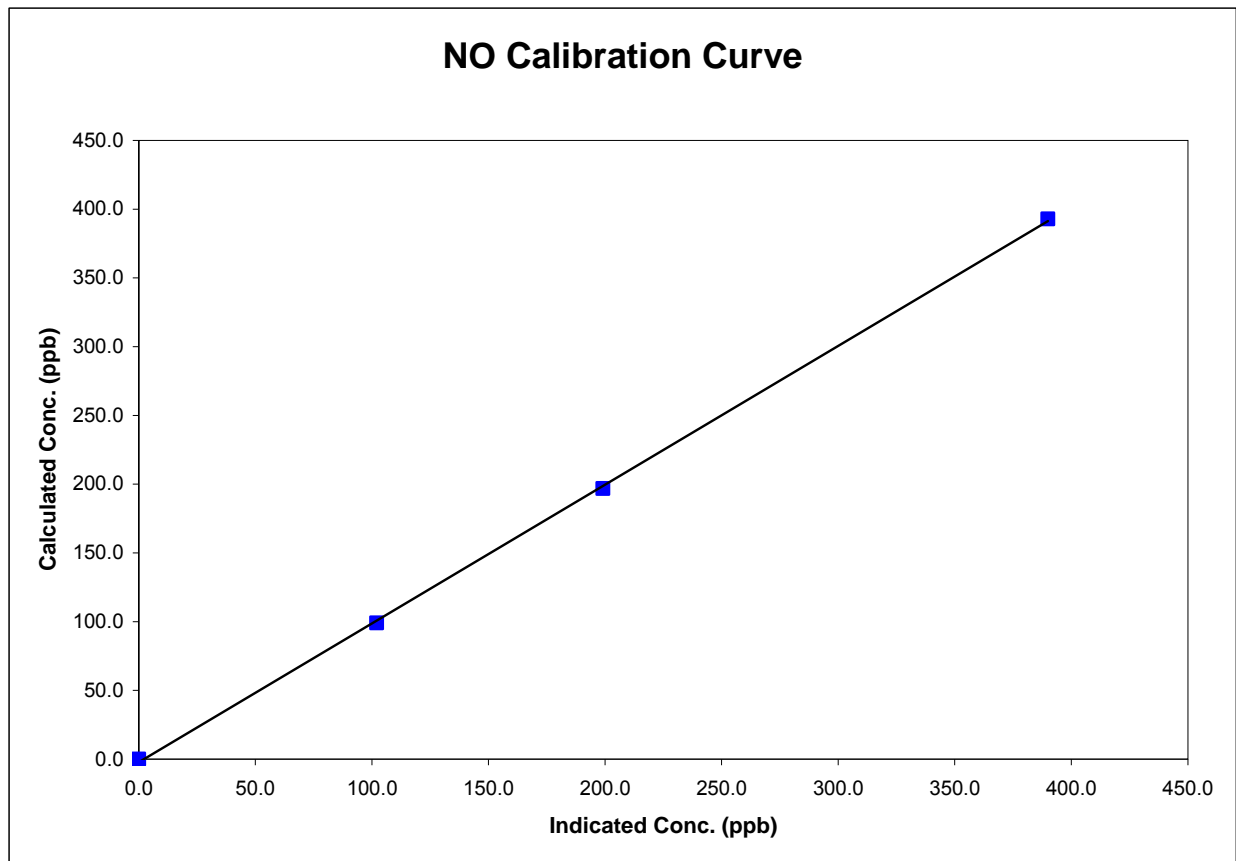


### Station Information

Calibration Date	June 11, 2007	Previous Calibration	June 11, 2007
Station Number	1	Station Location	Henry Pirker/Muskoseepi Park
Start Time (MST)	9:15	End Time (MST)	15:33
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		
392.8	389.9	1.0074	Correlation Coefficient	0.999823
196.7	199.0	0.9880		
99.0	102.1	0.9689	Slope	1.009524
			Intercept	-2.308979



# Calibration Report

Parameter **NOx-NO-NO<sub>2</sub>**  
 Air Monitoring Network **PASZA**



## Station Information

Calibration Date **June 12, 2007** Previous Calibration **June 11, 2007**  
 Station Number **1** Station Location **Henry Pirker / Muskoseepi Park**

Reason:  Routine  Installation  Removal  Other: \_\_\_\_\_

Start Time (MST)	<b>9:00</b>	End Time (MST)	<b>12:33</b>
Barometric Pressure	<b>0.920</b> Atm	Station Temperature	<b>20.0</b> Deg C
Calibrator	<b>EnviroNics 6103</b>	Serial Number	<b>2844</b>
NO Cal Gas Conc	<b>49.5</b> ppm	Cal Gas Expiry Date	<b>2-Jan-09</b>
NOx Cal Gas Conc	<b>49.6</b> ppm	Cal Gas Serial #	<b>FF-5013</b>

## DACS Information

DACS make **FOCUS AP1000** DACS serial No. **45269**

Parameter		NO2	NOx	NO
Before	Data Slope	1.012365	1.012132	1.009524
	Data Offset	-0.118000	-2.595332	-2.308979
After	Data Slope	<b>1.030667</b>	<b>1.009239</b>	<b>1.002992</b>
	Data Offset	<b>-2.548741</b>	<b>-3.053568</b>	<b>-1.883987</b>
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	9.2	ppb	9.2	mV
NOx background	9.4	ppb	9.4	mV
NO coefficient	0.845		0.845	
NOx coefficient	0.995		0.995	
Chamber Temp	49.7	Deg C	49.7	Deg C
Cooler Temp	-2.4	Deg C	-2.4	Deg C
Converter Temp	319.0	Deg C	319.0	Deg C
Vacuum	163.2	mm Hg	163.2	mm Hg

Notes: Full Calibration following repairs.

# Calibration Report

Parameter **NO<sub>x</sub>-NO-NO<sub>2</sub>**  
 Air Monitoring Network **PASZA**



## Station Information

Calibration Date: **June 12, 2007** Station Location: **Henry Pirker / Muskoseepi Park**

### Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO <sub>x</sub> conc (ppb)	Calculated NO conc (ppb)	Calculated NO <sub>2</sub> conc (ppb)	Indicated NO <sub>x</sub> conc (ppb)	Indicated NO conc (ppb)	Indicated NO <sub>2</sub> conc (ppb)	NO <sub>x</sub> Correction factor	NO Correction factor	
zero	4992	0.00	0.0	0.0	0.0	1.0	0.0	0.8	N/A	N/A	
1	4992	39.93	393.6	392.8	0.8	391.8	392.5	-0.7	1.0045	1.0009	
2	4992	19.91	197.0	196.7	0.4	199.6	199.1	0.5	0.9873	0.9877	
3	4992	10.00	99.2	99.0	0.2	103.2	102.3	0.8	0.9608	0.9671	
AFZ	4992	0.00	0.0	0.0	0.0	1.0	0.0	0.8	0.0000	0.0000	
AFS	4992	39.93	393.6	392.8	0.8	372.2	371.5	0.7	1.0574	1.0573	
									Average Correction Factor	0.9842	0.9852

As Found Concentrations: NO<sub>x</sub>= 368.7 NO= 369.2 As Found Percent Change NO<sub>x</sub>= -6.3% NO= -6.0%

### GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

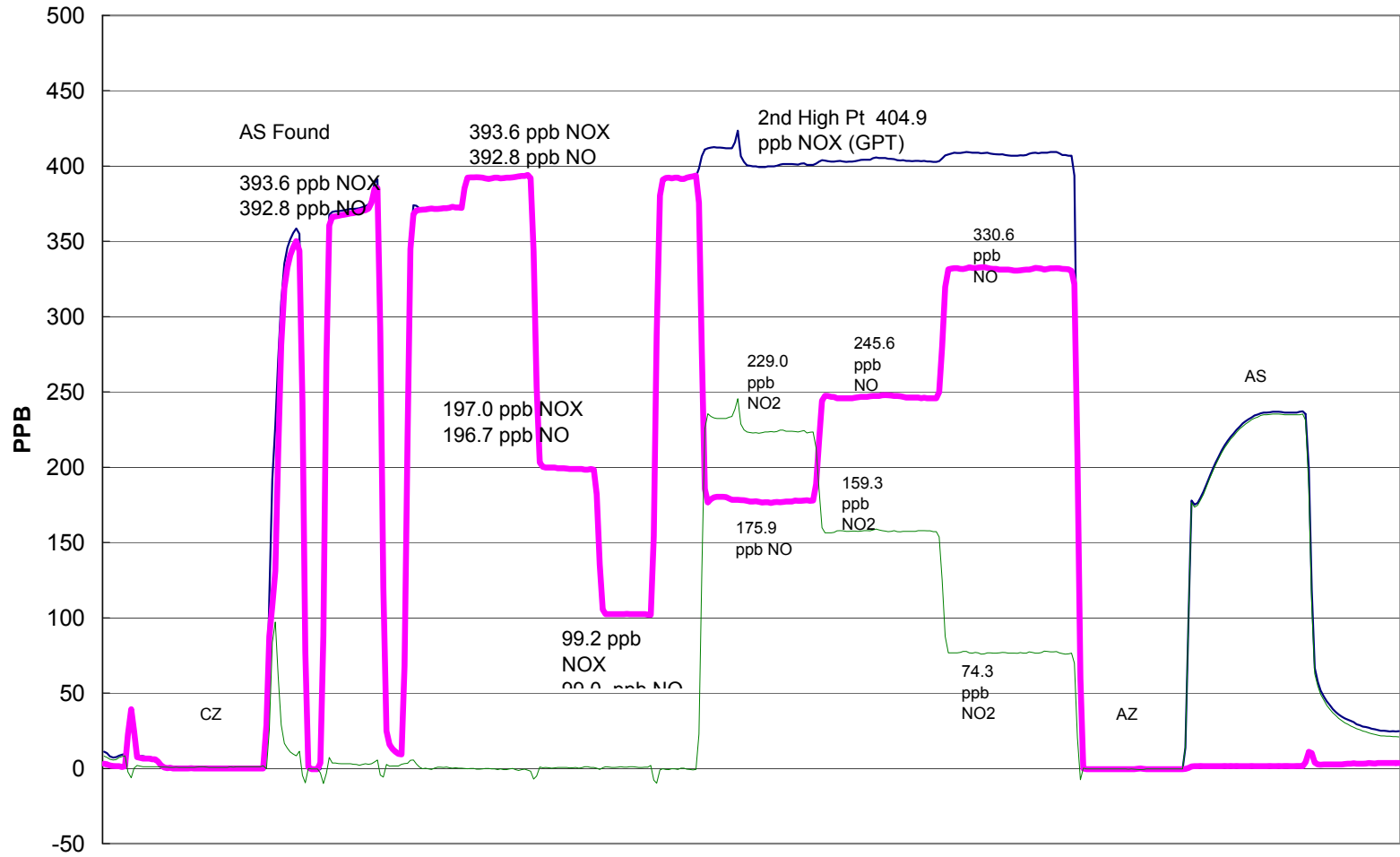
O3 Setpoint (ppb)	Calculated NO <sub>x</sub> conc (ppb)	Calculated NO conc (ppb)	Calculated NO <sub>2</sub> conc (ppb)	Indicated NO <sub>x</sub> conc (ppb)	Indicated NO conc (ppb)	Indicated NO <sub>2</sub> conc (ppb)	NO <sub>x</sub> Correction factor	NO Correction factor	NO <sub>2</sub> Correction factor	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	404.9	391.5	13.4	391.8	392.2	-0.5	1.0334	0.9982	N/A	N/A	
300	404.9	175.9	229.0	400.6	177.2	223.5	1.0108	0.9924	1.0247	97.6%	
200	404.9	245.6	159.3	404.0	246.7	157.6	1.0021	0.9954	1.0107	98.9%	
100	404.9	330.6	74.3	408.0	331.5	76.8	0.9924	0.9973	0.9677	103.3%	
							Average Correction Factor	1.0017	0.9950	1.0010	100.0%

### AIC Data

Parameter	Previous calibration				Current calibration			
	NO <sub>x</sub>	NO <sub>2</sub>	NO		NO <sub>x</sub>	NO <sub>2</sub>	NO	
Auto zero	1.2	1.7	0.8	ppb	3.4	1.1	2.2	ppb
Auto span	414.5	414.5	2.2	ppb	235.7	239.7	-0.4	ppb

Calibration Performed By: Dawn Ewan

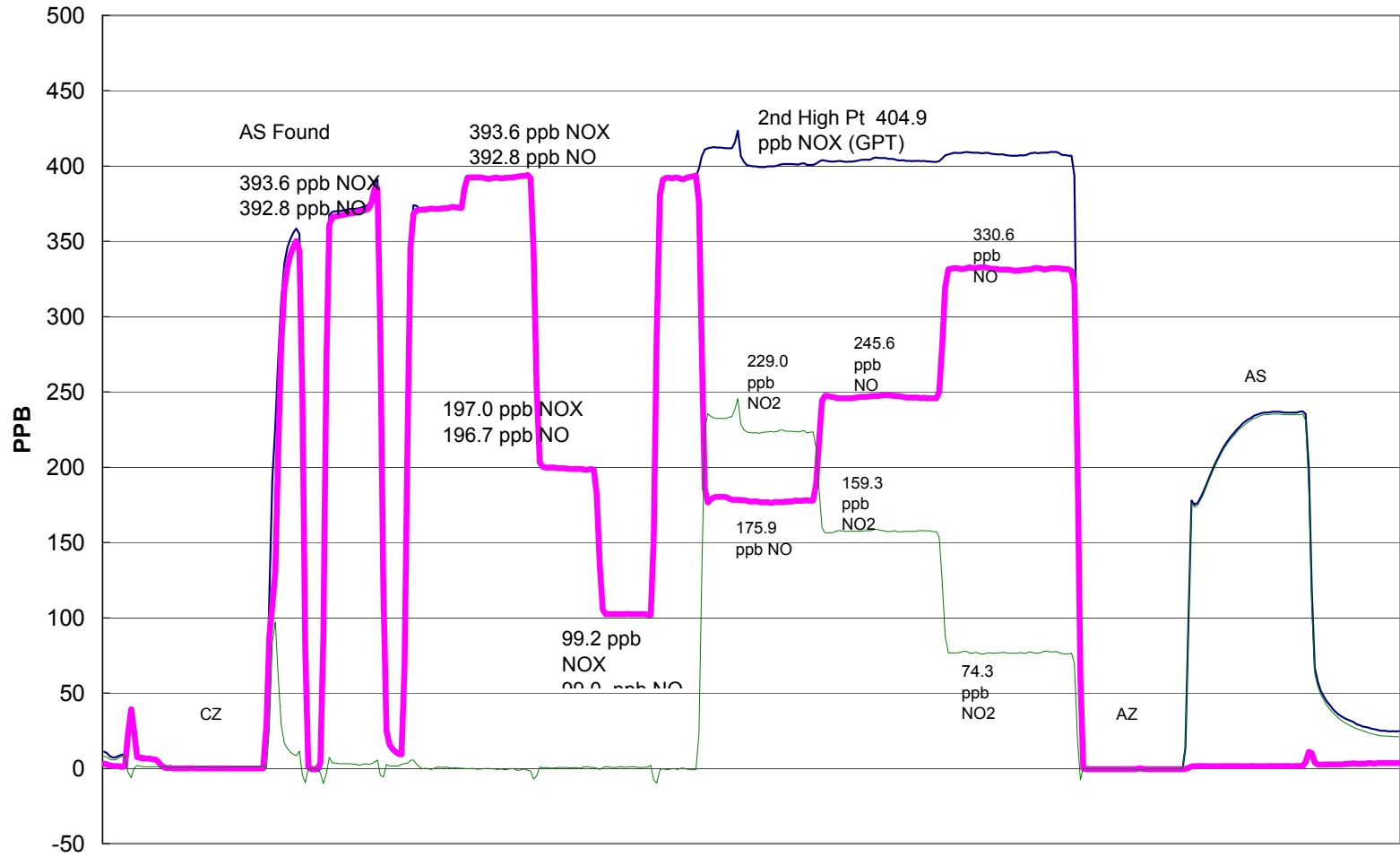
### NOx Calibration



June 12, 2007



### NOx Calibration



June 12, 2007

## Calibration Summary

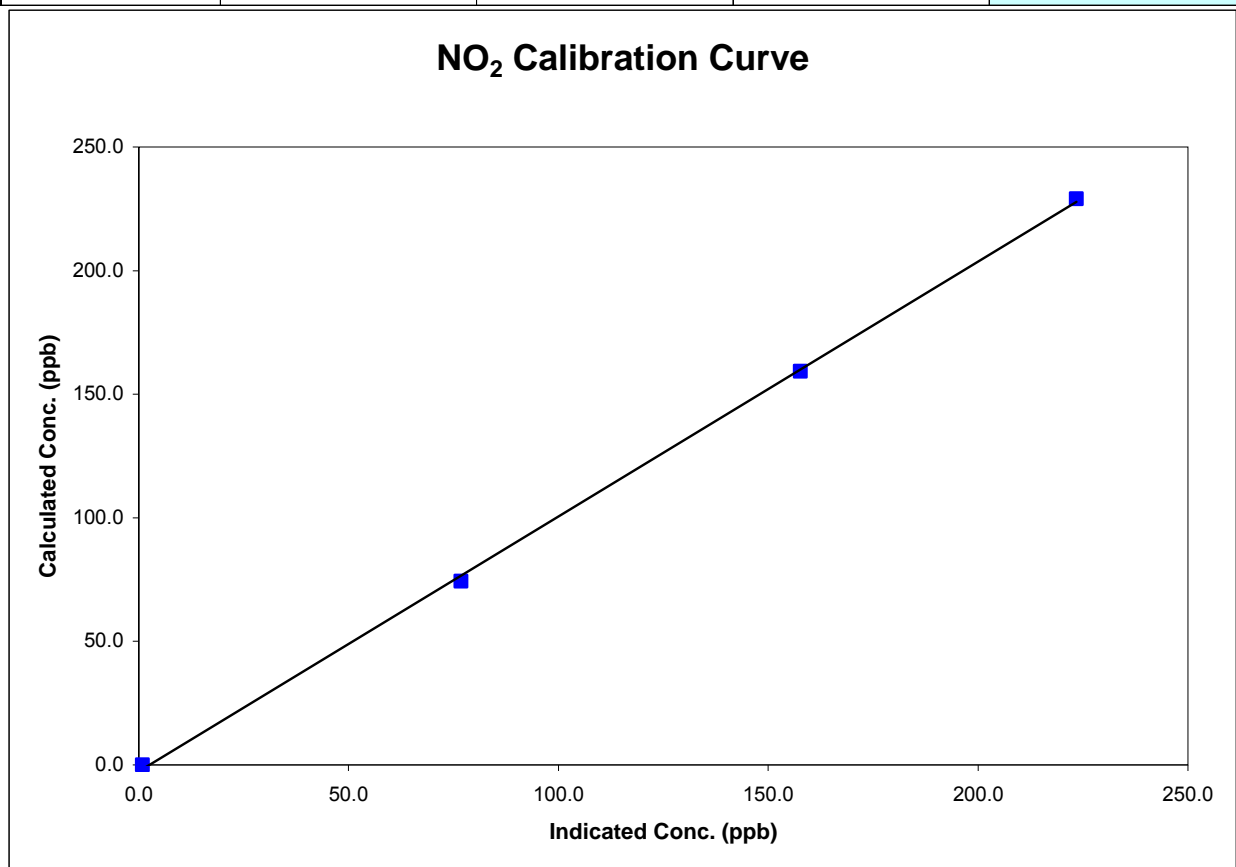
Parameter **NO<sub>2</sub>**Air Monitoring Network **PASZA**

### Station Information

Calibration Date	June 12, 2007	Previous Calibration	June 11, 2007
Station Number	1	Station Location	Henry Pirker / Muskosepi Park
Start Time (MST)	9:00	End Time (MST)	12:33
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	0.8	0.0000	Correlation Coefficient	0.999668
229.0	223.5	1.0247		
159.3	157.6	1.0107		
74.3	76.8	0.9677		
			Slope	1.030667
			Intercept	-2.548741



## Calibration Summary

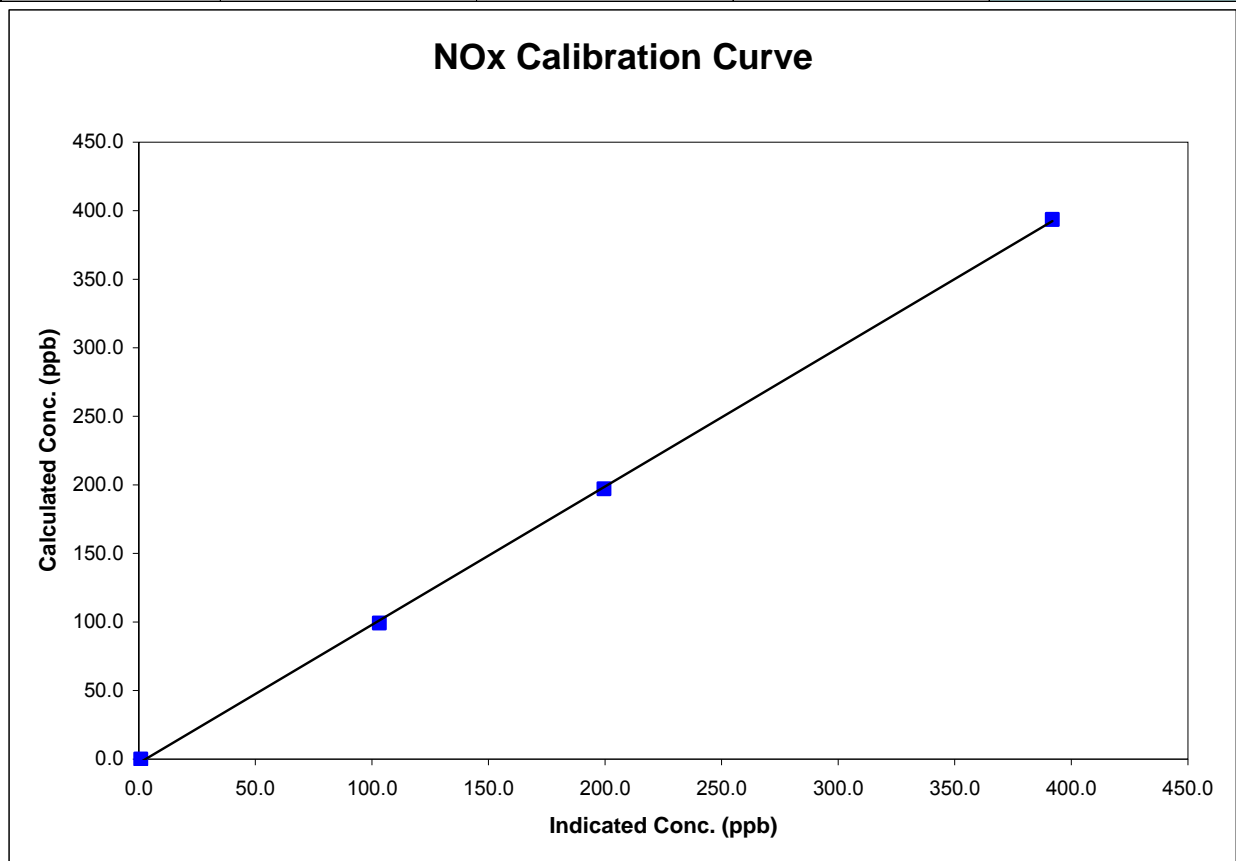
Parameter **NO<sub>x</sub>**Air Monitoring Network **PASZA**

### Station Information

Calibration Date	June 12, 2007	Previous Calibration	June 11, 2007
Station Number	1	Station Location	Henry Pirker / Muskoseepi Park
Start Time (MST)	9:00	End Time (MST)	12:33
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	1.0	0.0000	Correlation Coefficient	0.999867
393.6	391.8	1.0045		
197.0	199.6	0.9873	Slope	1.009239
99.2	103.2	0.9608		
			Intercept	-3.053568



## Calibration Summary

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

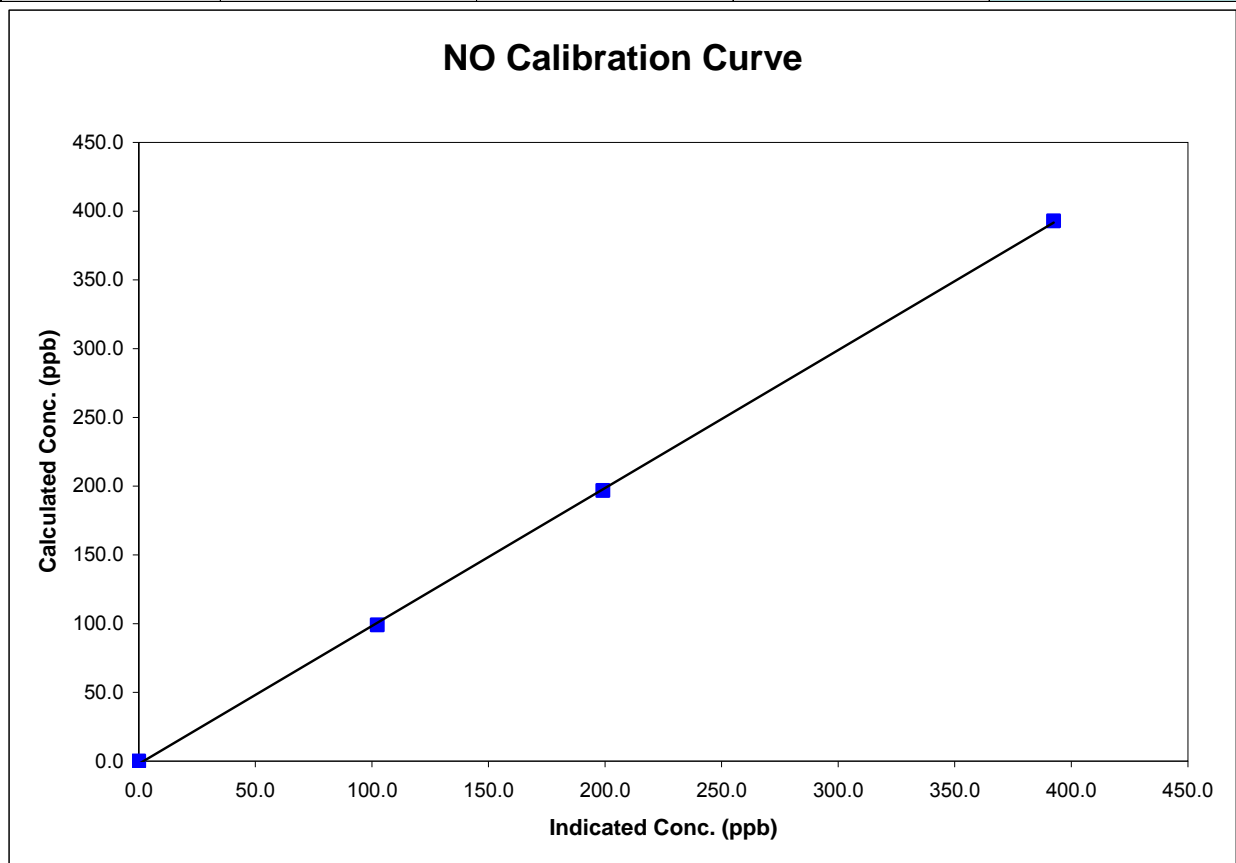


### Station Information

Calibration Date	June 12, 2007	Previous Calibration	June 11, 2007
Station Number	1	Station Location	Henry Pirker / Muskosepi Park
Start Time (MST)	9:00	End Time (MST)	12:33
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		
392.8	392.5	1.0009	Correlation Coefficient	0.999891
196.7	199.1	0.9877		
99.0	102.3	0.9671		
			Slope	1.002992
			Intercept	-1.883987



# Calibration Report

Parameter 03Air Monitoring Network PASZA

## Station Information

Calibration Date	June 12, 2007	Previous Calibration	May 14, 2007
Station Number	1	Station Location	Henry Pirker / Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="checkbox"/>

Start Time (MST)	11:48	End Time (MST)	14:24
Barometric Pressure	0.920 atm	Station Temperature	20.0 Deg C
Calibrator	Enviroics 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	1.114360	Calculated slope	1.005890
Calculated intercept	1.259732	Calculated intercept	2.131849

Analyzer make	TECO 49C	Analyzer serial #	607415761
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	before		after	
Concentration range	500	ppb		ppb
offset	-0.6	ppb		ppb
slope	0.91			
Cell A	95800	mV		mV
Cell B	73100	mV		mV
Pressure	676.1	inches Hg		inches Hg
Sample Flow	650/664	ccm		ccm
ANA Lamp temp	71	Deg C		Deg C

## 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	0.4	N/A
4992	0.00	229.0	229.1	0.9997
4992	0.00	159.3	151.5	1.0515
4992	0.00	74.3	70.5	1.0542
4992	0.00	0.0	0.4	As found zero
4992	0.00	229.0	245.5	As found span
Average Correction Factor				1.0351

Calculated value of As Found Response: 274.4 ppm      Percent Change of As Found: 19.8%

	before calibration		after calibration	
Auto zero	1.5	ppb	0.0	ppb
Auto span	254.0	ppb	240.4	ppb

Notes: \_\_\_\_\_  
 \_\_\_\_\_

Calibration Performed By: Dawn Ewan

## Calibration Summary

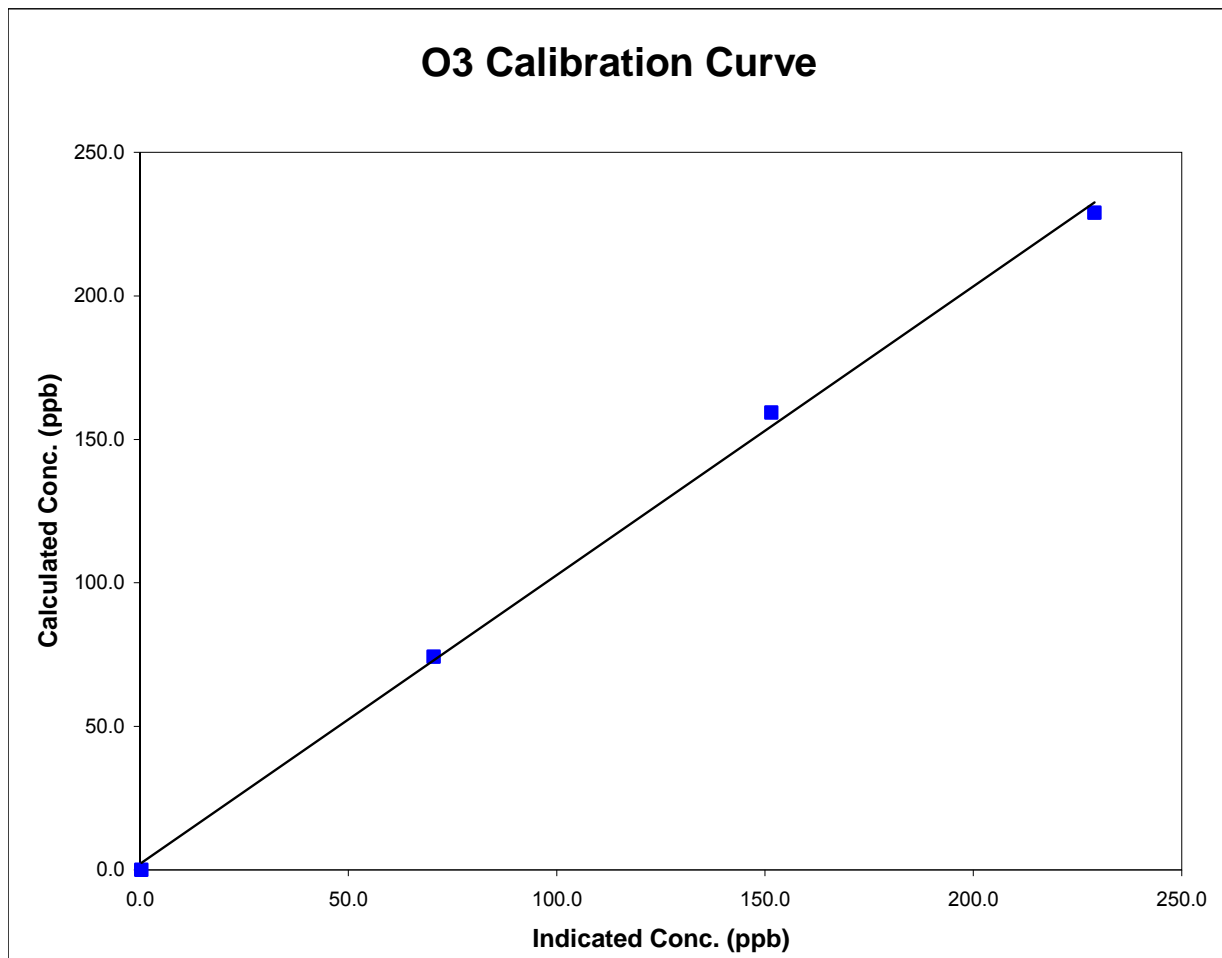
Parameter **O3**Air Monitoring Network **PASZA**

### Station Information

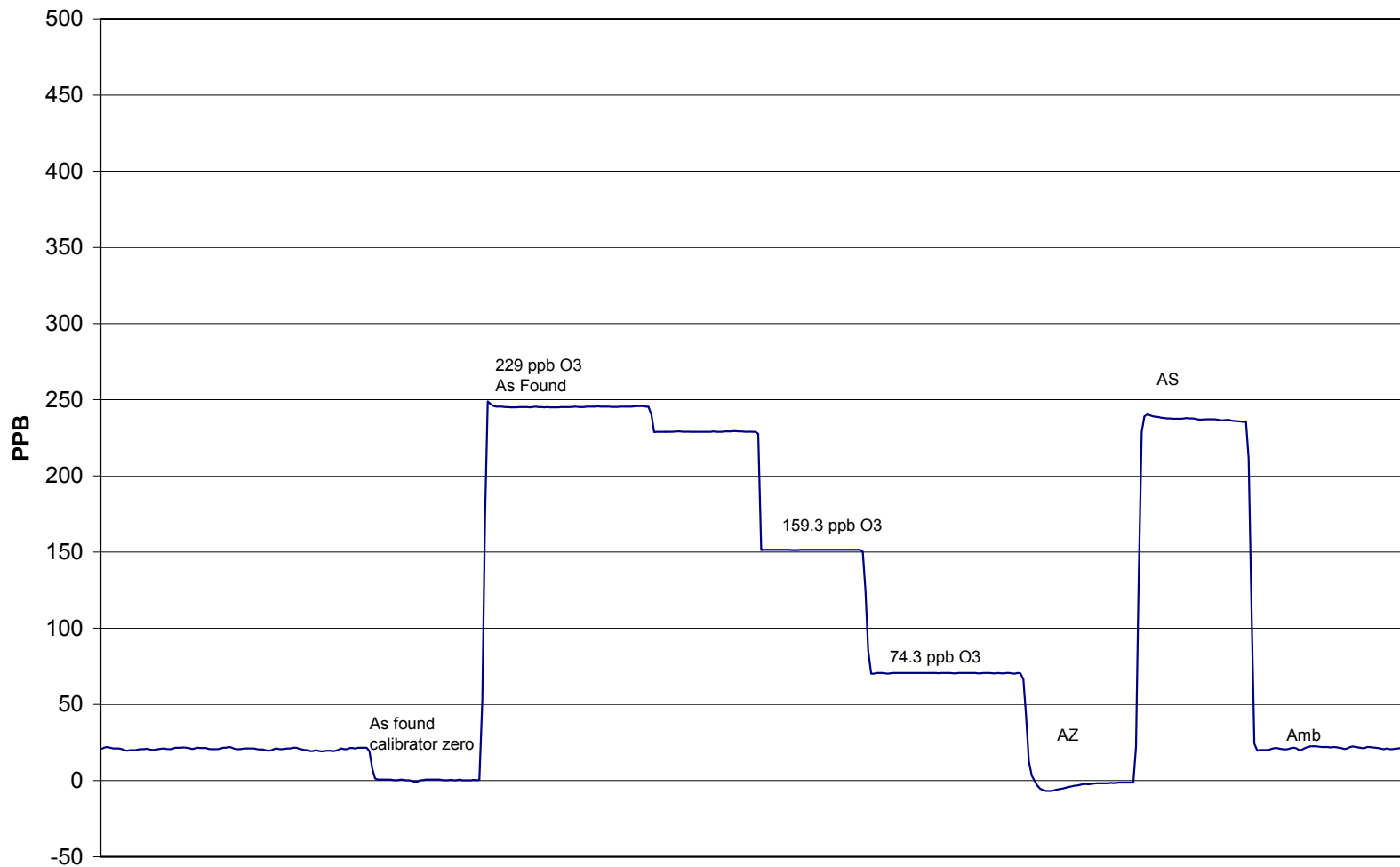
Calibration Date	June 12, 2007	Previous Calibration	May 14, 2007
Station Number	1	Station Location	Henry Pirker / Muskoseepi Park
Start Time (MST)	11:48	End Time (MST)	14:24
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	NA		
229.0	229.1	0.9997	Correlation Coefficient	0.998548
159.3	151.5	1.0515		
74.3	70.5	1.0542	Slope	1.005890
			Intercept	2.131849



O3 Calibration



June 12, 2007

**Calibration Report**Parameter 03Air Monitoring Network PASZA**Station Information**

Calibration Date	June 19, 2007	Previous Calibration	June 12, 2007
Station Number	1	Station Location	Henry Pirker / Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>

Start Time (MST)	10:18	End Time (MST)	13:03
Barometric Pressure	0.920 atm	Station Temperature	20.0 Deg C
Calibrator	Enviroics 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	0.997347
Calculated intercept	2.131849	Calculated intercept	5.126403

Analyzer make	TECO 49C	Analyzer serial #	607415761
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	before		after	
Concentration range	500	ppb	500	ppb
offset	-0.6	ppb	-0.6	ppb
slope	0.91		0.993	
O3 Lamp temp	95800	mV	71	mV
Intensities	73100	mV	94900/72800	mV
Pressure	676.1	inches Hg	961.2	inches Hg
Flow A	650/664	ccm	664	ccm
Flow B	71	Deg C	674	Deg C

**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	0.5	N/A
4992	0.00	322.1	322.2	0.9999
4992	0.00	193.2	183.0	1.0557
4992	0.00	95.2	86.0	1.1077
4992	0.00	0.0	0.5	As found zero
4992	0.00	322.1	274.4	As found span
Average Correction Factor				1.0544

Calculated value of As Found Response: 277.6 ppm      Percent Change of As Found: -13.8%

	before calibration		after calibration	
Auto zero	0.0	ppb	2.7	ppb
Auto span	240.4	ppb	280.8	ppb

Notes: \_\_\_\_\_

Calibration Performed By: Dawn Ewan



# Calibration Summary



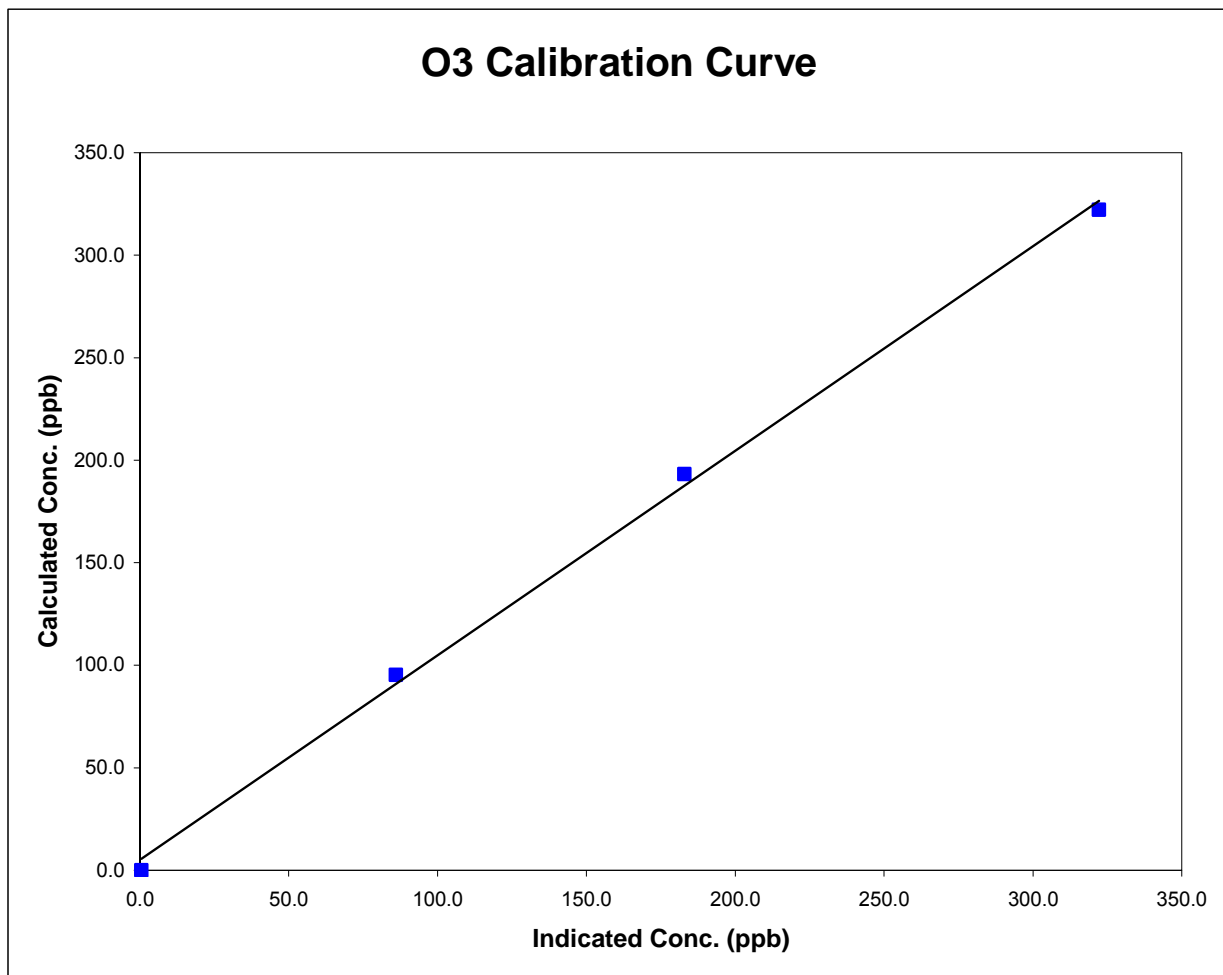
Parameter **O3**  
 Air Monitoring Network **PASZA**

### Station Information

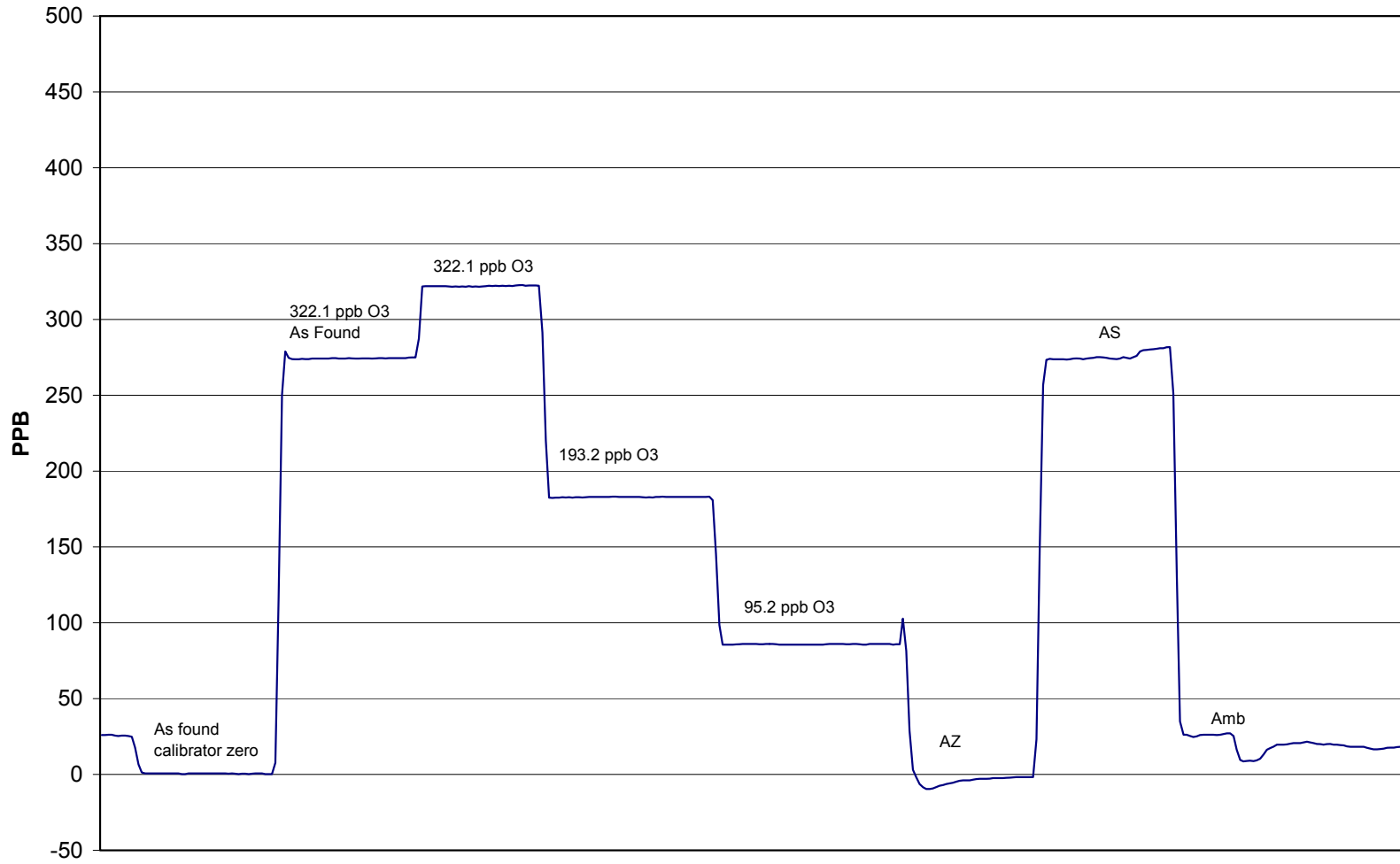
Calibration Date	June 19, 2007	Previous Calibration	June 12, 2007
Station Number	1	Station Location	Henry Pirker / Muskosepi Park
Start Time (MST)	10:18	End Time (MST)	13:03
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	NA		
322.1	322.2	0.9999	Correlation Coefficient	0.998248
193.2	183.0	1.0557		
95.2	86.0	1.1077	Slope	0.997347
			Intercept	5.126403



### O3 Calibration



June 19, 2007

# Calibration Report



Parameter CO  
Air Monitoring Network PASZA

## Station Information

Calibration Date	June 7, 2007	Previous Calibration	May 9, 2007
Station Number	1	Station Location	Henry Pirker / Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:00	End Time (MST)	13:50
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	1.005284	Calculated slope	1.014801
Calculated intercept	0.020895	Calculated intercept	-0.263442
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
CO span setting	1.57		1.57	
CO zero setting	9.750		9.750	
Sample pressure	682	mm Hg	682	mm Hg
Sample Flow	1.091	LPM	1.091	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	0.22	N/A
4994	39.94	23.80	23.68	1.0050
4994	19.91	11.91	12.04	0.9891
4994	10.00	6.00	6.20	0.9676
4994	0.00	0.00	0.22	As Found Zero
4994	39.94	23.80	24.64	As Found Span
Average Correction Factor				0.9872

Calculated value of As Found Response: 24.578 ppm      Percent Change of As Found: -3.3%

	before calibration		after calibration	
Auto zero	-0.15	ppm	-0.18	ppm
Auto span	14.92	ppm	21.18	ppm

Notes:

Calibration Performed By: Dawn Ewan

## Calibration Summary

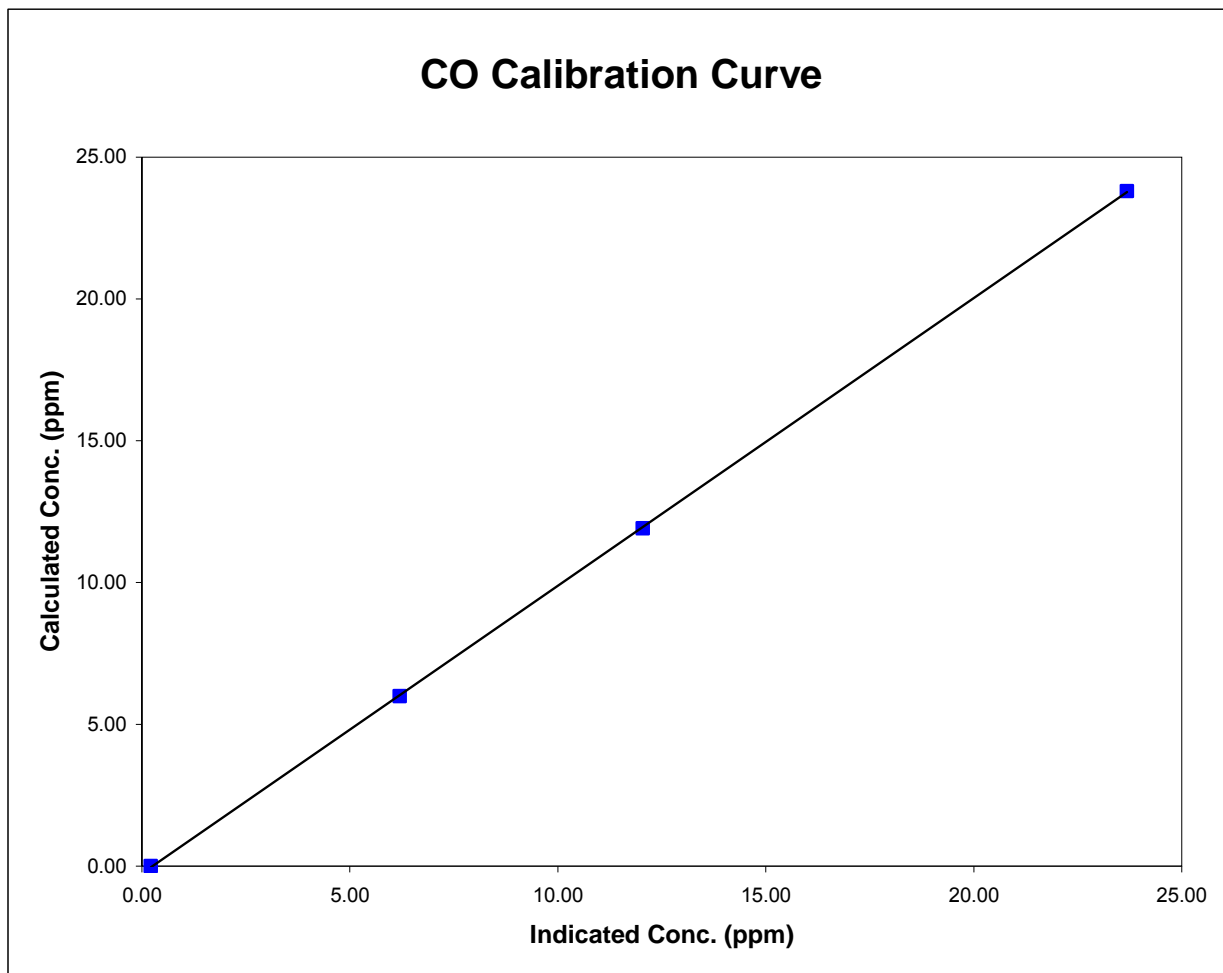
Parameter **CO**Air Monitoring Network **PASZA**

### Station Information

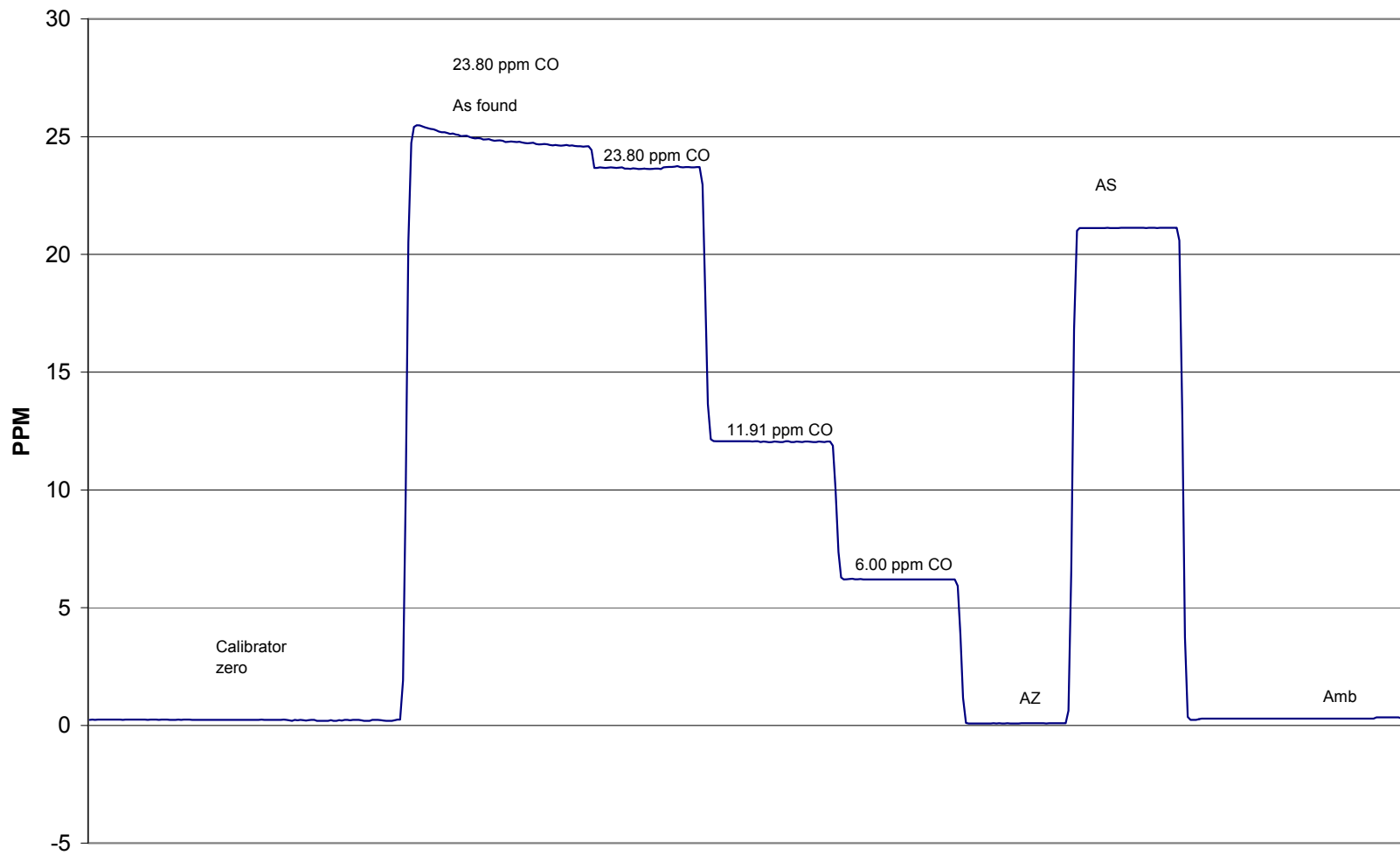
Calibration Date	June 7, 2007	Previous Calibration	May 9, 2007
Station Number	1	Station Location	Henry Pirker / Muskosepi Park
Start Time (MST)	11:00	End Time (MST)	13:50
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.215	N/A		
23.802	23.684	1.0050	Correlation Coefficient	0.999981
11.913	12.045	0.9891		
5.995	6.196	0.9676	Slope	1.014801
			Intercept	-0.263442



### CO Calibration



June 7, 2007

# Calibration Report

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

## Station Information

Calibration Date	June 19, 2007	Previous Calibration	May 10, 2007
Station Number	1	Station Location	Henry Pirker / Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	12:13	End Time (MST)	14:45
Barometric Pressure	0.935 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	1.005894	Calculated slope	0.995576
Calculated intercept	-0.138932	Calculated intercept	0.134561
Analyzer make	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.07	psi	6.1	psi
THC span counts	7246	capture	7465	capture
THC zero counts	432	capture	432	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	0.05	N/A
4992	64.92	19.54	19.68	0.9928
4992	39.95	12.08	11.74	1.0292
4993	20.00	6.07	5.85	1.0389
4992	0.00	0.00	0.05	As Found Zero
4992	64.92	19.54	20.18	As Found Span
Average Correction Factor				1.0203

Calculated value of As Found Response: 20.100 ppm      Percent Change of As Found: -2.9%

	before calibration		after calibration	
Auto zero	-0.04	ppm	-0.05	ppm
Auto span	22.95	ppm	22.41	ppm

Notes: Adjusted span.

Calibration Performed By: Dawn Ewan

## Calibration Summary

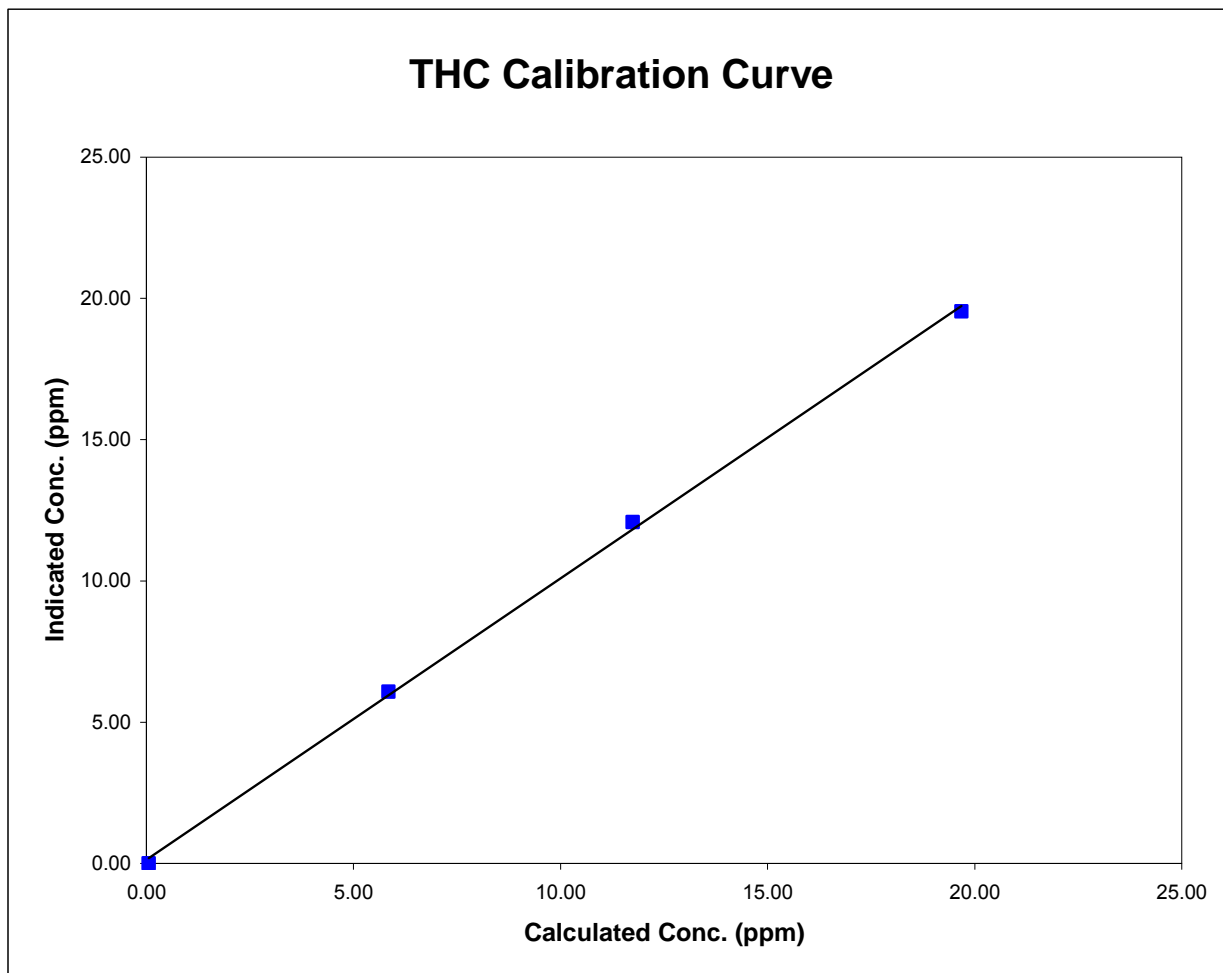
Parameter **THC**Air Monitoring Network **PASZA**

### Station Information

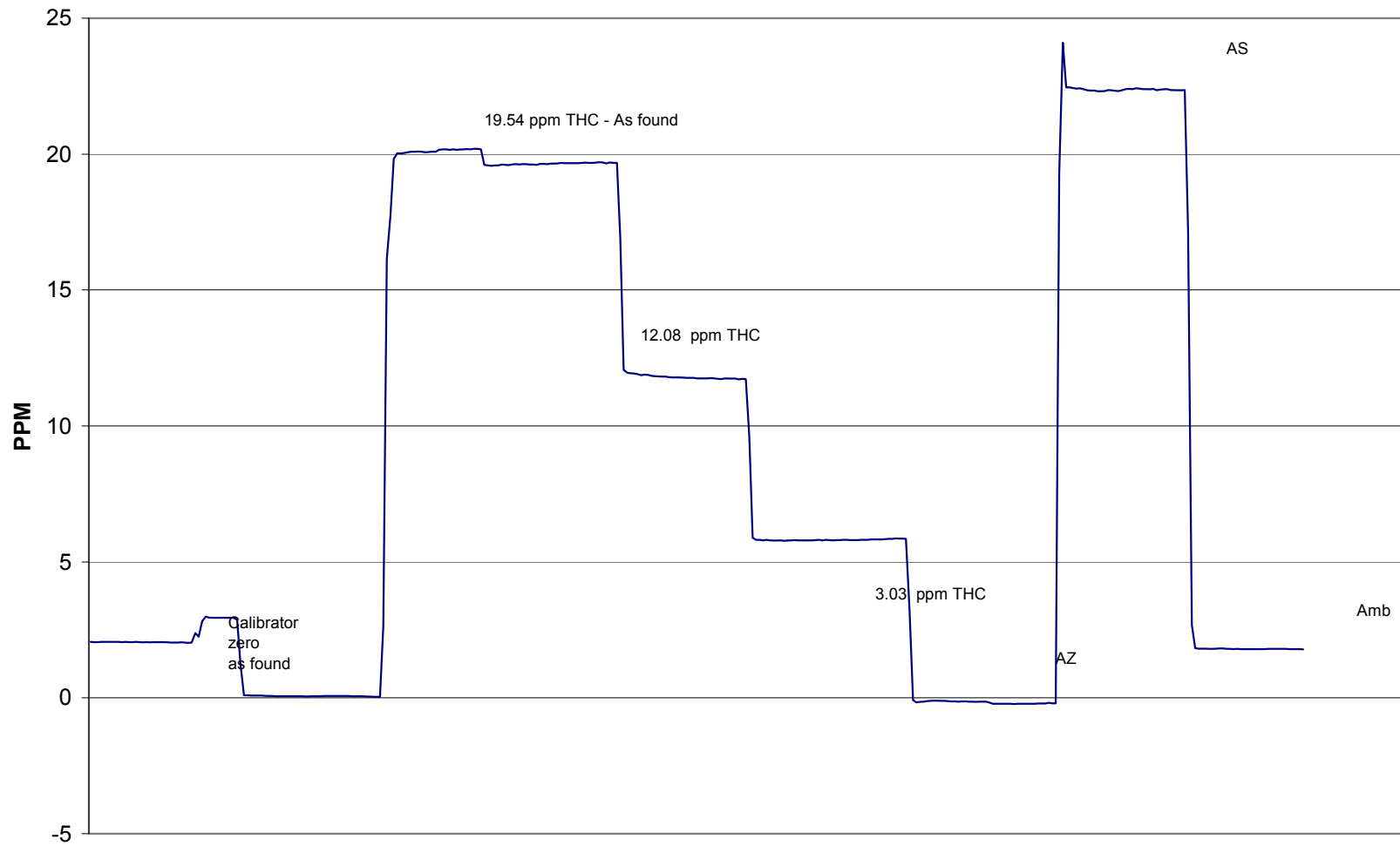
Calibration Date	June 19, 2007	Previous Calibration	May 10, 2007
Station Number	1	Station Location	Henry Pirker / Muskosepi Park
Start Time (MST)	12:13	End Time (MST)	14:45
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.055	N/A		
19.542	19.684	0.9928	Correlation Coefficient	0.999268
12.084	11.742	1.0292		
6.073	5.846	1.0389	Slope	0.995576
			Intercept	0.134561



### THC Calibration



June 19, 2007



# Calibration Report

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

## Station Information

Calibration Date	June 19, 2007	Previous Calibration	May 10, 2007
Station Number	1	Station Location	Henry Pirker / Muskoseepi Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	9:46	End Time (MST)	13:43
Barometric Pressure	27.7 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.940921	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	45266
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	0.977662	Calculated slope	0.976695
Calculated intercept	0.593382	Calculated intercept	1.668054

Analyzer make	TEI Model 45C	Analyzer serial #	
---------------	---------------	-------------------	--

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	19.8	ppb	20	ppb
coefficient	1.104		1.15	
Lamp Voltage	877	volts	861	volts
Chamber Temp	44.3	Deg C	44.3	Deg C
Perm Gas Temp		Deg C		Deg C
Pressure	658.7	mm Hg	658.4	mm Hg
Sample Flow	463	ccm	462	ccm
Lamp Intensity	39,000	mv	38,900	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)
zero	2484.0	0.0	0.3	N/A
2640	2484.0	68.0	68.9	0.9875
4980	4685.8	36.1	34.4	1.0495
8610	8101.3	20.9	17.6	1.1857
zero	2446.4	0.0	-0.6	As Found Zero
2600	2446.4	69.1	65.0	As Found Span
Average Correction Factor				1.0743

Calculated value of As Found Response: 64.70 ppm      Percent Change of As Found: 6.3%

	before calibration		after calibration	
Auto zero	0.3	ppm	1.8	ppm
Auto span	53.3	ppm	48.8	ppm

Notes: \_\_\_\_\_

Calibration Performed By: Dawn Ewan

## Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

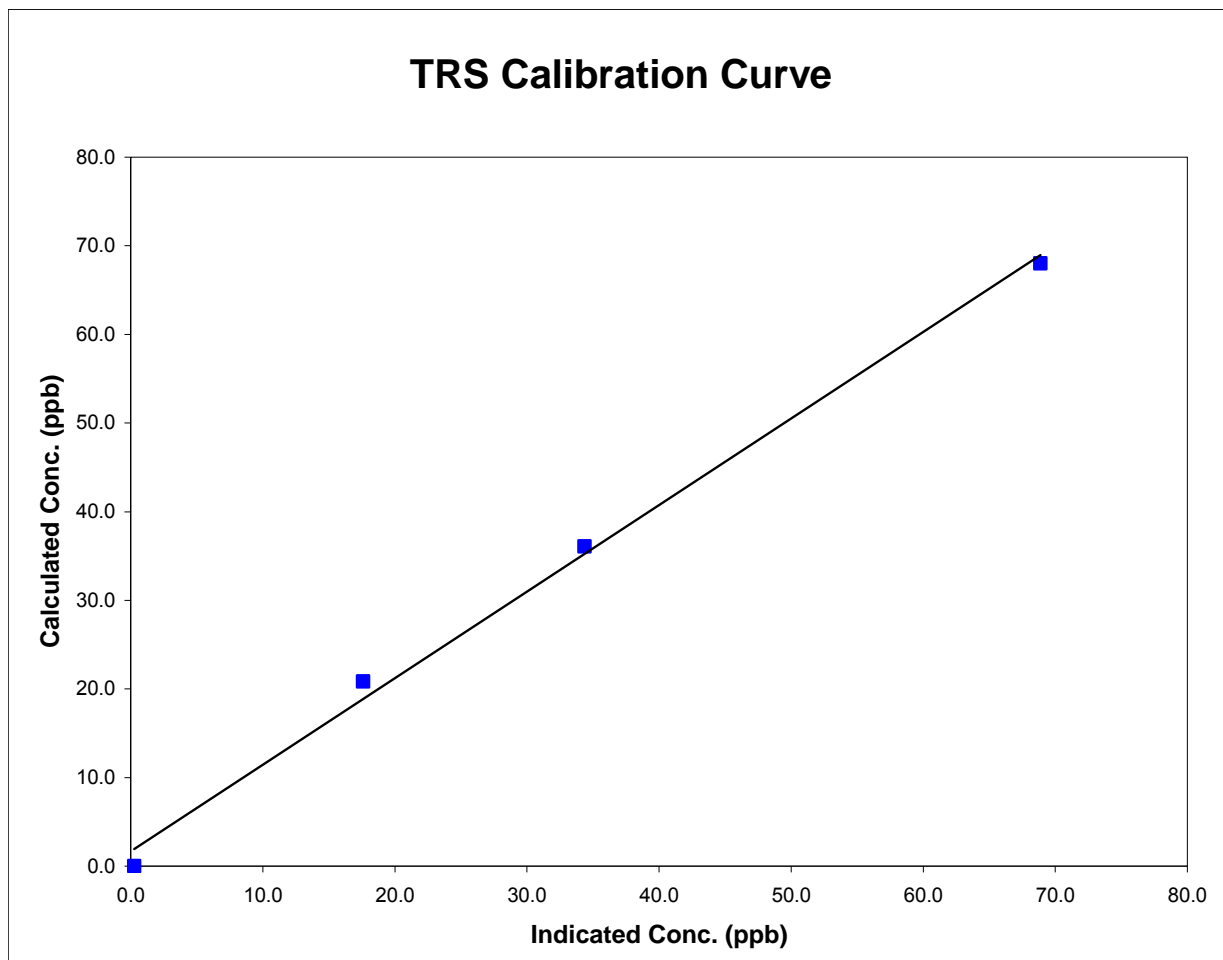


### Station Information

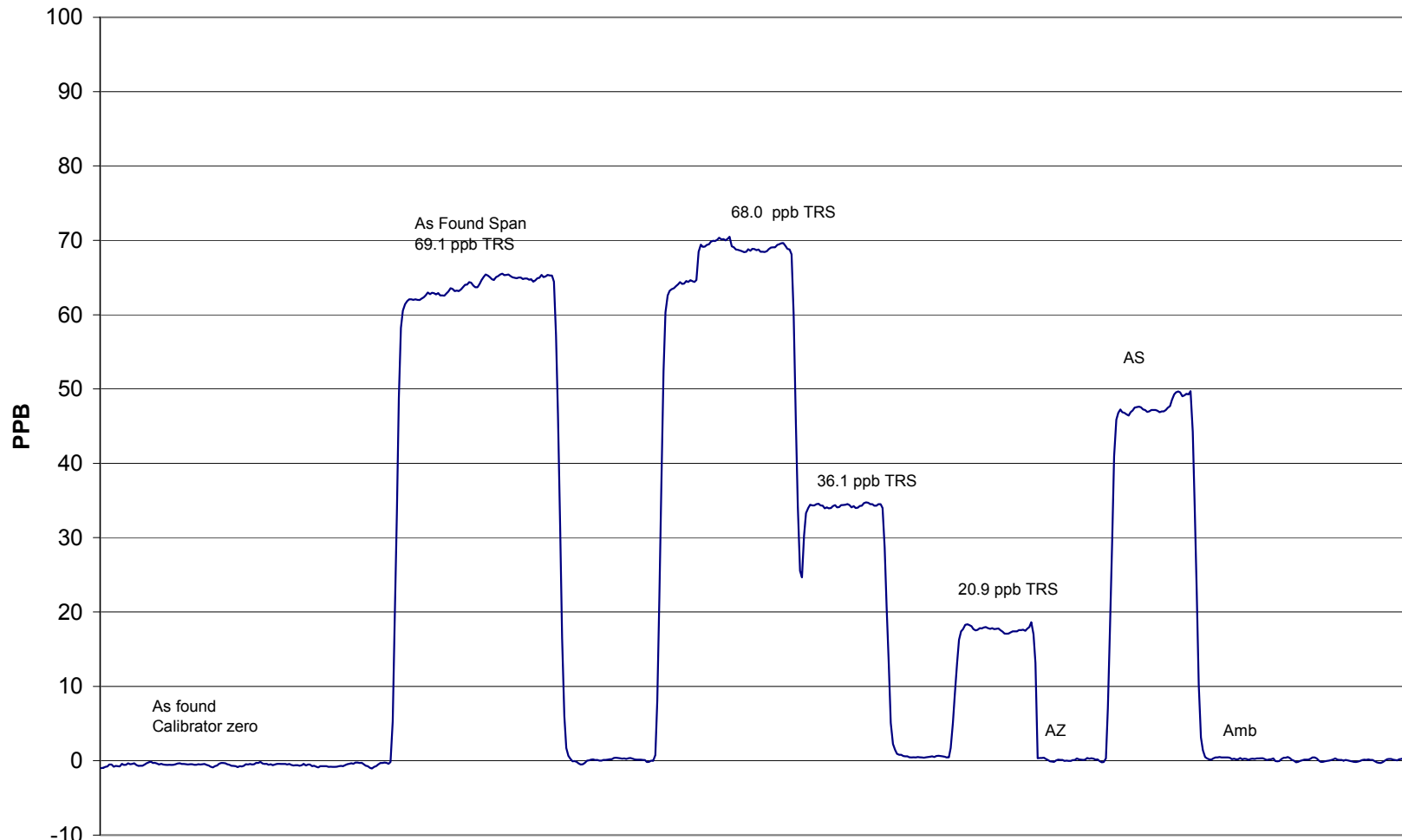
Calibration Date	June 19, 2007	Previous Calibration	May 10, 2007
Station Number	1	Station Location	Henry Pirker / Muskoseepi Park
Start Time (MST)	9:46	End Time (MST)	13:43
Analyzer make/model	TEI Model 45C	Analyzer serial #	0

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
68.0	68.9	0.9875	Correlation Coefficient	0.996231
36.1	34.4	1.0495		
20.9	17.6	1.1857	Slope	0.976695
			Intercept	1.668054



### TRS Calibration



June 19, 2007

# Calibration Report



Parameter **SO<sub>2</sub>**  
 Air Monitoring Network **PASZA**

## Station Information

Calibration Date	June 21, 2007	Previous Calibration	May 3, 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)	11:29	End Time (MST)	15:13
Barometric Pressure	27.7 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.942961	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	6
	<b>Before</b>		<b>After</b>
Calculated slope	1.001517	Calculated slope	1.019231
Calculated intercept	0.319290	Calculated intercept	2.789344
Analyzer make	Teco 43i	Analyzer serial #	701120008

	before		after	
Concentration range	1000	ppb	1000	ppb
Background	8.1		8	
coefficient	0.894		0.833	
Lamp Voltage	843	volts	838	volts
Chamber Temp	45.1	Deg C	45.3	Deg C
Perm Gas Temp	45.01	Deg C	45	Deg C
Pressure	663.5	mm Hg	666.8	mm Hg
Sample Flow	443	ccm	445	ccm
Lamp Intensity	89	%	90	%

## 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	2277.2	0.0	0.6	N/A
2415	2277.2	326.2	318.9	1.0228
4575	4314.0	172.2	165.0	1.0438
8455	7972.7	93.2	85.0	1.0964
zero	2352.7	0.0	0.9	As Found Zero
2495	2352.7	315.7	333.6	As Found Span
Average Correction Factor				1.0543

Calculated value of As Found Response: 333.473 ppm      Percent Change of As Found: -5.6%

	before calibration		after calibration	
Auto zero	0.7	ppm	3.2	ppm
Auto span	275.8	ppm	263.6	ppm

Notes:

Calibration Performed By: Dawn Ewan

## Calibration Summary

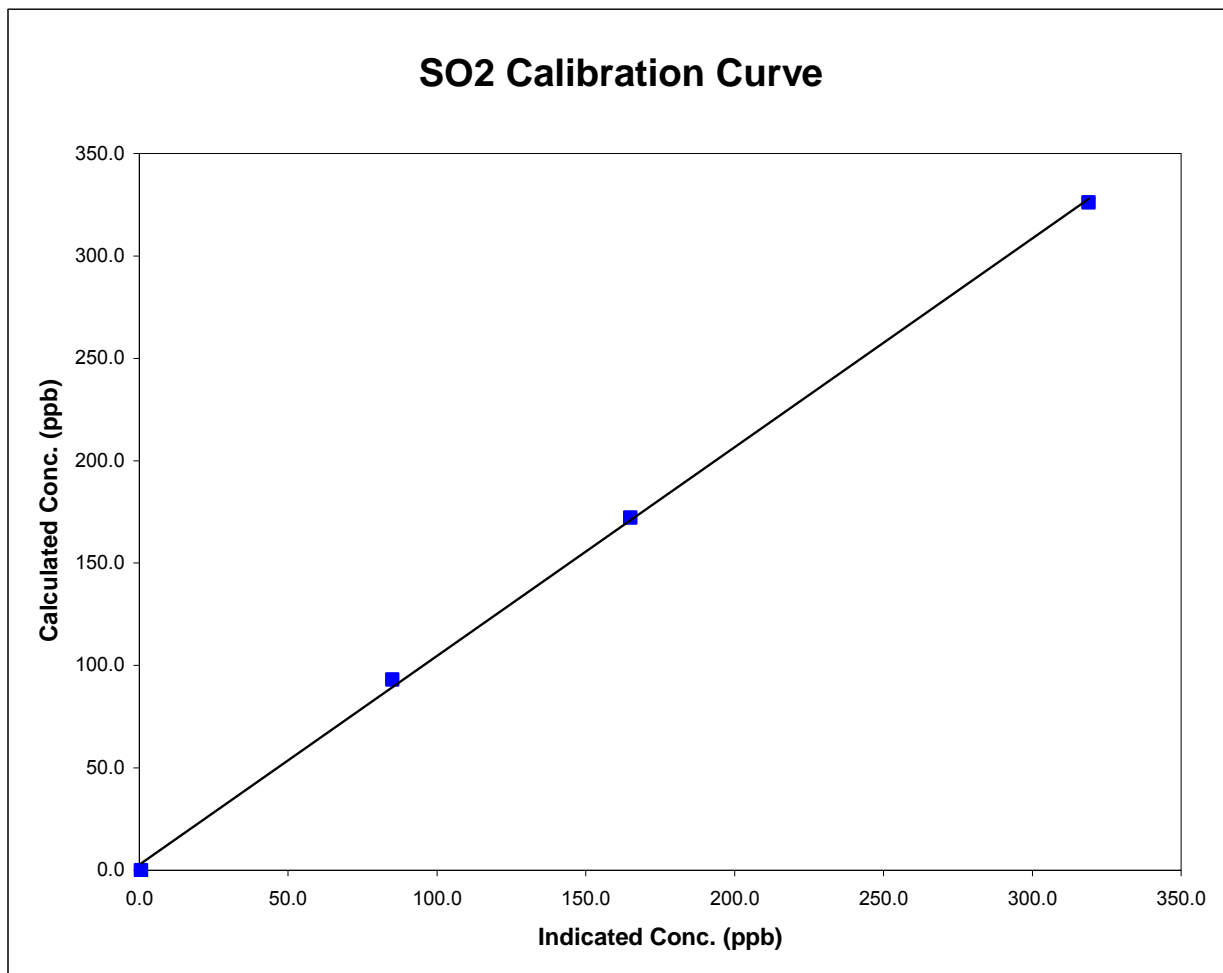
Parameter **SO2**Air Monitoring Network **PASZA**

### Station Information

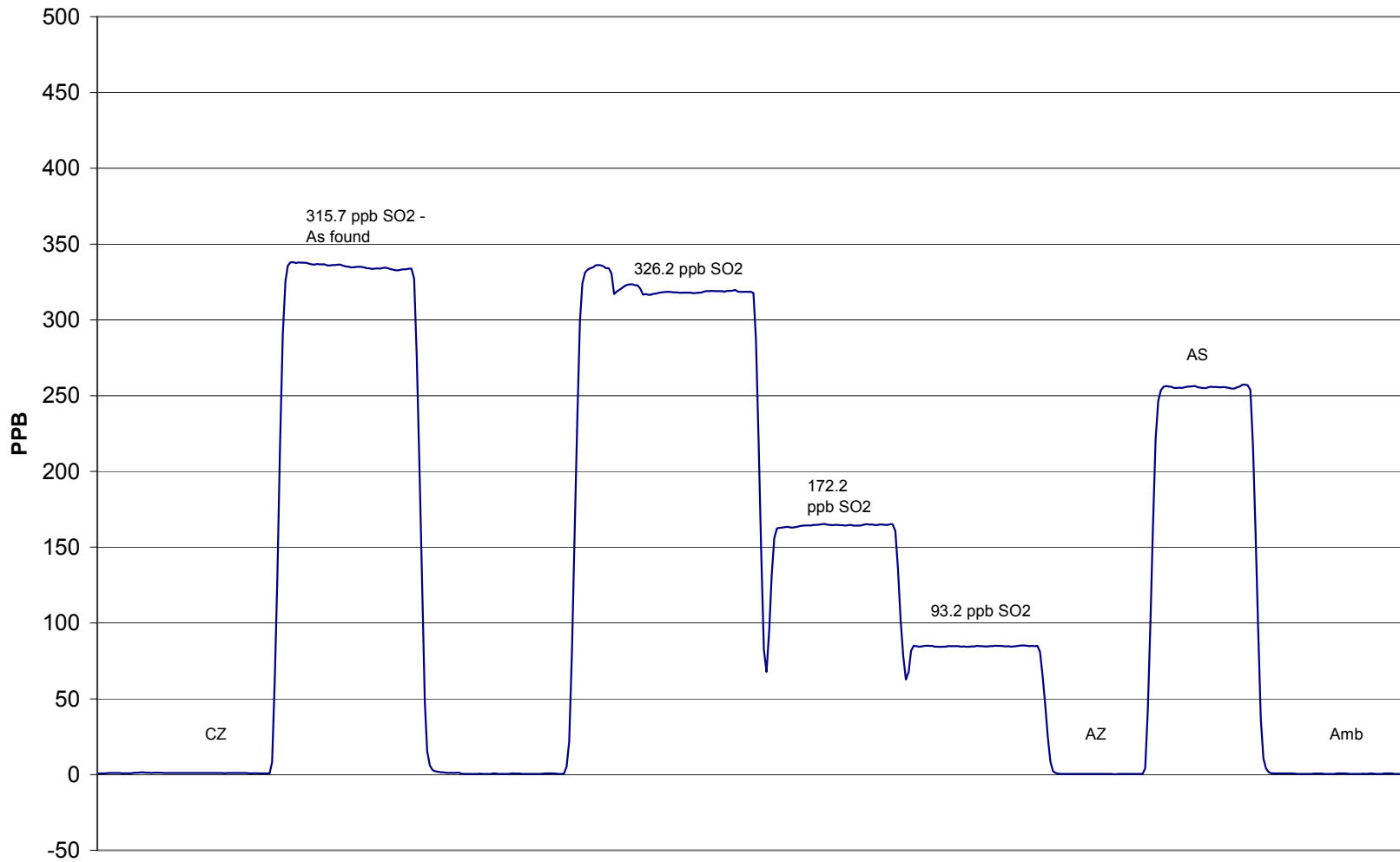
Calibration Date	June 21, 2007	Previous Calibration	May 3, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:29	End Time (MST)	15:13
Analyzer make/model	Teco 43i	Analyzer serial #	701120008

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.6	N/A		
326.2	318.9	1.0228	Correlation Coefficient	0.999476
172.2	165.0	1.0438		
93.2	85.0	1.0964	Slope	1.019231
			Intercept	2.789344



### SO2 Calibration



June 21, 2007

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

Calibration Date	June 21, 2007	Previous Calibration	May 3, 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)	11:29	End Time (MST)	15:13
Barometric Pressure	27.74 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Expiry Date	8/8/2006
Correction factor	0.942961	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	0.996048	Calculated slope	1.024978
Calculated intercept	0.288408	Calculated intercept	0.819826
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	19.7	ppb	19.4	ppb
coefficient	1.211		1.085	
Lamp Voltage	794	volts	786	volts
Chamber Temp	44.1	Deg C	44.1	Deg C
Perm Gas Temp	44.99	Deg C	44.99	Deg C
Pressure	633.4	mm Hg	637	mm Hg
Sample Flow	468	ccm	469	ccm
Lamp Intensity	45,500	mv	46,200	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)
zero	2277.2	0.0	-0.2	N/A
2415	2277.2	74.2	72.0	1.0308
4575	4314.0	39.2	36.9	1.0602
8455	7972.7	21.2	19.3	1.0969
zero	2352.7	0.0	1.9	As Found Zero
2495	2352.7	71.8	80.0	As Found Span
Average Correction Factor				1.0626

Calculated value of As Found Response: 78.06 ppm Percent Change of As Found: -8.7%

	before calibration		after calibration	
Auto zero	0.2	ppm	-1.2	ppm
Auto span	91.4	ppm	79.7	ppm

Notes:

Calibration Performed By: Dawn Ewan

## Calibration Summary

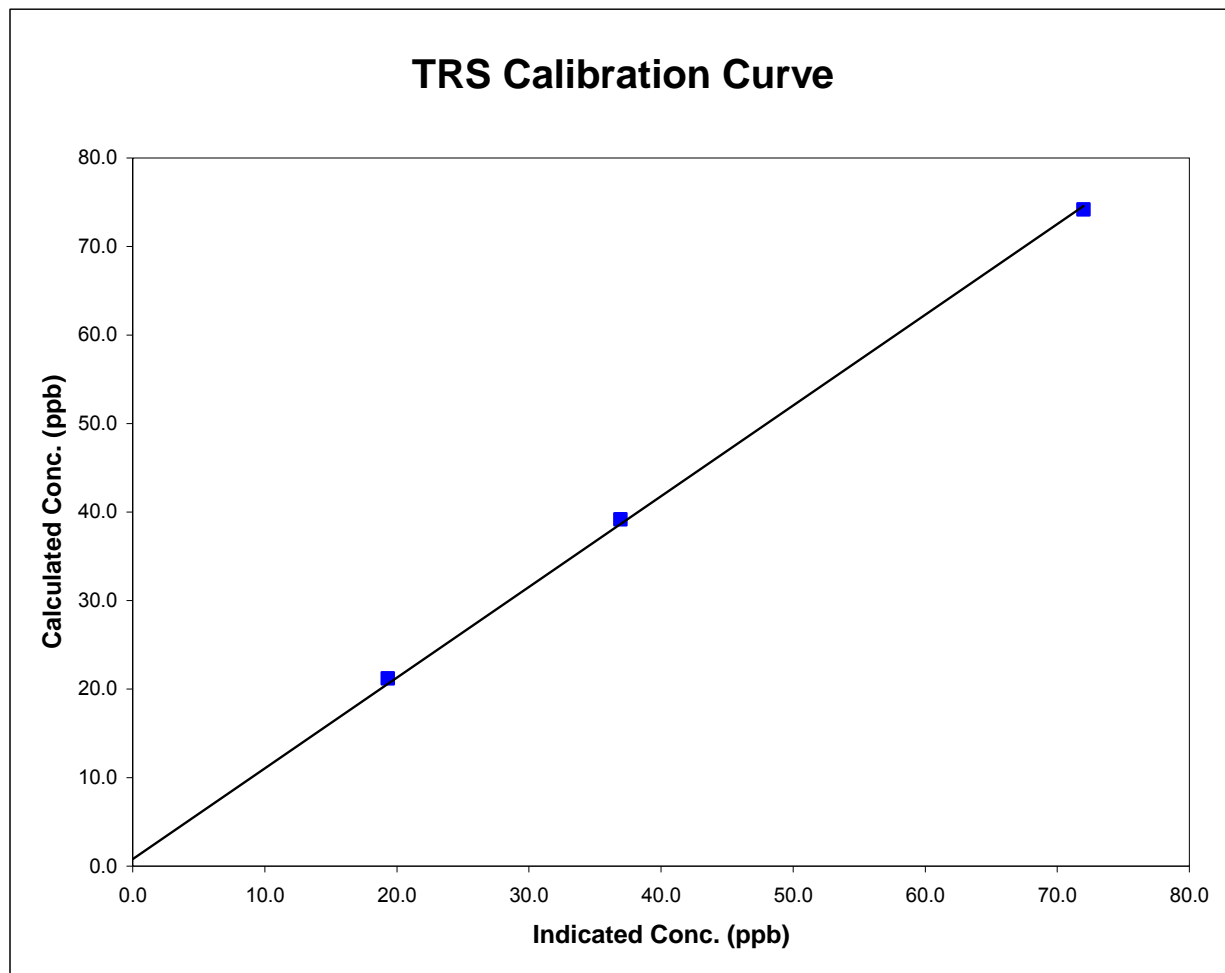
Parameter **TRS**Air Monitoring Network **PASZA**

### Station Information

Calibration Date	June 21, 2007	Previous Calibration	May 3, 2007
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:29	End Time (MST)	15:13
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

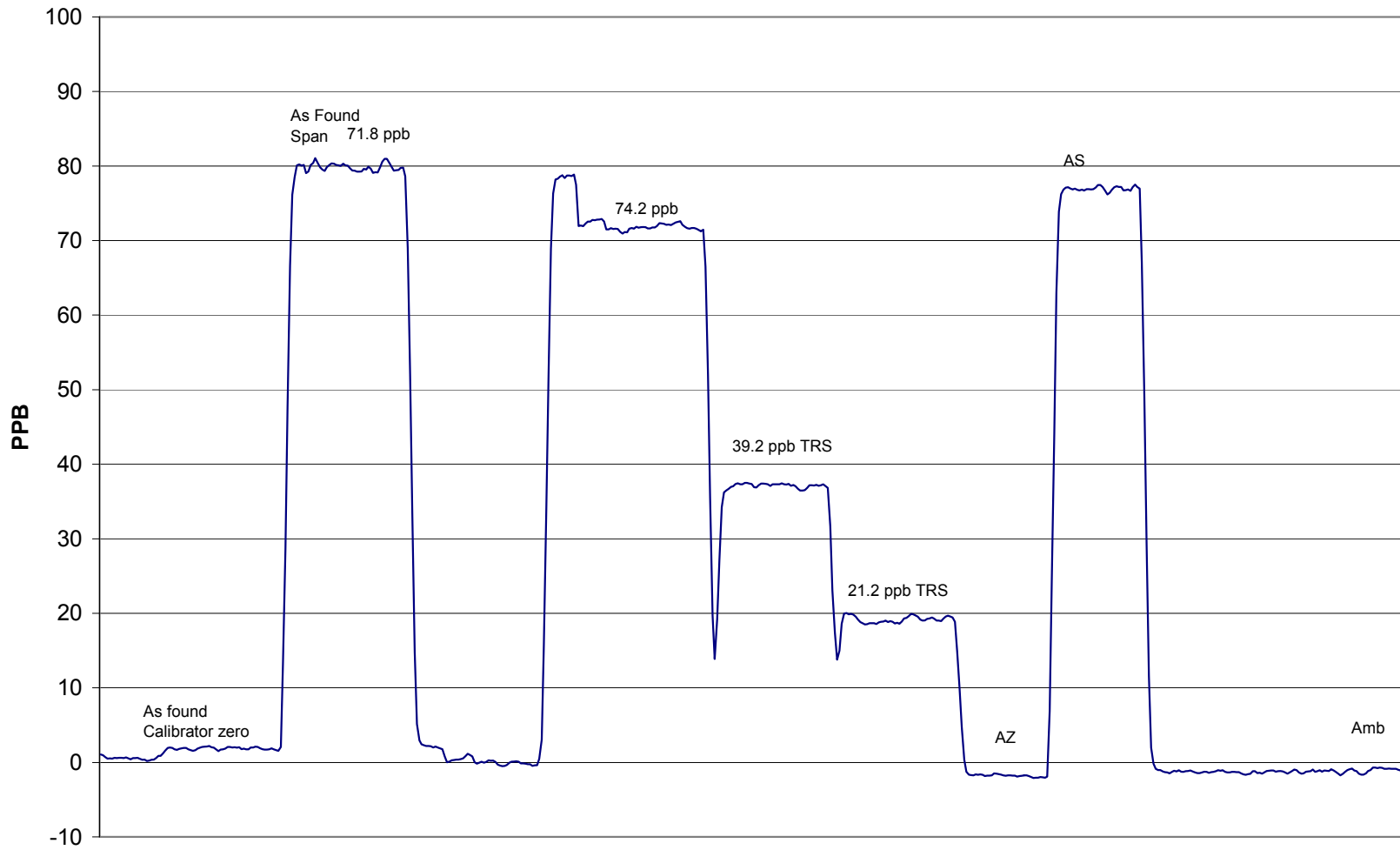
### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	N/A		
74.2	72.0	1.0308	Correlation Coefficient	0.999616
39.2	36.9	1.0602		
21.2	19.3	1.0969	Slope	1.024978
			Intercept	0.819826





### TRS Calibration



June 21, 2007

# Calibration Report

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

## Station Information

Calibration Date	June 21, 2007	Previous Calibration	April 16, 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)	12:50	End Time (MST)	16:30
Barometric Pressure	0.927 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
	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	44	%	17	%
Ko Factor	10124		10124	
Temperature	20.0	Deg C	20.0	Deg C
Pressure	0.927	ATM	0.927	ATM

## Calibration Data

Parameter	Set Point	As Found	Tolerance	TEOM Reading
zero flow - main	0.0	0.09		0.06
zero flow - auxillary	0.0	0.11		-0.04
flow recovery - main	45 - 60 Seconds	50.0	45 - 60 Seconds	50.0
flow recovery - aux	46 - 60 Seconds	55.0	46 - 60 Seconds	55.0
Temperature	measured	20.3	+/- 1.0 Deg C	8.6
Pressure	measured	0.922	+/- 1.5% ΔATM	0.922
Total Flow	16.67 SLPM	15.40		
Main Flow	13.67 SLPM	12.96	+/- 1.0 SLPM	13.58
Auxillary Flow	3.0 SLPM	2.802	+/- 0.2 SLPM	2.972
Leak Check - main	0.0	0.08	<0.15 SLPM	0.08
Leak Check - aux	0.0	0.29	<0.15 SLPM	0.19
Ko Factor (w/o filter)	measured		filter weight (g)	0.11012
Ko Factor (w/ filter)	measured		% Ko difference	N/A

Notes: Cleaned head.  
Changed filter.  
Adjusted flows.

Calibration Performed By: Dawn Ewan

# Calibration Report



Parameter

SO<sub>2</sub>

Air Monitoring Network

PASZA

## Station Information

Calibration Date	June 23, 2007	Previous Calibration	May 31, 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)	12:10	End Time (MST)	14:42
Barometric Pressure	27.60 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Expiry Date	8/6/2006
Correction factor	0.938202	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope	0.895210	Calculated slope	0.955933
Calculated intercept	5.138695	Calculated intercept	2.162745
Analyzer make	Teco 43i	Analyzer serial #	70112009

	before		after	
Concentration range	500	ppb	500	ppb
Background	5.1		5.1	
coefficient	0.813		0.813	
Lamp Voltage	868	V	868	V
Chamber Temp	45	Deg C	45	Deg C
Perm Gas Temp	44.99	Deg C	44.99	Deg C
Pressure	668.1	"Hg	668.1	"Hg
Sample Flow	444	cc/min	444	cc/min
Lamp Intesity	90	%	90	%

## 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	2434.6	0.0	0.1	N/A
2595	2434.6	305.1	317.9	0.9596
5010	4700.4	158.0	162.7	0.9714
8660	8124.8	91.4	90.3	1.0119
zero	2434.6	0.0	0.1	As Found Zero
2595	2434.6	305.1	317.9	As Found Span
Average Correction Factor				0.9810

Calculated value of As Found Response: 289.688 ppm      Percent Change of As Found: 5.0%

	before calibration		after calibration	
Auto zero	5.2	ppm	2.2	ppm
Auto span	279.9	ppm	292.6	ppm

Notes: No adjustments made.

Calibration Performed By: Dawn Ewan

## Calibration Summary



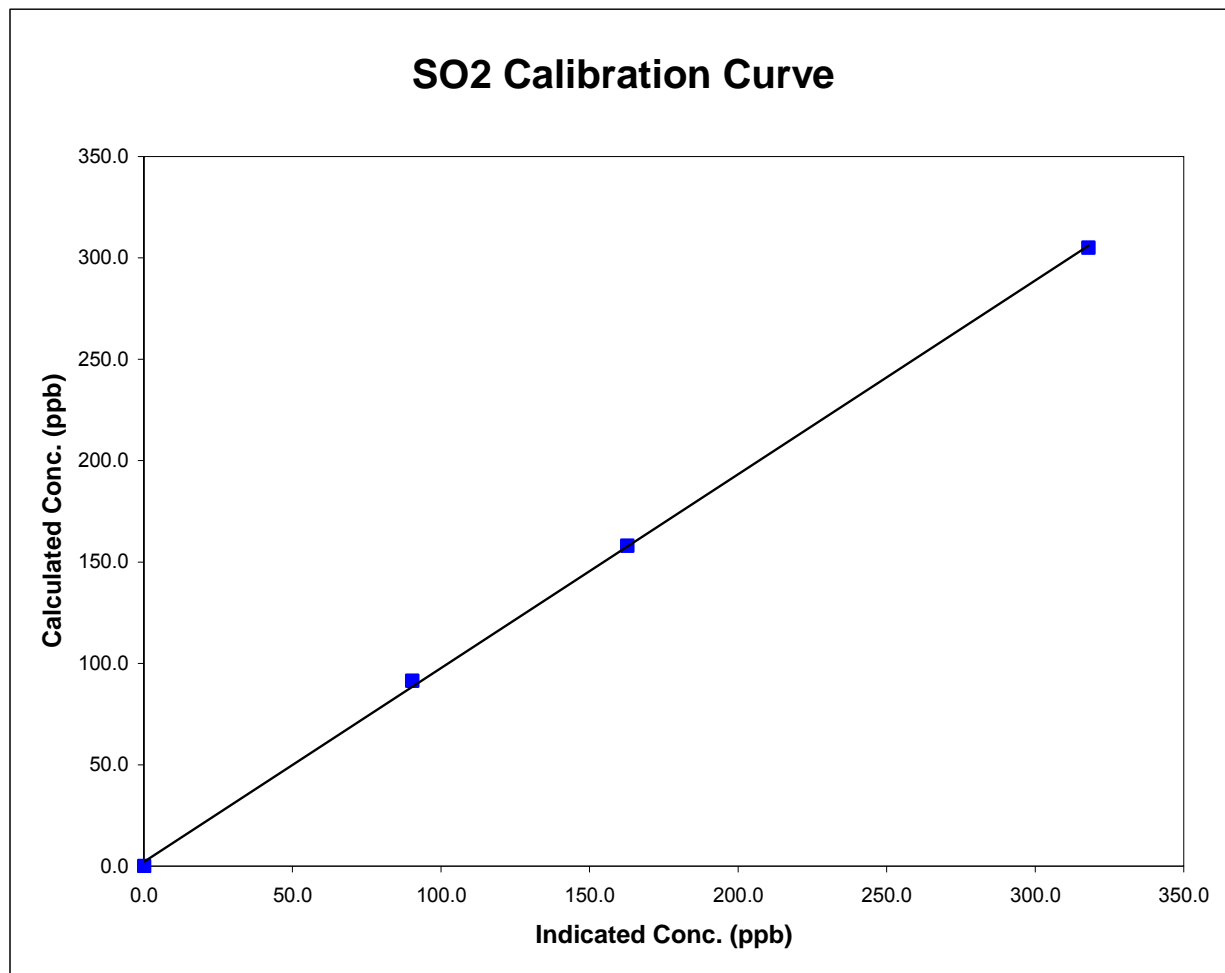
Parameter **SO2**  
 Air Monitoring Network **PASZA**

### Station Information

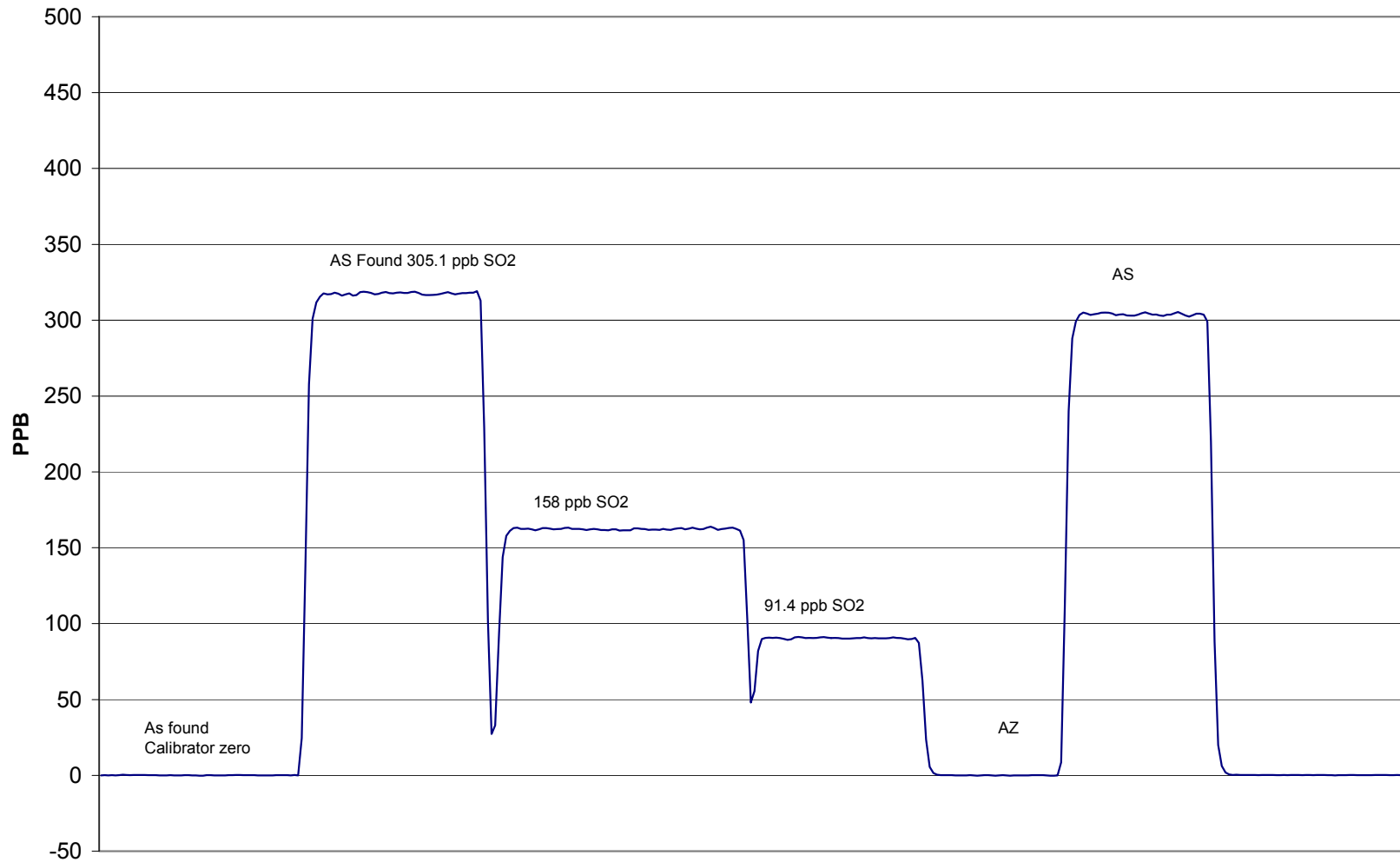
Calibration Date	June 23, 2007	Previous Calibration	May 31, 2007
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	12:10	End Time (MST)	14:42
Analyzer make/model	Teco 43i	Analyzer serial #	70112009

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A		
305.1	317.9	0.9596	Correlation Coefficient	0.999707
158.0	162.7	0.9714		
91.4	90.3	1.0119	Slope	0.955933
			Intercept	2.162745



### SO2 Calibration



June 23, 2007

# Calibration Report

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

## Station Information

Calibration Date	June 23, 2007	Previous Calibration	May 31, 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)	12:10	End Time (MST)	14:42
Barometric Pressure	27.60 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Date	8/6/2006
Correction factor	0.938202	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
Calculated slope	0.957832	Calculated slope	0.879723
Calculated intercept	0.663842	Calculated intercept	-0.625263
Analyzer make	TEI Model 43C	Analyzer serial #	436610004

	before		after	
Concentration range	100	ppb	100	ppb
Background	15.1	ppb	15.1	ppb
coefficient	1.343		1.343	
Lamp Voltage	774	volts	774	volts
Chamber Temp	44.1	Deg C	44.1	Deg C
Perm Gas Temp	45.02	Deg C	45.02	Deg C
Pressure	492.7	mm Hg	492.7	mm Hg
Sample Flow	777	ccm	777	ccm
Lamp Intesity	32,400	mv	32,400	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)
zero	2434.6	0.0	1.4	N/A
2595	2434.6	69.4	80.0	0.8675
5010	4700.4	35.9	41.1	0.8737
8660	8124.8	20.8	23.7	0.8772
zero	2434.6	0.0	1.4	As Found Zero
2595	2434.6	69.4	79.7	As Found Span
Average Correction Factor				0.8728

Calculated value of As Found Response: 75.68 ppm      Percent Change of As Found: -9.0%

	before calibration		after calibration	
Auto zero	1.0	ppm	-0.3	ppm
Auto span	57.1	ppm	49.9	ppm

Notes: No adjustments made.

Calibration Performed By: Dawn Ewan

## Calibration Summary

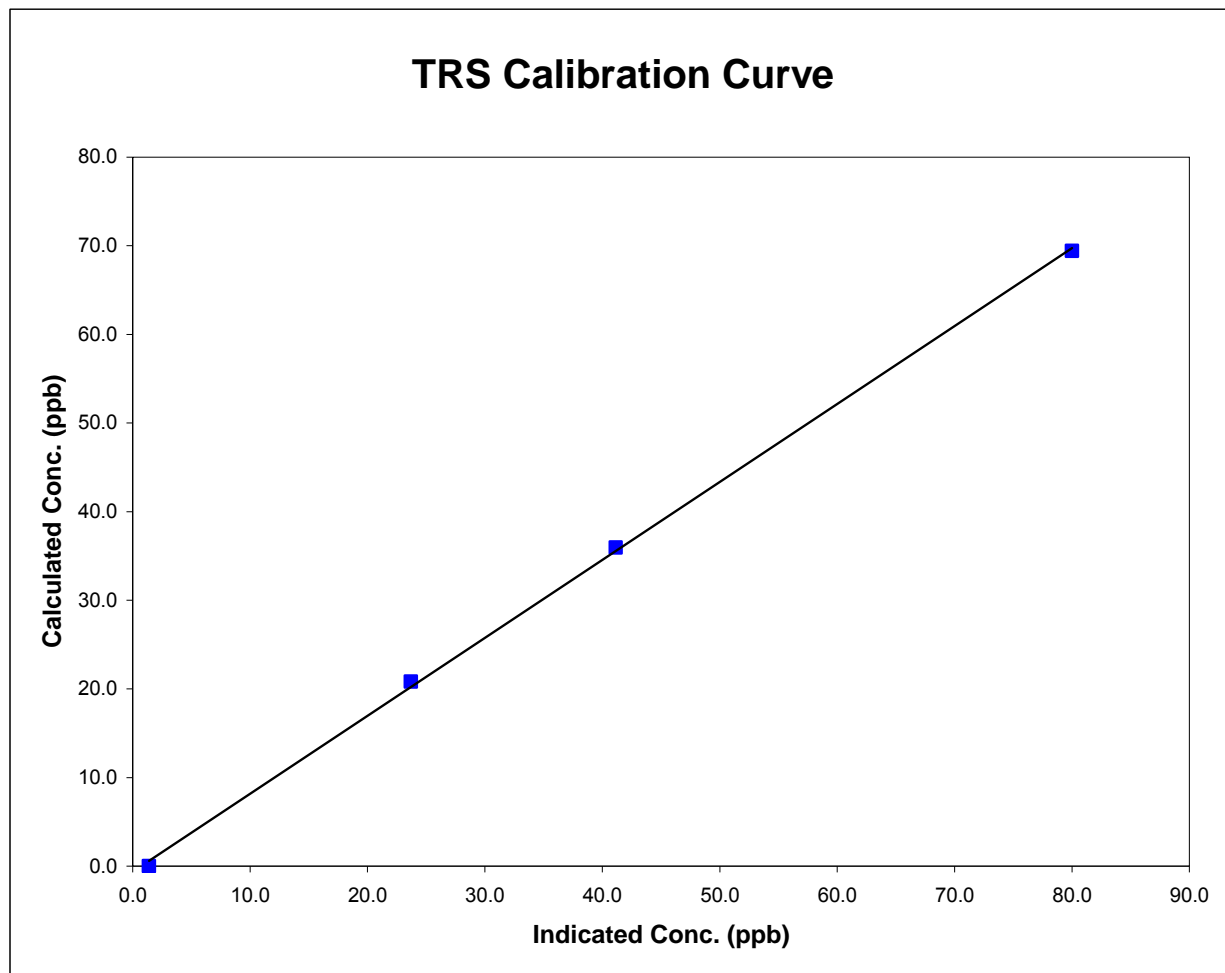
Parameter **TRS**Air Monitoring Network **PASZA**

### Station Information

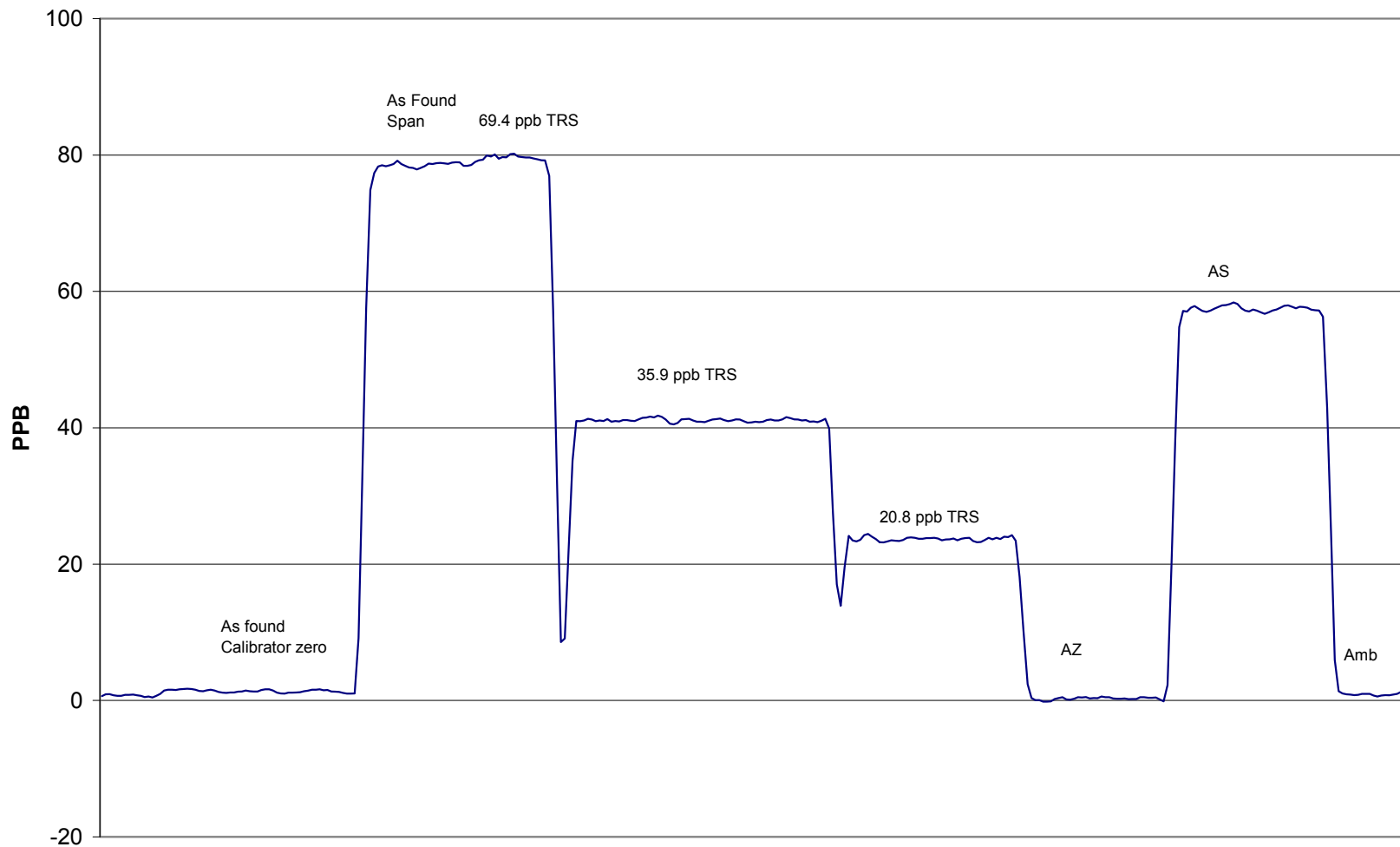
Calibration Date	June 23, 2007	Previous Calibration	May 31, 2007
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	12:10	End Time (MST)	14:42
Analyzer make/model	TEI Model 43C	Analyzer serial #	436610004

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.4	N/A		
69.4	80.0	0.8675	Correlation Coefficient	0.999635
35.9	41.1	0.8737		
20.8	23.7	0.8772	Slope	0.879723
			Intercept	-0.625263



### TRS Calibration



June 23, 2007



# Calibration Report

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

## Station Information

Calibration Date	June 23, 2007	Previous Calibration	April 26, 2007
Station Number	3	Station Location	Smoky Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	13:10	End Time (MST)	14:42
Barometric Pressure	0.919 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15

## Analyzer Information

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

	before		after	
Main Flow Set Point	3.000	SLPM	3.000	SLPM
Aux Flow Set Point	13.67	SLPM	13.67	SLPM
Filter Load	41	%	15	%
Ko Factor	12122		12122	
Temperature	16.1	Deg C	16.1	Deg C
Pressure	0.921	ATM	0.921	ATM
Main Fadj	0.970		1.000	
Aux Fadj	1.000		1.000	

## Calibration Data

Parameter	Set Point	As Found	Tolerance	New Reading
zero flow - main	0.0	0.12		0.12
zero flow - auxiliary	0.0	0.29		0.29
flow recovery - main	45 - 60 Seconds	45	45 - 60 Seconds	45
flow recovery - aux	46 - 60 Seconds	50	46 - 60 Seconds	50
Temperature	measured	16.1	+/- 1.0 Deg C	16.1
Pressure	measured	0.921	+/- 1.5% ΔATM	0.921
Total Flow	16.67 SLPM	15.70		
Main Flow	13.67 SLPM	13.20	+/- 1.0 SLPM	13.65
Auxiliary Flow	3.0 SLPM	2.805	+/- 0.2 SLPM	2.893
Leak Check - main	0.0	0.11	<0.15 SLPM	0.11
Leak Check - aux	0.0	0.28	<0.15 SLPM	0.28
Ko Factor (w/o filter)	measured		filter weight (g)	0.11014
Ko Factor (w/ filter)	measured		% Ko difference	

Notes: Cleaned head.  
New filter installed  
All operational checks ok.  
Note: O-ring on head needs replacement.

Calibration Performed By: Dawn Ewan

# Calibration Report



Parameter

**SO<sub>2</sub>**

Air Monitoring Network

**PASZA**

## Station Information

Calibration Date	June 5, 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)	10:08	End Time (MST)	13:11
Barometric Pressure	0.902 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2844
Cal Gas Make	Scott	Cal Gas Expiry Date	July 2 2007
Cal Gas Conc.	10.07 ppm	Cal Gas Cylinder #	CC-114395
DACS make	Focus AP1000	DACS serial No.	45267
DACS voltage range	0 - 10 volt	DACS channel #	3
	<u>Before</u>		<u>After</u>
Calculated slope	1.005983	Calculated slope	1.000716
Calculated intercept	-0.195603	Calculated intercept	-0.132383

Analyzer make

TEI Model 43CTL

Analyzer serial #

43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.31	ppb	1.97	ppb
Coefficient	0.9		0.756	
Lamp Voltage	899.0	Volts	896.0	Volts
Chamber Temp	44.2	Deg C	44.4	Deg C
Sample Flow	587	ccm	576	ccm

## 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)
4996	0.00	0.00	-0.01	N/A
4996	39.94	79.87	79.87	0.9999
4996	19.97	40.09	40.26	0.9959
4996	9.95	20.02	20.28	0.9868
4996	0.00	0.00	-0.01	As Found Zero
4996	39.94	79.87	95.52	As Found Span
Average Correction Factor				0.9942

Calculated value of As Found Response:

95.902 ppm

Percent Change of As Found:

-20.1%

	before calibration		after calibration	
Auto zero	-0.23	ppm	-0.22	ppm
Auto span	31.35	ppm	27.35	ppm

Notes:

Calibration Performed By:

Dawn Ewan

## Calibration Summary

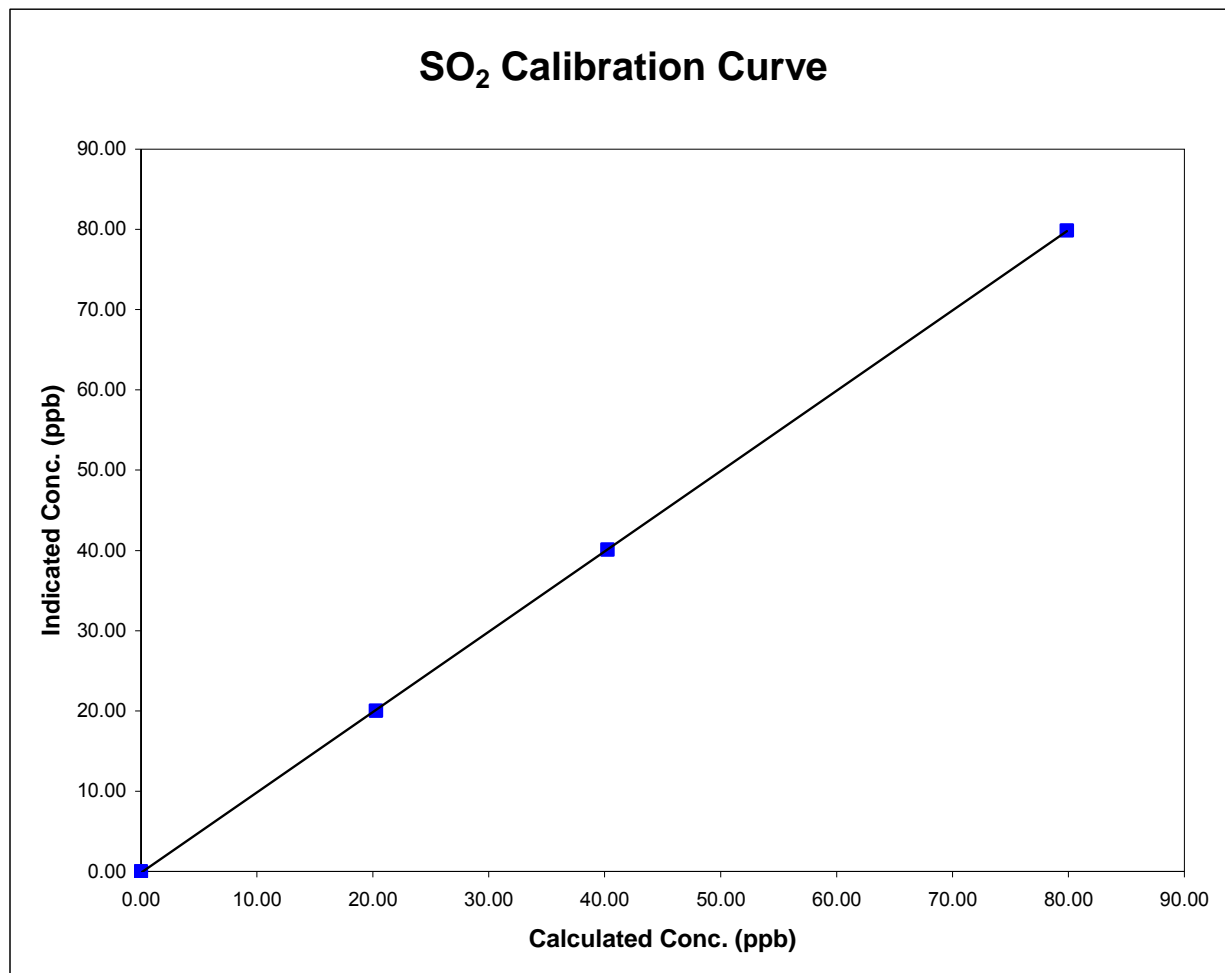
Parameter **SO2**Air Monitoring Network **PASZA**

### Station Information

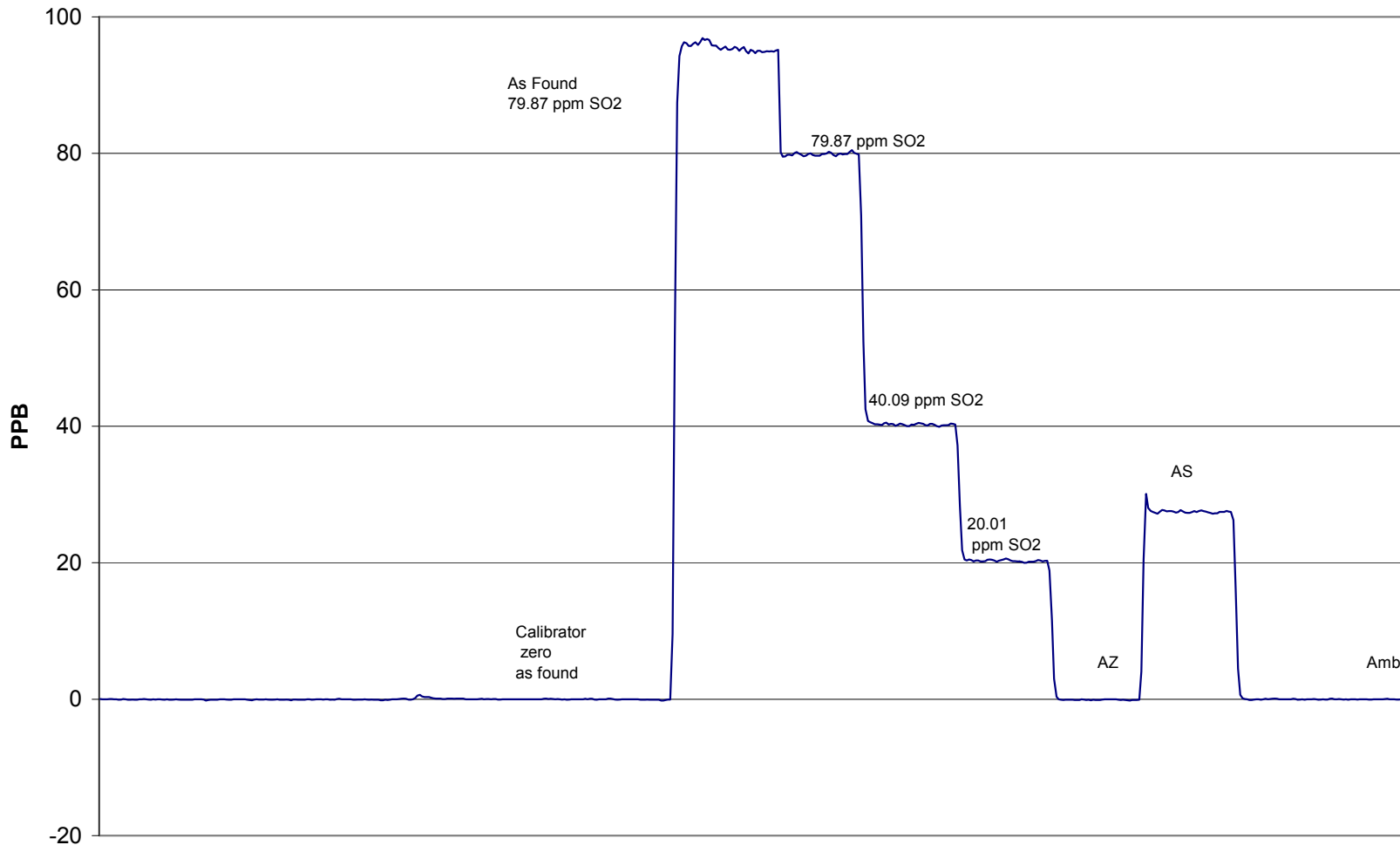
Calibration Date	June 5, 2007	Previous Calibration	May 29, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	10:08	End Time (MST)	13:11
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.010	N/A		
79.865	79.872	0.9999	Correlation Coefficient	0.999985
40.092	40.255	0.9959		
20.015	20.284	0.9868	Slope	1.000716
			Intercept	-0.132383



### SO<sub>2</sub> Calibration



June 5, 2007

# Calibration Report



Parameter

**SO<sub>2</sub>**

Air Monitoring Network

**PASZA**

## Station Information

Calibration Date	June 28, 2007	Previous Calibration	June 5, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
		<input checked="" type="checkbox"/> Other	post audit cal
Start Time (MST)	8:15	End Time (MST)	10:10
Barometric Pressure	0.912 atm	Station Temperature	21.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2844
Cal Gas Make	Scott	Cal Gas Expiry Date	July 2 2007
Cal Gas Conc.	10.06 ppm	Cal Gas Cylinder #	CC-114395
DACS make	Focus AP1000	DACS serial No.	45267
DACS voltage range	0 - 10 volt	DACS channel #	3
	<u>Before</u>		<u>After</u>
Calculated slope	1.000766	Calculated slope	0.997500
Calculated intercept	-0.160088	Calculated intercept	0.089394
Analyzer make	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	1.95	ppb	1.95	ppb
Coefficient	0.756		0.756	
Lamp Voltage	896.0	Volts	896.0	Volts
Chamber Temp	44.7	Deg C	44.7	Deg C
Sample Flow	606	ccm	606	ccm

## 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)
4996	0.00	0.00	-0.09	N/A
4996	39.94	79.79	79.90	0.9986
4996	0.00	0.00	0.38	As Found Zero
4996	39.94	79.79	79.54	As Found Span
Average Correction Factor				0.9986

Calculated value of As Found Response: 79.051 ppm      Percent Change of As Found: 0.9%

	before calibration		after calibration	
Auto zero	-0.24	ppm	NA	ppm
Auto span	27.36	ppm	NA	ppm

Notes: Could not determine issue between AENV audit results and calibration gas response.  
 Flows were verified; calibrator considered accurate. No adjustments made; cal gas will be audited for verification.

Calibration Performed By: Kelly Baragar

## Calibration Summary

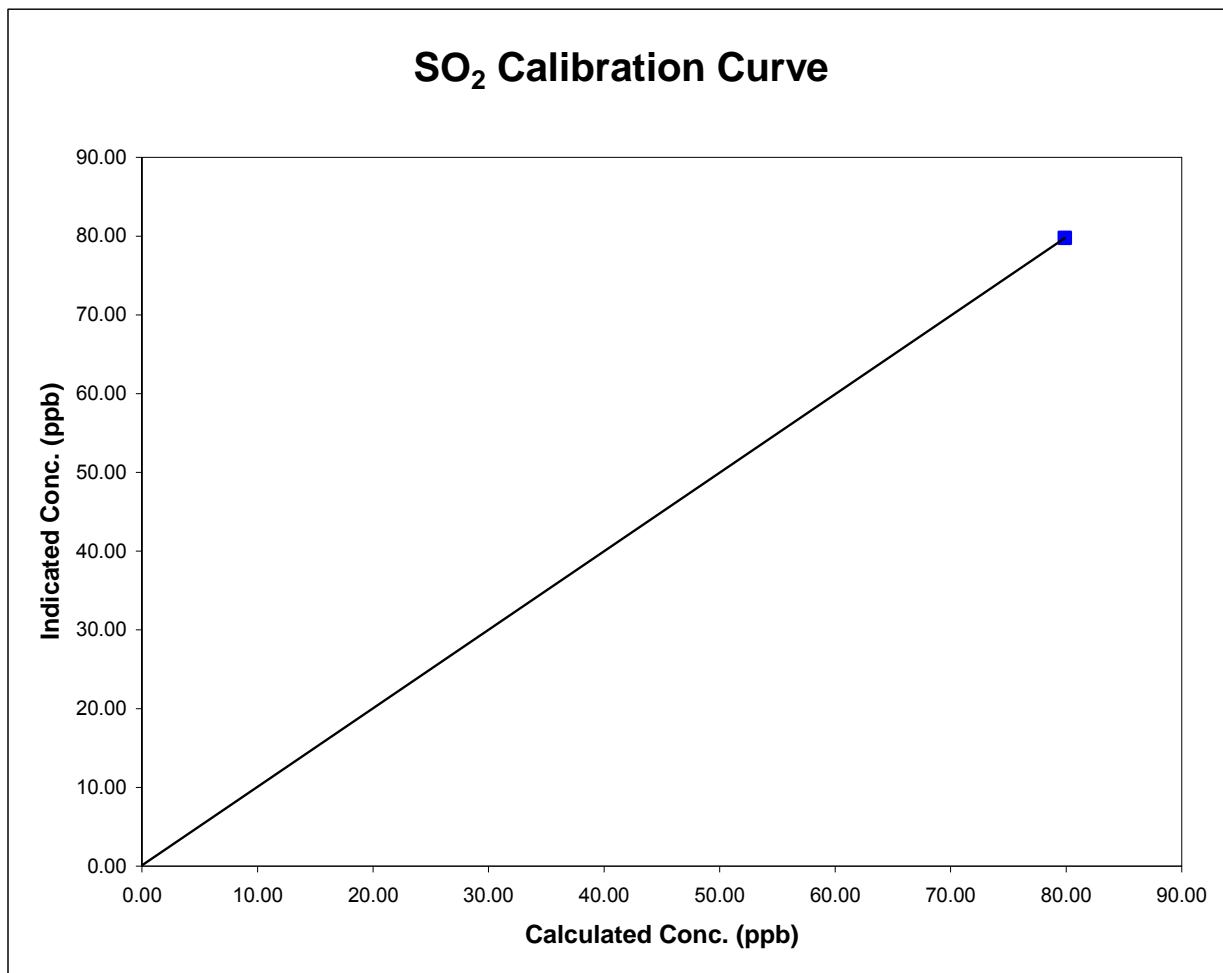
Parameter **SO2**Air Monitoring Network **PASZA**

### Station Information

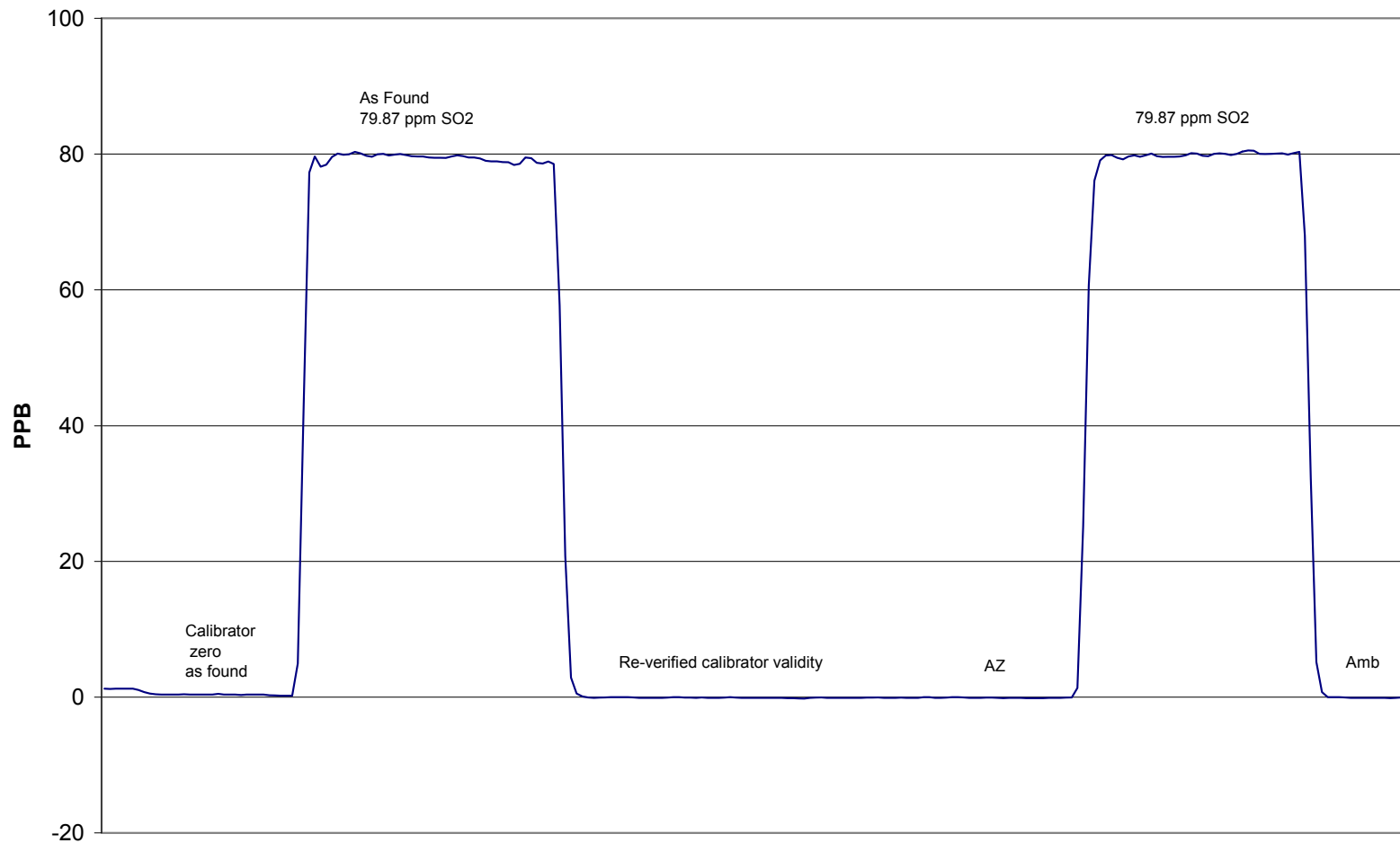
Calibration Date	June 28, 2007	Previous Calibration	June 5, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	8:15	End Time (MST)	10:10
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.090	N/A		
79.786	79.896	0.9986	Correlation Coefficient	1.000000
			Slope	0.997500
			Intercept	0.089394



### SO<sub>2</sub> Calibration



June 28, 2007

# Calibration Report

Parameter

NOx-NO-NO<sub>2</sub>

Air Monitoring Network

PASZA



## Station Information

Calibration Date	June 4, 2007	Previous Calibration	May 4, 2007
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Installation	<input type="checkbox"/> Removal
Other:			
Start Time (MST)	12:00	End Time (MST)	15:38
Barometric Pressure	0.912 Atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6103	Serial Number	2488
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
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Parameter		NO2	NOx	NO
Before	Data Slope	0.987912	0.998066	1.000072
	Data Offset	0.434379	0.359254	0.956150
After	Data Slope	1.001682	1.001337	1.001255
	Data Offset	-0.042277	0.354810	0.931745
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

## Analyzer Information

Analyzer make/model	TEI Model 42	Analyzer serial #	42-28486-231
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Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	1.3	ppb	1.3	mV
NOx background	1.3	ppb	1.4	mV
NO coefficient	1.048		1.102	
NOx coefficient	1.007		0.999	
Box Temp	31.3	ccm	33.5	ccm
Chamber Temp	49.2	Deg C	49.2	Deg C
Cooler Temp	-2.1	Deg C	-2.2	Deg C
Converter Temp	324.0	Deg C	323.0	Deg C
Sample Flow	781.0	LPM	773.0	LPM
Ozonator Flow	0.098	LPM	0.086	LPM
Pressure	165.8	inches HG	166.9	inches Hg

Notes:

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# Calibration Report

Parameter **NO<sub>x</sub>-NO-NO<sub>2</sub>**  
 Air Monitoring Network **PASZA**



## Station Information

Calibration Date: **June 4, 2007** Station Location: **Beaverlodge**

### Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO <sub>x</sub> conc (ppb)	Calculated NO conc (ppb)	Calculated NO <sub>2</sub> conc (ppb)	Indicated NO <sub>x</sub> conc (ppb)	Indicated NO conc (ppb)	Indicated NO <sub>2</sub> conc (ppb)	NO <sub>x</sub> Correction factor	NO Correction factor
zero	4996	0.00	0.0	0.0	0.0	-0.3	-0.3	-0.3	N/A	N/A
1	4996	79.86	780.4	778.8	1.6	778.9	777.1	1.1	1.0018	1.0022
2	4996	39.98	393.8	393.0	0.8	393.0	391.5	1.2	1.0019	1.0036
3	4996	20.00	197.8	197.4	0.4	197.0	195.4	1.1	1.0040	1.0102
AFZ	4996	0.00	0.0	0.0	0.0	-0.3	-0.3	-0.3	0.0000	0.0000
AFS	4996	79.86	780.4	778.8	1.6	748.0	740.1	7.1	1.0432	1.0523
Average Correction Factor									1.0026	1.0053

As Found Concentrations: NO<sub>x</sub>= 748.7 NO= 741.4 As Found Percent Change NO<sub>x</sub>= -4.1% NO= -4.8%

### GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

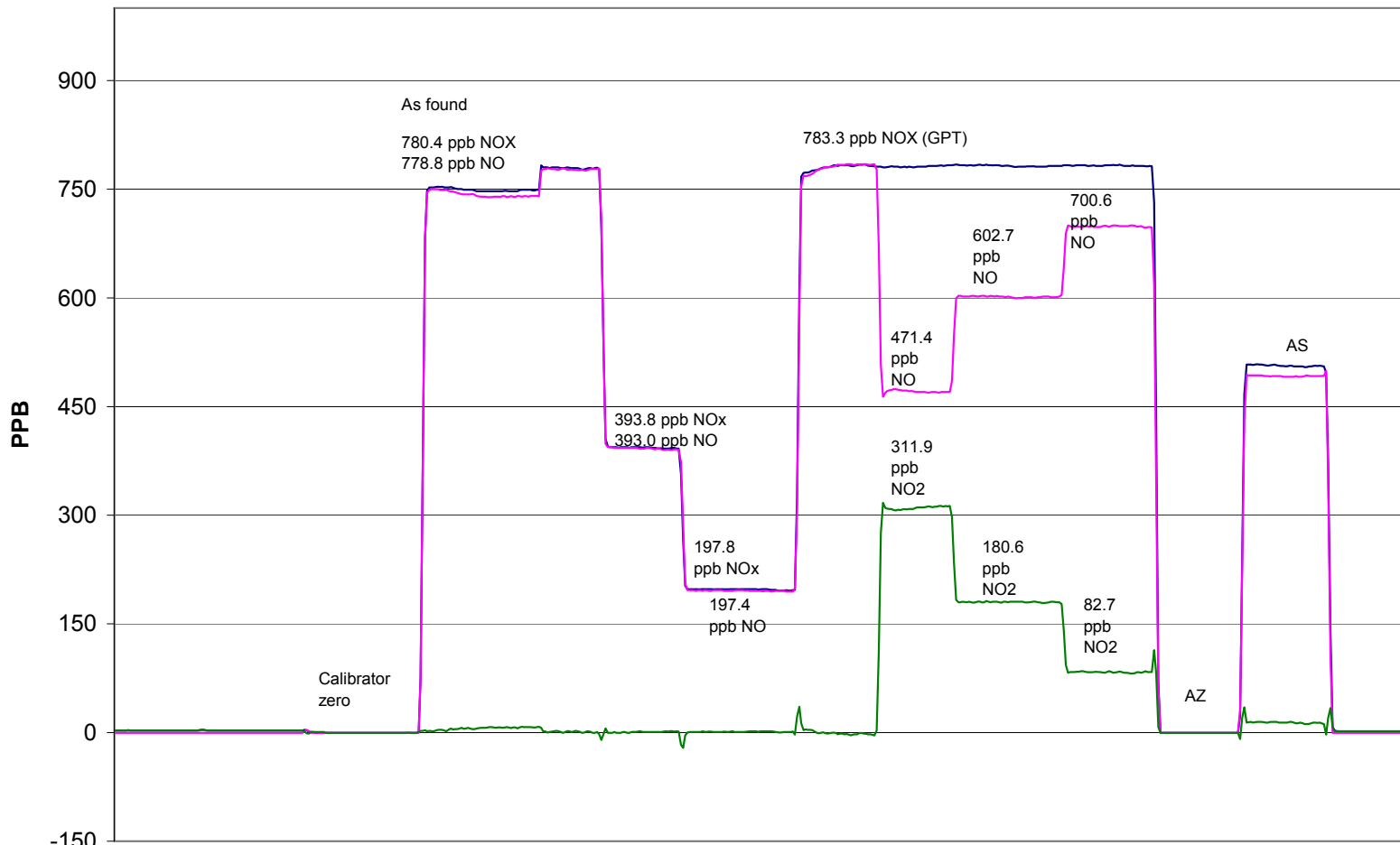
O <sub>3</sub> Setpoint (ppb)	Calculated NO <sub>x</sub> conc (ppb)	Calculated NO conc (ppb)	Calculated NO <sub>2</sub> conc (ppb)	Indicated NO <sub>x</sub> conc (ppb)	Indicated NO conc (ppb)	Indicated NO <sub>2</sub> conc (ppb)	NO <sub>x</sub> Correction factor	NO Correction factor	NO <sub>2</sub> Correction 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	783.3	785.9	-2.6	782.8	783.9	-2.1	1.0006	1.0024	N/A	N/A
350	783.3	471.4	311.9	781.7	469.8	311.4	1.0020	1.0032	1.0016	99.8%
200	783.3	602.7	180.6	781.4	601.0	180.1	1.0024	1.0028	1.0030	99.7%
100	783.3	700.6	82.7	782.5	698.8	83.2	1.0010	1.0026	0.9938	100.6%
Average Correction Factor							1.0018	1.0029	0.9994	100.1%

### AIC Data

Parameter	Previous calibration				Current calibration			
	NO <sub>x</sub>	NO <sub>2</sub>	NO		NO <sub>x</sub>	NO <sub>2</sub>	NO	
Auto zero	0.1	0.2	0.7	ppb	0.1	-0.4	0.6	ppb
Auto span	491.3	16.1	476.3	ppb	506.6	13.1	493.3	ppb

Calibration Performed By: Dawn Ewan

### NOx Calibration



June 4, 2007

## Calibration Summary

Parameter **NO<sub>2</sub>**  
 Air Monitoring Network **PASZA**

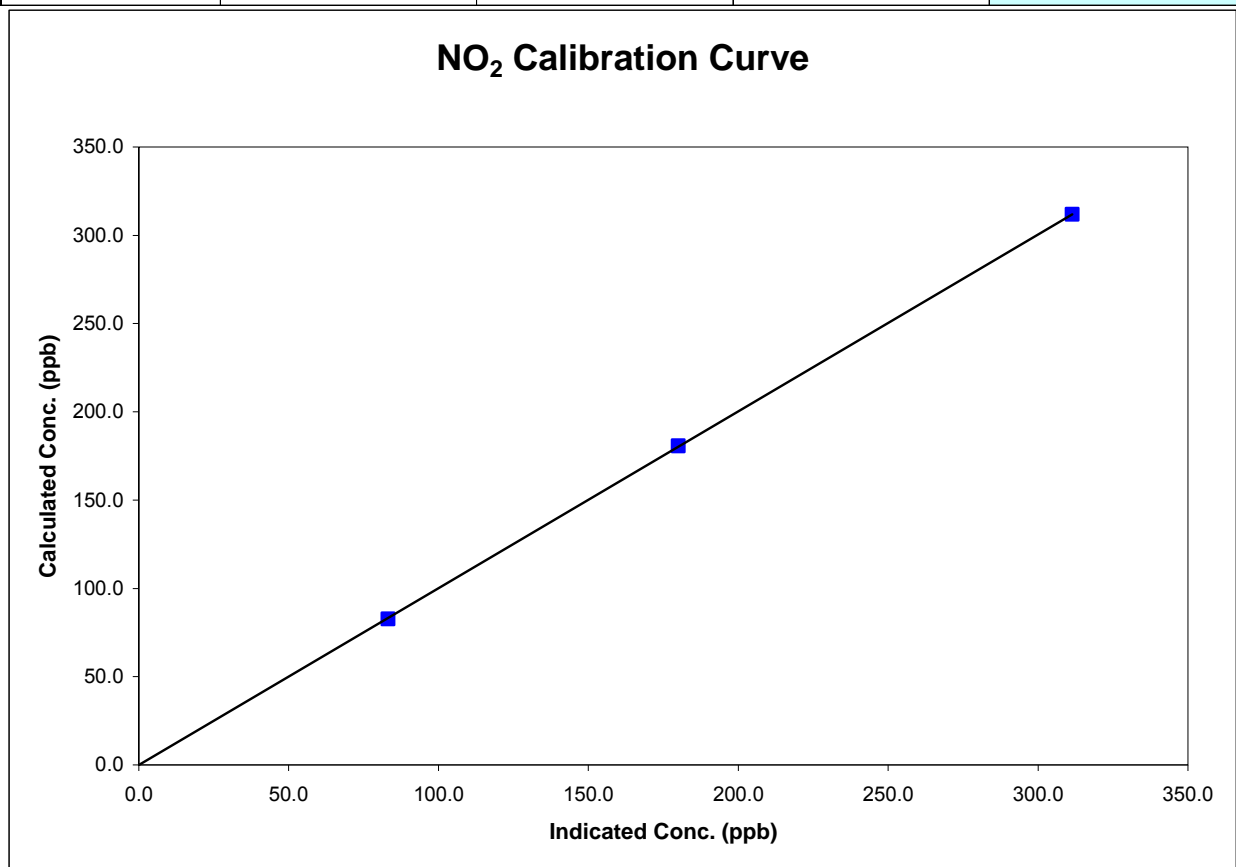


### Station Information

Calibration Date	June 4, 2007	Previous Calibration	May 4, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	12:00	End Time (MST)	15:38
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	0.999989
311.9	311.4	1.0016		
180.6	180.1	1.0030	Slope	1.001682
82.7	83.2	0.9938		
			Intercept	-0.042277



## Calibration Summary

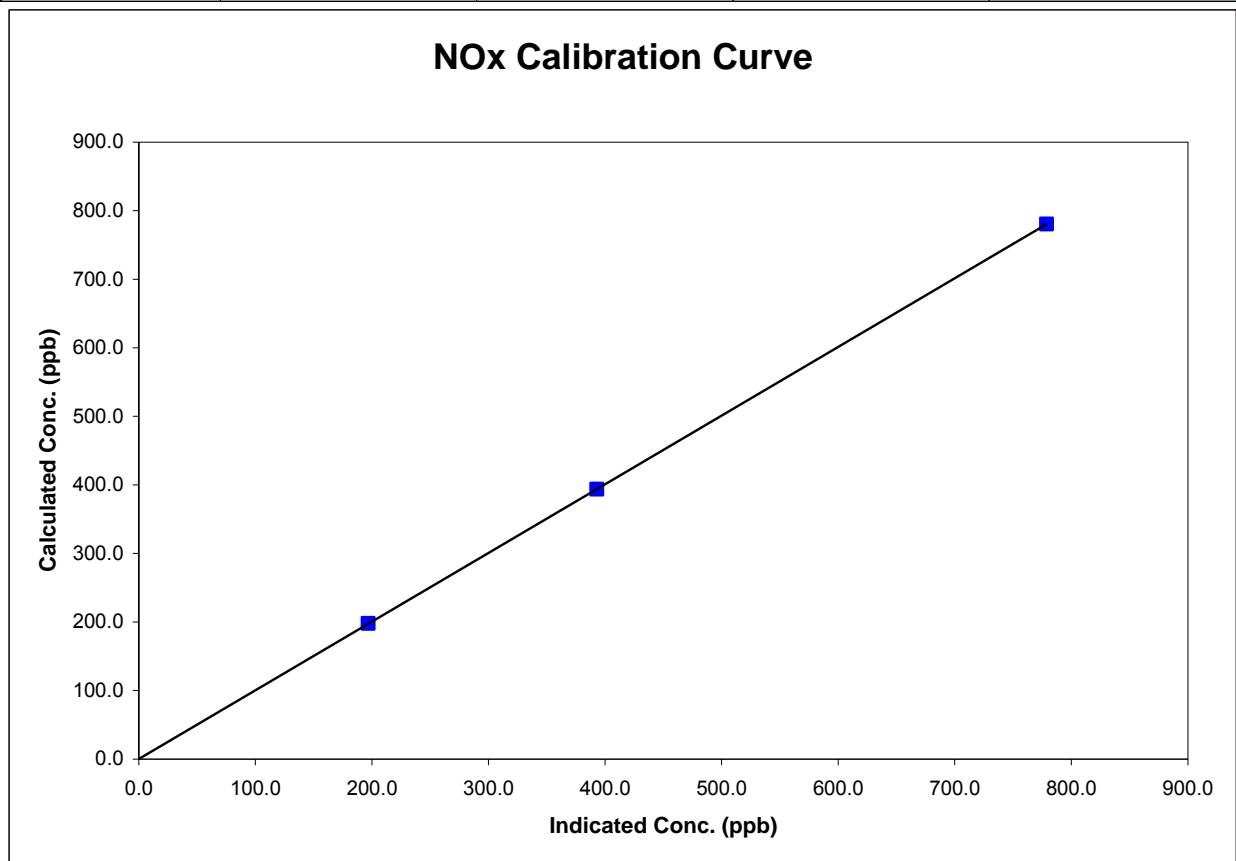
Parameter **NO<sub>x</sub>**Air Monitoring Network **PASZA**

### Station Information

Calibration Date	June 4, 2007	Previous Calibration	May 4, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	12:00	End Time (MST)	15:38
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	1.000000
780.4	778.9	1.0018		
393.8	393.0	1.0019	Slope	1.001337
197.8	197.0	1.0040		
			Intercept	0.354810



## Calibration Summary

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

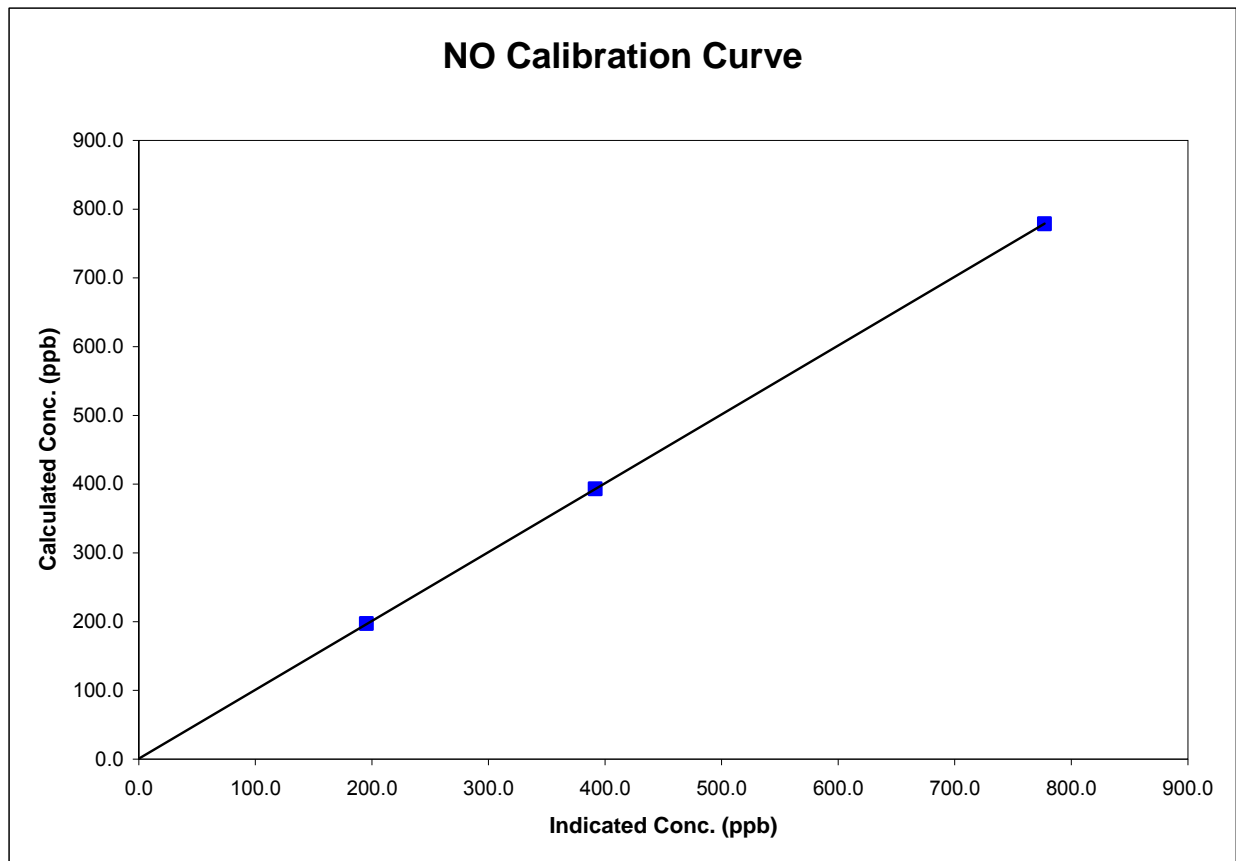


### Station Information

Calibration Date	June 4, 2007	Previous Calibration	May 4, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	12:00	End Time (MST)	15:38
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		
778.8	777.1	1.0022	Correlation Coefficient	0.999997
393.0	391.5	1.0036		
197.4	195.4	1.0102	Slope	1.001255
			Intercept	0.931745



# Calibration Report

Parameter 03Air Monitoring Network PASZA

## Station Information

Calibration Date	June 5, 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)	12:26	End Time (MST)	16:13
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	0.990475	Calculated slope	0.996422
Calculated intercept	14.632450	Calculated intercept	1.040351
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	1.043		0.995	
Lamp temp	71	mV	71	mV
Lamp Intensity A/B	83000/81000	mV	84200/82100	mV
Pressure	692	inches Hg	581.4	inches Hg
Flow A	756	ccm	750	ccm
Flow B	712	Deg C	705	Deg C

## Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.0	-0.3	N/A
4992	0.00	311.9	313.4	0.9954
4992	0.00	180.6	177.5	1.0175
4992	0.00	82.7	82.5	1.0019
4992	0.00	0.0	-0.3	As found zero
4992	0.00	311.9	325.0	As found span
Average Correction Factor				1.0049

Calculated value of As Found Response: 336.9 ppm      Percent Change of As Found: 8.0%

	before calibration		after calibration	
Auto zero	14.6	ppb	1.1	ppb
Auto span	126.8	ppb	110.0	ppb

Notes: \_\_\_\_\_

Calibration Performed By: Dawn Ewan

# Calibration Summary



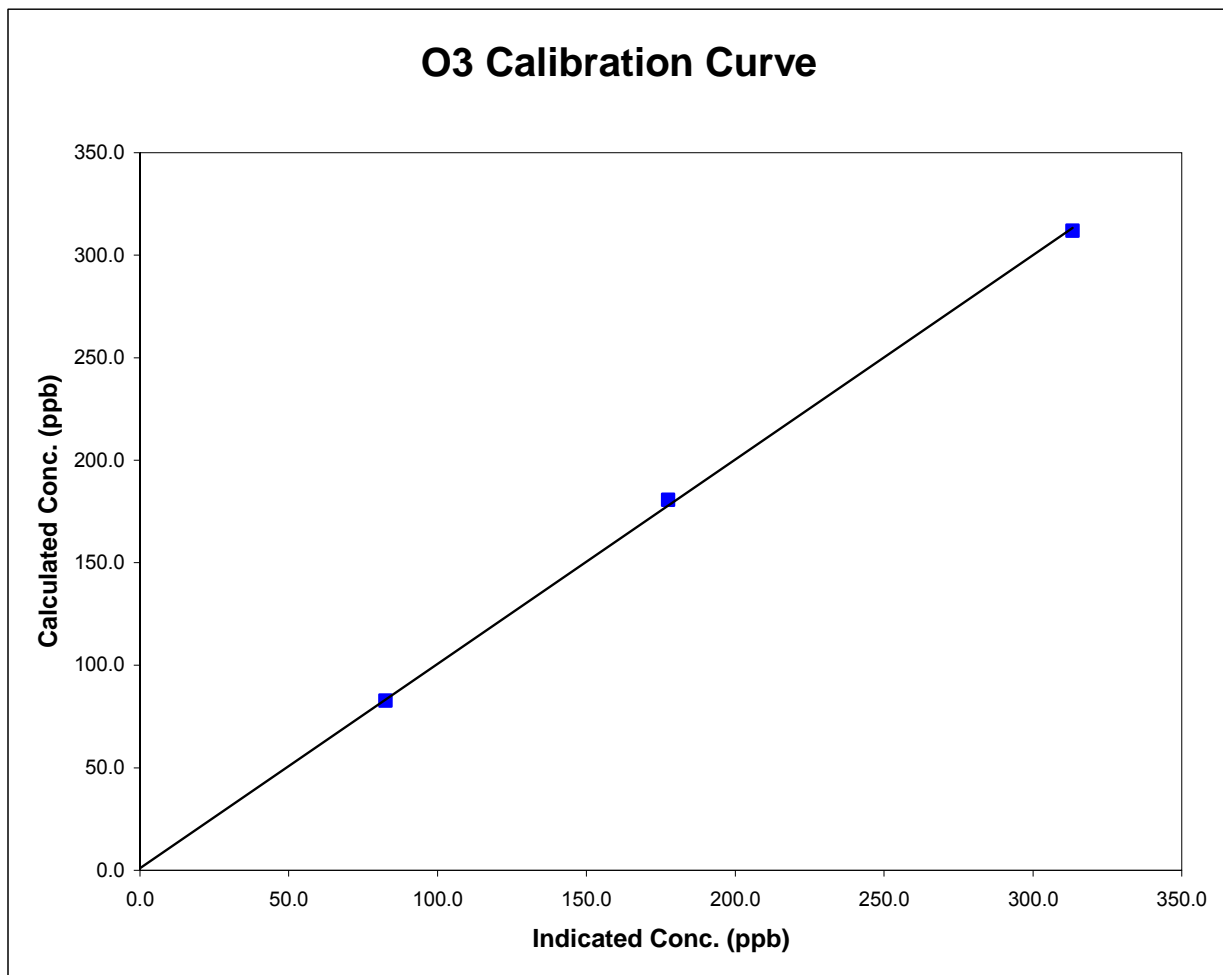
Parameter **O3**  
 Air Monitoring Network **PASZA**

### Station Information

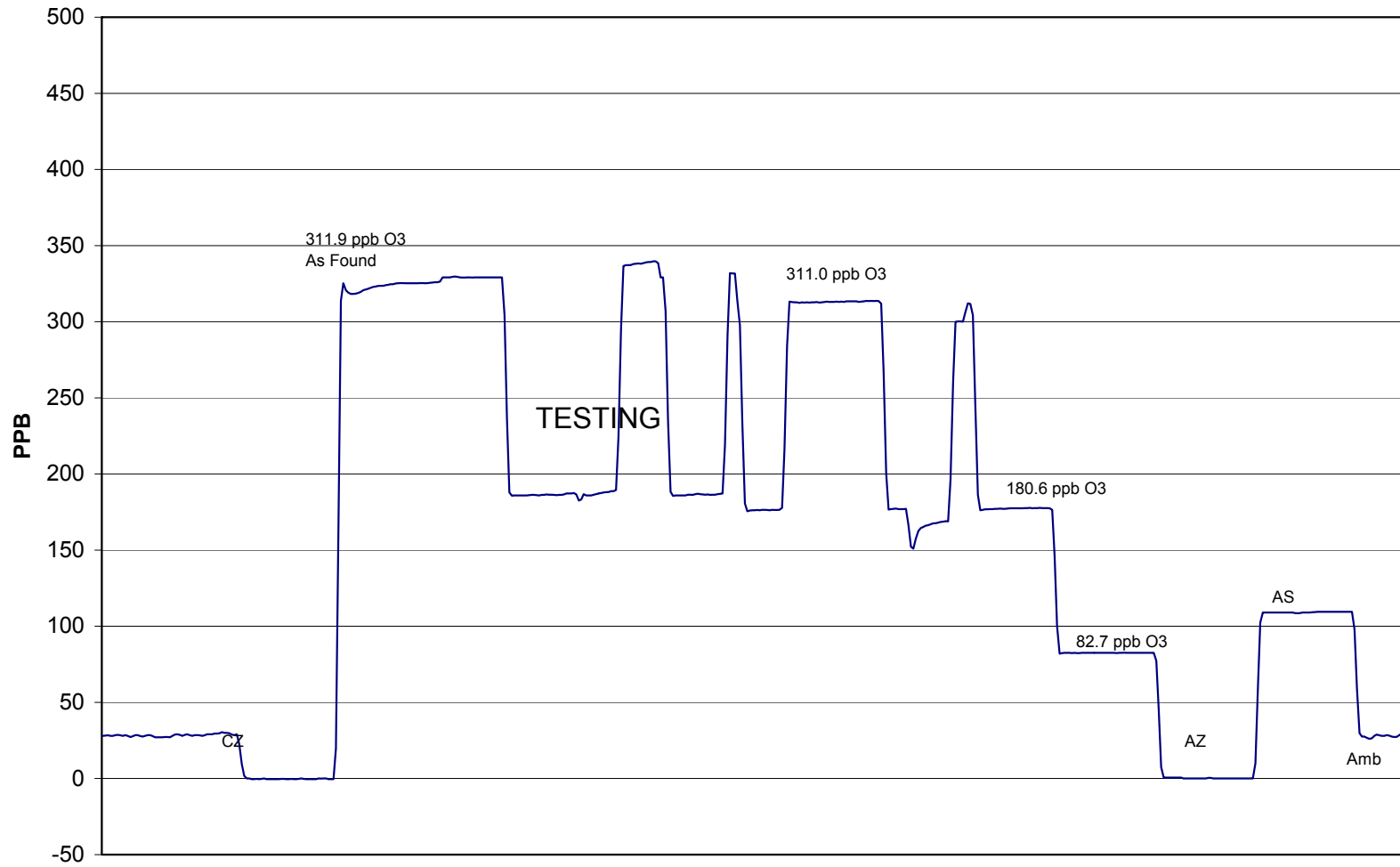
Calibration Date	June 5, 2007	Previous Calibration	May 29, 2007
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	12:26	End Time (MST)	16:13
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	NA		
311.9	313.4	0.9954	Correlation Coefficient	0.999814
180.6	177.5	1.0175		
82.7	82.5	1.0019	Slope	0.996422
			Intercept	1.040351



### O3 Calibration



June 5, 2007



**Calibration Report**

Parameter

**SO<sub>2</sub>**

Air Monitoring Network

**PASZA****Station Information**

Calibration Date	June 18, 2007	Previous Calibration	May 23, 2007
Station Number	1	Station Location	Falher
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	15:40	End Time (MST)	19:26
Barometric Pressure	27.5 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.934802	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	1.000484	Calculated slope	0.981359
Calculated intercept	33.864094	Calculated intercept	8.147592
Analyzer make	TEI Model 43C APS1AB	Analyzer serial #	609716238

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	8.2		8	
Coefficient	1.161		1.137	
UV Lamp voltage	748	V	742	V
Chamber Temperature	44.6	C	44.3	C
Perm gas Temp	45	C	45	C
Pressure	677.5	"Hg	695.2	"Hg
Sample Flow	488	LPM	498	LPM
Lamp Intensity	34000	Hz	34500	Hz

**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	2430.5	0.0	0.0	N/A
2600	2430.5	305.6	307.1	0.9953
5190	4851.6	153.1	142.8	1.0722
9500	8880.6	83.6	69.6	1.2018
zero	2430.5	0.0	0.0	As Found Zero
2600	2430.5	305.6	303.5	As Found Span
Average Correction Factor				1.0898

Calculated value of As Found Response: 337.464 ppm      Percent Change of As Found: -10.4%

	before calibration		after calibration	
Auto zero	33.9	ppm	7.9	ppm
Auto span	326.4	ppm	296.8	ppm

Notes:

Calibration Performed By:

Dawn Ewan

## Calibration Summary

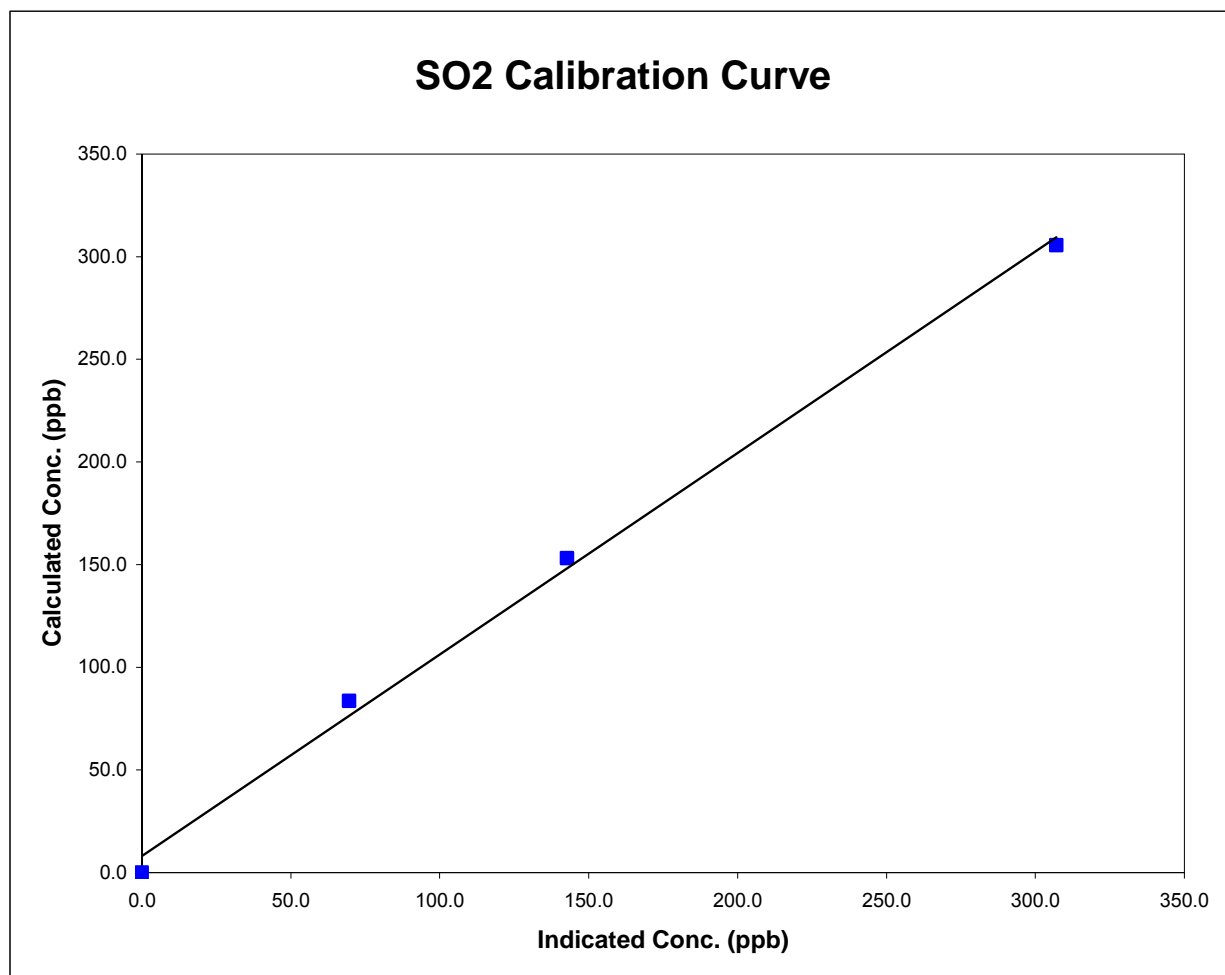
Parameter **SO2**Air Monitoring Network **PASZA**

### Station Information

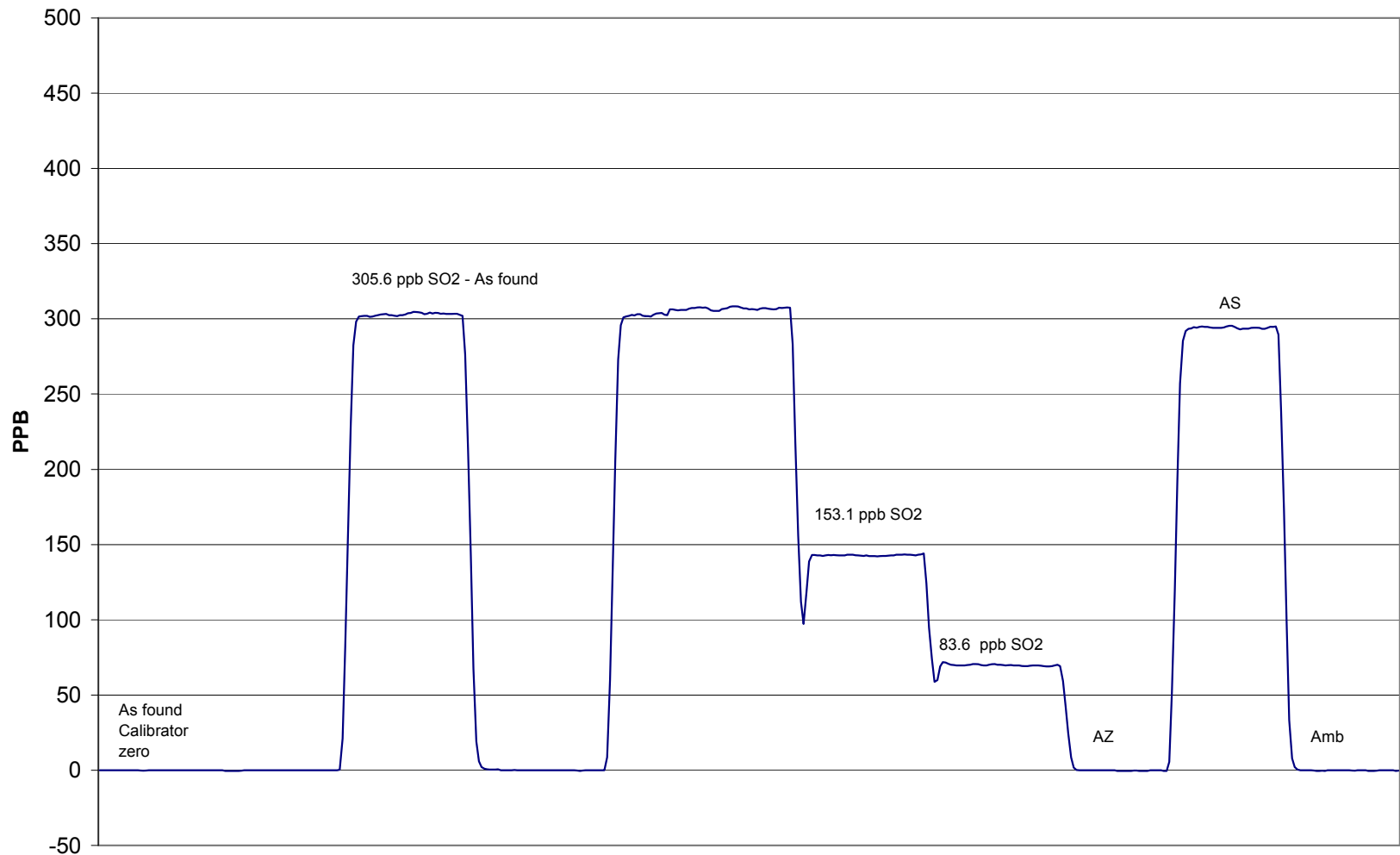
Calibration Date	June 18, 2007	Previous Calibration	May 23, 2007
Station Number	1	Station Location	Falher
Start Time (MST)	15:40	End Time (MST)	19:26
Analyzer make/model	TEI Model 43C APS1AB	Analyzer serial #	609716238

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
305.6	307.1	0.9953	Correlation Coefficient	0.996889
153.1	142.8	1.0722		
83.6	69.6	1.2018	Slope	0.981359
			Intercept	8.147592



### SO2 Calibration



June 18, 2007

# Calibration Report

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

## Station Information

Calibration Date	June 18, 2007	Previous Calibration	May 24, 2007
Station Number	5	Station Location	Falher
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	15:40	End Time (MST)	19:26
Barometric Pressure	27.5 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.934802	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 1 volt	DACS channel #	6
	Before		After
Calculated slope	0.984786	Calculated slope	0.994414
Calculated intercept	1.515423	Calculated intercept	2.344321

Analyzer make **TEI Model 43C APS1AB** Analyzer serial # **609716238**

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background coefficient	11	ppb	10.3	ppb
Lamp Voltage	1.798		1.799	
Chamber Temp	808	volts	802	volts
Perm Gas Temp	43.8	Deg C	43.8	Deg C
Pressure	45	Deg C	45	Deg C
Sample Flow	671.2	mm Hg	679.1	mm Hg
Lamp Intensity	440	ccm	444	ccm
	39,100	mv	39,400	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)
zero	2430.5	0.0	-0.4	N/A
2600	2430.5	69.5	68.5	1.0147
5190	4851.6	34.8	31.4	1.1084
9500	8880.6	19.0	15.1	1.2631
zero	2430.5	0.0	-1.1	As Found Zero
2600	2430.5	69.5	66.9	As Found Span
Average Correction Factor				1.1287

Calculated value of As Found Response: **68.49 ppm** Percent Change of As Found: **1.5%**

	before calibration		after calibration	
Auto zero	0.5	ppm	1.9	ppm
Auto span	88.6	ppm	92.0	ppm

Notes: \_\_\_\_\_

Calibration Performed By: Dawn Ewan

# Calibration Summary



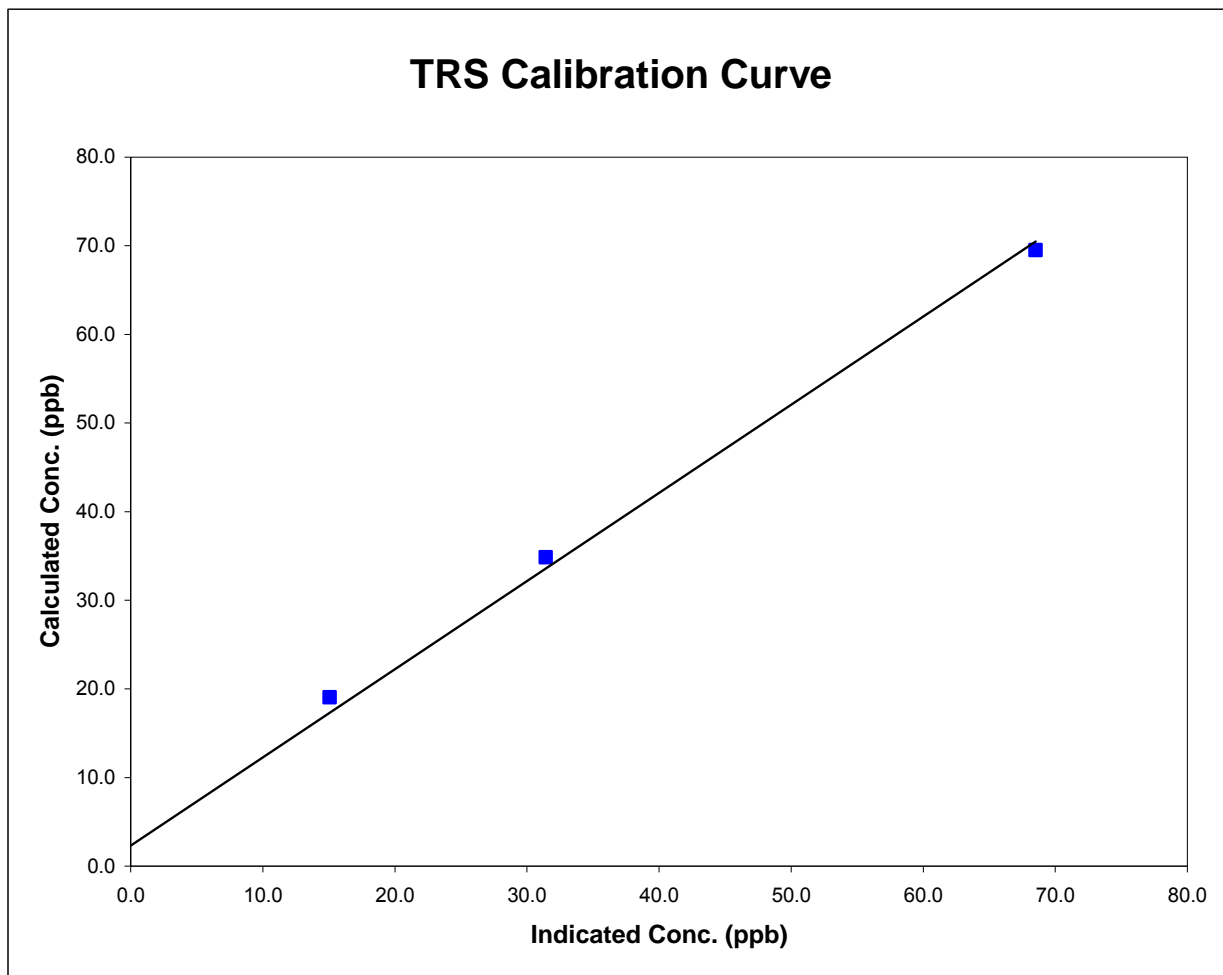
Parameter **TRS**  
 Air Monitoring Network **PASZA**

### Station Information

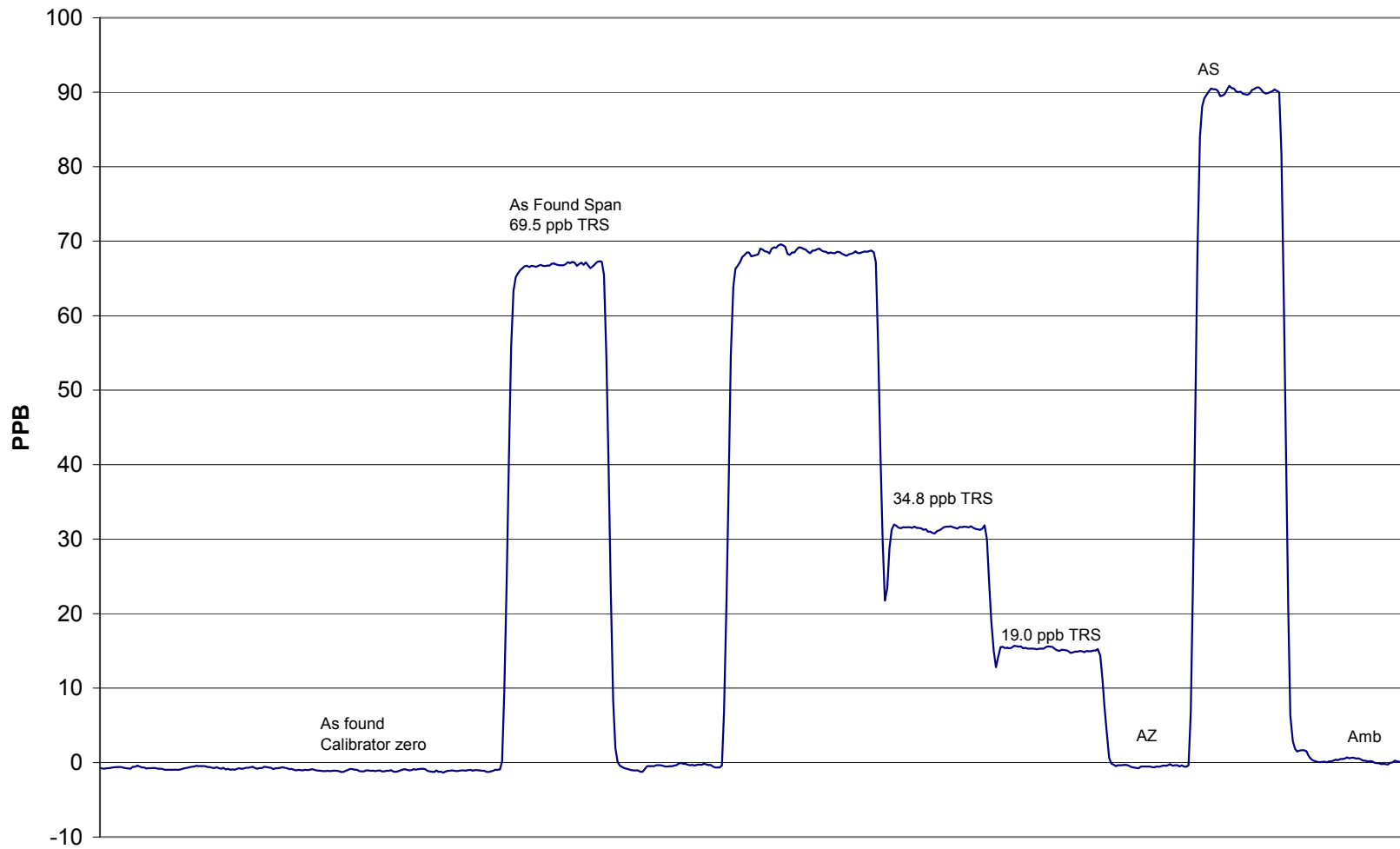
Calibration Date	June 18, 2007	Previous Calibration	May 24, 2007
Station Number	5	Station Location	Falher
Start Time (MST)	15:40	End Time (MST)	19:26
Analyzer make/model	TEI Model 43C APS1AB	Analyzer serial #	609716238

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	N/A		
69.5	68.5	1.0147	Correlation Coefficient	0.996434
34.8	31.4	1.1084		
19.0	15.1	1.2631	Slope	0.994414
			Intercept	2.344321



### TRS Calibration



June 18, 2007

**Calibration Report**Parameter 03Air Monitoring Network PASZA**Station Information**

Calibration Date	<u>June 18, 2007</u>	Previous Calibration	<u>May 24, 2007</u>
Station Number	<u>6</u>	Station Location	<u>Falher</u>
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	<u>17:00</u>	End Time (MST)	<u>19:25</u>
Barometric Pressure	<u>0.920</u> atm	Station Temperature	<u>20.0</u> Deg C
Calibrator	<u>Enviroics 6103</u>	Serial Number	<u>2488</u>
Cal Gas Concentration	<u>NA</u>	Cal Gas Expiry Date	<u>NA</u>
DACS make	<u>Focus AP1000</u>	DACS serial No.	<u>52662</u>
DACS voltage range	<u>0 - 1 volt</u>	DACS channel #	<u>7</u>
	<u>Before</u>		<u>After</u>
Calculated slope	<u>0.990756</u>	Calculated slope	<u>0.991835</u>
Calculated intercept	<u>2.450834</u>	Calculated intercept	<u>6.255458</u>
Analyzer make	<u>TEI 49C a3C1AB</u>	Analyzer serial #	<u>609716240</u>

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	0.2		0.2	
slope	0.994		1.022	
Cell A	79750	mV	81360	mV
Cell B	79350	mV	80638	mV
Pressure	704	inches Hg	687.7	inches Hg
Cell A Flow	677	mL/min	667	mL/min
Cell B Flow	678	mL/min	669	mL/min

**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)
4996	0.00	0.0	-0.3	N/A
4996	0.00	322.1	322.9	0.9976
4996	0.00	193.2	182.9	1.0559
4996	0.00	95.2	84.7	1.1239
4996	0.00	0.0	-0.3	As found zero
4996	0.00	322.1	312.6	As found span
Average Correction Factor				1.0591

Calculated value of As Found Response: 312.5 ppm Percent Change of As Found: -3.0%

	before calibration		after calibration	
Auto zero	1.9	ppb	4.2	ppb
Auto span	315.0	ppb	320.1	ppb

Notes: \_\_\_\_\_

Calibration Performed By: Dawn Ewan

## Calibration Summary

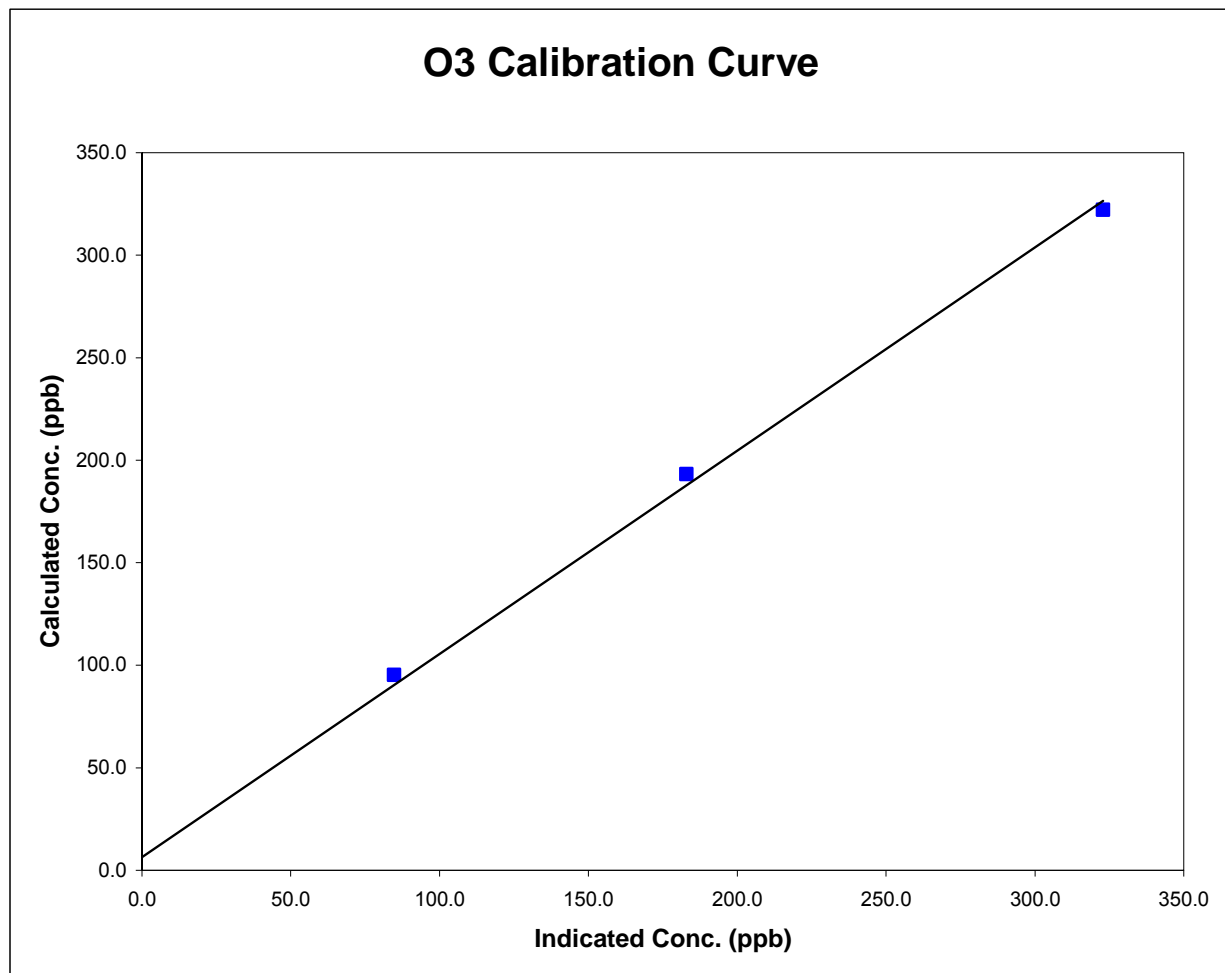
Parameter **O3**Air Monitoring Network **PASZA**

### Station Information

Calibration Date	June 18, 2007	Previous Calibration	May 24, 2007
Station Number	6	Station Location	Falher
Start Time (MST)	17:00	End Time (MST)	19:25
Analyzer make/model	TEI 49C a3C1AB	Analyzer serial #	609716240

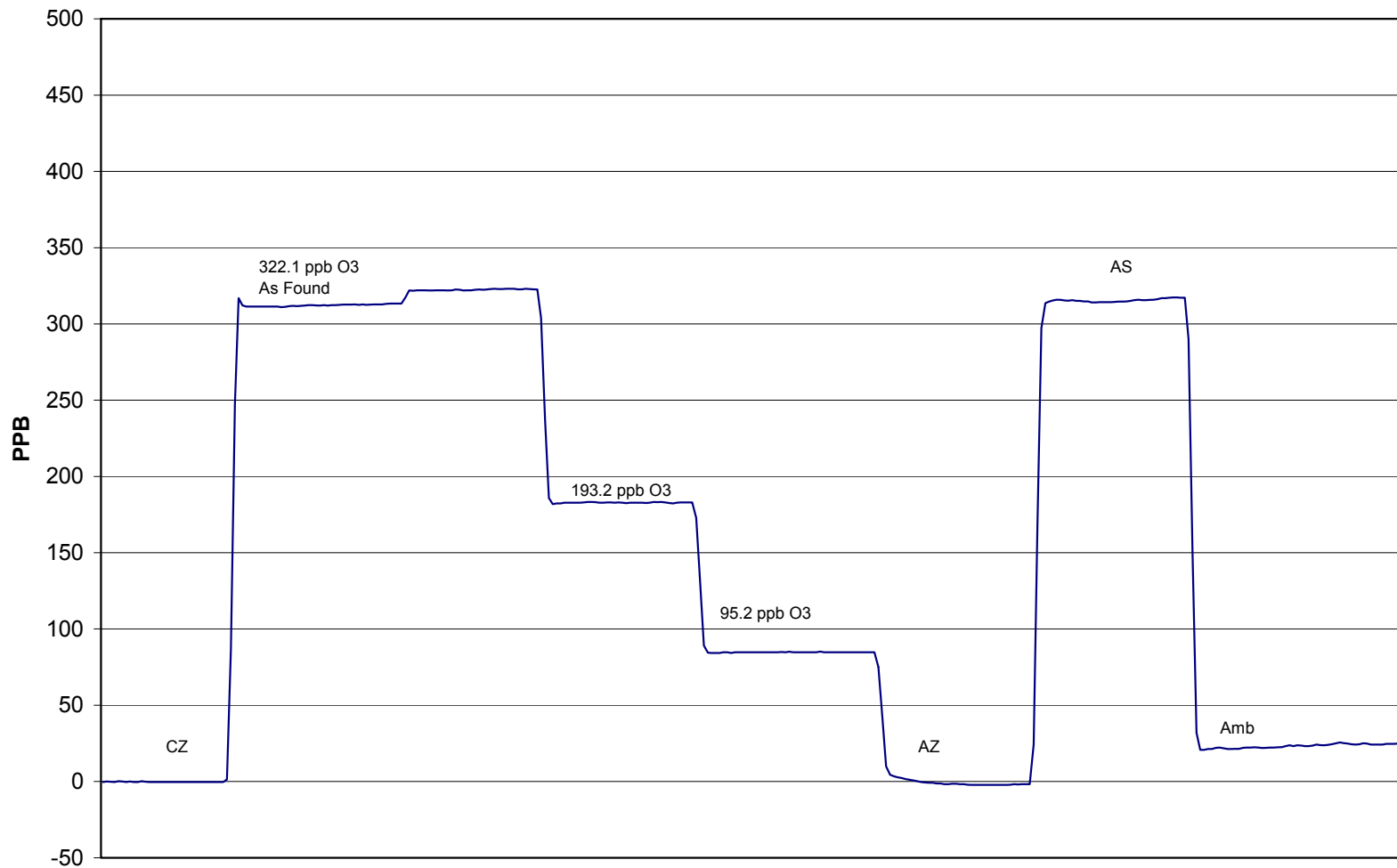
### Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.3	NA		
322.1	322.9	0.9976	Correlation Coefficient	0.998081
193.2	182.9	1.0559		
95.2	84.7	1.1239	Slope	0.991835
			Intercept	6.255458





O3 Calibration



June 18, 2007

**Calibration Report**

Parameter

NOx-NO-NO<sub>2</sub>

Air Monitoring Network

PASZA

**Station Information**Calibration Date June 18, 2007Previous Calibration May 23, 2007Station Number 6Station Location Falher

Reason:

 Routine Installation Removal

Other: \_\_\_\_\_

Start Time (MST) 11:17End Time (MST) 15:20Barometric Pressure 0.930 AtmStation Temperature 20.0 Deg CCalibrator EnviroNics 6103Serial Number 2844NO Cal Gas Conc 49.5 ppmCal Gas Expiry Date 2-Jan-09NOx Cal Gas Conc 49.6 ppmCal Gas Serial # FF-5013**DACS Information**

DACs make

FOCUS AP1000

DACs serial No.

45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.001368	1.000833	1.000394
	Data Offset	-0.919945	-3.559717	-4.072696
After	Data Slope	0.996721	1.000107	1.000921
	Data Offset	-1.394613	-3.692769	-3.317014
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

**Analyzer Information**

Analyzer make/model

Teco 42i

Analyzer serial #

701120011

Test Point	before		after	
Concentration range	0-1000	ppb	0-1000	ppb
NO background	6.3	ppb	4.6	mV
NOx background	6.7	ppb	4.8	mV
NO coefficient	1.232		0.643	
NOx coefficient	1.001		0.996	
Chamber Temp	50.0	Deg C	50.0	Deg C
Cooler Temp	-2.7	Deg C	-3.1	Deg C
Converter Temp	326.0	Deg C	325.0	Deg C
Flow	467.0	mm Hg	702.0	cc/min

Notes: \_\_\_\_\_

# Calibration Report



Parameter **NOx-NO-NO<sub>2</sub>**  
 Air Monitoring Network **PASZA**

## Station Information

Calibration Date: **June 18, 2007** Station Location: **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	1.1	0.8	0.5	N/A	N/A
1	4992	80.00	782.3	780.8	1.6	784.3	781.8	4.1	0.9974	0.9987
2	4992	39.93	393.6	392.8	0.8	399.3	397.8	3.2	0.9857	0.9874
3	4992	19.91	197.0	196.6	0.4	202.9	201.8	2.6	0.9711	0.9744
AFZ	4992	0.00	0.0	0.0	0.0	0.3	0.1	0.5	0.0000	0.0000
AFS	4992	80.00	782.3	780.8	1.6	771.5	769.9	3.3	1.0140	1.0141
Average Correction Factor									0.9848	0.9868

As Found Concentrations: NO<sub>x</sub>= 767.7 NO= 765.7 As Found Percent Change NO<sub>x</sub>= -1.9% NO= -1.9%

### GPT Calibration Data

Dilution Flow 4993 ccm Source Gas Flow 39.97 ccm

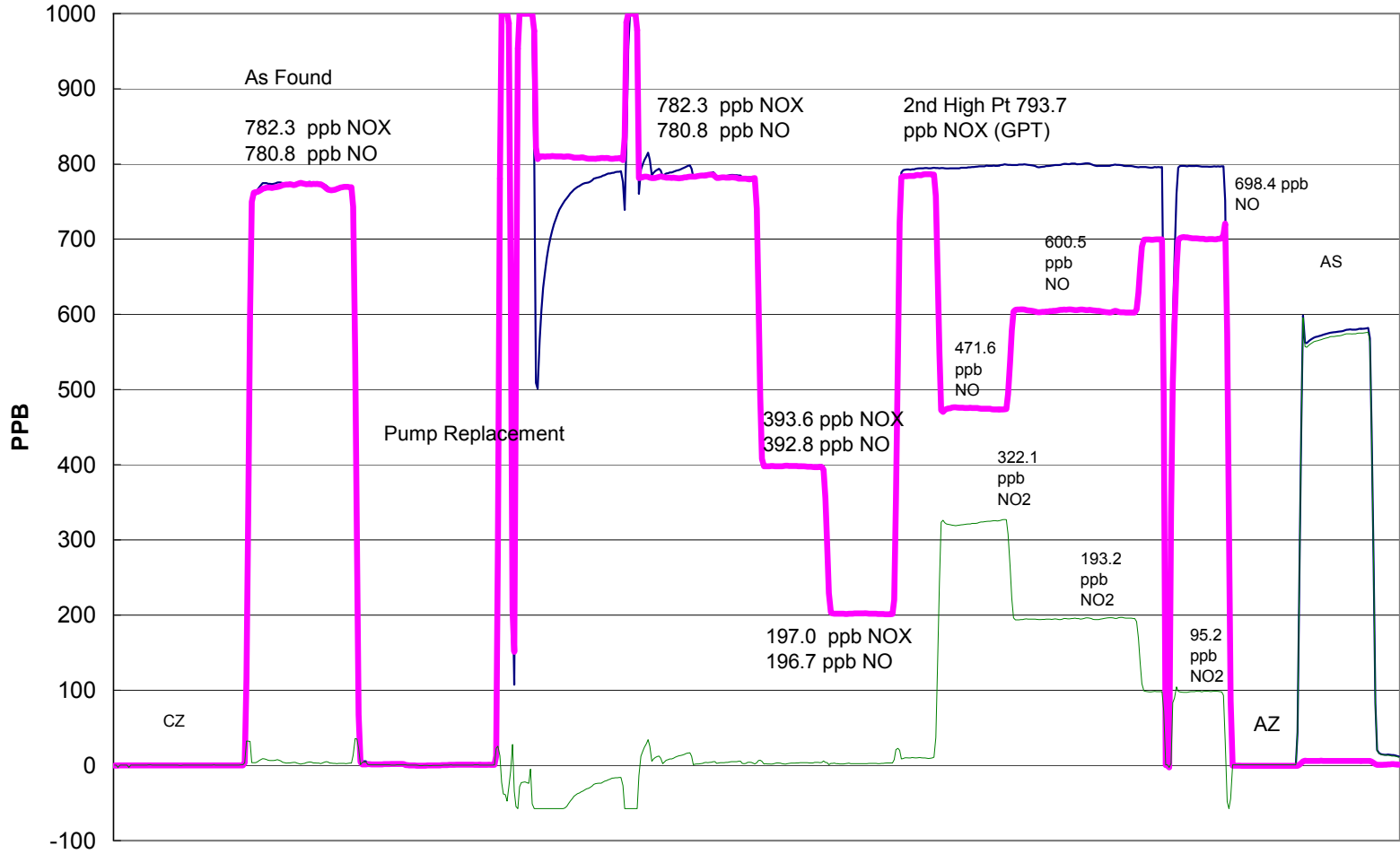
O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A
NO point	793.7	782.3	11.3	793.3	784.9	9.9	1.0005	0.9967	N/A	N/A
350	793.7	471.6	322.1	797.2	474.4	324.0	0.9956	0.9939	0.9942	100.6%
200	793.7	600.5	193.2	797.7	603.3	195.6	0.9949	0.9954	0.9873	101.3%
100	793.7	698.4	95.2	796.9	701.1	98.0	0.9959	0.9962	0.9719	102.9%
Average Correction Factor							0.9955	0.9952	0.9845	101.6%

### AIC Data

Parameter	Previous calibration				Current calibration			
	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	1.3	0.6	1.1	ppb	1.1	0.3	3.1	ppb
Auto span	576.2	572.6	2.8	ppb	575.3	570.2	2.6	ppb

Calibration Performed By: Dawn Ewan

### NOx Calibration



## Calibration Summary

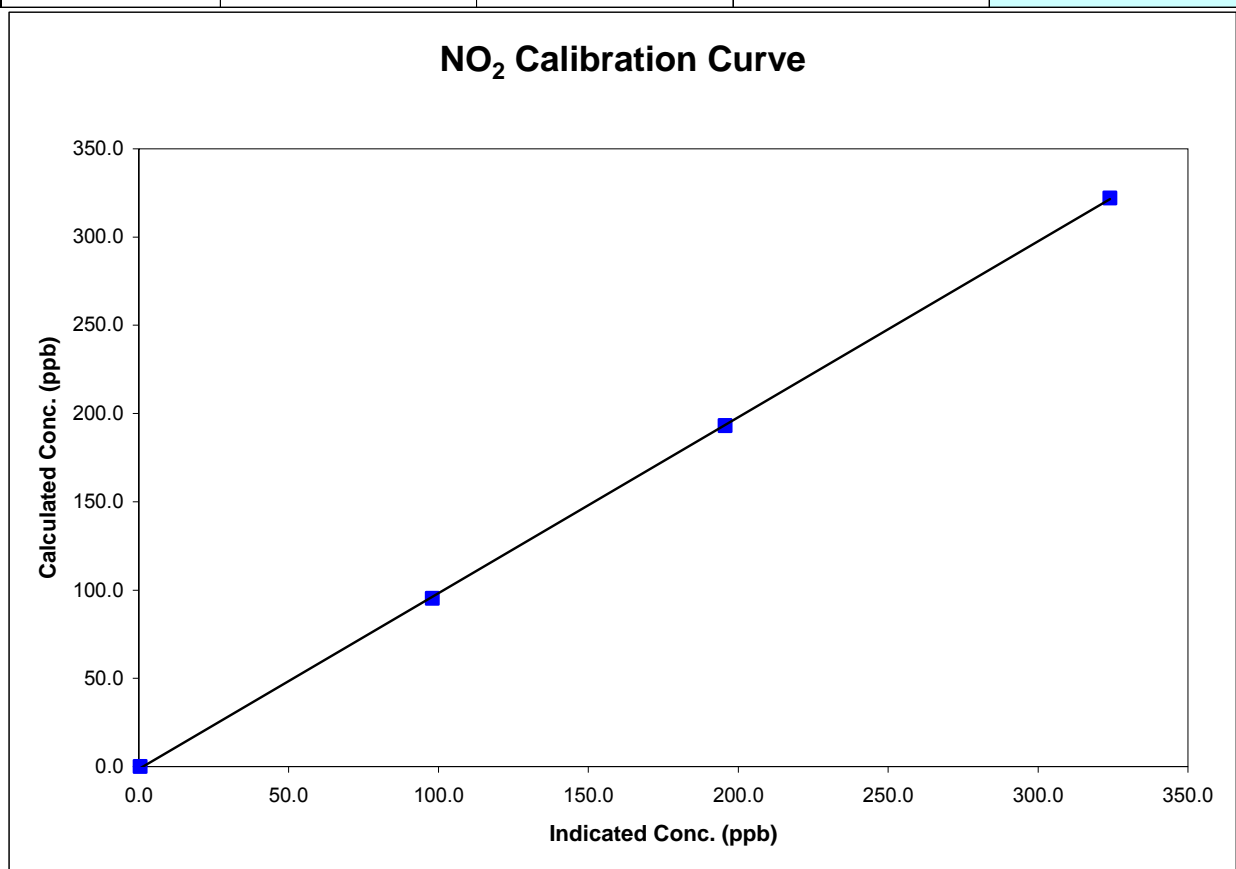
Parameter **NO<sub>2</sub>**Air Monitoring Network **PASZA**

### Station Information

Calibration Date	June 18, 2007	Previous Calibration	May 23, 2007
Station Number	6	Station Location	Falher
Start Time (MST)	11:17	End Time (MST)	15:20
Analyzer make	Teco 42i	Analyzer serial #	701120011

### Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	0.0000	Correlation Coefficient	0.999958
322.1	324.0	0.9942		
193.2	195.6	0.9873	Slope	0.996721
95.2	98.0	0.9719		
			Intercept	-1.394613



## Calibration Summary

Parameter **NO<sub>x</sub>**  
 Air Monitoring Network **PASZA**

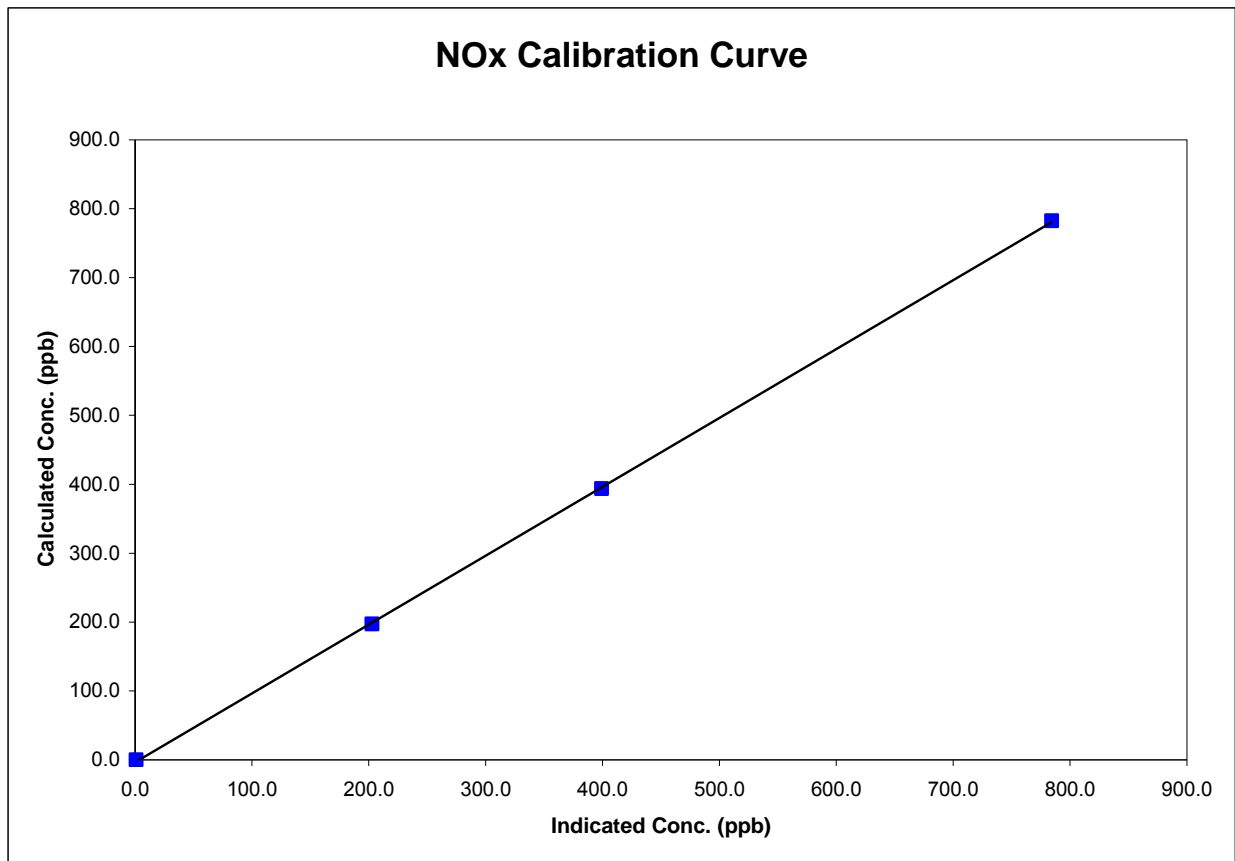


### Station Information

Calibration Date	June 18, 2007	Previous Calibration	May 23, 2007
Station Number	6	Station Location	Falher
Start Time (MST)	11:17	End Time (MST)	15:20
Analyzer make	Teco 42i	Analyzer serial #	701120011

### Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.1	0.0000	Correlation Coefficient	0.999945
782.3	784.3	0.9974		
393.6	399.3	0.9857		
197.0	202.9	0.9711		
			Slope	1.000107
			Intercept	-3.692769



## Calibration Summary

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

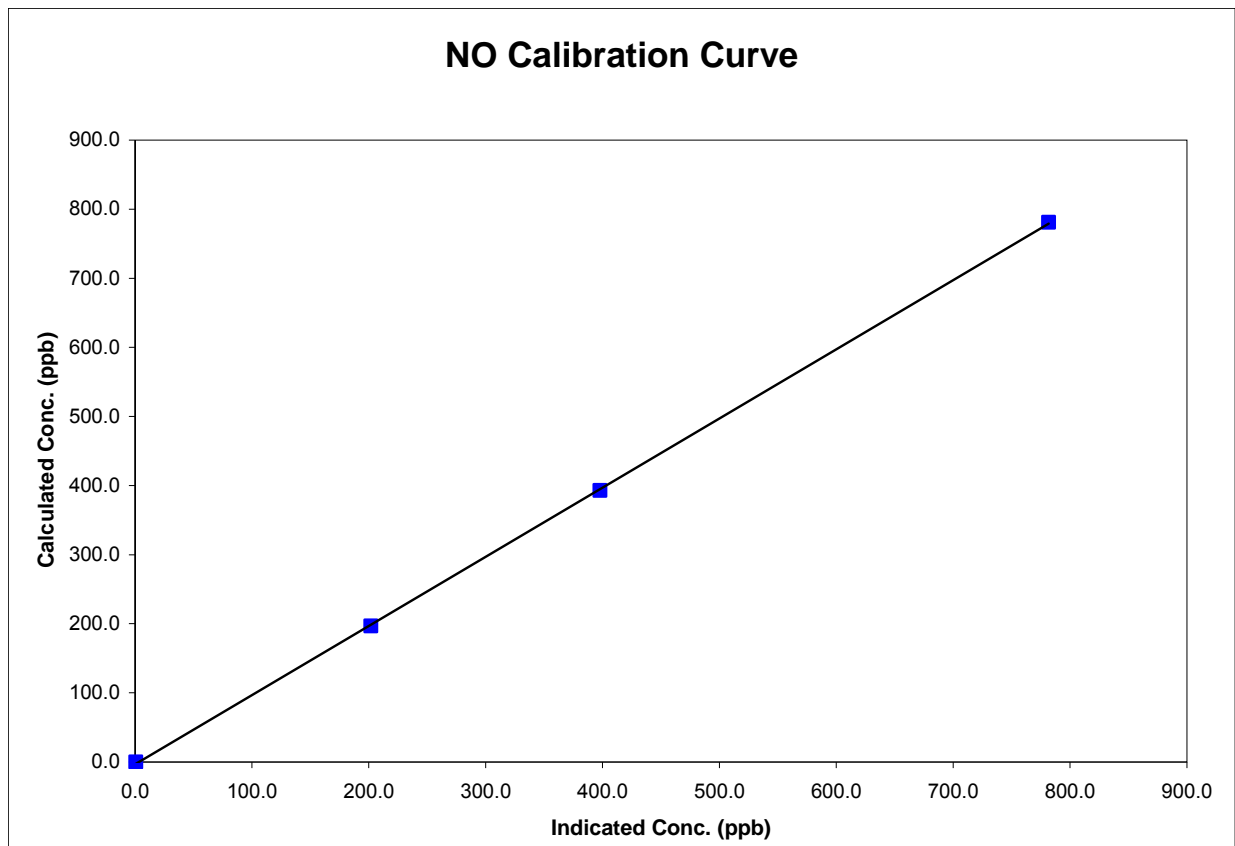


### Station Information

Calibration Date	June 18, 2007	Previous Calibration	May 23, 2007
Station Number	6	Station Location	Falher
Start Time (MST)	11:17	End Time (MST)	15:20
Analyzer make	Teco 42i	Analyzer serial #	701120011

### Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.8	N/A		
780.8	781.8	0.9987	Correlation Coefficient	0.999949
392.8	397.8	0.9874		
196.6	201.8	0.9744		
			Slope	1.000921
			Intercept	-3.317014



# Calibration Report



Parameter **SO<sub>2</sub>**  
 Air Monitoring Network **PASZA**

## Station Information

Calibration Date	June 20, 2007	Previous Calibration	May 2, 2007
Station Number	5	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:46	End Time (MST)	14:25
Barometric Pressure	27.6 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	1,946 ng/min	Perm-tube Date	8/8/2006
Correction factor	0.938202	Perm-tube Cert #	19-25218
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
Calculated slope	0.987242	Calculated slope	1.000865
Calculated intercept	1.643490	Calculated intercept	2.690786
Analyzer make	Teco 43C	Analyzer serial #	43C-57351-313

	before		after	
Concentration range	1000	ppb	1000	ppb
Background coefficient	29.8	ppb	29	ppb
Lamp Voltage	0.772		0.772	
Chamber Temp	693	volts	693	volts
Pressure	44.4	Deg C	44.7	Deg C
Sample Flow	45		45	
Lamp Intesity	645.1	mm Hg	623.4	mm Hg
	473	ccm	466	ccm
	45600	mv	45300	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)
zero	2429.9	0.0	-1.3	N/A
2590	2429.9	305.7	303.0	1.0088
4980	4672.2	159.0	157.0	1.0124
8520	7993.5	92.9	87.6	1.0608
zero	2429.9	0.0	-1.3	As Found Zero
2590	2429.9	305.7	303.0	As Found Span
Average Correction Factor				1.0273

Calculated value of As Found Response: 302.080 ppm      Percent Change of As Found: 1.2%

	before calibration		after calibration	
Auto zero	1.3	ppm	1.4	ppm
Auto span	944.9	ppm	976.9	ppm

Notes: No adjustments

Calibration Performed By: Dawn Ewan



# Calibration Summary

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

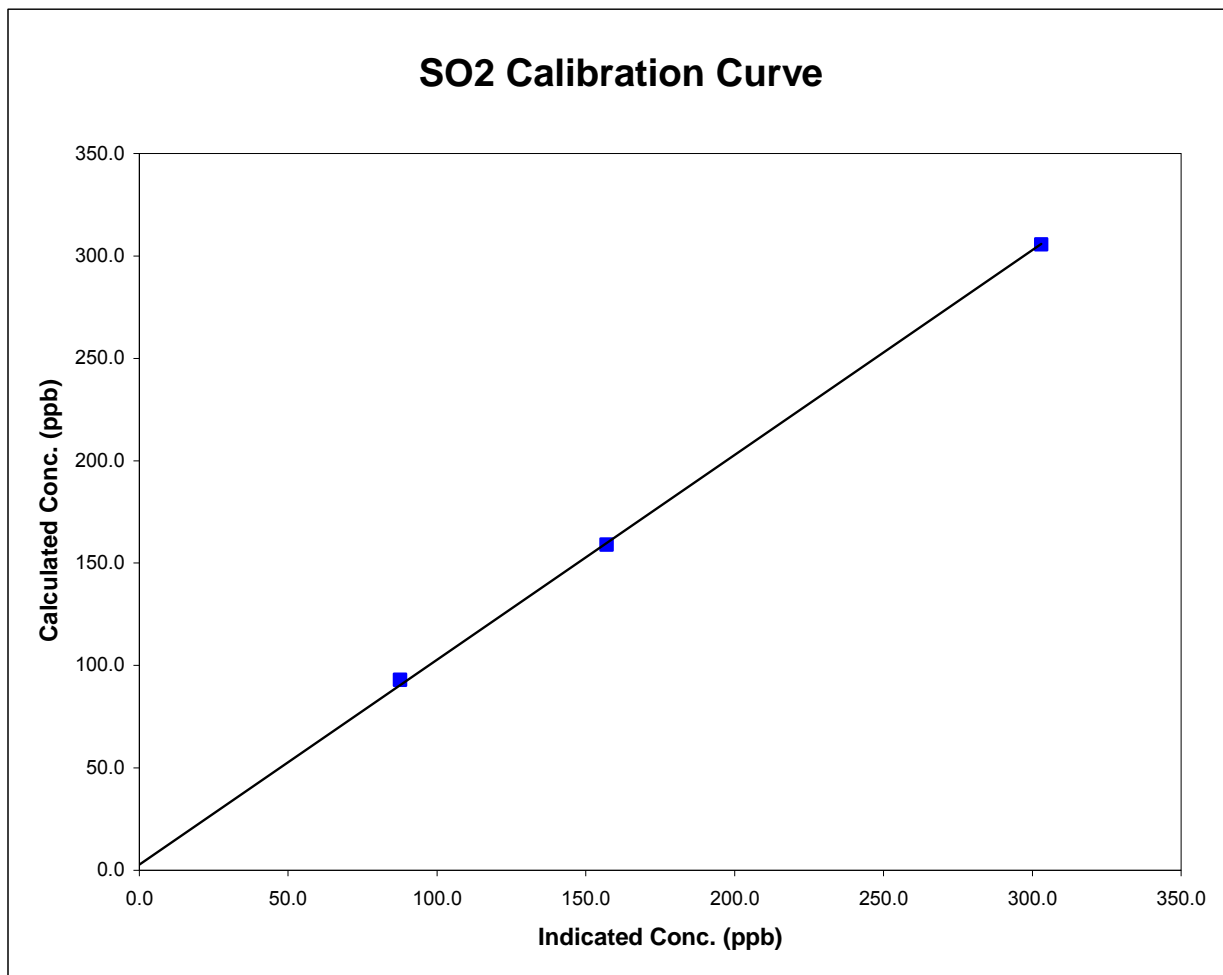


### Station Information

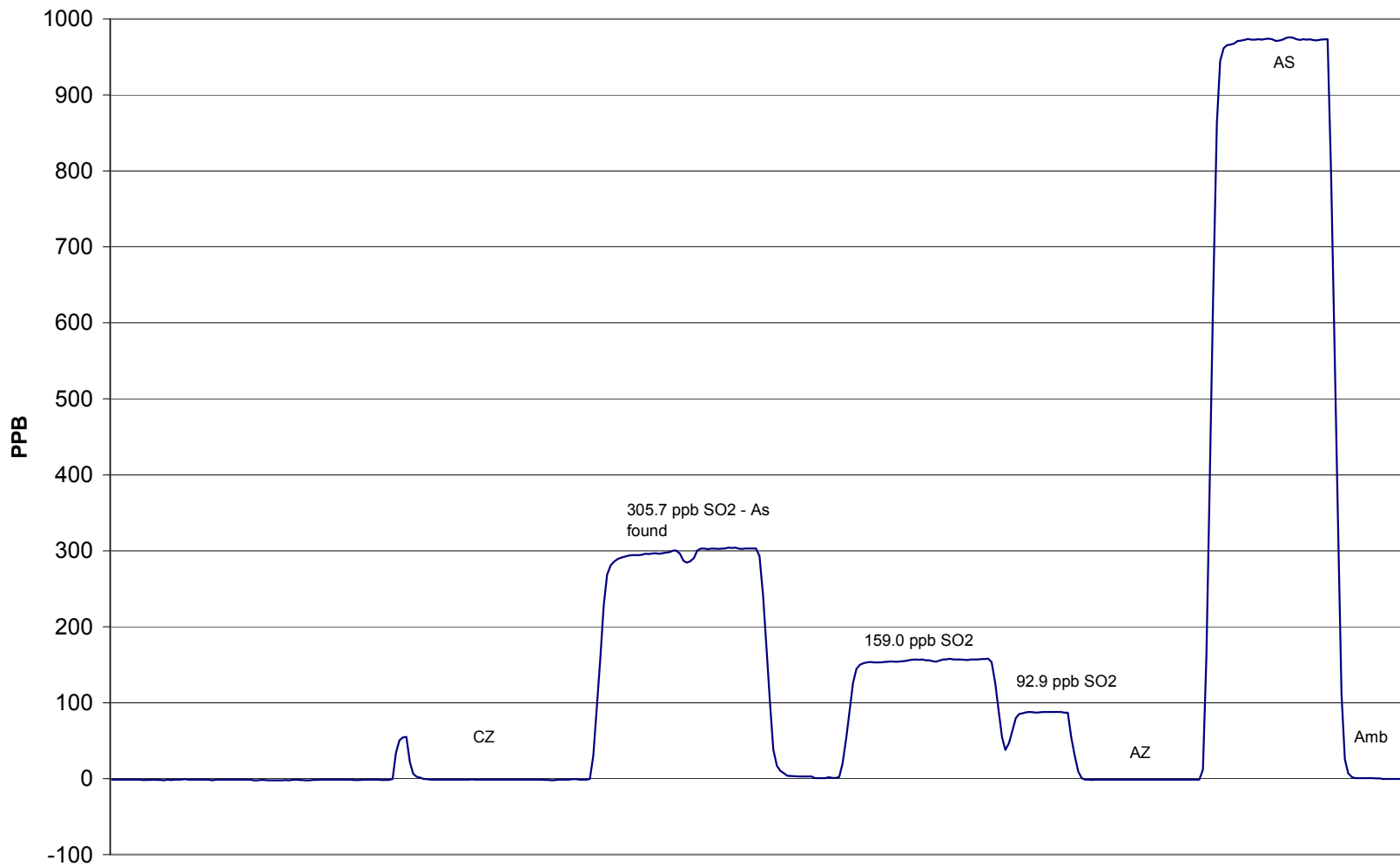
Calibration Date	June 20, 2007	Previous Calibration	May 2, 2007
Station Number	5	Station Location	Valleyview
Start Time (MST)	11:46	End Time (MST)	14:25
Analyzer make/model	Teco 43C	Analyzer serial #	43C-57351-313

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-1.3	N/A		
305.7	303.0	1.0088	Correlation Coefficient	0.999812
159.0	157.0	1.0124		
92.9	87.6	1.0608	Slope	1.000865
			Intercept	2.690786



### SO2 Calibration



June 20, 2007

# Calibration Report

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

## Station Information

Calibration Date	June 20, 2007	Previous Calibration	May 2, 2007
Station Number	5	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	11:46	End Time (MST)	17:39
Barometric Pressure	27.60 inches Hg	Station Temperature	20.0 Deg C
Calibrator	VICI Metronics	Serial Number	111-1695
Perm-tube Conc	235 ng/min	Perm-tube Expiry Date	8/8/2006
Correction factor	0.938202	Perm-tube Cert #	T-25214
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	0.985104	Calculated slope	0.940100
Calculated intercept	0.315846	Calculated intercept	0.654016
Analyzer make	43I	Analyzer serial #	701120010

	before		after	
Concentration range	100	ppb	100	ppb
Background	6.1	ppb	6.2	ppb
coefficient	1.374		1.374	
Lamp Voltage	812	volts	819	volts
Chamber Temp	45	Deg C	45.2	Deg C
Perm oven temp	45		45	
Pressure	658.2	mm Hg	642	mm Hg
Sample Flow	442	ccm	429	ccm
Lamp Intesity	92	%	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)
zero	2429.9	0.0	0.0	N/A
2590	2429.9	69.5	73.6	0.9453
4980	4672.2	36.2	37.7	0.9598
8520	7993.5	21.1	20.9	1.0096
zero	2429.9	0.0	0.0	As Found Zero
2590	2429.9	69.5	73.6	As Found Span
Average Correction Factor				0.9715

Calculated value of As Found Response: 72.82 ppm      Percent Change of As Found: -4.7%

	before calibration		after calibration	
Auto zero	0.3	ppm	0.6	ppm
Auto span	84.8	ppm	81.4	ppm

Notes: \_\_\_\_\_

Calibration Performed By: Dawn Ewan

## Calibration Summary

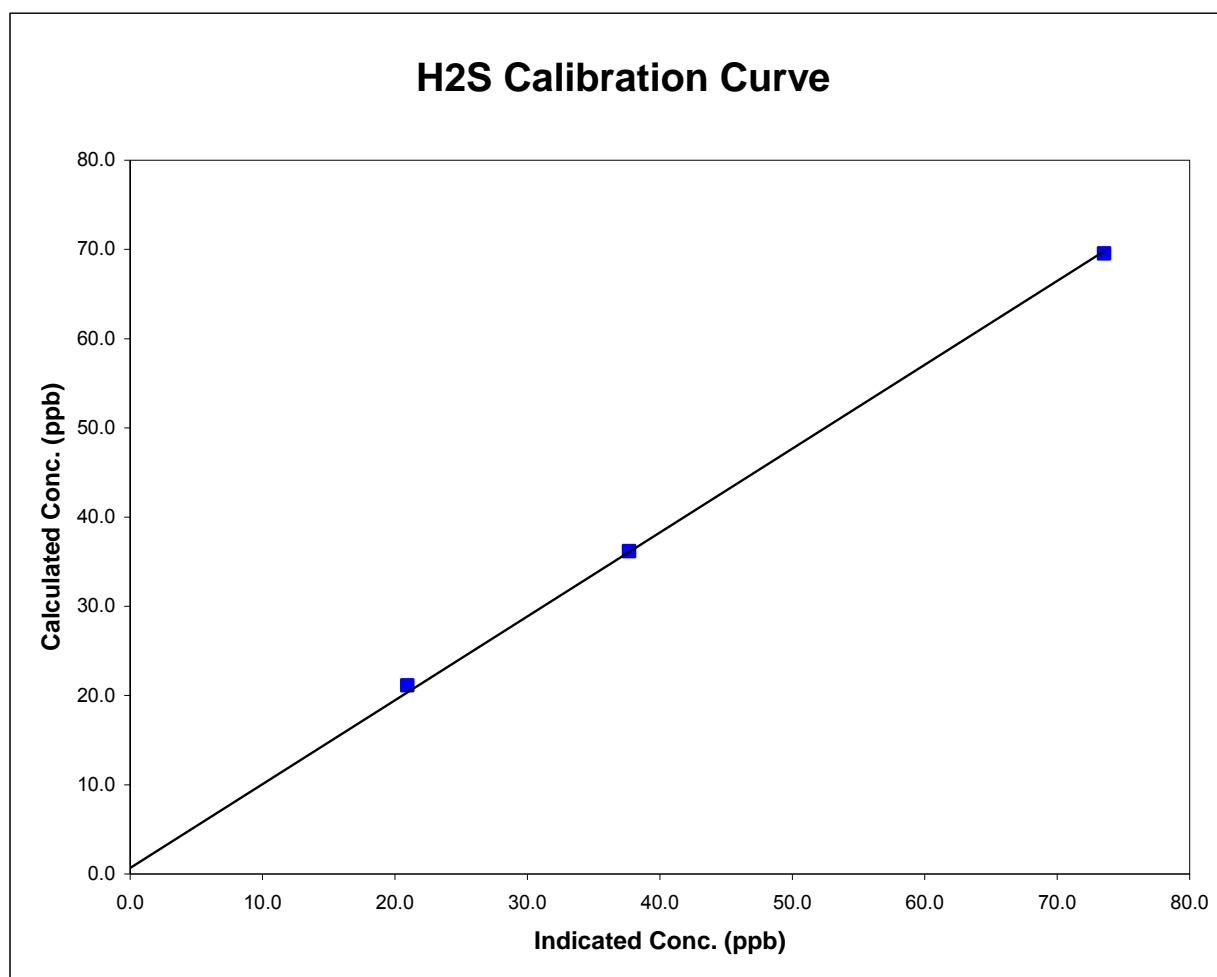
Parameter **H2S**Air Monitoring Network **PASZA**

### Station Information

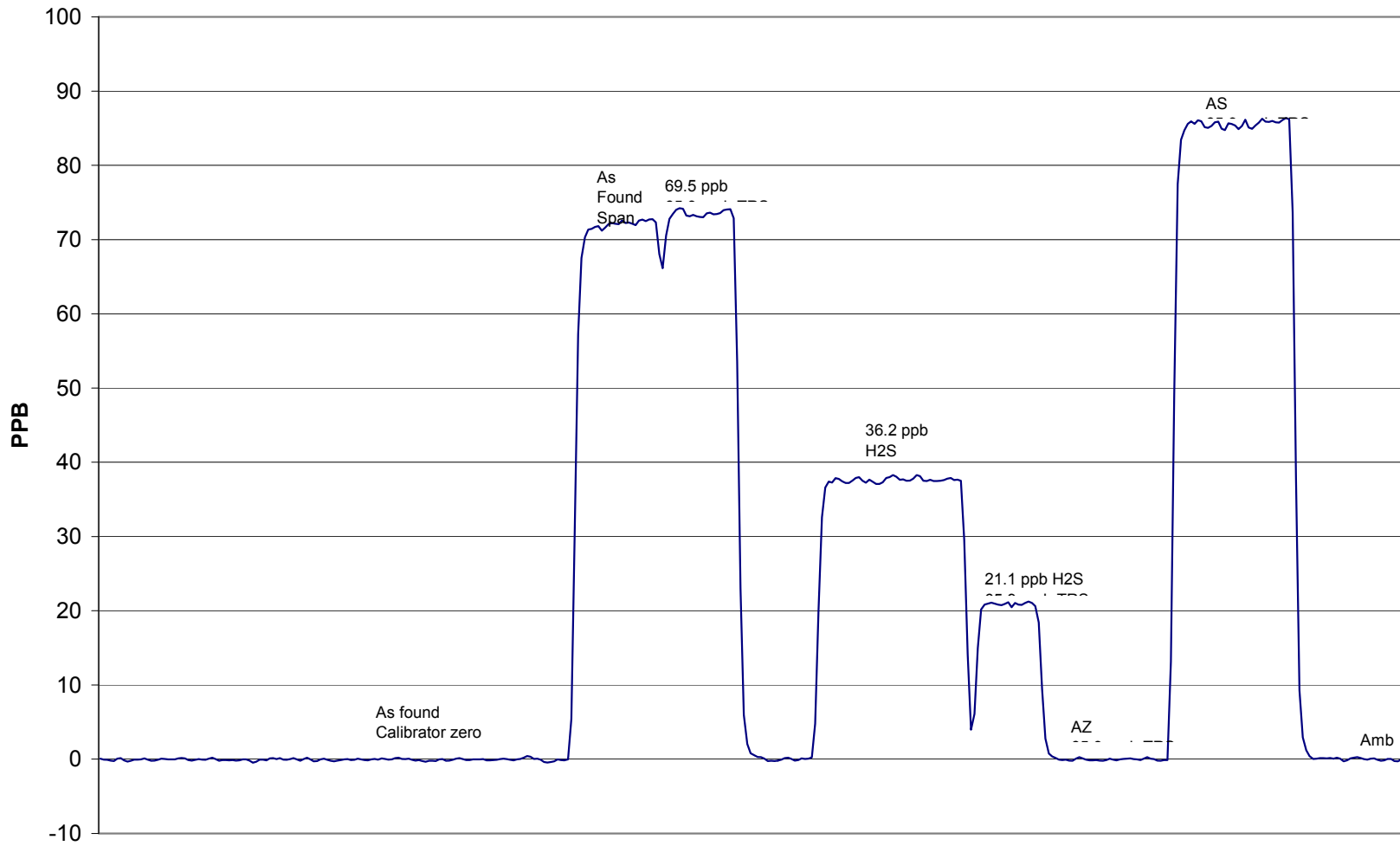
Calibration Date	June 20, 2007	Previous Calibration	May 2, 2007
Station Number	5	Station Location	Valleyview
Start Time (MST)	11:46	End Time (MST)	17:39
Analyzer make/model	43I	Analyzer serial #	701120010

### Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
69.5	73.6	0.9453	Correlation Coefficient	0.999571
36.2	37.7	0.9598		
21.1	20.9	1.0096	Slope	0.940100
			Intercept	0.654016



### H2S Calibration



June 20, 2007