



Peace AirShed Zone Association

Ambient Air Monitoring Network Summary

Continuous Ambient Air Quality Monitoring Program

Monthly Report

September 2009

Operations and Reporting





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November 3, 2009

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RE: Peace Airshed Zone Association (PASZA) – September 2009 Ambient Air Report

Enclosed is the PASZA Ambient Monitoring Network Report for the month of **September 2009**.

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

An Alberta Environment Audit was conducted during the week of September 14th to 17th, for information regarding the audit please contact Shelly Pruden, Executive Director of PASZA at 780.833.4343.

During the month of September the following events were noted:

Henry Pirker Station:

- ◆ The measured ambient air quality was within the Alberta Ambient Air Quality Objectives (AAAQO) for the Henry Pirker station.
- ◆ All analyzers and sensors at the Henry Pirker station had an operational uptime greater than 90% for the month of September.

Evergreen Park Station:

- ◆ The measured ambient air quality was within the AAAQO for the Evergreen Park station, with the exception of PM_{2.5}:
 - o 1-hour: September 26 300 µg/m³ **AE Reference #220334**
 - o 1-hour: September 26 244 µg/m³ **AE Reference #220334**
 - o 1-hour: September 26 154 µg/m³ **AE Reference #220334**
 - o 1-hour: September 26 186 µg/m³ **AE Reference #220334**
 - o 1-hour: September 26 144 µg/m³ **AE Reference #220334**
 - o 24-hour: September 26 50.5 µg/m³ **AE Reference #220340**
- ◆ All analyzers / sensors at the Evergreen Park station had an operational uptime greater than 90% for the month of September.

Smoky Heights Station:

- ◆ The measured ambient air quality was within the AAAQO for the Smoky Heights station.
- ◆ All analyzers / sensors at the Smoky Heights station had an operational uptime greater than 90% for the month of September.

Beaverlodge Station:

- ◆ The measured ambient air quality was within the AAAQO for the Beaverlodge station:
- ◆ All analyzers / sensors at the Beaverlodge station had an operational uptime greater than 90% for the month of September.

Portable – Kinuso Station:

- ◆ The measured ambient air quality was within the AAAQO for the Kinuso station.
- ◆ All analyzers / sensors at the Kinuso station had an operational uptime greater than 90% for the month of September.
- ◆ On October 23rd the wind direction declination was off by 33 degrees since the audit on September 17th, and it was determined the declination prior to September 17th was off by 13 degrees. The wind direction data has been corrected and will be resubmitted to CASA for the months of April to August 2009.

Valleyview Station:

- ◆ The measured ambient air quality was within the AAAQO for the Valleyview station.
- ◆ All analyzers / sensors at the Valleyview station had an operational uptime of 100% for the month of September.

Passive Monitoring - 43 Stations throughout the PASZA zone:

There were four duplicate sites sampled in the month of September: Silver Valley, Gordondale, Pinto Creek and Guy. The passive sample analyses were performed by MAXXAM Analytics Inc.

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

- Monthly average concentrations for SO₂ passives ranged from 0.1 ppb to 0.4 ppb, with a mean of 0.2 ppb.
- Monthly average concentrations for NO₂ passives ranged from 0.4 ppb to 5.6 ppb, with a mean of 1.5 ppb.
- Monthly average concentrations for O₃ passives ranged from 15.9 ppb to 30.8 ppb, with a mean of 20.9 ppb.

If you have any questions, please contact the Focus Intec office at 1.403.263.8200 (Kelly Baragar or Sharon Whiteley).

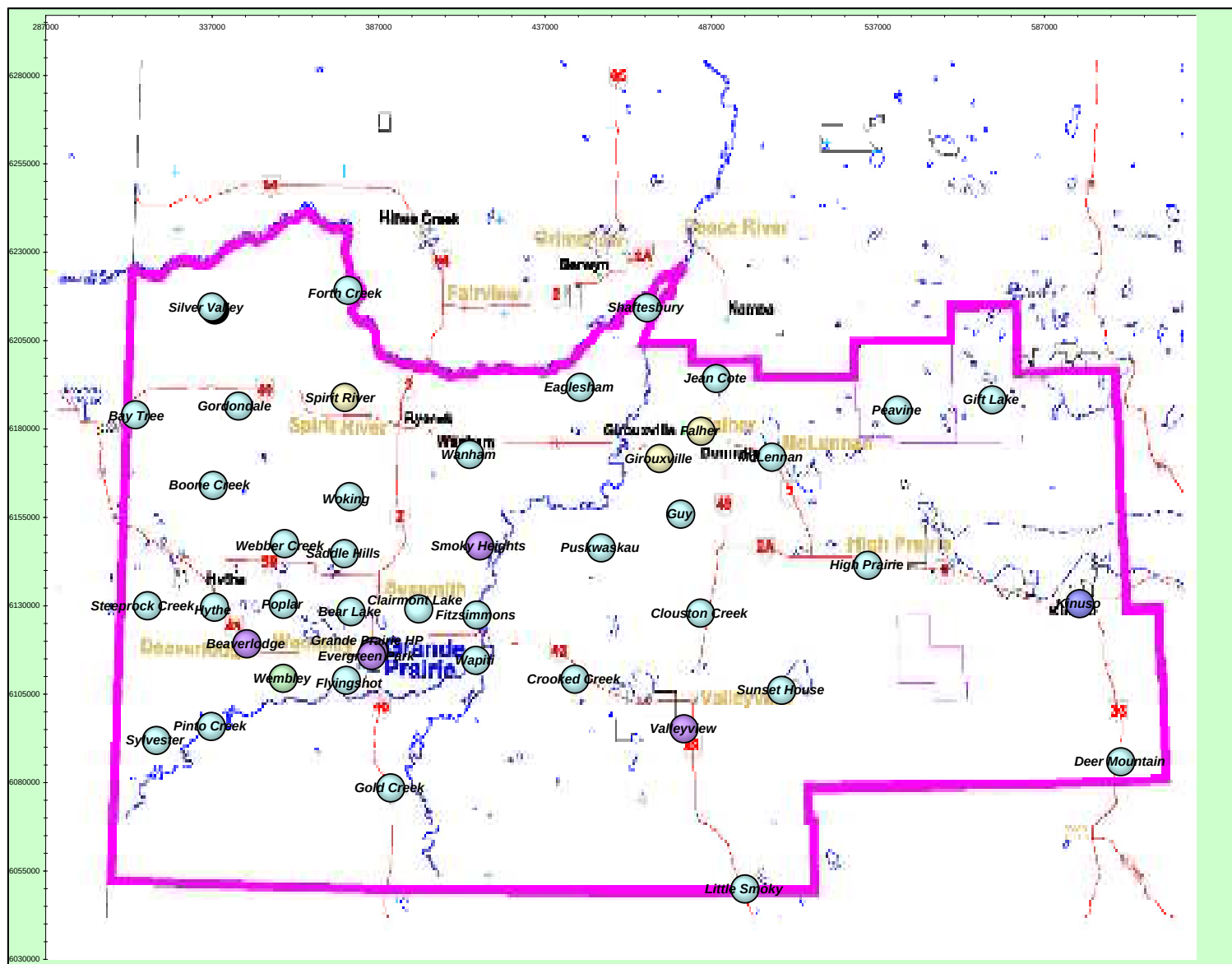
On Behalf of the,
Peace Airshed Zone Association

Shelly Pruden
Executive Director



Sharon Whiteley, B.Sc..
FOCUS AQM Data Specialist

Location of PASZA Continuous and Passive Monitoring Stations



PASZA Monthly Continuous Data Summary

Sep-2009 Peace Airshed Zone Association							Maximum Recorded Values				
							1-hr		24-hr / 8-hr		
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		Conc	Day	Conc	Day	Operational Time (%)
	1-hr	24-hr			1-hr	24-hr					
SO ₂ (ppb)	172	57	Henry Pirker	0.2	0	0	3.1	Sep-01 18:00	0.7	Sep-16	100.0%
SO ₂ (ppb)	172	57	Evergreen Park	0.4	0	0	8.5	Sep-24 10:00	1.5	Sep-24	99.7%
SO ₂ (ppb)	172	57	Smoky Heights	0.2	0	0	2.1	Sep-05 10:00	0.5	Sep-14	99.7%
SO ₂ (ppb)	172	57	Beaverlodge	0.4	0	0	11.8	Sep-01 12:00	1.7	Sep-01	93.5%
SO ₂ (ppb)	172	57	Portable-Kinuso	0.2	0	0	2.8	Sep-23 21:00	0.6	Sep-14	99.7%
SO ₂ (ppb)	172	57	Valleyview	0.2	0	0	3.8	Sep-27 00:00	0.9	Sep-08	100.0%
NO (ppb)			Henry Pirker	2.5	-	-	63.3	Sep-22 22:00	14.0	Sep-23	100.0%
NO ₂ (ppb)	212	106	Henry Pirker	5.9	0	0	29.8	Sep-23 21:00	12.1	Sep-23	100.0%
NO _x (ppb)			Henry Pirker	8.4	-	-	83.5	Sep-22 22:00	26.1	Sep-23	100.0%
NO (ppb)			Beaverlodge	0.4	-	-	28.7	Sep-09 09:00	2.8	Sep-09	93.3%
NO ₂ (ppb)	212	106	Beaverlodge	2.2	0	0	10.9	Sep-14 08:00	5.3	Sep-09	93.3%
NO _x (ppb)			Beaverlodge	2.7	-	-	35.6	Sep-09 09:00	8.2	Sep-09	93.3%
NO (ppb)			Portable-Kinuso	0.4	-	-	3.0	Sep-14 08:00	1.0	Sep-16	99.7%
NO ₂ (ppb)	212	106	Portable-Kinuso	1.7	0	0	6.0	Sep-30 19:00	3.2	Sep-14	99.7%
NO _x (ppb)			Portable-Kinuso	2.1	-	-	8.8	Sep-30 19:00	3.9	Sep-14	99.7%
O ₃ (ppb)	82		Henry Pirker	21.6	0	-	61.9	Sep-14 15:00	33.1	Sep-24	100.0%
O ₃ (ppb) - 8-hr			Henry Pirker		0				54.6	Sep-14	
O ₃ (ppb)	82		Beaverlodge	23.9	0	-	58.4	Sep-14 16:00	35.4	Sep-14	93.5%
O ₃ (ppb) - 8-hr			Beaverlodge		0				53.3	Sep-14	
O ₃ (ppb)	82		Portable-Kinuso	20.9	0	-	52.1	Sep-23 18:00	28.5	Sep-25	99.7%
O ₃ (ppb) - 8-hr			Portable-Kinuso		0				72.5	Sep-13	
CO (ppm)	13		Henry Pirker	0.21	0	-	1.0	Sep-22 22:00	0.3	Sep-02	100.0%
CO (ppm) - 8-hr	5		Henry Pirker		0				0.6	Sep-23	100.0%
THC (ppm)			Henry Pirker	2.15	-	-	3.2	Sep-22 22:00	2.4	Sep-23	99.6%
TRS (ppb)			Henry Pirker	0.2	-	-	0.9	Sep-01 20:00	0.4	Sep-23	100.0%
TRS (ppb)			Evergreen Park	0.5	-	-	3.0	Sep-04 07:00	1.1	Sep-01	94.4%
TRS (ppb)			Smoky Heights	0.3	-	-	1.4	Sep-07 03:00	0.5	Sep-02	99.7%
TRS (ppb)			Portable-Kinuso	0.3	-	-	0.6	Sep-11 20:00	0.4	Sep-11	99.7%
H ₂ S (ppb)	10	3	Valleyview	0.1	0	0	0.9	Sep-03 08:00	0.2	Sep-10	100.0%
PM _{2.5} (µg/m ³)	80	30	Henry Pirker	4.8	0	0	30.9	Sep-14 21:00	14.6	Sep-14	95.8%
PM _{2.5} (µg/m ³)	80	30	Evergreen Park	6.9	5	1	299.7	Sep-26 11:00	50.5	Sep-26	96.4%
PM _{2.5} (µg/m ³)	80	30	Smoky Heights	4.9	0	0	74.3	Sep-01 19:00	14.8	Sep-01	93.5%
PM _{2.5} (µg/m ³)	80	30	Beaverlodge	7.0	0	0	29.0	Sep-13 20:00	16.1	Sep-14	92.9%

PASZA Monthly Continuous Data Summary – continued

Sep-2009Peace Airshed Zone Association							Maximum Recorded Values				
							1-hr		24-hr / 8-hr		
RH (%)			Henry Pirker	61.5	-	-	92.5	Sep-03 07:00	82.2	Sep-06	100.0%
RH (%)			Evergreen Park	64.7	-	-	98.6	Sep-03 09:00	88.5	Sep-06	99.7%
RH (%)			Beaverlodge	60.1	-	-	95.9	Sep-03 07:00	83.6	Sep-29	93.5%
RH (%)			Valleyview	66.5	-	-	99	Sep-10 03:00	83.4	Sep-06	100.0%
SR (W/m²)			Henry Pirker	119.1	-	-	553.6	Sep-04 15:00	167.1	Sep-11	100.0%
Temp (°C)			Henry Pirker	13.7	-	-	29.5	Sep-03 16:00	19.4	Sep-03	100.0%
Temp (°C)			Evergreen Park	13.6	-	-	29.4	Sep-03 17:00	18.7	Sep-02	99.7%
Temp (°C)			Smoky Heights	13.2	-	-	29.7	Sep-23 17:00	19.2	Sep-01	99.7%
Temp (°C)			Beaverlodge	13.7	-	-	31.2	Sep-23 15:00	20.1	Sep-01	93.5%
Temp (°C)			Portable-Kinuso	13.4	-	-	31.4	Sep-23 15:00	19.8	Sep-01	99.7%
Temp (°C)			Valleyview	13.0	-	-	30.7	Sep-23 17:00	19.1	Sep-01	100.0%
WSPD s (km/hr)			Henry Pirker	11.3	-	-	42.0	Sep-08 12:00	28.8	Sep-08	100.0%
WSPD s (km/hr)			Evergreen Park	7.1	-	-	30.0	Sep-26 11:00	20.2	Sep-26	100.0%
WSPD s (km/hr)			Smoky Heights	13.9	-	-	51.0	Sep-07 14:00	29.8	Sep-26	99.6%
WSPD s (km/hr)			Beaverlodge	13.5	-	-	51.0	Sep-24 05:00	30.1	Sep-08	93.5%
WSPD s (km/hr)			Portable-Kinuso	5.6	-	-	28.0	Sep-28 12:00	15.8	Sep-28	99.7%
WSPD s (km/hr)			Valleyview	5.7	-	-	27.0	Sep-26 13:00	13.5	Sep-26	100.0%
WSPD v (km/hr)			Henry Pirker	6.0	-	-	42.0	Sep-08 12:00	28.5	Sep-08	100.0%
WSPD v (km/hr)			Evergreen Park	4.8	-	-	29.0	Sep-26 11:00	19.7	Sep-26	100.0%
WSPD v (km/hr)			Smoky Heights	8.3	-	-	51.0	Sep-07 14:00	29.1	Sep-26	99.6%
WSPD v (km/hr)			Beaverlodge	6.9	-	-	51.0	Sep-24 05:00	29.5	Sep-08	93.5%
WSPD v (km/hr)			Portable-Kinuso	3.1	-	-	28.0	Sep-28 12:00	15.1	Sep-28	99.7%
WSPD v (km/hr)			Valleyview	2.8	-	-	27.0	Sep-26 13:00	12.3	Sep-26	100.0%
WDIR			Henry Pirker	WSW	-	-	-	-	-	-	100.0%
WDIR			Evergreen Park	W	-	-	-	-	-	-	100.0%
WDIR			Smoky Heights	WSW	-	-	-	-	-	-	99.6%
WDIR			Beaverlodge	WSW	-	-	-	-	-	-	93.5%
WDIR			Portable-Kinuso	S	-	-	-	-	-	-	99.7%
WDIR			Valleyview	W	-	-	-	-	-	-	100.0%

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

Routine monthly calibrations were performed on September 24th (SO₂, TRS, CO & THC) and September 26th (PM_{2.5}, NO_x & O₃). An Alberta Environment Audit was performed on September 16th.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NOx/NO/NO ₂	TEI	42C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
CO	TEI	48C	No operational issues observed.
THC	TEI	51-CLT	Two (2) hours were flagged for maintenance on September 19 th - no spans from September 18 th to 24 th – waiting for new span cylinder to arrive.
TRS	TEI	43C	No operational issues observed.
PM _{2.5}	R&P	1400AB	A total of thirty-eight (38) hours were flagged invalid due to baseline. A total of two (2) hours were flagged for maintenance (September 23 rd & 24 th).
RH	Met One	083D	No operational issues observed.
ET	Met One	083D	No operational issues observed.
SR	Met One	096-1	No operational issues observed.
WS	Met One	010C	No operational issues observed.
WD	Met One	020C	No operational issues observed.

PASZA – Evergreen Park Station

General Station Issues

Routine monthly calibrations were performed on September 11th (SO₂, TRS). An Alberta Environment Audit was performed on September 15th.

Parameter	Make	Model	Notes
SO ₂	TEI	43i	Two (2) hours were flagged invalid on September 29 th – reason unknown.
TRS	TEI	43C	Spans were outside the target range from September 1 st to 10 th due to air conditioner failure – blower fan replaced September 10 th . Thirty-nine (39) hours were flagged invalid due to extreme baseline drift from high internal station temperature.
PM _{2.5}	R&P	1400AB	Twenty-nine (29) hours were flagged invalid due to baseline drift. One hour was flagged for maintenance on September 23rd. Five 1-hour exceedences of the AAAQG: September 26th 11:00 300 µg/m³ AE Reference #220334 September 26th 11:00 244 µg/m³ AE Reference #220334 September 26th 11:00 154 µg/m³ AE Reference #220334 September 26th 11:00 186 µg/m³ AE Reference #220334 September 26th 11:00 144 µg/m³ AE Reference #220334 One 24-hour exceedence of the AAAQO: September 26th – 50.0 µg/m³ AE Reference #220334
ET	Met One/Gill	083D	Two (2) hours were flagged invalid on September 29 th – reason unknown.
RH	Met One/Gill		Two (2) hours were flagged invalid on September 29 th – reason unknown.
WS	Met One/ Gill	010C	No operational issues observed.
WD	Met One/ Gill	020C	No operational issues observed.

PASZA – Smoky Heights Station

General Station Issues

Routine monthly calibrations were performed on September 27th (TRS, SO₂). An Alberta Environment Audit was performed on September 14th.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	Two (2) hours were flagged for power failures. No other operational issues observed.
TRS	TEI	43C	Two (2) hours were flagged for power failures. No other operational issues observed.
PM _{2.5}	R&P	1400AB	Forty-eight (48) hours were flagged invalid due to baseline drift. One (1) hour was flagged invalid – reason unknown. Two (2) hours were flagged invalid due to power failures.
ET	Met One	083D	One (1) hour was flagged invalid reason unknown. Two (2) hours were flagged for power failures.
WS	Met One	010C	Two (2) hours were flagged for power failures. No other operational issues observed.
WD	Met One	020C	Two (2) hours were flagged for power failures. No other operational issues observed.

PASZA – Beaverlodge Station

General Station Issues

Routine monthly calibrations were performed on September 7th (SO₂, O₃ & NO_x). An Alberta Environment Audit was performed on September 15th. There were several power failures throughout the month that resulted in a number of hours of downtime for all parameters.

Parameter	Make	Model	Notes
SO ₂	TEI	43CTL	Forty-seven (47) hours were flagged invalid due to above noted power failure.
NOx/NO/NO ₂	TEI	42C	Forty-eight (48) hours were flagged invalid due to above noted power failure.
O ₃	TEI	49C	Forty-seven (47) hours were flagged invalid due to above noted power failure.
PM _{2.5}	R&P	1400AB	Forty-eight (48) hours were flagged invalid due to above noted power failure. Two (2) hours were flagged invalid due possible bumping of analyzer. One (1) hour was flagged for maintenance (sample filter change).
ET	n/a	n/a	Forty-seven (47) hours were flagged invalid due to above noted power failure.
RH	n/a	n/a	Forty-seven (47) hours were flagged invalid due to above noted power failure.
WS	Blue Sky	857	Forty-seven (47) hours were flagged invalid due to above noted power failure.
WD	Blue Sky	857	Forty-seven (47) hours were flagged invalid due to above noted power failure.

PASZA – Kinuso (Portable) Station

General Station Issues

Routine monthly calibrations were performed on September 30th (SO₂, TRS, NO_x & O₃). An Alberta Environment Audit was performed on September 17th. A power failure on September 8th resulted in two (2) hours of invalid data for all parameters.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed except above noted power failure.
TRS	TEI	43C	No operational issues observed except above noted power failure.
NOx/NO/NO ₂	TEI	42I	No operational issues observed except above noted power failure.
O ₃	TEI	49C	No operational issues observed except above noted power failure.
ET	Met One		No operational issues observed except above noted power failure.
WS	Met One		No operational issues observed except above noted power failure.
WD	Met One		The declination of the wind sensor was determined on October 23 rd , all wind direction data prior to October 23 rd has been corrected accordingly.

PASZA – Valleyview Station

General Station Issues

Routine monthly calibrations were performed on September 29th (SO₂ & H₂S).). An Alberta Environment Audit was performed on September 14th.

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

PASZA

Henry Pirker Station

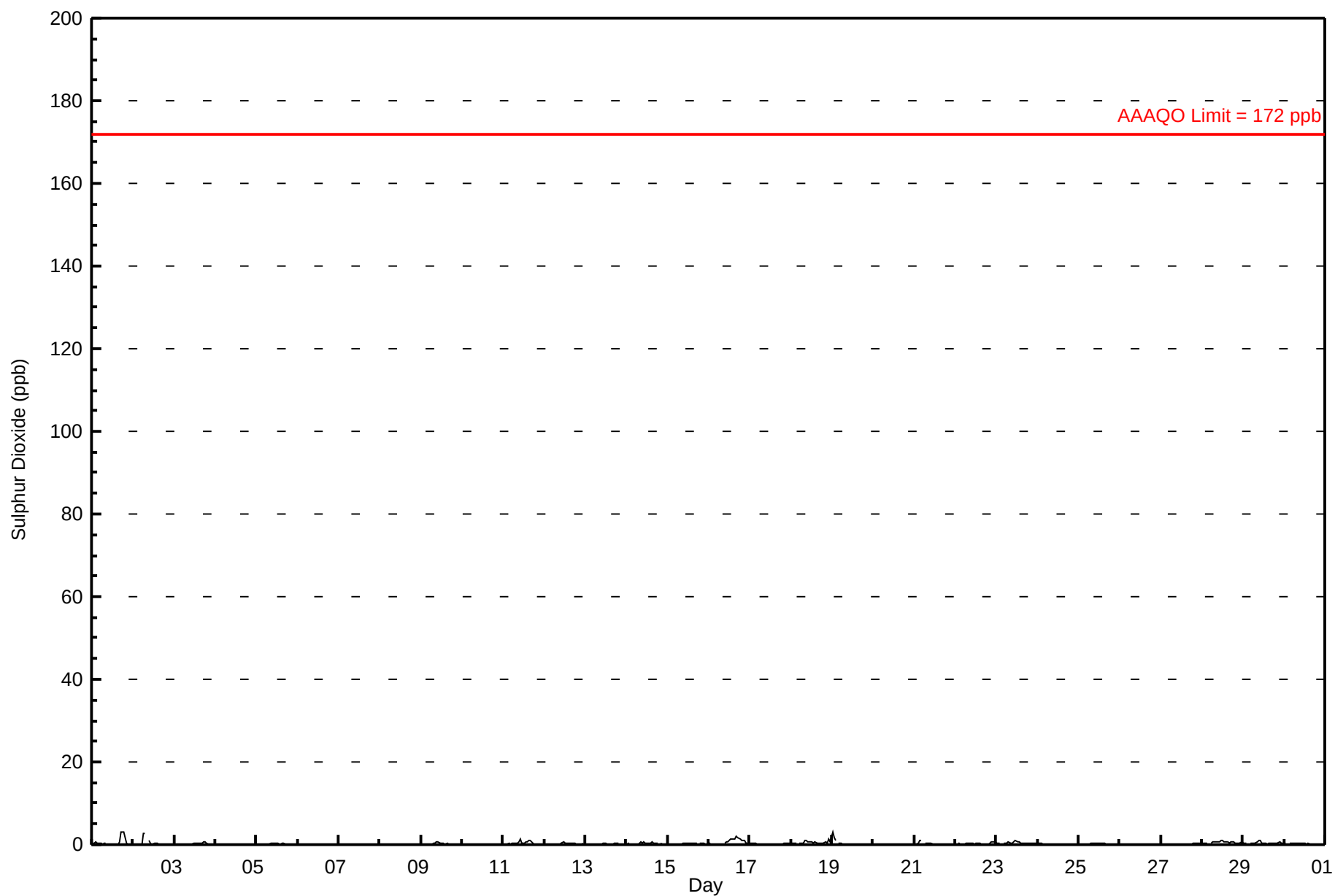
Monthly Summary Tables, Graphs and Roses

Peace Airshed Zone Association
Summary of Hourly Averages

Henry Pirker - Sulphur Dioxide (SO₂) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0																			Hours in Service: 720							
Maximum Value: 3.1 ppb on Sep 1 18:00																			Maximum Daily Average: 0.7 ppb on Sep 16		Hours of Data: 685					
Minimum Value: 0 ppb on Sep 1 13:00																			Minimum Daily Average: 0.0 ppb on Sep 10		Hours of Missing Data: 35					
Maximum Diurnal Average: 0.3 ppb at hour 11																			Minimum Diurnal Average: 0.1 ppb at hour 4		Hours of Calibration: 35					
Monthly Average: 0.22 ppb																			Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.1 Q ₃ = 0.3 P ₉₀ = 0.5 P ₉₉ = 1.7		Percent Operational Time: 100.0					
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
1-Sep	0	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0	1	3	3	2	0	0	0	0	0.5	3.1
2-Sep	0	0	0	0	0	0	3	3	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.8
3-Sep	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0.2	0.8
4-Sep	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
5-Sep	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	0.5
6-Sep	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
7-Sep	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
8-Sep	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
9-Sep	0	A	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.8
10-Sep	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
11-Sep	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	1	0	0	0	0	0	A	0	0.4	1.3
12-Sep	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.5
13-Sep	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
14-Sep	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	A	0	0	0	0	0.3	0.7
15-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.4
16-Sep	0	0	0	0	0	0	0	C	C	0	1	1	1	1	1	2	2	2	1	1	1	1	0	0	0.7	2.0
17-Sep	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
18-Sep	0	0	0	0	A	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	1	0	1	1	0.5	1.3
19-Sep	3	2	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.9
20-Sep	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
21-Sep	0	0	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.1
22-Sep	0	0	0	0	A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.3	0.8
23-Sep	0	0	0	A	0	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.4	0.9
24-Sep	0	0	0	0	0	A	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0.1	0.3
25-Sep	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	0.3
26-Sep	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
27-Sep	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	0.3
28-Sep	0	0	0	0	A	0	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	1	0.5	0.9
29-Sep	0	0	0	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0.4	0.9
30-Sep	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
		0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.1	Diurnal Average
		2.9	1.7	0.9	0.9	1.1	0.5	2.6	2.8	1.1	1.0	1.3	0.9	1.0	1.2	1.4	1.5	2.0	3.1	2.9	1.6	1.1	0.9	1.3	0.7	Diurnal Maximum
C - Calibration		A - Automated Daily Zero Span																								
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 57 ppb																										

Hourly Averages for SO₂ at Henry Pirker September 2009



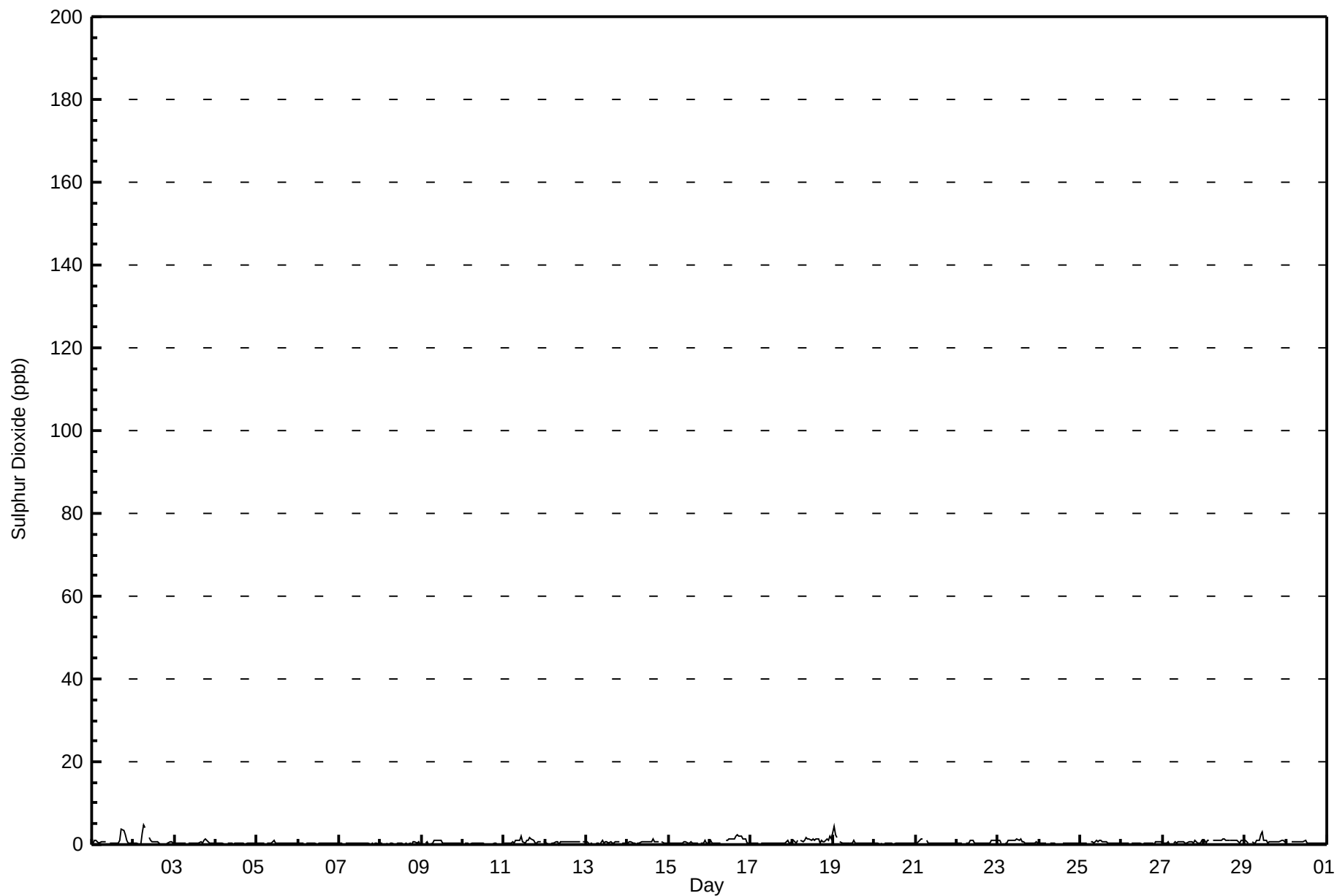
**Peace Airshed Zone Association
Summary of Hourly Maximums**

**Henry Pirker - Sulphur Dioxide (SO₂) - ppb
September 1, 2009 to October 1, 2009**

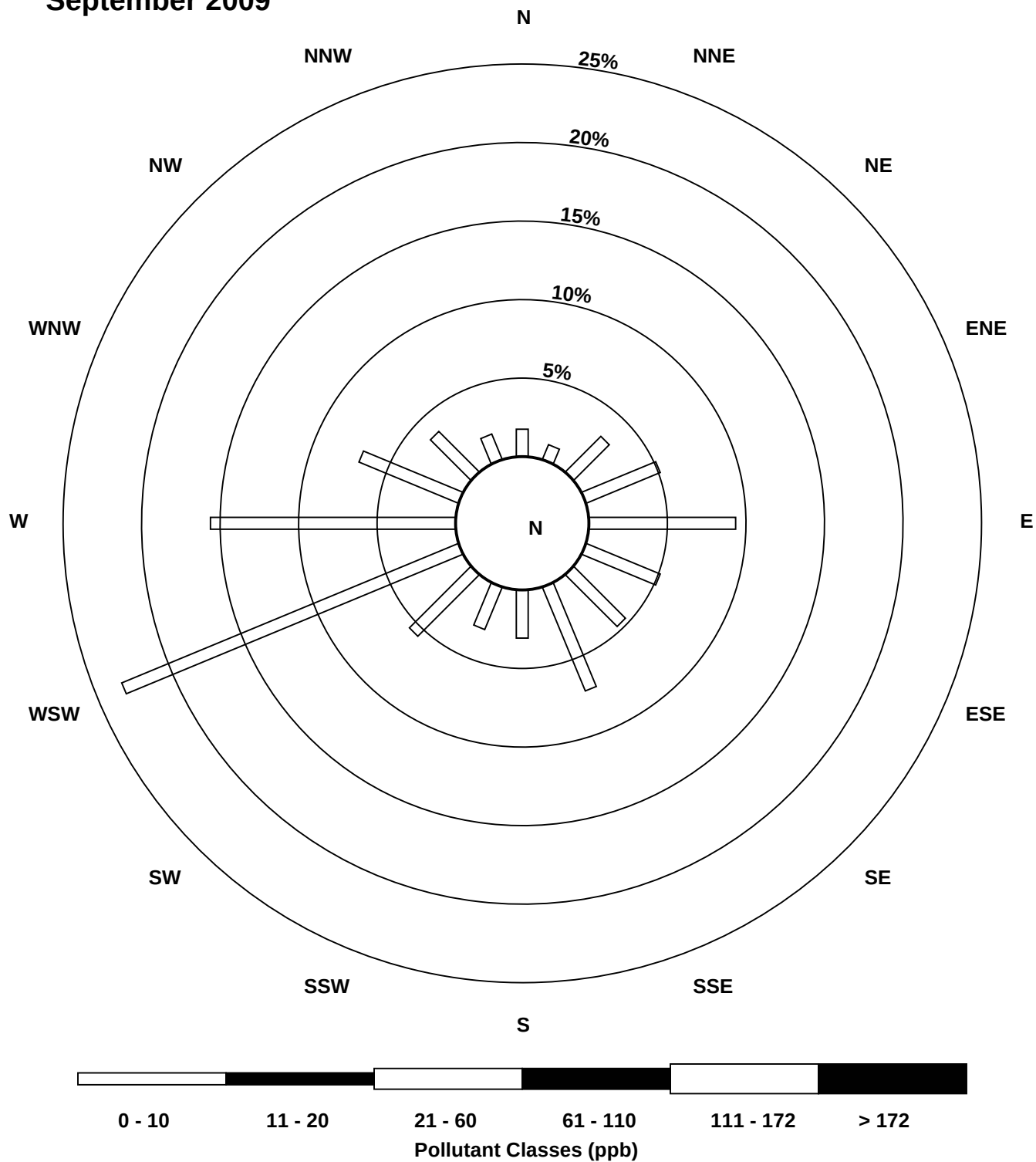
Maximum Value: 4.6 ppb on Sep 2 07:00																				Maximum Daily Average: 1.1 ppb on Sep 16					Hours in Service: 720	
Minimum Value: 0 ppb on Sep 8 05:00																				Minimum Daily Average: 0.2 ppb on Sep 10					Hours of Data: 685	
Maximum Diurnal Average: 0.7 ppb at hour 10																				Minimum Diurnal Average: 0.4 ppb at hour 5					Hours of Missing Data: 35	
Monthly Average: 0.58 ppb																				Percentiles: P ₁ = 0.0 P ₁₀ = 0.2 Q ₁ = 0.4 Median = 0.5 Q ₃ = 0.6 P ₉₀ = 1.0 P ₉₉ = 2.5					Hours of Calibration: 35	
																				Percent Operational Time: 100.0						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	0	1	1	1	1	1	1	1	1	A	0	0	0	0	0	0	1	4	3	2	1	0	0	0	0.9	3.9
2-Sep	0	0	0	0	0	3	5	4	A	2	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0.9	4.6
3-Sep	0	0	0	0	0	0	0	A	0	0	0	1	0	0	0	1	0	1	1	1	0	0	0	0	0.5	1.4
4-Sep	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
5-Sep	0	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0.5	1.0
6-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.5	0.5
7-Sep	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
8-Sep	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0.3	0.5
9-Sep	0	A	0	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.0
10-Sep	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
11-Sep	0	0	0	0	0	1	1	1	1	1	2	1	1	1	1	2	1	1	0	0	1	1	A	1	0.8	2.0
12-Sep	1	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.5	0.7
13-Sep	1	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0	1	1	1	A	0	0	0	0.4	0.9
14-Sep	0	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	A	1	0	0	0	0.6	1.2
15-Sep	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	A	0	0	1	0	0	0.4	0.9
16-Sep	1	0	0	0	0	0	0	C	C	1	1	1	1	1	1	2	2	2	2	1	1	1	0	0	1.1	2.3
17-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.5	0.9
18-Sep	1	1	0	1	A	1	1	1	2	1	1	1	1	1	1	1	0	1	1	1	1	1	2	1	1.0	2.1
19-Sep	4	2	2	A	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.7	4.4
20-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4
21-Sep	0	0	1	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	1.4
22-Sep	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.6	1.0
23-Sep	1	1	0	A	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0.7	1.3
24-Sep	0	0	0	0	0	A	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0.3	0.4
25-Sep	0	0	0	0	0	A	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	0.9
26-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0.4	0.5
27-Sep	0	0	0	1	0	A	0	1	0	1	1	1	1	0	0	1	1	1	1	1	1	0	0	1	0.5	1.0
28-Sep	1	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0.9	1.3
29-Sep	1	1	0	A	1	0	0	1	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	2.9
30-Sep	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.9
0.6 0.5 0.5 0.5 0.4 0.5 0.6 0.7 0.6 0.7 0.7 0.6 0.6 0.5 0.5 0.6 0.5 0.7 0.6 0.6 0.5 0.5 0.5 0.5																								Diurnal Average		
4.4 2.3 1.8 1.4 1.4 2.6 4.6 4.1 1.6 2.5 2.9 1.5 1.5 1.5 1.5 2.0 2.3 3.9 3.4 2.2 1.5 1.5 2.1 1.4																								Diurnal Maximum		
C - Calibration A - Automated Daily Zero Span																										

Hourly Maximums for SO₂ at Henry Pirker

September 2009



Pollutant Rose for SO₂ at Henry Pirker **September 2009**



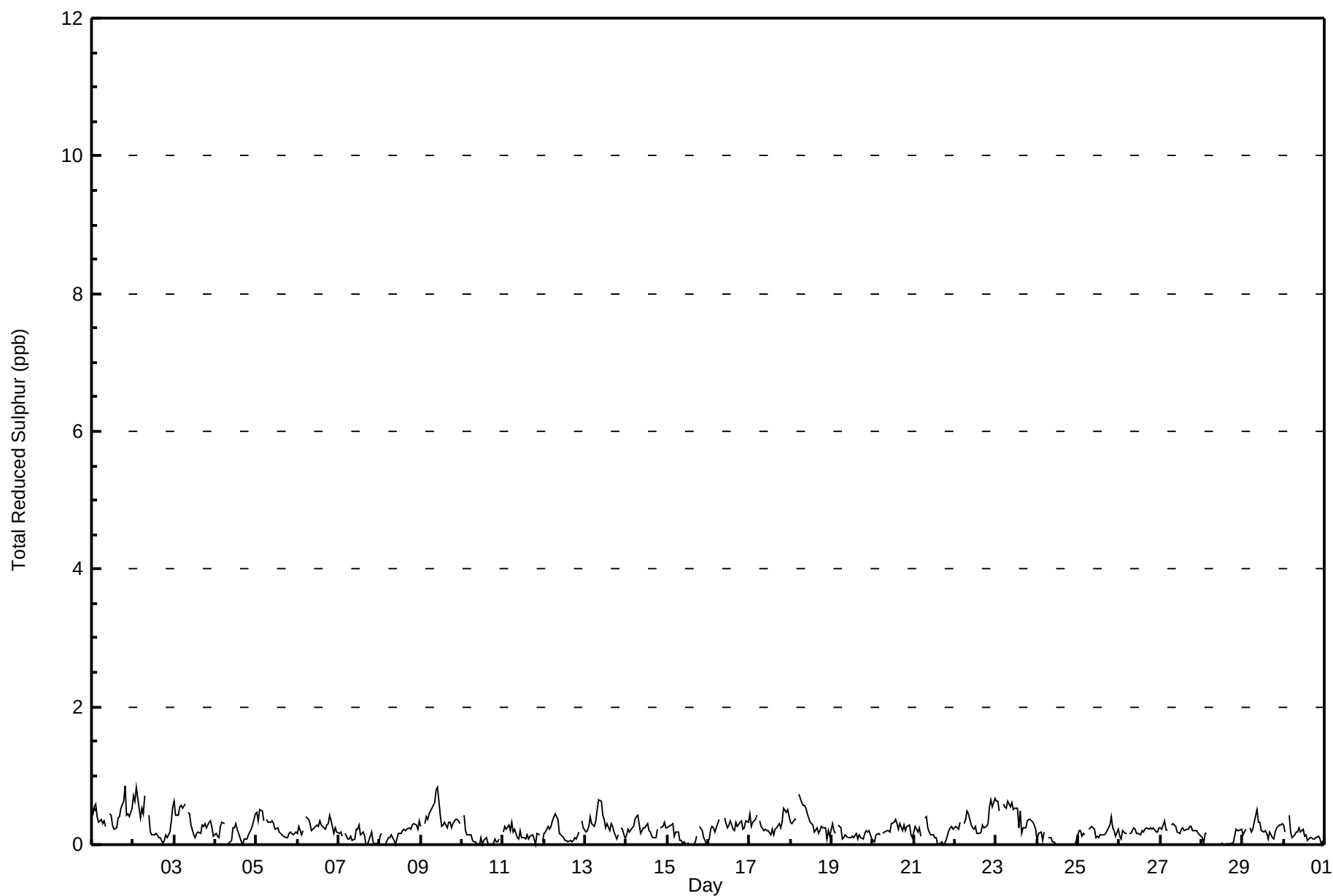
Peace Airshed Zone Association
Summary of Hourly Averages

Henry Pirker - Total Reduced Sulphur (TRS) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0																			Hours in Service: 720							
Maximum Value: 0.9 ppb on Sep 1 20:00																			Maximum Daily Average: 0.4 ppb on Sep 23		Hours of Data: 685					
Minimum Value: 0 ppb on Sep 4 08:00																			Minimum Daily Average: 0.1 ppb on Sep 24		Hours of Missing Data: 35					
Maximum Diurnal Average: 0.3 ppb at hour 6																			Minimum Diurnal Average: 0.1 ppb at hour 16		Hours of Calibration: 35					
Monthly Average: 0.23 ppb																			Percentiles: P ₁ = 0.0 P ₁₀ = 0.1 Q ₁ = 0.1 Median = 0.2 Q ₃ = 0.3 P ₉₀ = 0.4 P ₉₉ = 0.7		Percent Operational Time: 100.0					
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0.4	0.9
2-Sep	1	1	1	1	0	1	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.8
3-Sep	1	0	0	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
4-Sep	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
5-Sep	0	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
6-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
7-Sep	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
8-Sep	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	0.3
9-Sep	0	A	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8
10-Sep	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	0.4
11-Sep	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
12-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.4
13-Sep	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.6
14-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.4
15-Sep	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
16-Sep	0	0	0	0	0	0	0	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
17-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0.3	0.5
18-Sep	0	0	0	0	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7
19-Sep	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
20-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
21-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
22-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.3	0.7
23-Sep	1	1	0	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6
24-Sep	0	0	0	0	0	A	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0.1	0.2
25-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
26-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
27-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
28-Sep	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
29-Sep	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
30-Sep	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	0.4
0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2																									Diurnal Average	
0.7 0.6 0.8 0.5 0.6 0.7 0.6 0.7 0.6 0.8 0.8 0.5 0.5 0.4 0.5 0.4 0.4 0.5 0.6 0.9 0.6 0.7 0.6 0.7																									Diurnal Maximum	
C - Calibration A - Automated Daily Zero Span																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 10 ppb 24-hr 3 ppb																										

Hourly Averages for TRS at Henry Pirker

September 2009

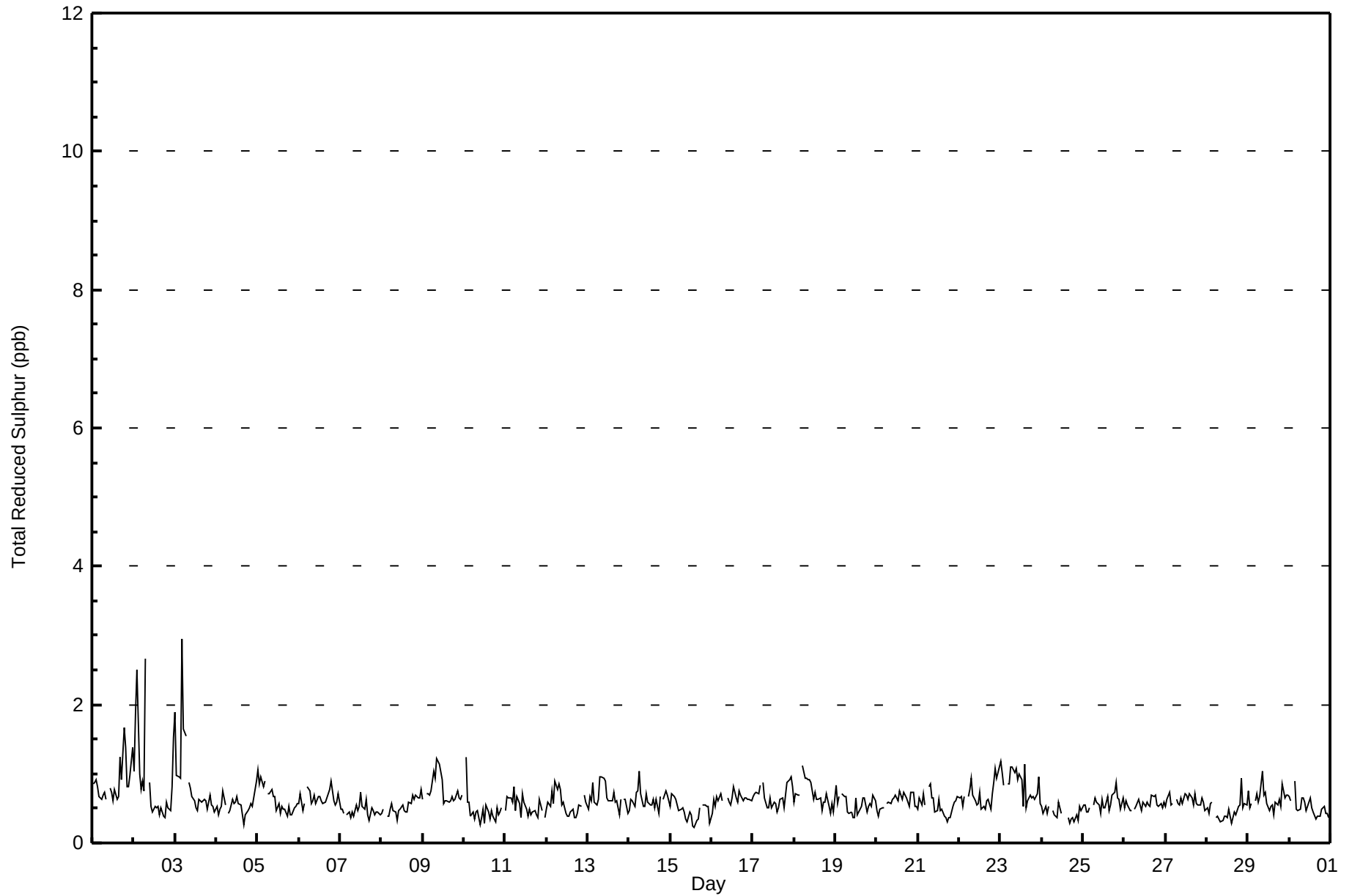


**Peace Airshed Zone Association
Summary of Hourly Maximums**

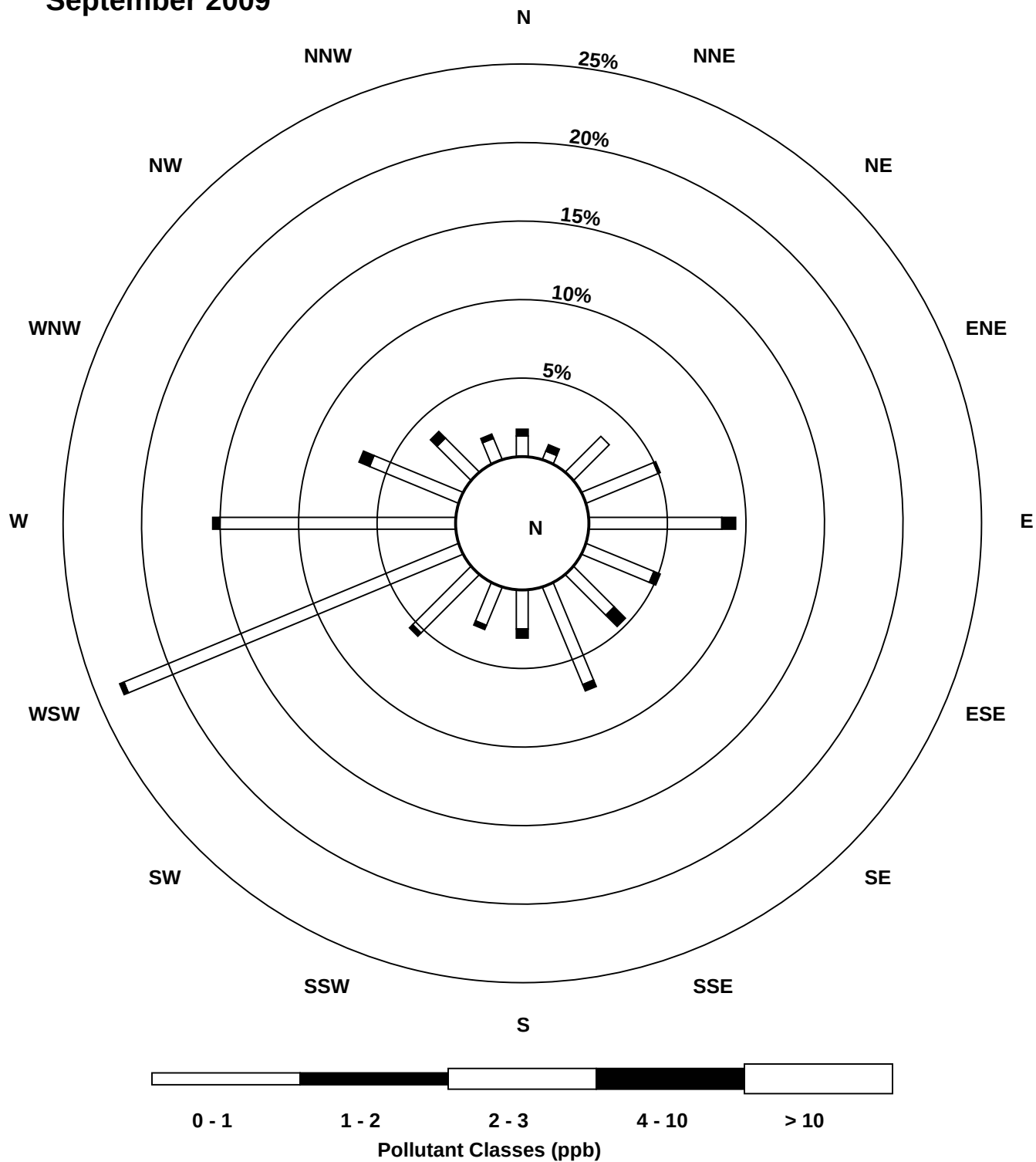
**Henry Pirker - Total Reduced Sulphur (TRS) - ppb
September 1, 2009 to October 1, 2009**

Maximum Value: 2.9 ppb on Sep 3 05:00																			Maximum Daily Average: 0.9 ppb on Sep 3																			Hours in Service: 720	
Minimum Value: 0 ppb on Sep 15 15:00																			Minimum Daily Average: 0.4 ppb on Sep 24																			Hours of Data: 685	
Maximum Diurnal Average: 0.7 ppb at hour 8																			Minimum Diurnal Average: 0.5 ppb at hour 16																			Hours of Missing Data: 35	
Monthly Average: 0.62 ppb																			Percentiles: P ₁ = 0.3 P ₁₀ = 0.4 Q ₁ = 0.5 Median = 0.6 Q ₃ = 0.7 P ₉₀ = 0.9 P ₉₉ = 1.6																			Hours of Calibration: 35	
																																						Percent Operational Time: 100.0	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24															
1-Sep	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.9	1.7													
2-Sep	1	2	3	1	1	1	1	3	A	1	1	0	1	1	1	0	1	0	0	1	0	0	1	2	0.9	2.7													
3-Sep	2	1	1	1	3	2	2	A	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	0.9	2.9													
4-Sep	1	0	0	1	1	1	A	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	0.5	0.9													
5-Sep	1	1	1	1	1	A	1	1	1	1	1	0	1	0	1	0	0	0	1	0	0	0	1	1	0.6	1.0													
6-Sep	1	1	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9													
7-Sep	0	0	0	A	0	0	0	0	0	1	0	1	1	1	0	1	0	0	1	0	0	0	0	0	0.5	0.7													
8-Sep	0	0	A	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	1	1	1	1	1	1	0.5	0.8													
9-Sep	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2													
10-Sep	A	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	A	0.5	1.2													
11-Sep	0	1	1	1	1	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0	A	0	0.5	0.8													
12-Sep	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	A	1	1	0.6	0.9													
13-Sep	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	1	1	0	0.7	1.0													
14-Sep	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	A	1	1	1	1	0.6	1.0													
15-Sep	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	A	1	1	1	1	0	0.5	0.7													
16-Sep	0	1	1	1	1	1	1	C	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8													
17-Sep	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0.7	0.9													
18-Sep	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	0.7	1.1													
19-Sep	1	1	1	A	1	1	1	0	0	0	0	0	1	0	0	1	1	1	0	1	1	1	1	1	0.6	0.8													
20-Sep	0	0	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7													
21-Sep	0	1	1	1	1	A	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	1	1	0.5	0.9													
22-Sep	1	1	1	1	A	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1	1	0.7	1.1													
23-Sep	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.2													
24-Sep	1	0	1	0	1	A	0	0	0	0	1	0	C	C	C	0	0	0	0	0	0	0	1	0	0.4	0.6													
25-Sep	1	1	0	0	1	A	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	0	1	0.6	0.9													
26-Sep	1	1	1	0	0	A	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7													
27-Sep	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.6	0.7													
28-Sep	1	0	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0.5	0.9													
29-Sep	1	1	1	A	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0.6	1.0													
30-Sep	1	1	A	1	0	0	0	1	1	1	0	1	1	1	0	0	0	0	0	0	1	0	0	0	0.5	0.9													
0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.6 0.6 0.6 0.6																								Diurnal Average															
1.9 1.9 2.5 1.0 2.9 1.6 1.6 2.7 1.2 1.2 1.1 1.0 0.9 0.8 1.1 0.7 1.2 0.9 1.7 1.4 0.9 1.1 1.0 1.5																								Diurnal Maximum															
C - Calibration A - Automated Daily Zero Span																																							

Hourly Maximums for TRS at Henry Pirker September 2009



Pollutant Rose for TRS at Henry Pirker **September 2009**

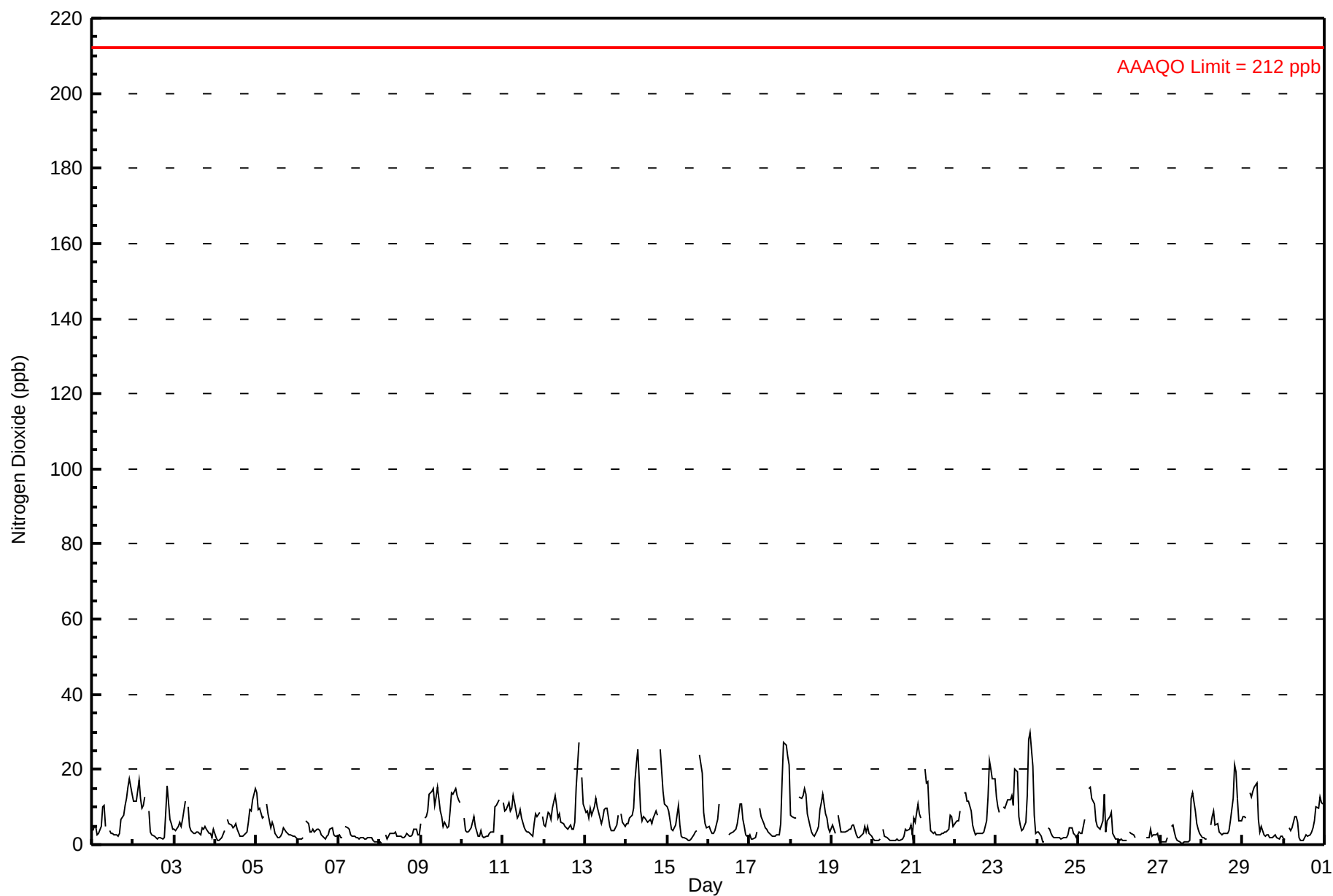


Peace Airshed Zone Association
Summary of Hourly Averages

Henry Pirker - Nitrogen Dioxide (NO₂) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0 Maximum Value: 29.8 ppb on Sep 23 21:00 Maximum Daily Average: 12.1 ppb on Sep 23																				Hours in Service: 720 Hours of Data: 679						
Minimum Value: 0 ppb on Sep 8 02:00 Maximum Diurnal Average: 10.8 ppb at hour 21 Monthly Average: 5.94 ppb										Minimum Daily Average: 2.1 ppb on Sep 20 Minimum Diurnal Average: 2.9 ppb at hour 15 Percentiles: P ₁ = 0.6 P ₁₀ = 1.6 Q ₁ = 2.5 Median = 4.2 Q ₃ = 8.1 P ₉₀ = 12.6 P ₉₉ = 25.3										Hours of Missing Data: 41 Hours of Calibration: 41 Percent Operational Time: 100.0						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	4	5	5	3	3	5	10	11	5	A	4	3	3	3	2	2	3	7	8	10	12	15	17	14	6.6	17.3
2-Sep	12	12	12	17	12	10	10	13	A	9	3	3	2	2	2	2	2	1	2	8	16	7	6	4	7.2	17.1
3-Sep	4	4	5	6	5	7	11	A	10	5	4	3	3	3	3	3	5	4	5	4	3	3	2	4	4.6	11.4
4-Sep	2	1	1	1	2	4	A	7	6	5	5	5	5	4	2	2	2	3	3	6	9	9	12	15	4.8	15.0
5-Sep	14	9	10	7	8	A	11	8	5	6	5	3	2	2	2	3	4	3	3	3	2	2	2	2	5.0	13.9
6-Sep	2	2	2	2	A	6	6	3	3	4	3	4	4	4	2	2	2	2	3	4	5	3	2	2	3.1	6.2
7-Sep	3	2	2	A	5	5	4	3	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	2.1	4.8
8-Sep	1	0	A	3	2	2	3	3	3	3	2	2	2	2	2	2	3	2	2	3	4	4	3	3	2.4	4.1
9-Sep	5	A	7	7	9	13	14	15	11	13	15	9	7	5	6	5	5	9	14	14	15	13	12	11	10.2	15.4
10-Sep	A	7	4	3	3	4	6	7	5	2	2	4	2	2	2	2	3	3	3	10	10	11	12	A	5.0	11.9
11-Sep	11	9	9	11	9	10	13	11	7	8	9	7	4	4	3	3	3	2	6	8	8	8	A	7	7.5	13.0
12-Sep	5	5	9	8	7	10	13	10	7	8	6	5	5	4	4	5	4	4	6	15	27	A	18	11	8.6	27.2
13-Sep	9	9	7	10	8	10	12	10	9	6	7	9	10	10	5	4	4	4	5	8	A	8	6	5	7.5	12.5
14-Sep	6	6	7	8	10	17	22	25	9	6	8	7	6	6	7	6	7	9	8	A	25	14	11	11	10.4	25.4
15-Sep	10	9	4	4	4	5	11	5	2	2	2	2	1	1	1	3	3	4	A	24	19	9	6	5	5.8	23.8
16-Sep	5	4	3	3	4	7	11	C	C	C	C	C	3	3	3	4	4	6	11	11	7	5	3	2	5.1	11.0
17-Sep	2	1	2	2	3	A	10	8	6	5	4	3	3	2	2	2	3	3	5	17	27	26	24	21	7.9	27.2
18-Sep	8	7	7	7	A	13	12	13	15	14	8	5	3	3	2	4	5	9	11	13	8	7	4	3	8.0	14.8
19-Sep	5	4	3	A	8	3	3	3	3	4	4	4	5	5	2	2	2	2	3	5	3	5	3	2	3.7	7.7
20-Sep	2	1	1	1	2	A	4	2	2	2	1	1	1	1	1	1	1	1	2	4	4	4	5	3	2.1	5.1
21-Sep	7	6	11	8	7	A	20	17	17	9	4	3	3	3	2	3	3	3	3	3	4	8	8	5	6.8	20.0
22-Sep	6	6	6	9	A	14	14	12	12	9	5	4	3	3	3	3	3	3	6	13	22	20	18	17	9.2	22.5
23-Sep	13	10	8	A	10	10	11	12	12	13	10	20	19	8	5	4	4	6	13	28	30	21	8	3	12.1	29.8
24-Sep	3	3	2	1	1	A	5	4	3	2	2	2	2	2	1	2	2	2	3	4	5	3	3	2	2.5	4.7
25-Sep	3	3	3	5	7	A	15	15	12	11	6	5	5	4	6	14	3	6	8	9	3	2	1	1	6.4	15.3
26-Sep	1	1	1	1	1	A	3	3	2	2	C	C	C	C	C	C	2	2	4	2	3	3	3	1	--	4.1
27-Sep	1	1	1	1	2	A	5	5	3	2	1	1	1	1	1	1	1	1	12	14	9	6	4	3	3.2	13.7
28-Sep	2	2	2	1	A	5	7	9	5	5	3	3	3	3	3	3	4	6	12	21	20	12	6	6	6.3	21.1
29-Sep	8	8	7	A	14	13	14	15	16	7	3	5	3	2	3	3	2	2	2	3	2	2	2	2	5.9	16.4
30-Sep	1	1	A	4	4	5	7	7	6	2	1	1	2	3	2	3	3	4	6	10	10	13	11	11	5.1	12.6
5.3 4.8 5.0 5.2 5.7 8.0 9.9 9.1 7.1 5.8 4.7 4.4 3.9 3.3 2.9 3.1 3.1 3.9 6.0 9.5 10.8 8.4 7.3 6.1																								Diurnal Average		
13.9 11.6 11.7 17.1 13.8 17.1 21.7 25.3 16.9 13.6 15.4 20.0 19.3 9.6 6.6 13.5 7.2 9.2 13.8 27.8 29.8 26.5 23.6 21.3																								Diurnal Maximum		
C - Calibration A - Automated Daily Zero Span																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 212 ppb 24-hr 106 ppb																										

Hourly Averages for NO₂ at Henry Pirker September 2009

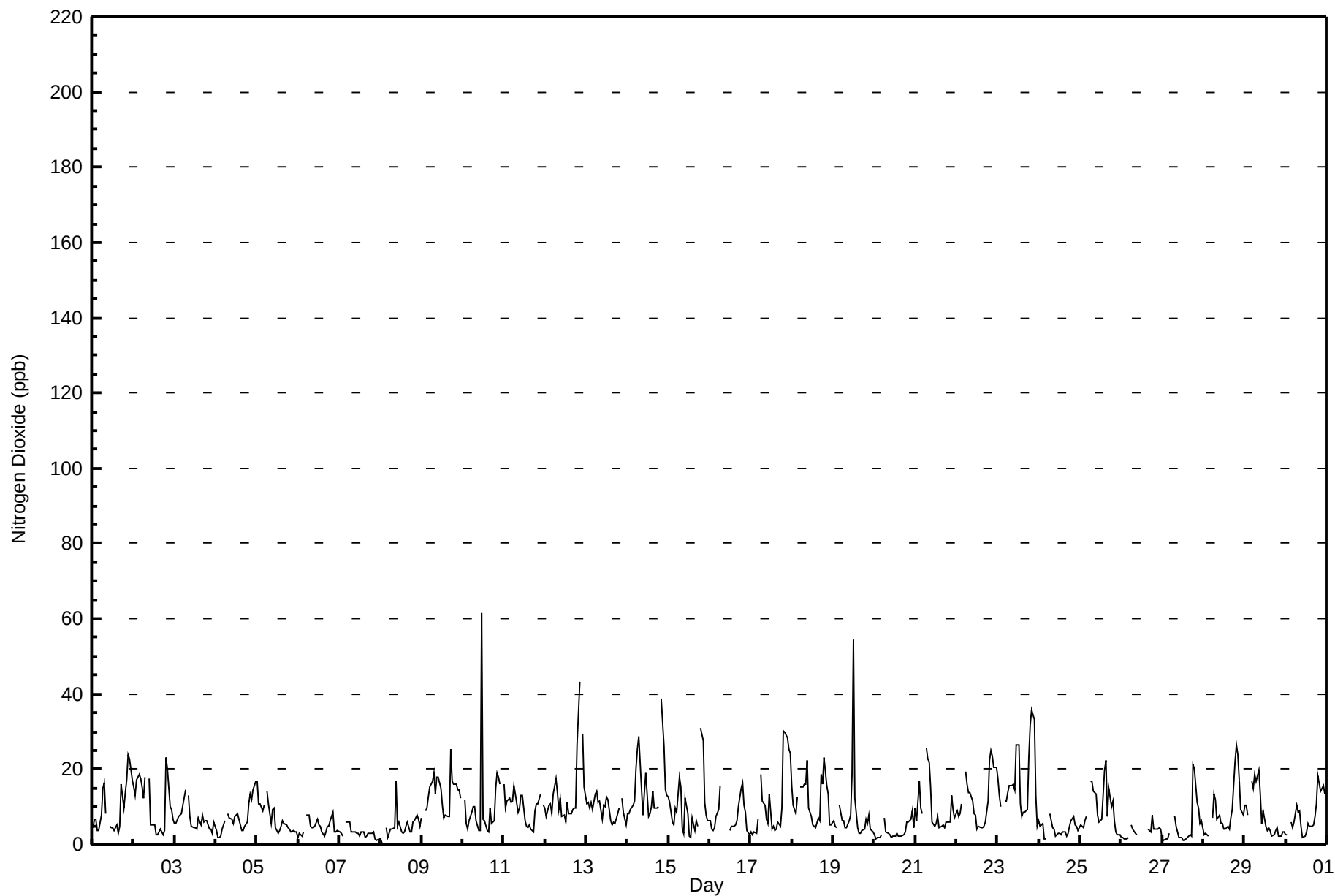


Peace Airshed Zone Association
Summary of Hourly Maximums

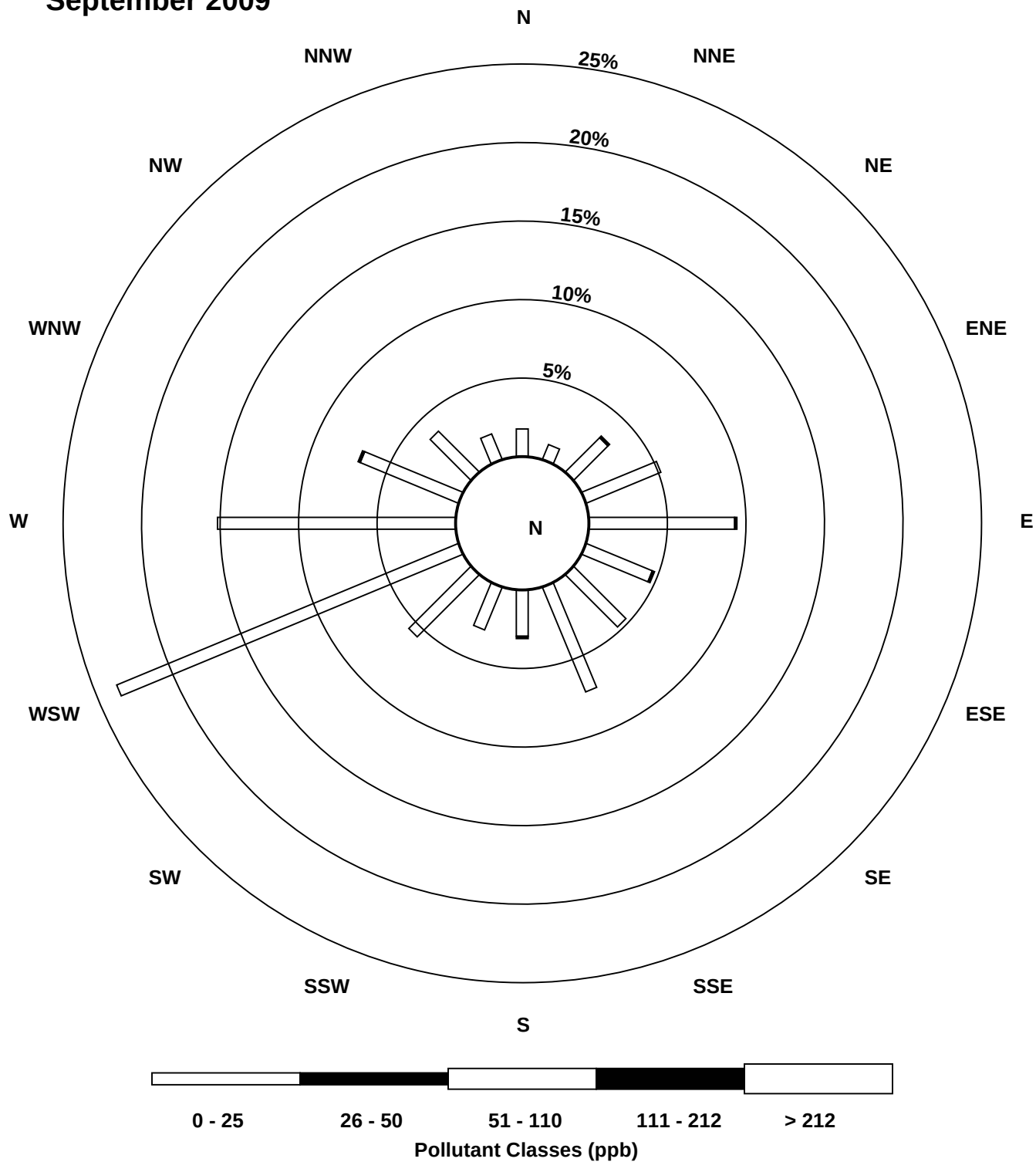
Henry Pirker - Nitrogen Dioxide (NO₂) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 61.7 ppb on Sep 10 12:00																				Maximum Daily Average: 16.4 ppb on Sep 23					Hours in Service: 720	
Minimum Value: 0 ppb on Sep 8 02:00																				Minimum Daily Average: 3.1 ppb on Sep 7					Hours of Data: 679	
Maximum Diurnal Average: 15.0 ppb at hour 21																				Minimum Diurnal Average: 5.4 ppb at hour 17					Hours of Missing Data: 41	
Monthly Average: 8.85 ppb																				Percentiles: P ₁ = 1.4 P ₁₀ = 2.7 Q ₁ = 4.2 Median = 6.7 Q ₃ = 11.4 P ₉₀ = 17.2 P ₉₉ = 31.4					Hours of Calibration: 41	
																									Percent Operational Time: 100.0	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	5	7	7	4	4	8	15	16	8	A	5	4	4	4	5	3	5	16	10	14	17	24	23	17	9.7	23.8
2-Sep	15	13	17	19	18	15	12	18	A	17	5	5	5	3	3	3	4	3	4	23	20	10	9	7	10.8	23.0
3-Sep	6	6	7	8	8	10	14	A	13	7	5	4	4	4	7	5	8	6	6	6	4	4	3	6	6.7	14.4
4-Sep	4	2	2	2	4	6	A	8	7	7	6	7	8	8	5	4	4	5	6	11	13	12	15	17	7.1	16.8
5-Sep	17	11	11	9	10	A	14	11	6	9	10	4	3	4	5	7	6	5	4	4	3	4	3	3	7.1	16.8
6-Sep	2	3	2	3	A	8	8	5	4	4	5	7	5	5	3	2	3	5	5	6	9	3	3	4	4.6	8.6
7-Sep	3	3	2	A	6	6	6	3	3	3	3	3	2	3	3	2	2	3	3	3	3	1	1	1	3.1	5.9
8-Sep	1	0	A	4	2	3	4	4	4	17	5	6	3	3	3	5	6	3	3	6	6	8	7	5	4.8	16.8
9-Sep	7	A	9	10	13	15	17	19	13	18	18	15	10	7	8	7	7	25	17	16	16	14	14	12	13.4	25.4
10-Sep	A	12	5	4	6	8	10	10	6	4	4	62	7	6	4	3	10	6	6	15	19	18	16	A	11.0	61.7
11-Sep	16	10	11	12	11	11	16	13	8	10	13	13	6	5	4	5	4	3	9	11	11	13	A	11	9.9	16.1
12-Sep	10	8	10	11	8	13	18	14	9	12	7	8	6	11	8	8	9	10	10	27	43	A	29	15	13.2	43.1
13-Sep	11	11	10	11	9	13	14	11	12	7	10	10	13	12	6	5	6	6	8	10	A	12	9	5	9.6	14.2
14-Sep	8	8	9	10	12	20	26	29	15	8	14	19	7	8	10	14	10	10	10	A	39	26	15	13	14.7	38.6
15-Sep	13	11	6	5	10	9	18	15	5	3	12	8	2	2	7	4	6	5	A	31	28	11	8	6	9.7	30.9
16-Sep	6	4	4	4	8	9	16	C	C	C	C	C	4	5	5	5	6	10	15	16	10	9	4	3	7.5	16.4
17-Sep	3	3	3	3	7	A	19	12	10	7	6	13	4	5	4	4	6	5	10	30	30	28	25	24	11.3	30.2
18-Sep	16	10	8	13	A	15	15	16	16	22	10	7	5	5	4	7	6	19	16	23	16	13	5	5	11.9	23.2
19-Sep	6	5	4	A	10	6	6	4	4	6	8	19	54	12	5	3	3	4	4	7	5	8	4	3	8.4	54.4
20-Sep	2	1	2	2	2	A	7	3	3	2	2	2	2	3	2	2	2	3	3	6	6	7	9	4	3.5	8.8
21-Sep	10	6	17	10	8	A	26	23	22	15	6	5	6	7	4	5	5	4	6	6	6	13	9	7	9.9	25.8
22-Sep	9	7	8	11	A	19	16	14	14	11	8	8	4	5	4	4	5	6	11	22	25	23	21	20	12.1	24.9
23-Sep	17	13	10	A	11	11	14	16	16	16	14	26	26	11	7	9	8	9	23	32	36	33	13	5	16.4	35.8
24-Sep	6	5	5	1	1	A	8	6	4	4	2	3	3	3	3	3	2	3	5	6	7	5	5	4	4.3	8.3
25-Sep	5	5	4	6	7	A	17	17	14	13	8	6	6	7	20	22	7	15	10	11	6	3	2	2	9.4	22.4
26-Sep	2	2	1	1	2	A	5	4	3	3	C	C	C	C	C	C	4	3	8	4	4	4	5	4	--	8.0
27-Sep	2	1	2	2	3	A	7	7	5	4	2	2	1	1	2	2	3	2	21	20	11	10	6	6	5.3	21.3
28-Sep	3	3	3	2	A	7	13	12	7	8	6	6	4	4	5	4	7	9	22	27	24	17	9	8	9.1	26.6
29-Sep	10	10	8	A	17	15	19	17	20	13	5	9	5	4	4	4	2	2	4	4	2	2	3	3	8.0	19.8
30-Sep	3	2	A	6	4	6	10	8	9	5	2	2	3	6	5	5	5	7	11	18	14	15	16	13	7.7	18.3
																									Diurnal Average	
																									Diurnal Maximum	
C - Calibration																									A - Automated Daily Zero Span	

Hourly Maximums for NO₂ at Henry Pirker September 2009



Pollutant Rose for NO₂ at Henry Pirker **September 2009**



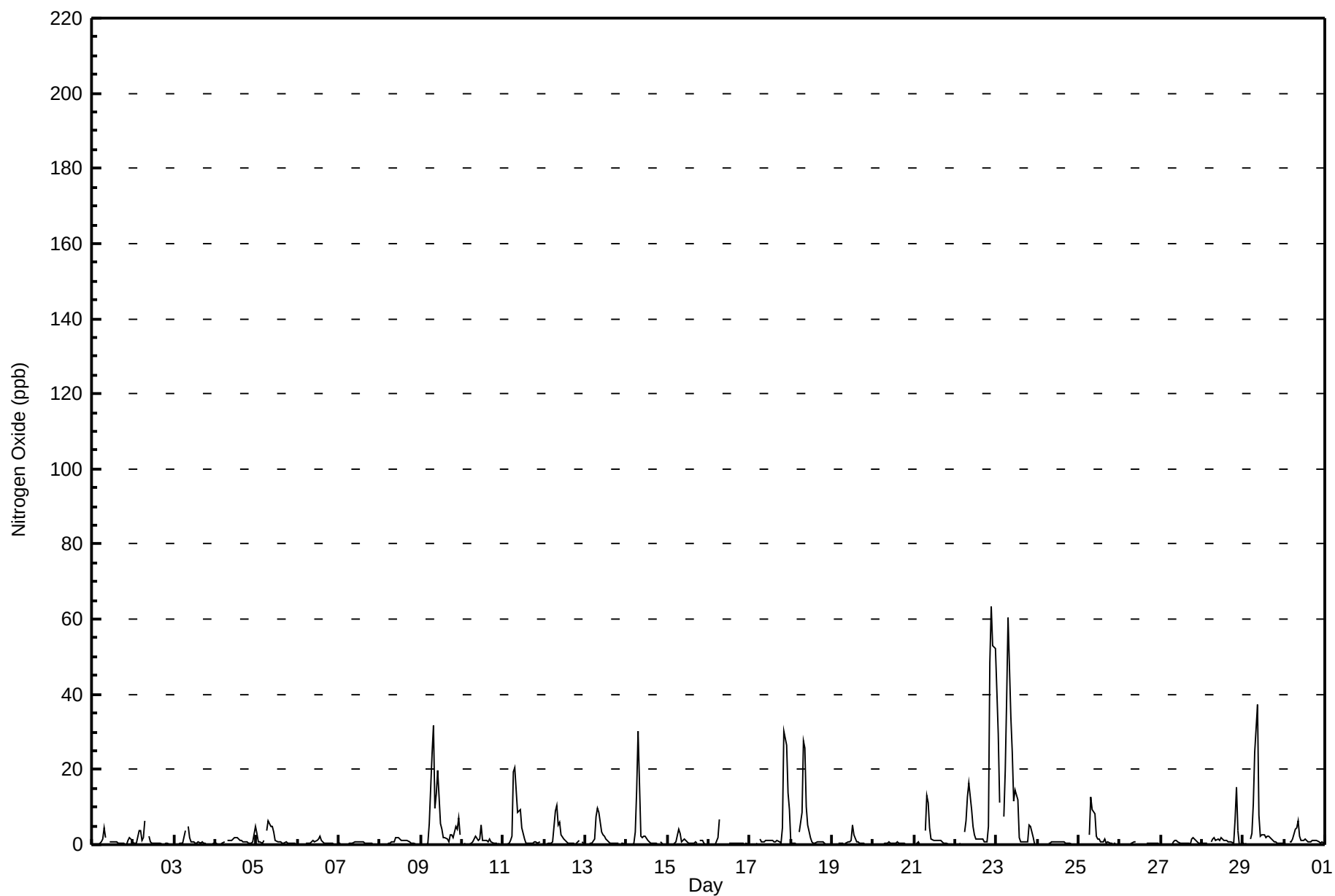
Peace Airshed Zone Association
Summary of Hourly Averages

Henry Pirker - Nitrogen Oxide (NO) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 63.3 ppb on Sep 22 22:00																				Maximum Daily Average: 14.0 ppb on Sep 23					Hours in Service: 720	
Minimum Value: 0 ppb on Sep 1 01:00																				Minimum Daily Average: 0.2 ppb on Sep 20					Hours of Data: 679	
Maximum Diurnal Average: 10.3 ppb at hour 8																				Minimum Diurnal Average: 0.3 ppb at hour 4					Hours of Missing Data: 41	
Monthly Average: 2.49 ppb																				Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.2 Median = 0.5 Q ₃ = 1.4 P ₉₀ = 5.1 P ₉₉ = 38.0					Hours of Calibration: 41	
																									Percent Operational Time: 100.0	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	0	0	0	0	0	1	2	4	2	A	1	1	1	1	1	0	0	0	0	0	0	1	2	1	0.8	4.4
2-Sep	0	0	0	4	4	1	2	6	A	2	1	1	1	0	0	0	0	0	0	1	0	0	0	0	1.1	6.4
3-Sep	0	0	0	0	0	0	4	A	5	2	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0.7	5.0
4-Sep	0	0	0	0	0	1	A	1	1	1	2	2	2	2	1	1	1	1	1	0	1	0	1	5	1.0	4.8
5-Sep	3	1	1	0	1	A	4	6	5	5	3	1	1	1	1	0	1	1	0	0	0	0	0	0	1.5	6.4
6-Sep	0	0	0	0	A	0	0	0	1	1	1	1	2	2	1	0	0	0	0	1	0	0	0	0	0.5	2.3
7-Sep	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	0.9
8-Sep	0	0	A	0	0	0	0	1	1	2	2	2	1	1	1	1	1	1	0	0	0	0	0	0	0.7	2.0
9-Sep	0	A	0	0	0	6	24	32	10	13	20	6	4	2	2	1	1	3	3	2	5	4	7	3	6.4	31.9
10-Sep	A	0	0	0	0	0	1	2	2	1	1	5	1	1	1	1	2	1	1	0	0	0	0	A	1.0	5.3
11-Sep	0	0	0	1	1	2	19	20	9	9	9	5	2	1	0	1	0	0	1	1	1	1	A	0	3.6	20.4
12-Sep	0	0	0	0	0	1	9	11	5	6	3	1	1	1	1	1	1	0	0	0	1	A	1	0	1.9	10.6
13-Sep	0	0	0	0	0	1	8	10	9	4	3	2	2	1	0	0	0	1	0	0	A	0	0	0	1.9	9.7
14-Sep	0	0	0	0	0	3	15	30	2	2	2	2	1	1	1	0	0	0	0	A	1	0	0	0	2.7	30.4
15-Sep	0	0	0	0	0	1	4	3	1	1	1	1	0	0	0	1	1	0	A	1	1	0	0	0	0.8	4.2
16-Sep	0	0	0	0	0	2	7	C	C	C	C	C	1	0	0	0	0	0	0	0	0	0	0	0	0.7	6.6
17-Sep	0	0	0	0	0	A	1	1	1	1	1	1	1	1	1	1	1	1	0	4	30	26	14	9	4.2	30.4
18-Sep	1	0	0	0	A	3	9	28	26	10	5	2	1	1	1	1	1	1	1	1	0	0	0	0	3.9	27.5
19-Sep	0	0	0	A	0	0	0	0	0	1	1	1	5	3	1	1	0	0	0	0	0	0	0	0	0.6	5.4
20-Sep	0	0	0	0	0	A	0	0	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0.2	0.6
21-Sep	0	0	1	0	0	A	4	13	11	4	2	1	1	1	1	1	1	0	0	0	0	0	0	0	1.8	13.0
22-Sep	0	0	0	0	A	3	6	13	16	9	5	3	2	2	2	2	1	1	1	5	49	63	53	52	12.5	63.3
23-Sep	41	30	11	A	7	20	39	60	34	25	11	15	12	2	1	1	1	1	1	5	5	2	0	0	14.0	60.4
24-Sep	0	0	0	0	0	A	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.3	0.7
25-Sep	0	0	0	0	0	A	3	13	9	8	2	1	2	1	1	1	0	1	0	1	0	0	0	0	1.9	12.5
26-Sep	0	0	0	0	0	A	0	0	1	1	C	C	C	C	C	C	0	0	0	0	0	0	0	0	--	0.6
27-Sep	0	0	0	0	0	A	0	1	1	1	1	0	0	0	0	0	0	0	1	2	1	1	1	0	0.5	1.9
28-Sep	0	0	0	0	A	1	2	2	1	1	1	2	1	1	1	1	1	1	0	7	15	4	0	0	1.9	15.2
29-Sep	0	0	0	A	2	3	11	24	37	8	2	3	2	2	2	2	2	1	1	1	0	0	0	0	4.6	37.4
30-Sep	0	0	A	1	1	2	4	5	6	2	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1.5	6.4
1.6 1.1 0.5 0.3 0.7 2.4 6.1 10.3 7.1 4.4 3.0 2.2 1.7 1.0 0.8 0.7 0.7 0.6 0.6 1.2 3.9 3.6 2.8 2.5																									Diurnal Average	
41.1 29.6 11.4 3.8 7.5 19.9 38.7 60.4 37.4 24.6 19.7 14.6 12.1 2.8 2.1 2.2 1.8 2.6 2.7 6.5 48.6 63.3 52.8 52.4																									Diurnal Maximum	
C - Calibration A - Automated Daily Zero Span																										

Hourly Averages for NO at Henry Pirker

September 2009



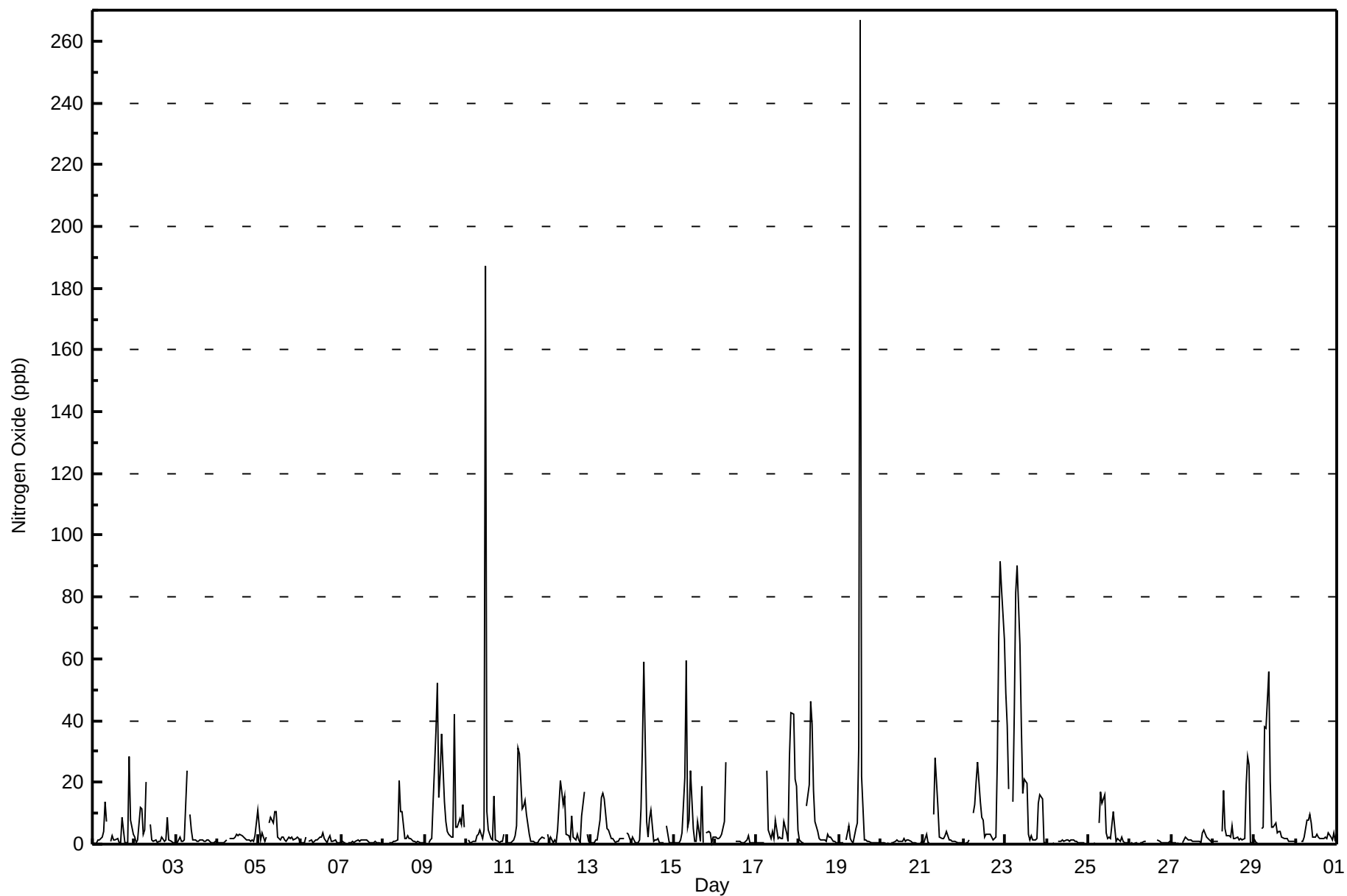
Peace Airshed Zone Association
Summary of Hourly Maximums

Henry Pirker - Nitrogen Oxide (NO) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 266.7 ppb on Sep 19 13:00																				Maximum Daily Average: 23.9 ppb on Sep 23					Hours in Service: 720	
Minimum Value: 0 ppb on Sep 22 01:00																				Minimum Daily Average: 0.7 ppb on Sep 20					Hours of Data: 679	
Maximum Diurnal Average: 19.4 ppb at hour 8																				Minimum Diurnal Average: 1.3 ppb at hour 4					Hours of Missing Data: 41	
Monthly Average: 6.17 ppb																				Percentiles: P ₁ = 0.0 P ₁₀ = 0.5 Q ₁ = 0.5 Median = 1.5 Q ₃ = 4.0 P ₉₀ = 15.6 P ₉₉ = 62.3					Hours of Calibration: 41	
																									Percent Operational Time: 100.0	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	0	0	0	1	1	2	4	14	7	A	1	3	1	1	2	1	1	9	1	0	0	28	8	3	3.9	28.2
2-Sep	3	1	2	12	12	3	4	20	A	7	1	1	2	1	1	1	2	1	1	9	2	1	1	0	3.7	20.2
3-Sep	0	0	3	1	1	1	24	A	10	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2.6	24.0
4-Sep	1	1	1	1	1	1	A	2	2	2	2	3	3	3	3	2	2	2	1	1	1	1	3	11	2.1	10.9
5-Sep	6	1	3	1	3	A	7	9	7	10	11	2	1	2	2	2	1	3	2	2	1	2	2	2	3.6	10.5
6-Sep	1	1	1	2	A	1	2	1	1	1	2	2	2	3	2	1	2	3	1	1	1	1	1	1	1.4	3.5
7-Sep	1	1	1	A	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1	1	1	1	0	0	0.8	1.5
8-Sep	0	0	A	0	1	1	1	1	2	20	11	11	2	2	3	2	2	1	1	1	1	1	1	1	2.7	20.4
9-Sep	0	A	0	2	2	14	36	52	15	23	36	14	8	4	3	2	2	42	6	6	8	7	13	6	13.0	52.3
10-Sep	A	2	1	0	1	1	3	3	5	2	5	187	10	5	2	1	16	1	1	0	1	1	3	A	11.5	187.3
11-Sep	0	0	0	1	3	6	31	29	12	12	14	9	3	1	1	1	1	1	1	2	3	2	A	3	6.0	31.0
12-Sep	1	2	1	2	1	5	20	17	13	16	3	3	1	9	2	2	3	1	1	9	17	A	3	1	5.7	20.4
13-Sep	1	0	1	1	1	8	15	17	15	5	4	3	2	2	1	1	1	2	2	2	A	3	3	0	3.9	16.5
14-Sep	2	2	0	1	1	11	31	59	8	3	8	11	1	1	2	2	1	1	1	A	6	1	0	0	6.6	59.0
15-Sep	0	1	0	1	1	3	22	59	5	8	24	5	1	1	7	1	19	1	A	4	4	4	1	2	7.6	59.3
16-Sep	2	2	2	2	3	7	27	C	C	C	C	C	1	1	1	1	1	1	1	3	0	0	1	0	3.0	26.6
17-Sep	0	1	0	0	1	A	24	5	2	4	2	8	2	2	2	2	7	4	1	28	42	42	21	19	9.5	42.5
18-Sep	4	2	1	0	A	13	19	46	39	17	7	4	2	1	1	1	1	3	2	2	1	1	0	1	7.4	46.0
19-Sep	0	0	0	A	1	6	2	1	0	5	7	31	267	22	1	1	1	1	0	0	0	0	0	0	15.3	266.7
20-Sep	0	0	0	0	0	A	1	1	1	1	1	1	1	2	1	1	2	1	1	1	0	0	0	0	0.7	1.7
21-Sep	1	0	3	1	0	A	10	28	20	12	2	2	2	3	4	1	1	1	1	1	0	0	0	0	4.2	28.1
22-Sep	0	0	0	1	A	10	13	20	27	14	9	8	2	3	3	3	2	2	2	28	67	92	82	66	19.7	91.6
23-Sep	49	38	18	A	14	42	82	90	65	38	17	21	20	3	2	3	1	1	2	13	16	15	0	0	23.9	90.2
24-Sep	0	0	0	0	0	A	1	1	1	2	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0.8	1.5
25-Sep	0	0	0	0	0	A	7	17	13	16	4	2	3	2	10	6	1	2	1	3	1	1	0	0	3.9	17.0
26-Sep	0	1	0	0	0	A	1	1	1	1	C	C	C	C	C	C	1	1	1	1	1	1	1	1	--	1.4
27-Sep	1	1	1	0	0	A	0	2	2	2	1	1	1	1	1	1	1	0	3	5	2	2	1	1	1.4	4.6
28-Sep	1	1	1	1	A	4	18	5	3	3	2	6	2	2	2	1	2	1	2	19	28	26	0	0	5.7	28.2
29-Sep	1	0	1	A	5	5	38	37	56	20	5	5	7	4	4	4	2	2	2	2	1	1	1	1	9.0	56.0
30-Sep	1	1	A	1	1	2	8	8	10	7	2	2	3	2	2	2	2	2	2	3	2	1	3	1	3.1	9.5
																									Diurnal Average	
																									Diurnal Maximum	
C - Calibration																										
A - Automated Daily Zero Span																										

Hourly Maximums for NO at Henry Pirker

September 2009

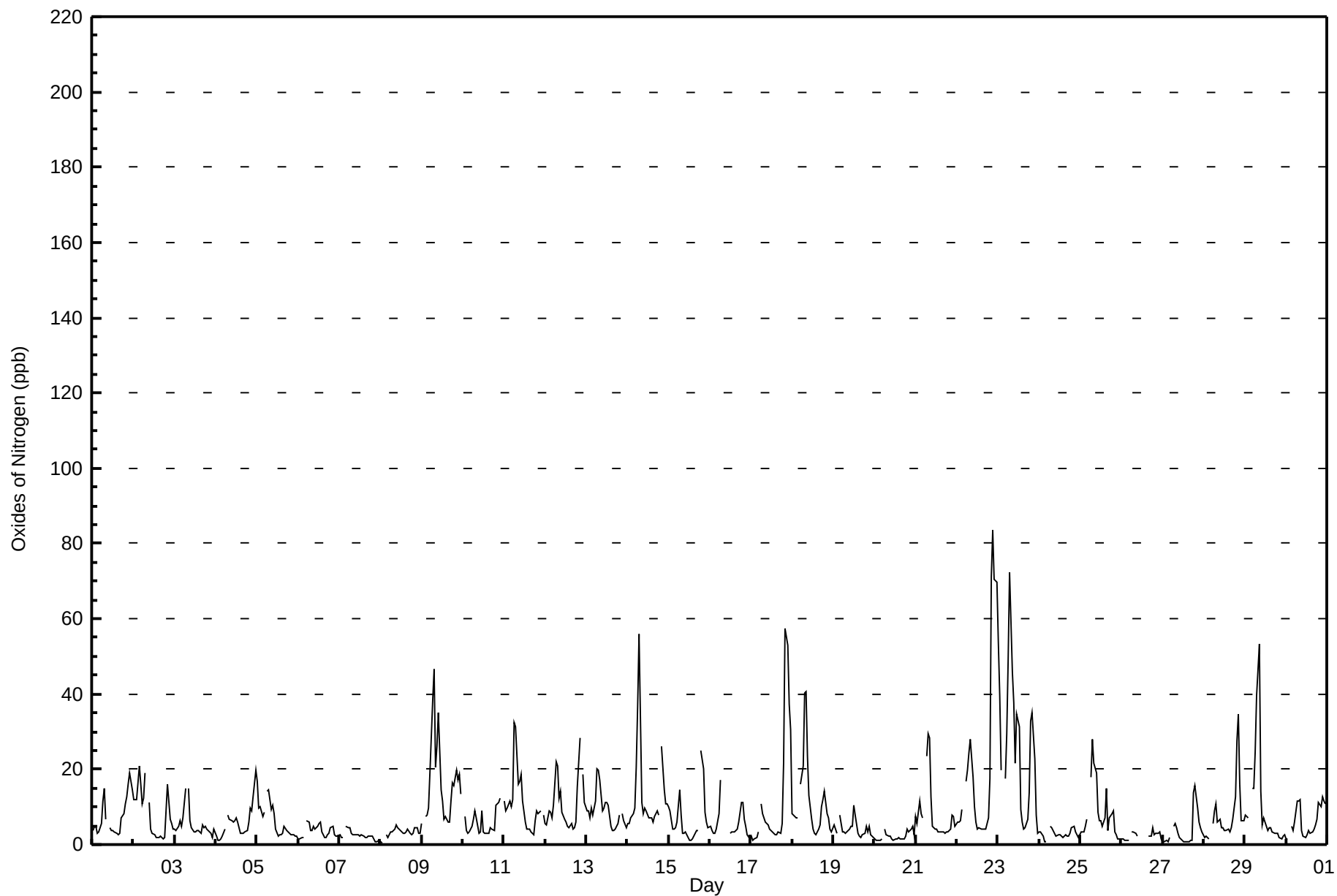


Peace Airshed Zone Association
Summary of Hourly Averages

Henry Pirker - Oxides of Nitrogen (NO_x) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 83.5 ppb on Sep 22 22:00																				Maximum Daily Average: 26.1 ppb on Sep 23					Hours in Service: 720	
Minimum Value: 0 ppb on Sep 8 02:00																				Minimum Daily Average: 2.2 ppb on Sep 20					Hours of Data: 679	
Maximum Diurnal Average: 19.3 ppb at hour 8																				Minimum Diurnal Average: 3.6 ppb at hour 15					Hours of Missing Data: 41	
Monthly Average: 8.35 ppb																				Percentiles: P ₁ = 0.8 P ₁₀ = 1.9 Q ₁ = 3.0 Median = 4.7 Q ₃ = 9.5 P ₉₀ = 18.4 P ₉₉ = 55.3					Hours of Calibration: 41	
																									Percent Operational Time: 100.0	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	4	5	5	3	3	6	12	15	7	A	4	4	4	3	3	3	3	7	8	11	13	16	19	15	7.4	19.2
2-Sep	12	12	12	21	16	11	12	19	A	11	4	3	3	2	2	2	2	1	2	9	16	7	6	4	8.2	20.9
3-Sep	4	4	5	6	5	7	15	A	15	6	4	4	3	4	4	3	5	4	5	4	3	3	2	4	5.2	14.9
4-Sep	2	1	1	2	2	4	A	8	7	6	6	6	7	6	3	3	3	3	4	6	10	9	13	20	5.8	19.8
5-Sep	17	10	10	8	8	A	14	14	9	11	8	4	2	3	3	3	5	4	3	3	3	3	2	2	6.4	16.7
6-Sep	2	2	2	2	A	6	6	4	4	5	4	5	6	6	3	2	2	3	3	4	5	3	2	2	3.5	6.4
7-Sep	3	2	2	A	5	5	4	3	3	3	3	3	2	3	2	2	2	2	2	2	1	1	1	1	2.4	4.9
8-Sep	1	0	A	3	2	2	3	4	4	5	4	4	3	3	3	3	4	3	3	3	4	4	3	3	3.1	5.3
9-Sep	6	A	7	8	10	19	39	47	20	26	35	14	11	7	7	6	6	12	16	16	20	17	19	14	16.6	46.8
10-Sep	A	8	4	3	3	5	7	9	7	3	3	9	3	3	3	3	5	4	4	10	11	11	12	A	5.9	12.1
11-Sep	11	9	10	12	10	12	32	31	16	17	19	12	6	4	4	4	3	3	6	9	8	9	A	8	11.0	32.3
12-Sep	6	5	9	9	7	10	22	21	12	14	9	7	6	5	4	6	4	4	6	15	28	A	19	11	10.4	28.3
13-Sep	9	9	7	10	8	11	20	20	17	9	10	11	11	11	5	4	4	4	5	8	A	8	6	5	9.2	20.0
14-Sep	6	6	7	8	10	21	36	56	11	8	10	9	7	7	7	6	8	9	8	A	26	14	11	11	13.1	55.8
15-Sep	10	9	4	4	5	6	15	8	3	3	3	2	1	1	2	3	4	4	A	25	20	9	6	5	6.5	24.9
16-Sep	5	4	3	3	4	8	17	C	C	C	C	C	3	3	3	4	4	6	11	11	7	5	3	2	5.6	17.2
17-Sep	2	1	1	2	3	A	11	8	6	6	5	4	3	3	3	3	3	3	6	22	57	53	37	30	11.9	57.5
18-Sep	8	8	7	7	A	16	21	40	40	23	13	7	4	3	3	4	5	10	12	14	8	7	4	3	11.7	40.5
19-Sep	5	4	3	A	8	3	3	3	3	4	5	5	10	8	3	2	2	3	3	5	3	5	3	2	4.1	10.5
20-Sep	2	1	1	1	1	A	4	3	2	2	1	1	2	2	2	2	2	2	2	4	4	4	5	3	2.2	5.0
21-Sep	7	6	11	8	7	A	24	29	28	13	5	4	4	3	3	3	3	3	3	3	4	8	7	5	8.4	29.5
22-Sep	6	6	6	9	A	17	20	24	28	18	10	6	4	4	4	4	4	4	7	18	71	83	70	70	21.5	83.5
23-Sep	54	40	20	A	18	30	49	72	46	38	22	35	31	9	6	4	5	7	14	33	35	23	8	3	26.1	72.3
24-Sep	3	3	2	1	1	A	5	4	4	3	2	3	2	2	2	2	2	2	3	5	5	3	3	2	2.8	4.8
25-Sep	3	3	3	5	7	A	18	28	22	19	9	6	6	5	7	15	4	7	8	9	3	3	1	1	8.4	27.9
26-Sep	1	1	1	1	1	A	3	3	3	2	C	C	C	C	C	C	2	2	4	3	3	3	3	2	--	4.4
27-Sep	1	1	1	1	2	A	5	6	4	3	2	1	1	1	1	1	1	1	14	16	10	6	4	3	3.7	15.5
28-Sep	2	2	2	1	A	6	9	11	6	7	4	5	4	4	4	4	4	7	13	28	35	16	6	6	8.0	34.5
29-Sep	8	7	7	A	15	15	25	40	53	14	5	7	5	4	4	4	3	3	3	3	2	2	2	2	10.2	53.5
30-Sep	2	1	A	5	4	6	11	12	12	4	2	2	3	4	3	3	4	5	7	11	10	13	12	11	6.3	12.8
6.9 5.8 5.5 5.4 6.4 10.3 15.9 19.3 14.1 10.1 7.6 6.5 5.5 4.2 3.6 3.7 3.6 4.4 6.4 10.6 14.7 12.0 10.0 8.6																								Diurnal Average		
53.7 39.7 19.8 20.9 17.6 29.6 49.3 72.3 53.5 37.5 35.1 34.6 31.5 10.6 7.5 15.1 7.6 11.6 16.5 33.0 71.1 83.5 70.5 69.7																								Diurnal Maximum		
C - Calibration A - Automated Daily Zero Span																										

Hourly Averages for NO_x at Henry Pirker September 2009

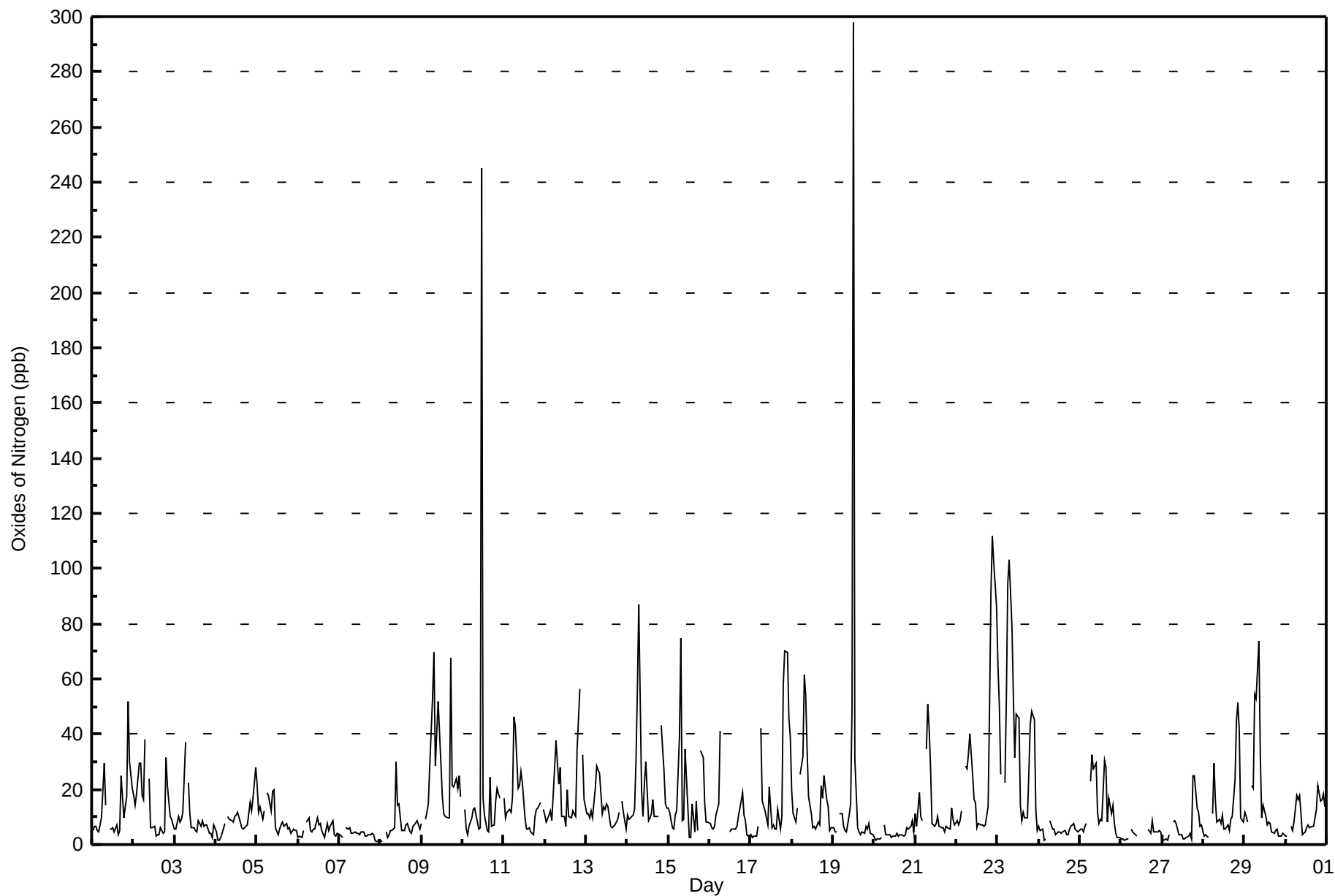


Peace Airshed Zone Association
Summary of Hourly Maximums

Henry Pirker - Oxides of Nitrogen (NO_x) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 298.0 ppb on Sep 19 13:00																				Maximum Daily Average: 39.4 ppb on Sep 23					Hours in Service: 720	
Minimum Value: 1 ppb on Sep 8 02:00																				Minimum Daily Average: 3.7 ppb on Sep 7					Hours of Data: 679	
Maximum Diurnal Average: 30.9 ppb at hour 8																				Minimum Diurnal Average: 7.1 ppb at hour 16					Hours of Missing Data: 41	
Monthly Average: 14.53 ppb																				Percentiles: P ₁ = 1.6 P ₁₀ = 3.4 Q ₁ = 5.2 Median = 8.1 Q ₃ = 15.6 P ₉₀ = 31.1 P ₉₉ = 89.9					Hours of Calibration: 41	
																				Percent Operational Time: 100.0						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	5	7	7	5	5	10	19	30	14	A	5	6	6	5	7	4	5	25	10	14	17	52	30	20	13.4	52.0
2-Sep	18	14	18	30	29	18	16	38	A	24	6	6	7	3	3	4	6	4	5	32	21	10	9	7	14.3	38.2
3-Sep	6	6	10	8	9	12	37	A	22	11	6	6	5	5	8	6	9	7	7	7	4	4	3	7	8.9	37.3
4-Sep	4	2	2	3	4	8	A	10	9	9	8	10	11	12	8	6	6	6	7	11	15	12	17	28	9.0	27.7
5-Sep	21	12	14	9	12	A	19	18	12	20	20	6	4	6	7	8	6	8	6	6	4	5	5	5	10.1	21.5
6-Sep	2	3	3	5	A	8	10	5	5	5	6	10	7	8	5	3	5	8	5	7	9	4	3	4	5.7	9.6
7-Sep	4	3	3	A	6	6	6	4	4	5	4	4	4	4	5	3	3	3	3	4	4	2	1	1	3.7	6.3
8-Sep	1	1	A	4	2	3	5	5	6	30	14	15	5	5	5	7	7	4	4	7	7	9	7	6	7.0	30.1
9-Sep	8	A	9	11	15	29	53	70	28	41	52	29	17	11	10	10	10	67	21	21	24	20	25	17	26.0	69.7
10-Sep	A	13	6	4	7	10	13	13	11	6	6	245	17	11	5	5	24	7	7	16	20	18	17	A	21.8	245.0
11-Sep	17	10	12	13	12	17	46	42	20	21	26	22	9	5	5	6	5	4	10	13	13	15	A	13	15.6	46.3
12-Sep	11	8	11	12	9	18	38	29	22	28	10	10	7	20	10	10	12	11	10	34	56	A	33	16	18.5	56.5
13-Sep	11	11	10	12	10	21	29	27	26	11	14	13	15	14	7	6	6	7	9	11	A	16	12	6	13.1	28.7
14-Sep	11	9	10	11	13	30	56	87	19	10	22	30	8	9	11	16	10	10	10	A	43	27	15	13	20.9	87.0
15-Sep	13	11	6	6	11	12	39	75	9	9	35	13	3	2	14	4	16	5	A	34	32	15	8	8	16.5	74.7
16-Sep	7	6	5	7	10	15	41	C	C	C	C	C	4	5	6	6	7	10	16	19	11	8	4	3	10.0	41.4
17-Sep	3	3	3	3	7	A	42	16	12	10	7	21	6	7	6	6	13	6	10	58	70	70	46	39	20.1	70.1
18-Sep	19	11	8	13	A	25	32	62	54	34	17	11	6	6	6	8	7	22	17	25	16	14	5	6	18.5	61.8
19-Sep	6	5	5	A	11	11	7	5	5	11	15	50	298	31	6	4	4	5	4	7	5	8	4	4	22.1	298.0
20-Sep	2	1	2	2	2	A	7	3	3	3	2	3	3	4	3	4	4	3	4	6	6	7	9	4	3.9	8.7
21-Sep	11	7	19	10	9	A	35	51	42	27	8	7	7	10	7	6	6	5	7	6	6	13	9	7	13.6	51.1
22-Sep	9	7	8	12	A	28	27	33	40	25	16	15	6	7	7	7	7	14	49	91	112	102	86		31.2	111.7
23-Sep	65	51	25	A	22	53	95	103	79	54	31	47	46	14	9	12	10	10	25	43	48	45	13	5	39.4	103.1
24-Sep	6	5	5	2	2	A	9	7	5	5	3	4	5	4	5	5	3	4	5	7	8	5	5	4	5.0	8.8
25-Sep	5	5	4	6	7	A	23	33	28	29	11	7	9	8	30	28	8	17	11	14	7	4	2	2	13.1	32.5
26-Sep	2	2	2	2	2	A	5	4	4	3	C	C	C	C	C	C	5	4	9	5	5	5	5	5	--	8.5
27-Sep	2	2	2	2	4	A	8	9	8	5	3	3	2	2	2	3	4	2	25	25	13	12	7	7	6.5	24.9
28-Sep	3	4	3	2	A	11	29	16	8	9	7	11	6	6	7	5	9	10	24	45	52	42	10	8	14.2	51.6
29-Sep	12	10	8	A	21	20	54	53	74	33	10	14	10	7	8	7	5	4	5	6	3	3	4	4	16.3	73.9
30-Sep	3	3	A	7	5	8	18	16	18	11	4	4	6	7	6	6	6	9	13	21	16	16	18	14	10.3	21.1
9.9 7.9 7.8 7.7 9.5 16.9 28.2 30.9 20.9 17.6 13.2 22.3 18.6 8.3 7.6 7.1 7.6 9.8 10.4 19.0 21.6 19.7 14.7 12.1																								Diurnal Average		
64.9 50.5 25.4 29.7 29.2 53.1 94.6 103.1 78.9 53.9 51.6 245.0 298.0 31.2 30.5 27.9 24.2 67.4 25.5 58.0 90.9 111.7 102.1 86.3																								Diurnal Maximum		
C - Calibration A - Automated Daily Zero Span																										

Hourly Maximums for NO_x at Henry Pirker September 2009

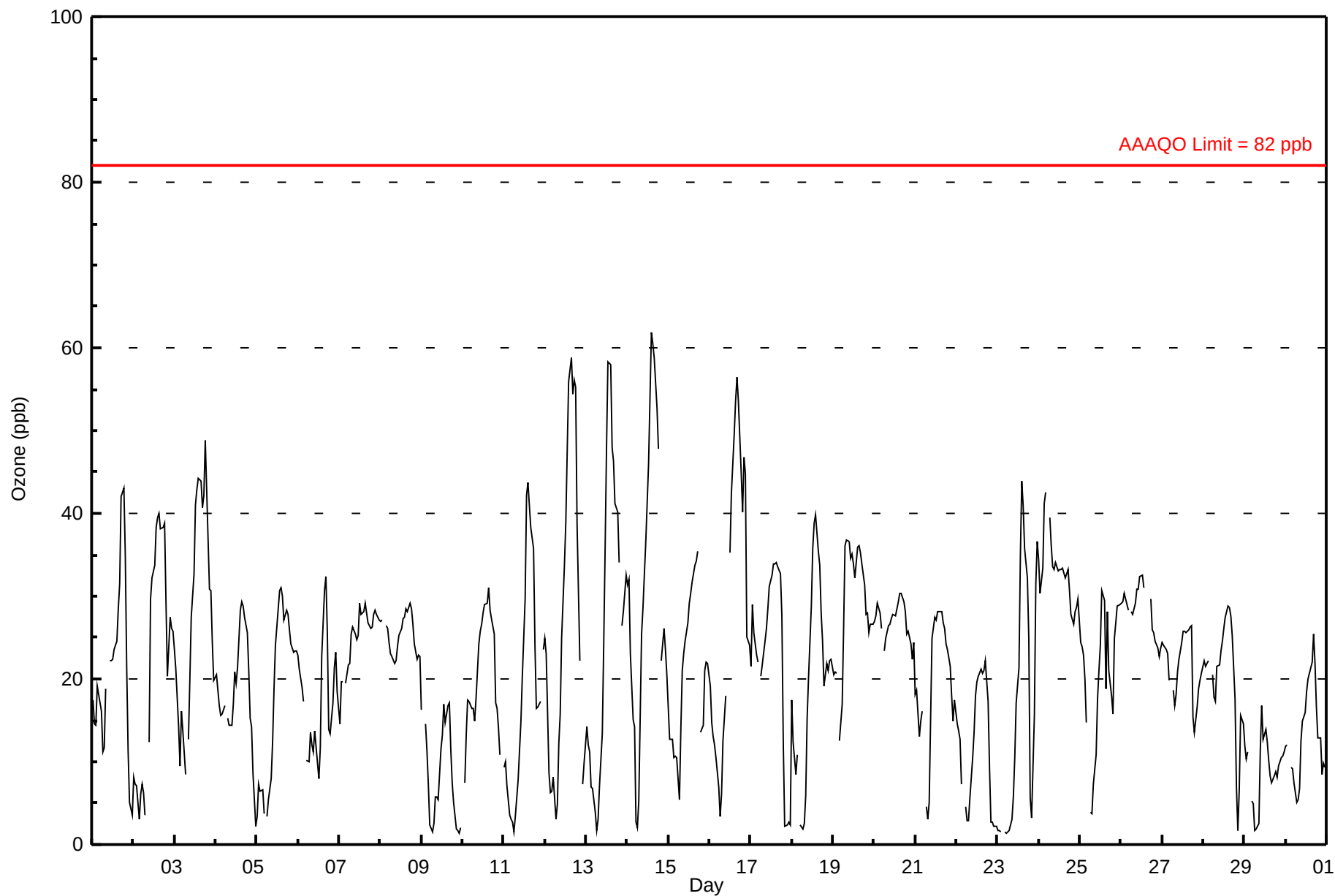


Peace Airshed Zone Association
Summary of Hourly Averages

Henry Pirker - Ozone (O₃) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0 Maximum Value: 61.9 ppb on Sep 14 15:00 Maximum Daily Average: 33.1 ppb on Sep 24																				Hours in Service: 720						
Minimum Value: 1 ppb on Sep 9 23:00 Maximum Diurnal Average: 33.5 ppb at hour 15 Monthly Average: 21.63 ppb																				Hours of Data: 685						
																				Hours of Missing Data: 35						
Minimum Daily Average: 8.4 ppb on Sep 9 Minimum Diurnal Average: 10.1 ppb at hour 6 Percentiles: P ₁ = 1.6 P ₁₀ = 5.5 Q ₁ = 12.7 Median = 22.1 Q ₃ = 28.4 P ₉₀ = 35.7 P ₉₉ = 55.9																				Hours of Calibration: 35						
																				Percent Operational Time: 100.0						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
1-Sep	17	15	14	19	18	16	11	12	19	A	22	22	22	24	25	29	32	42	43	35	21	11	5	4	20.8	43.1
2-Sep	8	7	7	3	6	7	6	4	A	12	30	32	34	38	39	40	38	38	39	29	20	27	26	26	22.6	39.9
3-Sep	24	21	14	10	16	14	8	A	13	20	27	33	41	43	44	44	41	42	49	43	31	31	25	20	28.3	48.9
4-Sep	21	19	17	16	16	17	A	15	14	14	17	21	19	21	28	29	29	27	26	21	15	14	9	2	18.6	29.4
5-Sep	3	7	6	7	4	A	3	5	8	12	19	24	28	31	31	30	27	28	28	26	24	23	23	23	18.4	31.1
6-Sep	23	21	19	17	A	10	10	14	12	11	14	10	8	12	23	31	32	26	14	13	17	21	23	19	17.4	32.4
7-Sep	15	20	20	A	20	22	22	25	26	25	25	25	29	28	28	29	28	27	26	26	28	28	28	27	25.1	29.2
8-Sep	27	27	A	26	26	24	23	23	22	22	24	25	26	27	27	28	28	29	28	27	24	22	23	23	25.4	29.1
9-Sep	16	A	14	11	7	2	2	3	6	6	5	12	13	17	15	17	17	11	7	5	2	2	1	2	8.4	17.1
10-Sep	A	7	13	17	17	16	16	15	18	24	26	27	28	29	29	31	28	27	25	17	16	14	11	A	20.6	30.9
11-Sep	9	10	7	4	3	3	2	3	8	11	15	20	30	42	44	41	38	36	24	16	17	17	A	24	18.4	43.8
12-Sep	25	23	9	6	6	8	3	5	12	16	25	34	39	48	56	59	54	56	55	39	22	A	7	10	26.8	58.8
13-Sep	14	12	11	7	7	4	2	3	7	13	24	36	48	58	58	48	46	41	40	34	A	26	28	32	26.1	58.3
14-Sep	31	32	23	15	14	3	2	5	25	29	33	37	46	54	62	61	59	53	48	A	22	26	24	21	31.5	61.9
15-Sep	17	13	13	10	11	10	5	14	21	23	25	27	29	30	32	34	34	35	A	14	14	21	22	22	20.7	35.4
16-Sep	19	15	13	12	10	7	3	6	13	18	C	C	35	42	49	54	56	54	45	40	47	45	25	24	28.8	56.5
17-Sep	22	29	26	23	22	A	20	22	25	26	29	31	33	34	34	34	34	33	28	12	2	2	3	2	22.8	34.1
18-Sep	17	12	8	11	A	2	2	3	6	15	20	29	36	39	40	35	34	28	25	19	22	21	22	22	20.4	39.8
19-Sep	20	21	21	A	13	17	26	36	37	37	35	35	34	32	36	36	35	34	31	28	28	26	27	27	29.1	36.8
20-Sep	27	28	29	28	26	A	23	25	26	27	27	28	28	28	29	30	30	29	28	25	26	24	22	24	27.0	30.4
21-Sep	18	19	13	15	16	A	4	3	5	15	25	27	27	28	28	28	27	26	24	24	22	18	15	17	19.3	28.1
22-Sep	15	14	13	7	A	5	3	3	6	10	14	18	20	20	21	21	21	22	17	9	3	3	2	2	11.6	22.1
23-Sep	2	2	1	A	1	1	2	2	3	6	11	17	21	35	44	41	36	32	25	6	3	16	31	37	16.3	43.8
24-Sep	34	30	33	41	42	A	40	36	33	33	34	33	33	33	33	32	33	33	31	28	27	28	29	30	33.1	42.5
25-Sep	24	24	23	20	15	A	4	4	7	11	18	21	24	31	29	19	28	21	18	16	25	27	29	29	20.3	30.6
26-Sep	29	29	30	29	28	A	28	28	29	31	31	32	32	31	C	C	C	30	26	26	25	24	23	24	28.2	32.5
27-Sep	24	24	24	23	20	A	19	17	18	21	22	24	26	26	26	26	26	26	15	14	17	19	20	21	21.6	26.4
28-Sep	22	21	22	22	A	20	18	17	22	22	23	25	26	27	29	29	28	25	18	7	2	7	16	15	20.1	28.9
29-Sep	12	10	11	A	5	5	2	2	3	11	17	13	14	12	10	8	7	8	9	8	9	11	11	11	9.1	16.8
30-Sep	12	12	A	9	9	7	5	5	7	13	15	16	19	20	21	22	25	22	17	13	13	8	10	9	13.4	25.5
																									Diurnal Average	
																									Diurnal Maximum	
C - Calibration A - Automated Daily Zero Span																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 82 ppb 24-hr na																										

Hourly Averages for O₃ at Henry Pirker September 2009

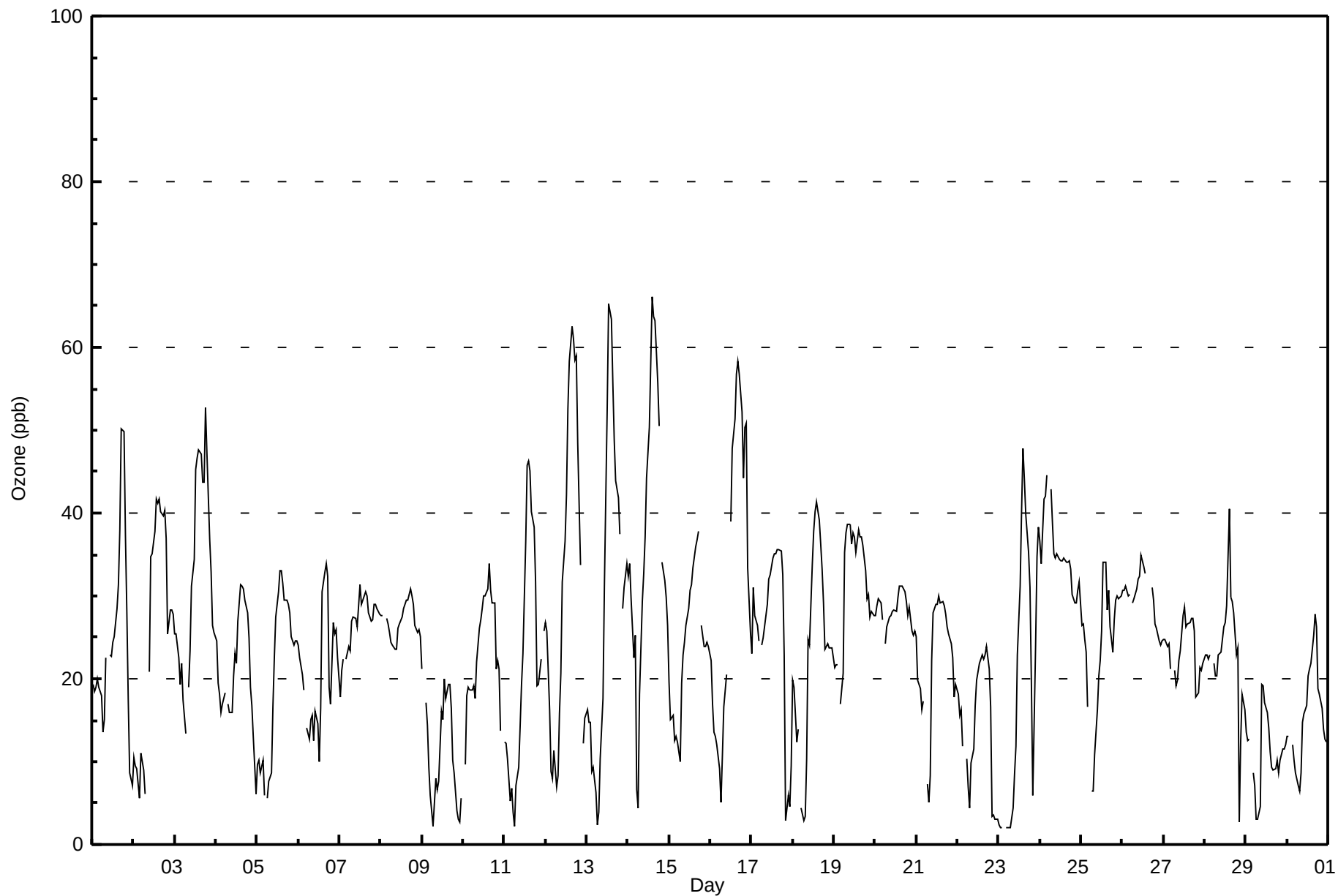


Peace Airshed Zone Association
Summary of Hourly Maximums

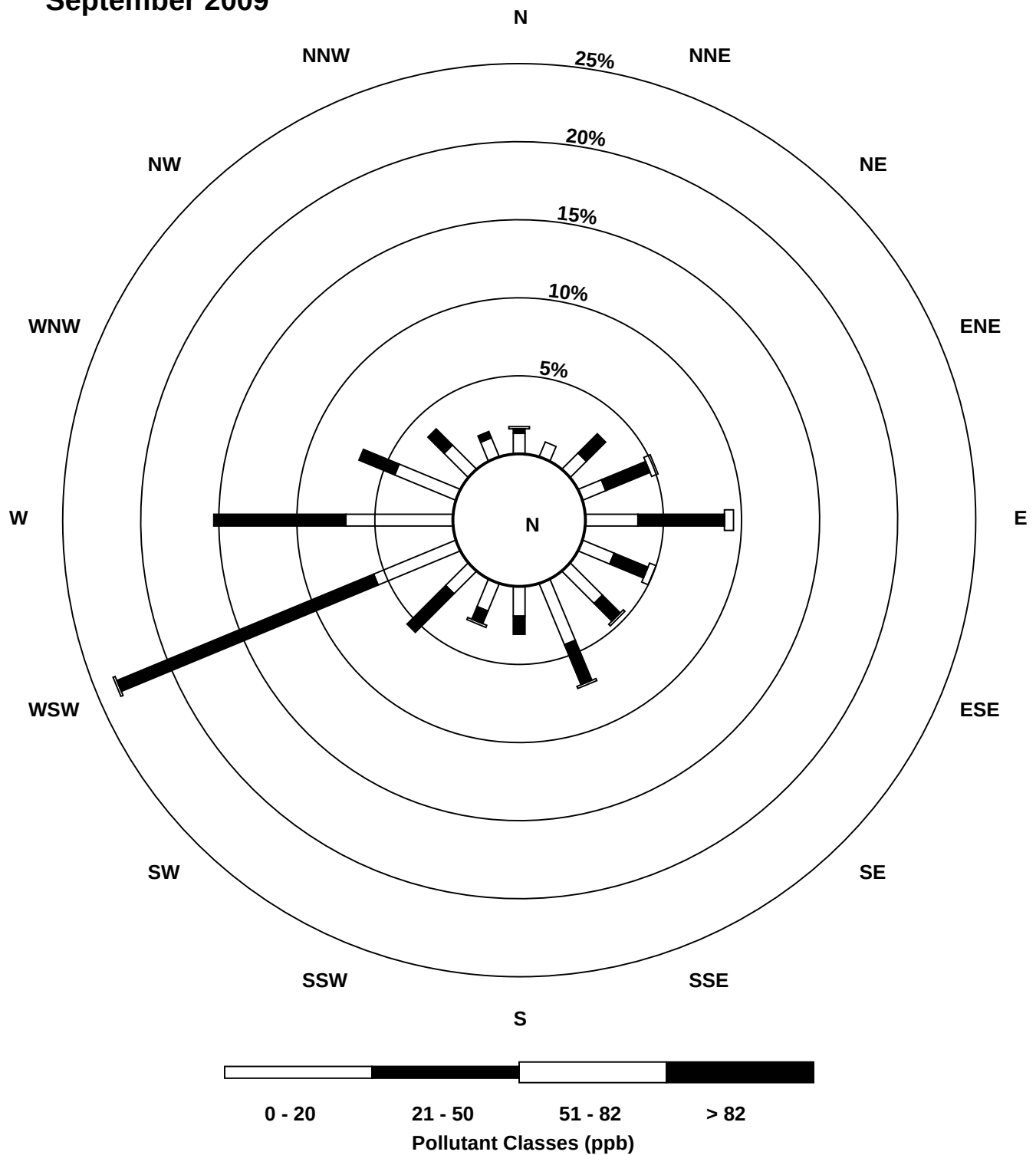
Henry Pirker - Ozone (O₃) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 66.1 ppb on Sep 14 15:00																				Maximum Daily Average: 36.8 ppb on Sep 14					Hours in Service: 720	
Minimum Value: 2 ppb on Sep 23 03:00																				Minimum Daily Average: 11.0 ppb on Sep 29					Hours of Data: 685	
Maximum Diurnal Average: 36.3 ppb at hour 15																				Minimum Diurnal Average: 12.6 ppb at hour 6					Hours of Missing Data: 35	
Monthly Average: 24.49 ppb																				Percentiles: P ₁ = 2.2 P ₁₀ = 8.7 Q ₁ = 16.4 Median = 24.6 Q ₃ = 30.8 P ₉₀ = 38.6 P ₉₉ = 60.5					Hours of Calibration: 35	
																									Percent Operational Time: 100.0	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	19	18	19	20	19	18	14	15	23	A	23	23	24	25	28	31	38	50	50	37	28	18	9	7	24.2	50.1
2-Sep	11	10	9	6	11	10	9	6	A	21	35	35	38	42	41	42	40	40	40	37	25	28	28	28	25.7	41.8
3-Sep	25	25	22	19	22	17	13	A	19	23	31	34	45	47	48	47	44	44	53	47	37	33	26	26	32.6	52.7
4-Sep	25	19	18	16	17	18	A	17	16	16	20	23	22	27	31	31	31	29	28	25	19	17	13	6	21.1	31.3
5-Sep	10	10	9	10	6	A	6	8	9	17	23	27	30	33	33	31	29	30	29	28	25	24	25	25	20.7	33.0
6-Sep	24	23	21	19	A	14	13	15	16	13	16	15	10	16	30	33	34	32	19	17	27	25	26	22	20.8	33.8
7-Sep	18	21	22	A	22	24	23	27	27	27	26	29	31	29	30	30	30	28	27	27	29	29	29	28	26.7	31.3
8-Sep	28	28	A	27	27	26	24	24	24	24	26	27	28	29	29	30	30	31	30	29	27	26	26	25	26.9	30.8
9-Sep	21	A	17	14	9	6	2	5	8	7	8	16	15	20	18	19	19	16	10	9	4	3	3	6	11.1	21.2
10-Sep	A	10	18	19	19	19	19	18	22	26	27	29	30	30	31	34	31	29	29	21	22	21	14	A	23.5	33.8
11-Sep	12	12	10	5	7	4	2	7	9	14	19	23	37	46	46	45	40	38	32	19	19	22	A	26	21.6	46.2
12-Sep	27	26	16	9	8	11	7	8	16	21	32	37	42	52	58	62	61	58	59	48	34	A	12	15	31.3	62.5
13-Sep	16	15	15	9	9	6	2	4	10	18	31	42	53	65	63	56	49	44	42	37	A	28	31	34	29.6	65.3
14-Sep	32	34	30	23	25	7	4	18	29	33	37	44	50	58	66	64	63	56	51	A	34	32	30	26	36.8	66.1
15-Sep	20	15	16	13	13	12	10	19	23	24	26	28	31	31	33	36	37	38	A	26	24	24	24	24	23.8	37.8
16-Sep	22	17	14	13	12	9	5	11	17	21	C	C	39	48	51	57	58	57	52	44	50	51	33	26	32.1	58.3
17-Sep	23	31	28	26	25	A	24	25	28	29	32	33	35	35	35	36	36	35	33	23	3	6	5	10	25.8	35.6
18-Sep	20	19	12	14	A	4	3	3	10	25	24	34	38	40	41	39	36	33	29	24	24	24	24	24	23.7	41.4
19-Sep	21	22	22	A	17	21	35	38	39	39	36	38	37	35	38	37	37	36	33	30	30	27	28	28	31.5	38.6
20-Sep	28	29	30	29	27	A	24	26	27	28	28	28	28	30	31	31	31	31	29	28	29	26	25	26	28.2	31.2
21-Sep	25	20	19	16	17	A	7	5	8	22	28	29	29	30	29	29	29	28	26	25	24	23	18	19	22.0	30.0
22-Sep	18	16	16	12	A	10	7	4	10	12	17	20	21	22	23	22	23	24	21	17	3	3	3	3	14.2	23.8
23-Sep	2	2	2	A	2	2	2	2	4	8	12	23	31	40	48	44	40	35	31	19	6	24	35	38	19.7	47.8
24-Sep	37	34	42	42	45	A	43	39	35	35	35	34	34	34	35	34	34	34	33	30	29	29	31	32	35.2	44.6
25-Sep	27	27	25	23	17	A	6	6	11	16	20	22	26	34	34	28	31	26	23	27	29	30	30	30	23.9	34.2
26-Sep	31	31	31	30	30	A	29	30	31	32	32	35	34	33	C	C	C	31	30	27	26	25	24	25	29.7	35.0
27-Sep	25	25	24	24	21	A	21	19	20	22	23	28	29	26	27	27	27	27	26	18	18	21	21	22	23.5	28.6
28-Sep	23	23	22	23	A	22	20	20	23	23	25	26	27	29	41	30	29	28	23	24	3	12	18	16	23.0	40.5
29-Sep	14	13	13	A	9	7	3	3	5	19	19	17	16	14	11	9	9	9	10	9	10	12	12	12	11.0	19.3
30-Sep	13	13	A	12	10	9	7	7	9	15	16	17	20	21	22	25	28	26	19	18	16	14	13	12	15.7	27.8
21.2 20.1 19.3 18.2 17.1 12.6 13.4 14.8 18.2 21.7 25.1 28.1 31.0 34.1 36.3 35.9 35.3 34.1 31.6 26.6 22.6 22.7 21.2 21.4																									Diurnal Average	
36.7 34.0 41.6 42.1 44.6 25.6 42.9 38.8 38.6 38.6 37.2 44.3 52.7 65.3 66.1 63.7 63.2 58.5 59.0 48.4 50.4 50.9 34.7 38.3																									Diurnal Maximum	
C - Calibration A - Automated Daily Zero Span																										

Hourly Maximums for O₃ at Henry Pirker September 2009



Pollutant Rose for O₃ at Henry Pirker **September 2009**



Peace Airshed Zone Association
Summary of Eight Hour Running Averages

Henry Pirker - Ozone (O₃) - ppb
September 1, 2009 to October 1, 2009

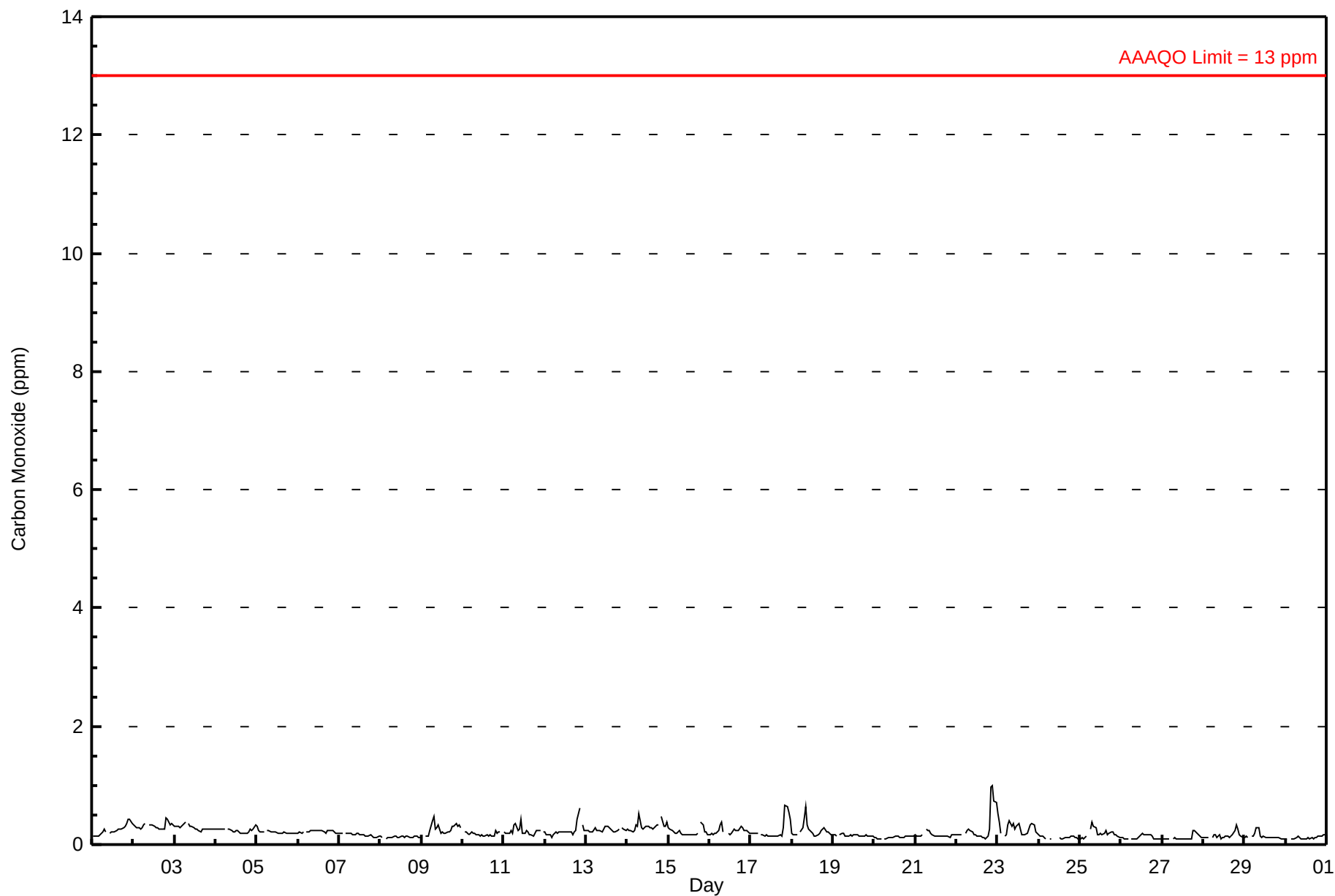
Number of Exceedences (AAAQO): 8-hr: 0 Maximum Value: 54.6 ppb on Sep 14 20:00																				Hours in Service: 720 Hours of Data: 714					
Minimum Value: 1.6 ppb on Sep 23 08:00																				Hours of Missing Data: 6 Hours of Calibration: 6					
Percentiles: P ₁ = 2.8 P ₁₀ = 8.3 Q ₁ = 14.1 Median = 21.5 Q ₃ = 27.4 P ₉₀ = 33.2 P ₉₉ = 47.9																				Percent Operational Time: 100.0					
Day	Hourly Period Ending At (MST)																								Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Sep	21	19	17	17	18	17	16	15	16	16	17	17	18	19	21	23	25	27	30	31	31	30	27	24	31.3
2-Sep	21	17	12	8	6	6	6	6	6	7	10	14	18	22	27	32	33	36	37	37	35	34	32	31	37.4
3-Sep	29	27	24	21	21	19	17	15	14	14	15	19	22	26	32	33	37	39	42	43	42	41	38	35	43.3
4-Sep	33	30	26	22	20	19	18	17	16	16	16	16	17	18	19	21	22	24	25	25	25	24	21	18	32.6
5-Sep	15	12	10	8	7	6	5	5	6	7	8	11	14	16	20	23	25	27	28	29	28	27	26	25	28.7
6-Sep	25	24	23	22	21	20	18	16	15	13	13	11	11	11	13	15	18	19	19	20	21	22	22	21	24.9
7-Sep	18	18	18	19	19	20	19	20	22	23	24	24	25	26	27	27	27	27	28	28	28	28	28	27	27.7
8-Sep	27	27	27	27	27	27	26	25	25	24	24	24	24	24	25	25	26	27	28	28	27	27	26	26	27.7
9-Sep	24	23	21	19	17	14	11	8	6	6	5	5	6	8	9	11	13	13	14	13	11	10	8	6	24.1
10-Sep	4	4	5	6	9	11	13	15	15	17	19	20	21	23	24	26	28	28	28	27	25	24	21	20	28.1
11-Sep	17	15	12	10	8	7	5	5	5	5	6	8	11	16	22	26	30	33	34	34	32	29	27	25	34.4
12-Sep	23	21	19	17	16	14	13	11	9	8	10	14	18	23	29	36	41	46	50	51	49	49	42	35	50.7
13-Sep	29	23	17	12	10	9	8	8	7	7	8	12	17	24	31	37	41	45	47	47	47	42	38	36	46.9
14-Sep	33	32	30	27	25	22	19	16	15	15	16	18	22	29	36	43	47	50	52	55	51	47	42	36	54.6
15-Sep	30	24	19	18	17	15	12	12	12	14	15	17	19	22	25	28	29	31	32	30	28	26	25	23	31.6
16-Sep	21	18	17	17	17	15	13	11	10	10	10	10	14	20	27	35	42	48	48	47	48	49	46	42	48.7
17-Sep	38	35	32	30	27	24	24	23	24	23	24	25	26	27	29	31	32	33	32	30	26	22	18	14	37.6
18-Sep	12	10	7	7	8	8	8	8	6	7	8	11	14	19	23	28	31	33	33	32	30	28	26	24	33.1
19-Sep	22	22	21	21	20	19	20	22	24	27	29	29	32	34	35	35	35	35	34	33	33	32	31	29	35.2
20-Sep	28	28	27	27	27	27	27	27	27	26	26	26	26	27	27	28	28	29	29	29	28	28	27	26	28.9
21-Sep	25	23	22	20	19	18	16	13	11	10	12	14	15	17	20	23	26	27	27	27	26	25	23	22	27.1
22-Sep	20	19	17	15	14	12	10	8	7	7	7	8	10	12	14	16	18	20	20	19	17	15	12	10	20.1
23-Sep	8	5	3	2	2	2	2	2	2	2	4	5	8	12	17	22	26	30	31	30	28	25	24	23	31.4
24-Sep	23	23	24	28	33	36	37	37	37	37	37	36	35	34	34	33	33	33	33	32	31	31	30	30	37.1
25-Sep	29	27	27	26	24	23	20	16	14	12	11	11	13	15	18	20	23	24	24	23	23	23	23	24	28.6
26-Sep	24	25	27	28	29	29	29	29	29	29	29	30	30	30	31	31	N	N	N	N	N	N	25	25	31.1
27-Sep	25	24	24	24	23	23	22	21	21	20	20	20	21	22	22	24	25	25	24	23	22	21	20	20	25.3
28-Sep	19	19	19	20	21	21	21	20	20	20	21	21	22	22	24	25	26	26	26	24	20	18	16	14	26.5
29-Sep	13	11	10	10	11	11	9	7	5	6	6	7	8	9	10	11	12	11	10	10	9	9	9	9	12.5
30-Sep	10	10	11	11	11	10	9	9	8	8	9	10	11	12	14	16	19	20	20	20	19	18	16	15	20.1
37.6 34.5 32.1 30.0 33.2 35.7 36.8 36.8 36.6 37.1 37.1 36.0 34.7 34.5 36.3 43.2 47.4 50.4 52.3 54.6 51.1 48.8 45.6 42.0																									
Diurnal Maximums																									
N - Not Valid																									

Peace Airshed Zone Association
Summary of Hourly Averages

Henry Pirker - Carbon Monoxide (CO) - ppm
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0 Maximum Value: 1.00 ppm on Sep 22 22:00 Maximum Daily Average: 0.31 ppm on Sep 2																					Hours in Service: 720 Hours of Data: 684 Hours of Missing Data: 36 Hours of Calibration: 36 Percent Operational Time: 100.0						
Minimum Value: 0.1 ppm on Sep 30 04:00 Maximum Diurnal Average: 0.28 ppm at hour 21 Monthly Average: 0.205 ppm										Minimum Daily Average: 0.12 ppm on Sep 30 Minimum Diurnal Average: 0.17 ppm at hour 4 Percentiles: P ₁ = 0.10 P ₁₀ = 0.11 Q ₁ = 0.14 Median = 0.19 Q ₃ = 0.25 P ₉₀ = 0.31 P ₉₉ = 0.64																	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1-Sep	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.24	0.44	
2-Sep	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	A	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.4	0.3	0.4	0.3	0.31	0.46	
3-Sep	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	A	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.28	0.37	
4-Sep	0.3	0.3	0.3	0.3	0.3	0.3	A	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.24	0.34	
5-Sep	0.3	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.30	
6-Sep	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22	0.25	
7-Sep	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.16	0.19	
8-Sep	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.13	0.15	
9-Sep	0.1	A	0.1	0.2	0.1	0.2	0.4	0.5	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.26	0.48	
10-Sep	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.18	0.24	
11-Sep	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.23	0.43	
12-Sep	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	A	0.3	0.2	0.23	0.62	
13-Sep	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	A	0.3	0.3	0.2	0.25	0.31	
14-Sep	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	A	0.5	0.3	0.3	0.4	0.31	0.52	
15-Sep	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.4	0.3	0.2	0.2	0.2	0.21	0.38	
16-Sep	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	C	C	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.23	0.38	
17-Sep	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.7	0.6	0.5	0.4	0.24	0.66	
18-Sep	0.2	0.2	0.2	0.2	A	0.2	0.3	0.5	0.6	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.24	0.64	
19-Sep	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.16	0.20	
20-Sep	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.12	0.15	
21-Sep	0.2	0.2	0.2	0.2	0.2	A	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.16	0.26	
22-Sep	0.2	0.2	0.2	0.2	A	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	1.0	1.0	0.7	0.7	0.29	1.00	
23-Sep	0.5	0.4	0.2	A	0.1	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.2	0.2	0.28	0.52	
24-Sep	0.2	0.2	0.1	0.1	0.1	A	0.1	0.1	C	C	C	C	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.12	0.16	
25-Sep	0.1	0.1	0.1	0.1	0.2	A	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.19	0.38	
26-Sep	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.12	0.18	
27-Sep	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.12	0.25	
28-Sep	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.15	0.33	
29-Sep	0.1	0.1	0.1	A	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.14	0.30	
30-Sep	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.12	0.17	
0.20 0.19 0.18 0.17 0.17 0.21 0.22 0.25 0.22 0.21 0.20 0.19 0.19 0.18 0.18 0.17 0.17 0.18 0.20 0.24 0.28 0.25 0.24 0.22																										Diurnal Average	
0.52 0.37 0.31 0.29 0.30 0.32 0.40 0.52 0.64 0.35 0.43 0.32 0.35 0.30 0.29 0.26 0.28 0.32 0.33 0.46 0.96 1.00 0.72 0.70																										Diurnal Maximum	
C - Calibration A - Automated Daily Zero Span																											
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 13 ppm 24-hr na																											

Hourly Averages for CO at Henry Pirker September 2009



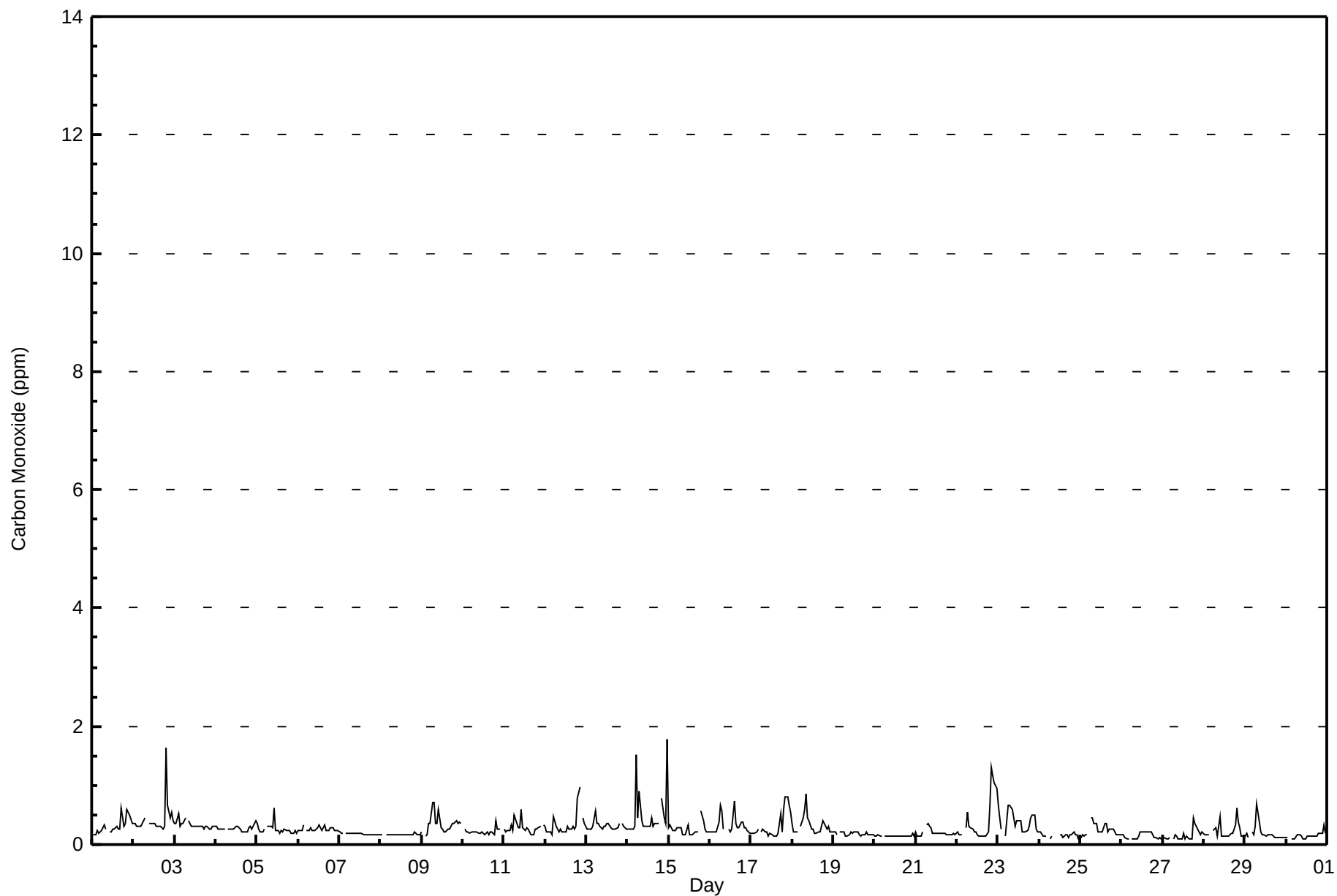
Peace Airshed Zone Association
Summary of Hourly Maximums

Henry Pirker - Carbon Monoxide (CO) - ppm
September 1, 2009 to October 1, 2009

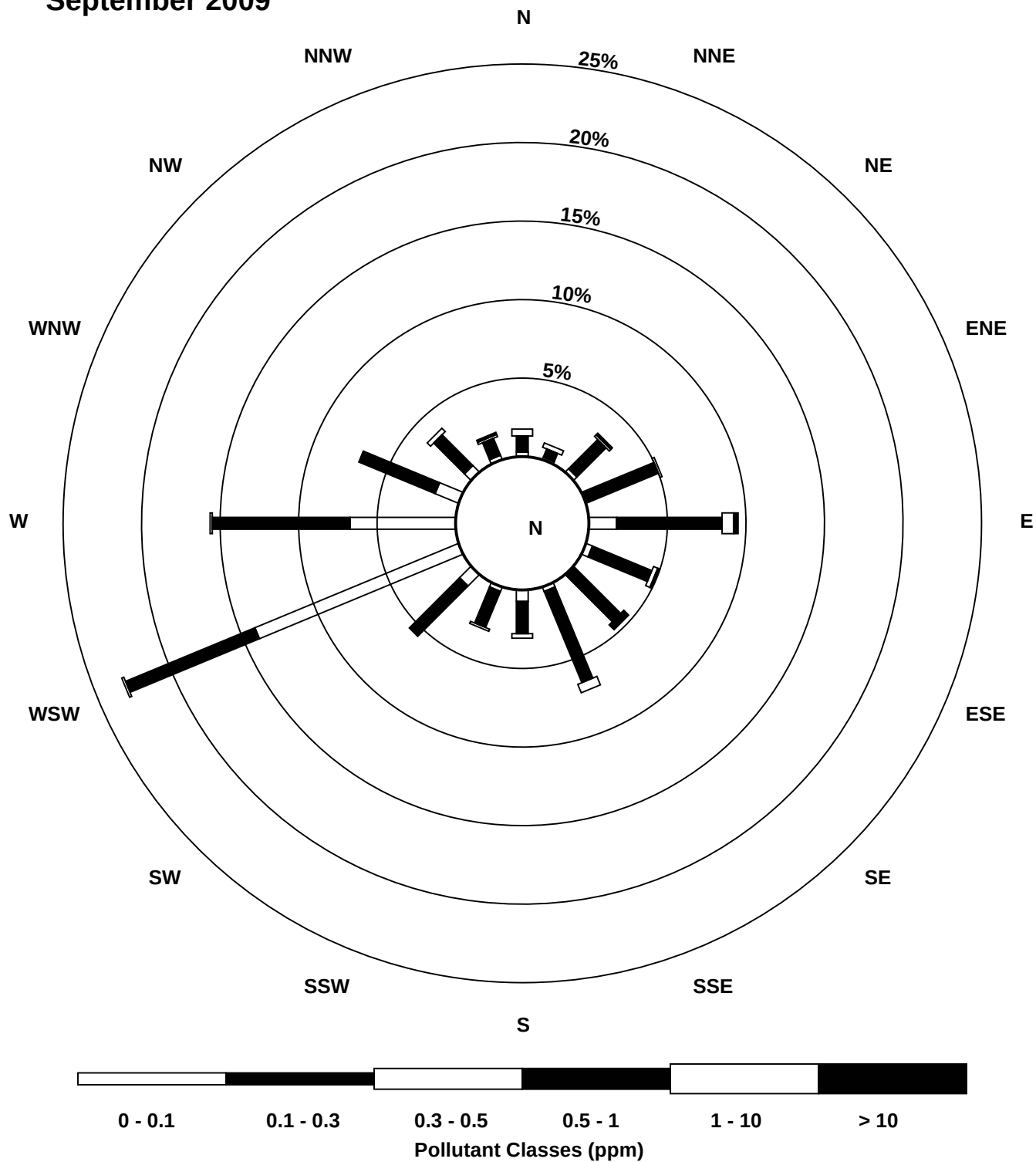
Maximum Value: 1.78 ppm on Sep 15 00:00																				Maximum Daily Average: 0.49 ppm on Sep 14					Hours in Service: 720	
Minimum Value: 0.1 ppm on Sep 24 07:00																				Minimum Daily Average: 0.15 ppm on Sep 26					Hours of Data: 684	
Maximum Diurnal Average: 0.38 ppm at hour 20																				Minimum Diurnal Average: 0.20 ppm at hour 4					Hours of Missing Data: 36	
Monthly Average: 0.266 ppm																				Percentiles: P ₁ = 0.10 P ₁₀ = 0.15 Q ₁ = 0.16 Median = 0.21 Q ₃ = 0.30 P ₉₀ = 0.40 P ₉₉ = 0.94					Hours of Calibration: 36	
																									Percent Operational Time: 100.0	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	A	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.6	0.3	0.4	0.6	0.6	0.5	0.4	0.31	0.61
2-Sep	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.5	A	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	1.6	0.7	0.5	0.5	0.4	0.42	1.64
3-Sep	0.4	0.4	0.5	0.3	0.4	0.4	0.5	A	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.33	0.52
4-Sep	0.3	0.3	0.3	0.3	0.3	0.3	A	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.27	0.41
5-Sep	0.4	0.3	0.2	0.2	0.3	A	0.3	0.3	0.3	0.3	0.6	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26	0.63
6-Sep	0.2	0.2	0.2	0.3	A	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.26	0.34
7-Sep	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.21
8-Sep	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.16	0.20
9-Sep	0.2	A	0.2	0.2	0.4	0.4	0.7	0.7	0.4	0.4	0.6	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.34	0.70
10-Sep	A	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.3	A	0.21	0.40
11-Sep	0.3	0.2	0.2	0.2	0.3	0.2	0.5	0.4	0.3	0.3	0.6	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	A	0.3	0.29	0.58
12-Sep	0.3	0.2	0.2	0.2	0.2	0.5	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.8	1.0	A	0.5	0.4	0.32	0.97
13-Sep	0.3	0.3	0.3	0.3	0.3	0.6	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	A	0.4	0.3	0.3	0.31	0.57
14-Sep	0.3	0.3	0.3	0.3	0.3	1.5	0.4	0.9	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	A	0.8	0.4	0.3	1.8	0.49	1.78
15-Sep	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	A	0.6	0.4	0.3	0.2	0.2	0.25	0.56
16-Sep	0.2	0.2	0.2	0.2	0.2	0.4	0.7	0.6	0.3	C	C	0.3	0.2	0.3	0.7	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.33	0.74
17-Sep	0.2	0.2	0.2	0.2	0.3	A	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.6	0.8	0.8	0.7	0.6	0.31	0.80
18-Sep	0.4	0.2	0.2	0.2	A	0.3	0.5	0.6	0.9	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.32	0.86
19-Sep	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.20
20-Sep	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.15	0.20
21-Sep	0.2	0.2	0.2	0.2	0.2	A	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.35
22-Sep	0.2	0.2	0.2	0.2	A	0.3	0.5	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	1.3	1.2	1.1	1.0	0.39	1.30
23-Sep	0.7	0.5	0.3	A	0.2	0.4	0.7	0.7	0.6	0.5	0.3	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.3	0.5	0.5	0.5	0.3	0.2	0.39	0.67
24-Sep	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	C	C	C	C	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.16	0.21
25-Sep	0.1	0.2	0.1	0.2	0.2	A	0.5	0.5	0.4	0.4	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.24	0.46
26-Sep	0.2	0.2	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.15	0.21
27-Sep	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.5	0.4	0.3	0.2	0.2	0.2	0.16	0.45
28-Sep	0.2	0.2	0.2	0.2	A	0.2	0.3	0.3	0.2	0.5	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.6	0.4	0.3	0.1	0.1	0.23	0.61
29-Sep	0.1	0.2	0.1	A	0.2	0.2	0.3	0.7	0.4	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.19	0.69
30-Sep	0.1	0.1	A	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.16	0.34
																									Diurnal Average	
																									Diurnal Maximum	
C - Calibration A - Automated Daily Zero Span																										

Hourly Maximums for CO at Henry Pirker

September 2009



Pollutant Rose for CO at Henry Pirker **September 2009**



Peace Airshed Zone Association
Summary of Eight Hour Running Averages

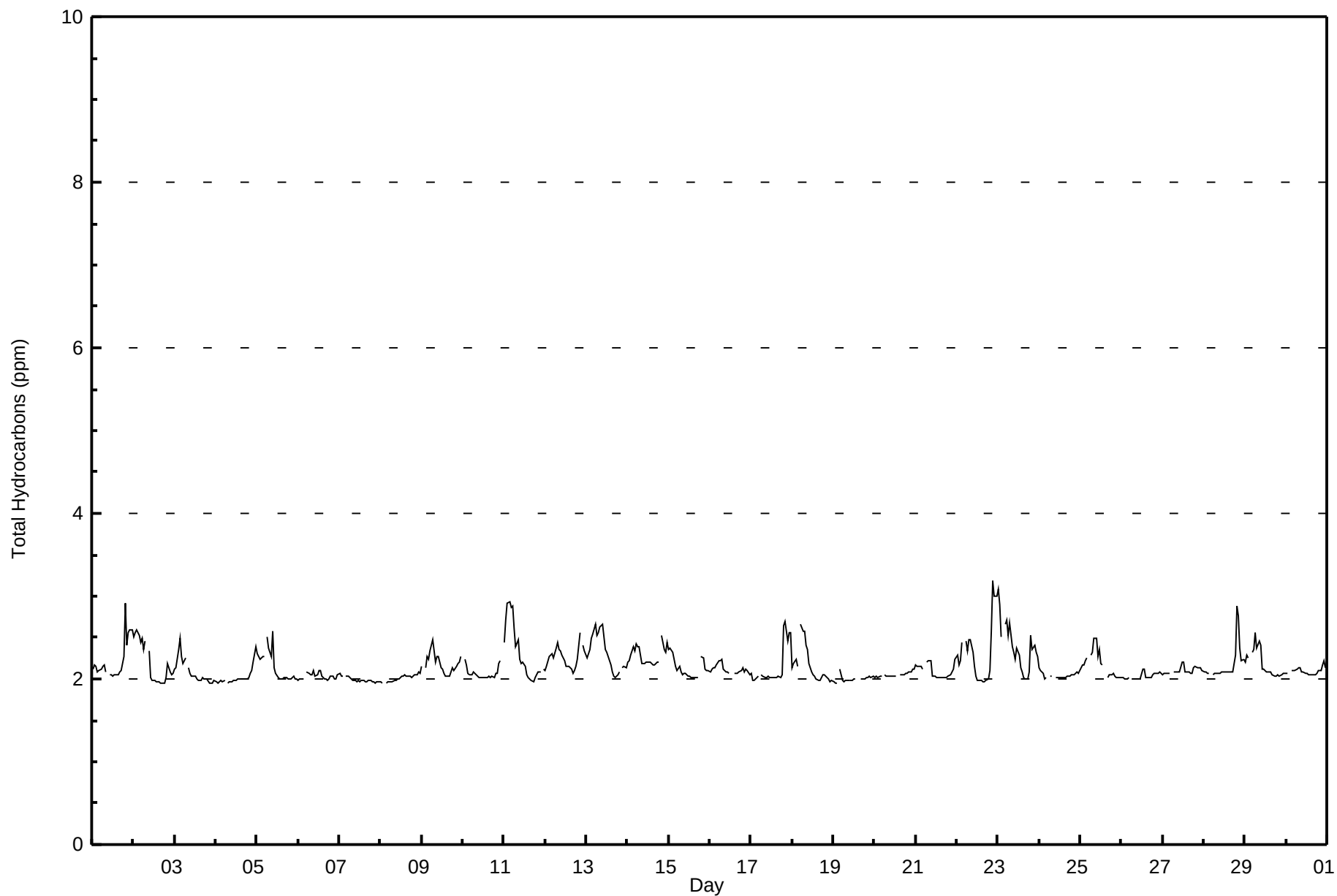
Henry Pirker - Carbon Monoxide (CO) - ppm
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 8-hr: 0 Maximum Value: 0.64 ppm on Sep 23 04:00																					Hours in Service: 720				
Minimum Value: 0.10 ppm on Sep 30 06:00																					Hours of Data: 712				
Percentiles: P ₁ = 0.10 P ₁₀ = 0.12 Q ₁ = 0.15 Median = 0.20 Q ₃ = 0.25 P ₉₀ = 0.31 P ₉₉ = 0.38																					Hours of Missing Data: 8				
																					Hours of Calibration: 8				
																					Percent Operational Time: 100.0				
Day	Hourly Period Ending At (MST)																								Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Sep	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.33
2-Sep	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.35
3-Sep	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.36
4-Sep	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
5-Sep	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.26
6-Sep	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.24
7-Sep	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.22
8-Sep	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.14
9-Sep	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.30
10-Sep	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.31
11-Sep	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.28
12-Sep	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.32
13-Sep	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.33
14-Sep	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.35
15-Sep	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.35
16-Sep	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.26
17-Sep	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.38
18-Sep	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.39
19-Sep	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
20-Sep	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15
21-Sep	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.20
22-Sep	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.5	0.50
23-Sep	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.64
24-Sep	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	N	N	N	N	N	N	N	N	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.25
25-Sep	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
26-Sep	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.16
27-Sep	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.16
28-Sep	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.19
29-Sep	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.19
30-Sep	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.14
0.55 0.59 0.59 0.64 0.52 0.40 0.35 0.32 0.32 0.32 0.33 0.34 0.32 0.32 0.32 0.30 0.30 0.29 0.30 0.30 0.32 0.36 0.43 0.50																									
Diurnal Maximums																									
N - Not Valid																									
Alberta Ambient Air Quality Objectives (AAAQO): 8-hr 5 ppm																									

Henry Pirker - Total Hydrocarbons (THC) - ppm
September 1, 2009 to October 1, 2009

Prepared by FOCUS

Hourly Averages for THC at Henry Pirker September 2009

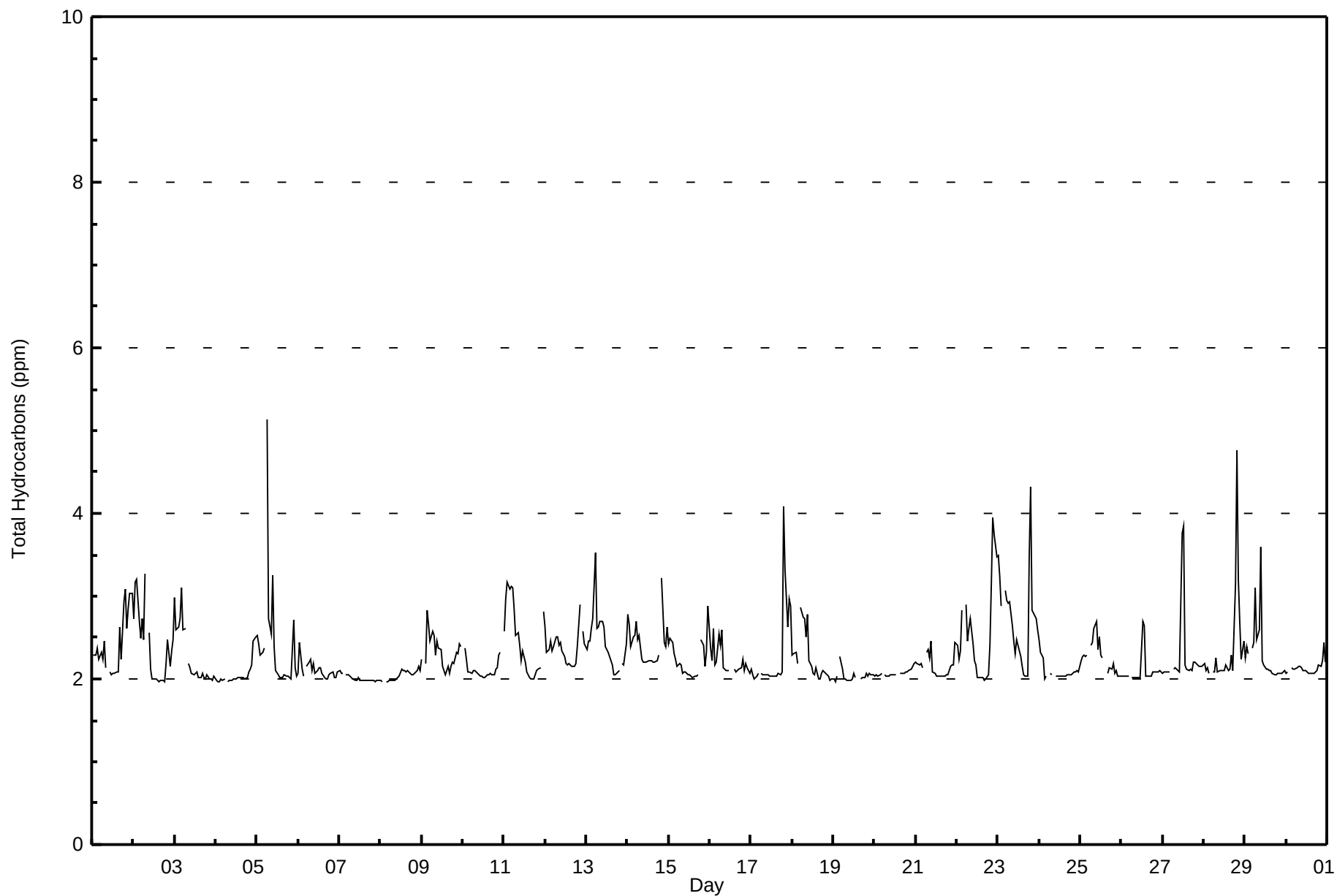


Peace Airshed Zone Association
Summary of Hourly Maximums

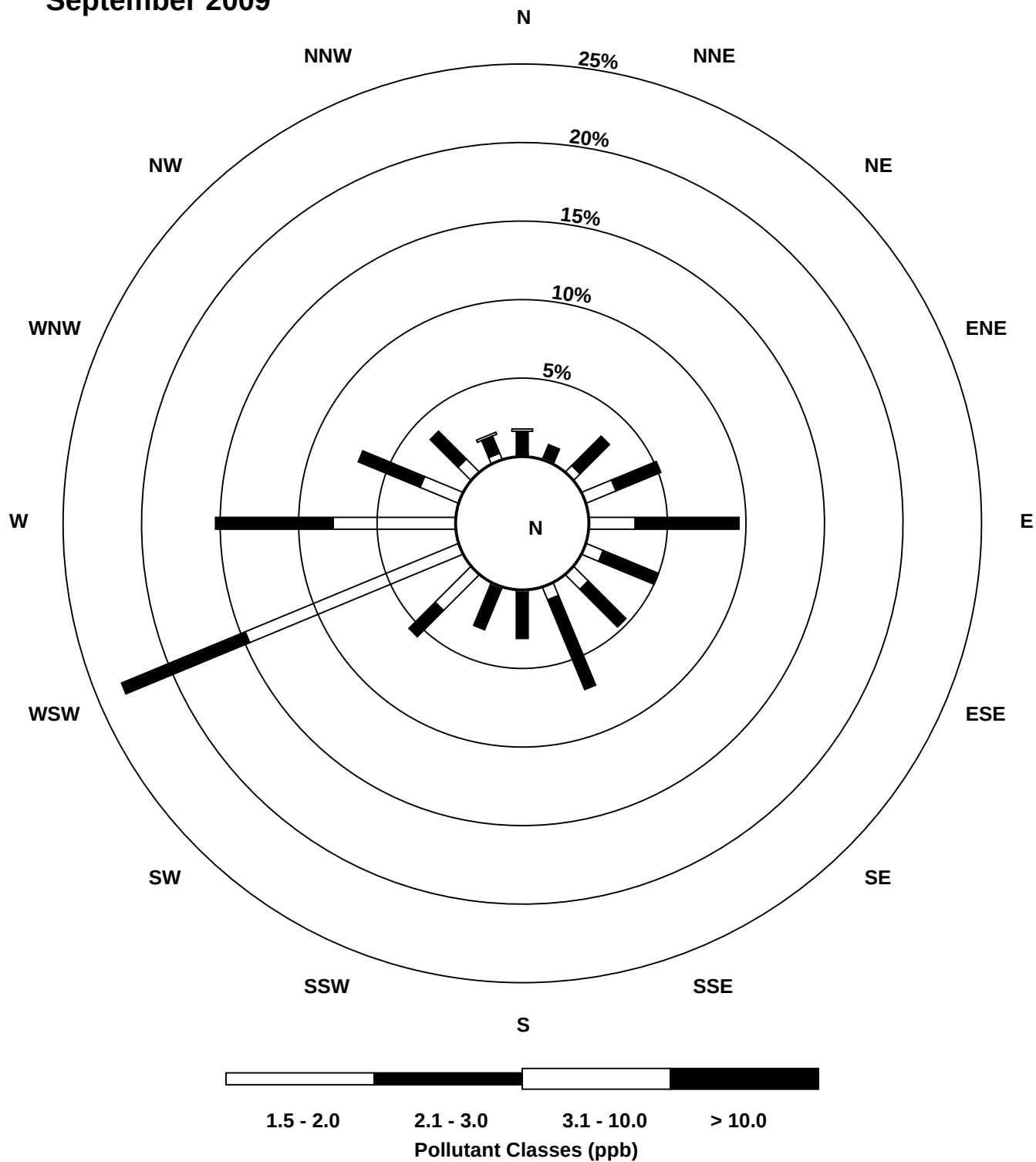
Henry Pirker - Total Hydrocarbons (THC) - ppm
September 1, 2009 to October 1, 2009

Maximum Value: 5.14 ppm on Sep 5 07:00																				Maximum Daily Average: 2.74 ppm on Sep 23					Hours in Service: 720 Hours of Data: 680 Hours of Missing Data: 40 Hours of Calibration: 37 Percent Operational Time: 99.6				
Minimum Value: 2.0 ppm on Sep 8 04:00 Maximum Diurnal Average: 2.46 ppm at hour 6 Monthly Average: 2.264 ppm										Minimum Daily Average: 2.01 ppm on Sep 7 Minimum Diurnal Average: 2.06 ppm at hour 16 Percentiles: P ₁ = 1.97 P ₁₀ = 2.01 Q ₁ = 2.05 Median = 2.11 Q ₃ = 2.36 P ₉₀ = 2.70 P ₉₉ = 3.75																			
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1-Sep	2.3	2.3	2.3	2.4	2.2	2.3	2.2	2.5	2.1	A	2.1	2.1	2.1	2.1	2.1	2.1	2.6	2.2	2.9	3.1	2.6	2.8	3.0	3.0	2.41	3.09			
2-Sep	2.7	3.2	3.2	2.7	2.5	2.7	2.5	3.3	A	2.6	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.5	2.1	2.3	2.5	2.39	3.27			
3-Sep	3.0	2.6	2.6	2.7	3.1	2.6	2.6	A	2.2	2.1	2.1	2.0	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.26	3.10			
4-Sep	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.5	2.5	2.06	2.51			
5-Sep	2.5	2.4	2.3	2.3	2.4	A	5.1	2.7	2.5	3.3	2.4	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.1	2.0	2.40	5.14			
6-Sep	2.1	2.4	2.1	2.0	A	2.1	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.10	2.43			
7-Sep	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	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.01	2.10			
8-Sep	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.2	2.1	2.04	2.15			
9-Sep	2.2	A	2.2	2.8	2.7	2.5	2.6	2.5	2.3	2.5	2.4	2.4	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.4	2.4	2.32	2.84			
10-Sep	A	2.4	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.3	2.3	A	2.11	2.37			
11-Sep	2.6	3.0	3.2	3.1	3.1	3.1	2.8	2.5	2.6	2.4	2.2	2.3	2.2	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	A	2.8	2.46	3.17			
12-Sep	2.6	2.3	2.4	2.5	2.3	2.4	2.5	2.5	2.4	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.4	2.9	A	2.6	2.4	2.37	2.90			
13-Sep	2.4	2.5	2.5	2.6	2.7	3.5	2.6	2.6	2.7	2.7	2.6	2.4	2.4	2.3	2.2	2.2	2.0	2.0	2.1	2.1	A	2.2	2.2	2.4	2.43	3.53			
14-Sep	2.8	2.7	2.4	2.5	2.5	2.7	2.5	2.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	A	3.2	2.4	2.4	2.6	2.42	3.22			
15-Sep	2.4	2.5	2.4	2.3	2.2	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	A	2.5	2.4	2.2	2.3	2.9	2.22	2.88			
16-Sep	2.4	2.2	2.6	2.2	2.2	2.5	2.4	2.6	2.1	2.1	2.1	2.1	C	C	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.1	2.1	2.22	2.61			
17-Sep	2.1	2.0	2.0	2.0	2.1	A	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	4.1	3.3	2.6	3.0	2.9	2.30	4.09			
18-Sep	2.3	2.3	2.3	2.2	A	2.9	2.7	2.7	2.5	2.8	2.2	2.2	2.1	2.0	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.25	2.86			
19-Sep	2.0	2.0	2.0	A	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	M	M	2.0	2.0	2.0	2.1	2.0	2.1	2.0	2.1	2.04	2.26			
20-Sep	2.0	2.0	2.0	2.0	2.1	A	2.1	2.0	2.0	2.1	2.1	2.1	2.1	A	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.07	2.18			
21-Sep	2.2	2.2	2.2	2.2	2.1	A	2.3	2.4	2.3	2.5	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.4	2.16	2.45			
22-Sep	2.4	2.2	2.3	2.8	A	2.9	2.5	2.6	2.7	2.4	2.2	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.4	3.1	3.9	3.7	3.5	2.53	3.95			
23-Sep	3.5	3.2	2.9	A	3.1	2.9	2.9	2.9	2.6	2.5	2.3	2.5	2.3	2.3	2.1	2.1	2.0	2.0	3.5	4.3	2.8	2.8	2.7	2.6	2.74	4.32			
24-Sep	2.5	2.3	2.3	2.0	2.0	A	2.1	2.1	C	C	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.10	2.48			
25-Sep	2.2	2.3	2.3	2.3	2.3	A	2.4	2.4	2.6	2.7	2.4	2.5	2.3	2.3	MS	A	2.1	2.1	2.1	2.2	2.1	2.1	2.0	2.0	2.27	2.70			
26-Sep	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.6	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.10	2.69			
27-Sep	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.1	2.1	3.8	3.8	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.27	3.84			
28-Sep	2.2	2.1	2.1	2.1	A	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.3	2.1	3.2	4.8	3.2	2.7	2.2	2.5	2.38	4.77			
29-Sep	2.2	2.4	2.3	A	2.4	2.4	3.1	2.5	2.6	3.6	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.30	3.60			
30-Sep	2.1	2.1	A	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2	2.4	2.2	2.13	2.44			
2.34 2.33 2.33 2.31 2.33 2.46 2.44 2.36 2.26 2.34 2.15 2.19 2.19 2.12 2.08 2.06 2.08 2.07 2.20 2.41 2.34 2.30 2.32 2.37																									Diurnal Average				
3.49 3.24 3.20 3.09 3.12 3.53 5.14 3.27 2.72 3.60 2.63 3.77 3.84 2.65 2.23 2.21 2.63 2.24 3.48 4.77 3.31 3.95 3.74 3.48																									Diurnal Maximum				
C - Calibration				M - Maintenance				MS - Missing				A - Automated Daily Zero Span																	

Hourly Maximums for THC at Henry Pirker September 2009



Pollutant Rose for THC at Henry Pirker **September 2009**

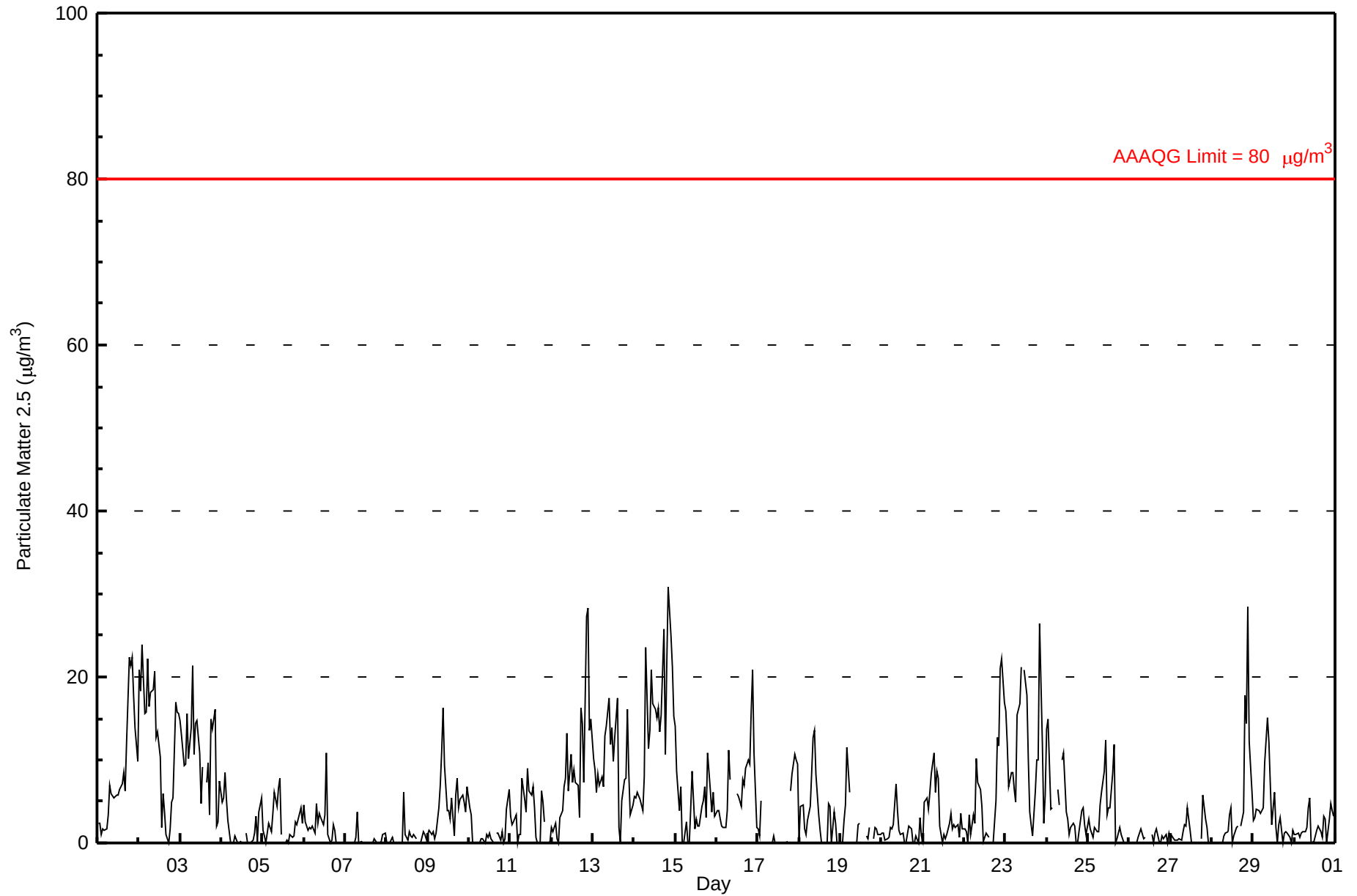


Peace Airshed Zone Association
Summary of Hourly Averages

Henry Pirker - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
September 1, 2009 to October 1, 2009

Number of Exceedences: 1-hr: 0 24-hr: 0 Maximum Value: 30.9 µg/m³ on Sep 14 21:00 Maximum Daily Average: 14.6 µg/m³ on Sep 14																					Hours in Service: 720 Hours of Data: 684 Hours of Missing Data: 36 Hours of Calibration: 6 Percent Operational Time: 95.8					
Minimum Value: 0 µg/m³ on Sep 2 18:00 Maximum Diurnal Average: 8.0 µg/m³ at hour 22 Monthly Average: 4.83 µg/m³										Minimum Daily Average: 0.3 µg/m³ on Sep 7 Minimum Diurnal Average: 2.5 µg/m³ at hour 17 Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.7 Median = 2.5 Q ₃ = 6.8 P ₉₀ = 13.8 P ₉₉ = 24.6																
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
1-Sep	2	2	1	2	1	2	3	7	6	5	6	6	6	6	7	9	6	12	22	21	22	18	14	10	8.2	22.4
2-Sep	21	18	24	16	16	22	16	18	18	21	13	13	10	2	6	4	1	0	2	5	5	17	16	16	12.5	23.8
3-Sep	15	13	9	10	16	10	14	21	11	14	15	11	5	9	BD	7	10	3	15	14	16	2	2	7	10.8	21.3
4-Sep	5	5	8	5	3	0	0	0	1	0	0	0	0	BD	1	0	BD	0	0	1	3	0	4	5	2.0	8.5
5-Sep	2	1	0	2	2	1	3	6	4	7	8	1	BD	0	0	0	1	1	1	3	2	4	4	2	2.4	7.7
6-Sep	5	3	2	2	2	2	1	5	2	4	3	2	3	11	1	0	0	2	2	0	0	BD	BD	BD	2.4	10.9
7-Sep	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0.3	3.7
8-Sep	0	0	0	1	0	0	0	0	0	0	6	1	0	1	1	1	1	0	BD	0	0	1	1	0	0.7	6.1
9-Sep	1	2	1	1	0	1	4	7	11	16	9	4	4	3	5	1	6	8	4	5	6	5	4	7	4.8	16.2
10-Sep	4	3	0	0	0	0	0	0	1	0	1	1	1	0	0	BD	1	1	0	1	0	1	4	7	1.2	6.5
11-Sep	3	2	3	3	0	1	1	8	5	4	9	6	6	7	4	1	0	0	6	5	3	BD	0	0	3.3	9.0
12-Sep	2	1	2	1	0	3	4	7	8	13	6	11	7	9	7	7	3	16	14	7	27	28	14	15	8.9	28.3
13-Sep	10	9	6	8	7	8	7	13	14	18	12	14	10	13	17	2	0	5	8	8	16	8	3	5	9.2	17.5
14-Sep	6	5	6	5	5	4	8	24	11	14	21	17	16	15	16	13	15	26	11	22	31	25	21	15	14.6	30.9
15-Sep	14	9	4	7	0	0	3	0	0	4	9	2	3	2	2	4	5	7	3	11	6	4	6	3	4.4	14.0
16-Sep	4	4	3	2	2	2	4	11	8	C	C	C	6	6	4	8	7	9	10	9	16	21	11	2	7.0	20.8
17-Sep	2	1	5	BD	BD	BD	BD	0	0	1	0	0	0	BD	BD	0	0	0	BD	6	8	11	10	9	--	10.7
18-Sep	0	4	5	2	1	3	4	8	13	14	8	3	2	0	0	0	0	5	4	0	4	2	0	0	3.4	13.5
19-Sep	0	0	3	5	11	6	BD	BD	BD	0	2	2	BD	3	BD	1	0	2	BD	1	2	2	1	1	2.3	11.5
20-Sep	1	1	0	0	1	2	2	2	7	4	1	1	1	0	0	1	2	2	0	0	1	0	3	1	1.4	7.1
21-Sep	0	5	5	4	6	8	11	6	9	8	2	0	1	0	1	2	4	2	2	2	2	1	4	2	3.6	10.9
22-Sep	2	1	0	3	1	3	2	10	7	6	4	0	1	1	1	BD	0	0	5	13	12	21	22	17	5.8	22.1
23-Sep	16	12	7	9	8	6	5	15	17	21	M	21	18	10	4	2	1	6	10	10	26	12	2	6	10.6	26.4
24-Sep	14	15	4	4	BD	BD	6	5	M	10	11	4	3	1	2	2	2	0	0	1	4	4	2	1	4.5	14.9
25-Sep	3	2	1	1	2	1	1	5	6	9	12	3	4	4	8	12	0	0	2	1	0	0	0	0	3.3	12.4
26-Sep	0	0	0	0	0	1	1	2	0	1	C	C	C	1	0	1	2	0	0	1	1	1	0	1	0.6	1.7
27-Sep	1	1	0	0	0	1	0	1	2	2	4	2	0	0	0	0	0	BD	0	6	3	2	0	0	1.1	5.8
28-Sep	0	0	0	0	0	0	0	1	1	1	3	4	0	1	2	2	BD	2	4	18	14	28	12	6	4.4	28.4
29-Sep	3	3	4	4	4	4	4	10	15	12	7	2	6	2	0	2	3	0	1	1	1	1	0	2	3.8	15.2
30-Sep	1	1	1	1	1	1	1	2	4	5	0	0	1	2	2	1	1	3	3	0	3	5	4	3	2.0	5.5
4.5 4.1 3.5 3.3 3.2 3.3 3.9 6.8 6.5 7.3 6.4 4.7 4.2 3.9 3.5 3.0 2.5 3.9 4.8 5.7 7.8 8.0 5.7 5.0																								Diurnal Average		
20.8 18.3 23.8 15.6 15.7 22.3 16.4 23.5 18.5 21.1 20.8 20.9 17.9 15.1 17.5 13.3 15.4 25.8 22.4 21.6 30.9 28.4 22.1 17.0																								Diurnal Maximum		
C - Calibration M - Maintenance BD - Baseline Drift Alberta Ambient Air Quality Guideline (AAAQG): 1-hr 80 µg/m³ Alberta Ambient Air Quality Objective (AAAQO): 24-hr 30 µg/m³																										

Hourly Averages for PM_{2.5} at Henry Pirker September 2009



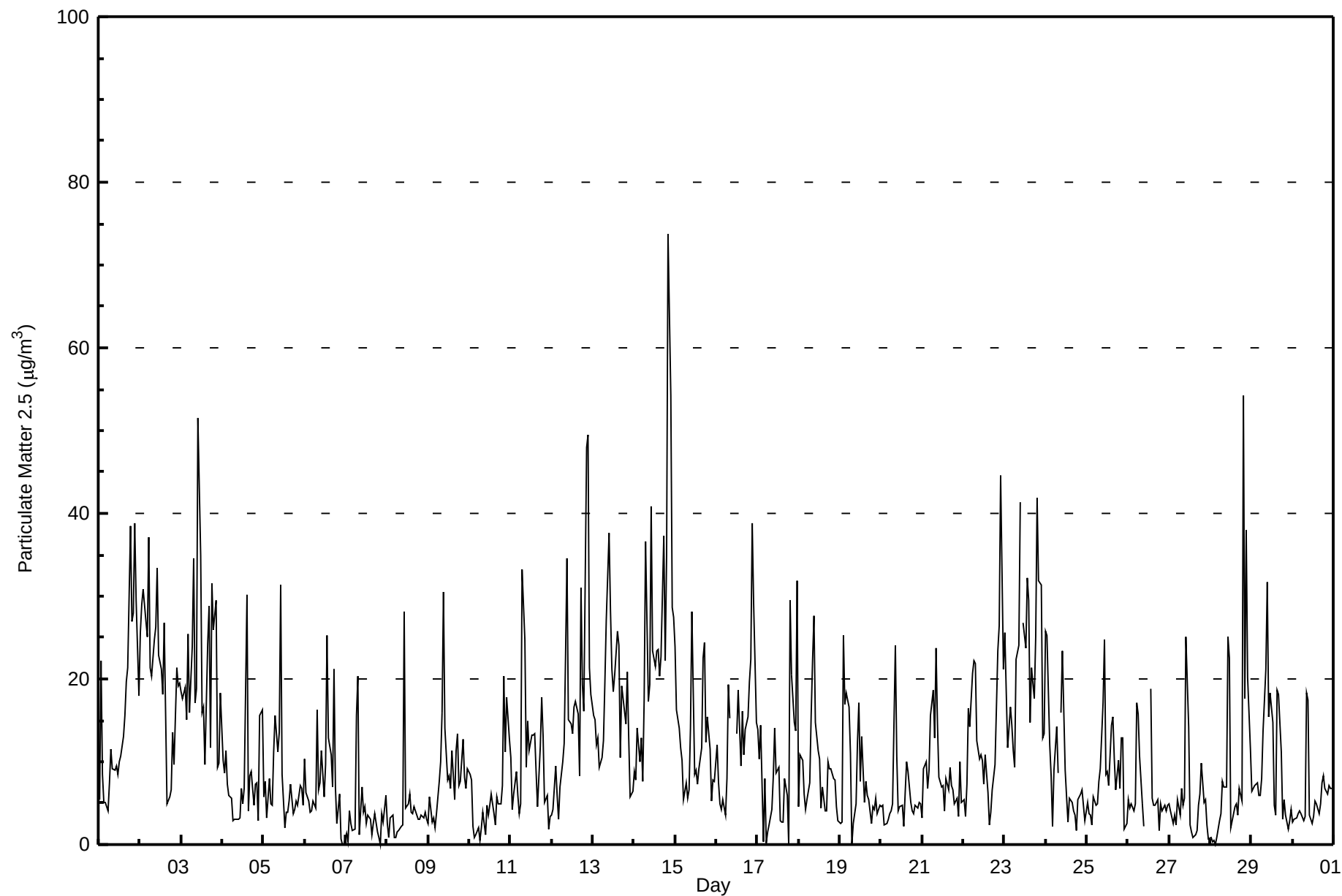
Peace Airshed Zone Association
Summary of Hourly Maximums

Henry Pirker - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
September 1, 2009 to October 1, 2009

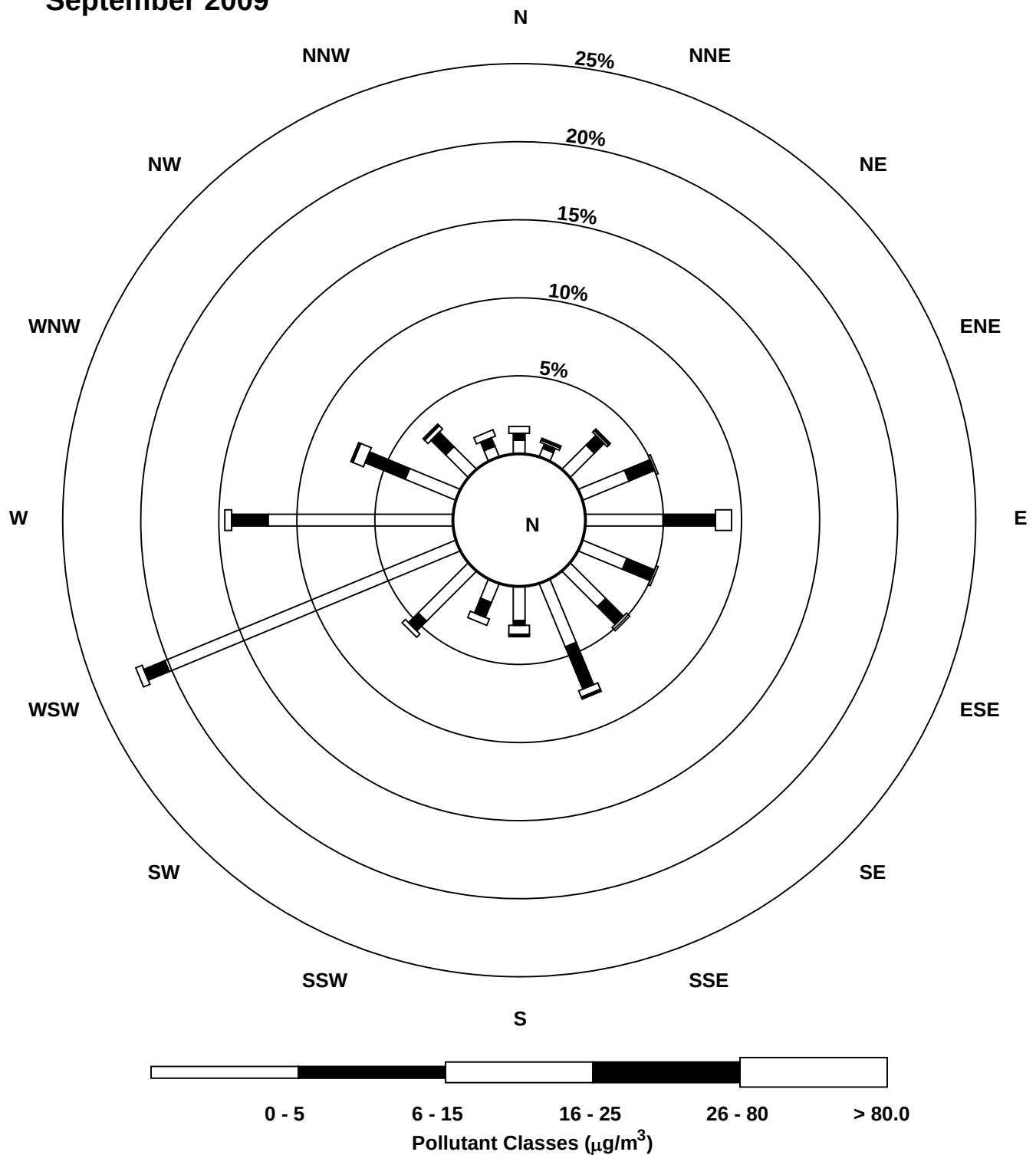
Maximum Value: 73.7 μg/m³ on Sep 14 21:00																				Maximum Daily Average: 25.3 μg/m³ on Sep 14					Hours in Service: 720	
Minimum Value: 0 μg/m³ on Sep 6 23:00																				Minimum Daily Average: 4.0 μg/m³ on Sep 7					Hours of Data: 712	
Maximum Diurnal Average: 18.5 μg/m³ at hour 11																				Minimum Diurnal Average: 7.3 μg/m³ at hour 5					Hours of Missing Data: 8	
Monthly Average: 11.19 μg/m³																				Percentiles: P ₁ = 0.2 P ₁₀ = 2.6 Q ₁ = 4.5 Median = 7.8 Q ₃ = 15.7 P ₉₀ = 24.7 P ₉₉ = 42.6					Hours of Calibration: 6	
																				Percent Operational Time: 99.7						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	6	22	9	5	5	4	7	12	9	9	9	8	10	11	13	16	20	21	38	27	28	39	30	18	15.6	38.8
2-Sep	26	29	31	27	25	37	21	20	25	26	33	23	21	18	27	16	5	6	7	14	10	21	19	20	21.1	37.2
3-Sep	19	18	19	15	25	16	24	35	17	19	52	35	16	17	10	24	29	12	31	26	29	9	10	18	21.8	51.6
4-Sep	10	9	11	7	6	6	3	3	3	3	3	7	5	7	30	4	8	9	5	7	7	3	16	16	7.8	30.2
5-Sep	6	8	3	8	5	5	11	16	11	14	31	9	2	4	4	5	7	4	4	5	5	7	7	5	7.7	31.3
6-Sep	10	6	5	4	4	5	4	16	7	7	11	6	10	25	13	11	7	21	7	3	6	1	0	0	7.9	25.3
7-Sep	1	0	4	3	2	2	16	20	1	7	4	5	2	4	3	1	2	4	1	1	0	4	3	6	4.0	20.3
8-Sep	2	1	3	3	1	1	2	2	2	2	28	4	5	6	4	4	4	4	3	3	4	3	4	3	4.1	28.2
9-Sep	3	6	3	3	2	4	8	10	16	31	14	8	8	7	11	6	11	13	7	8	13	8	7	9	8.9	30.5
10-Sep	8	8	2	1	1	2	0	2	4	1	5	3	5	6	4	2	6	5	5	7	20	11	18	13	5.8	20.4
11-Sep	11	4	6	9	6	4	5	33	25	9	15	11	13	13	13	9	5	12	18	13	5	6	2	3	10.4	33.3
12-Sep	4	4	9	6	3	7	10	12	23	35	15	15	13	17	17	16	8	31	19	16	48	49	21	18	17.4	49.5
13-Sep	16	15	12	13	9	10	12	19	27	38	28	21	18	20	26	24	10	19	16	15	21	13	6	6	17.4	37.6
14-Sep	9	8	14	10	13	8	17	37	17	19	41	23	22	23	24	20	23	37	22	35	74	54	29	27	25.3	73.7
15-Sep	24	16	14	12	10	5	8	6	7	14	28	9	9	7	9	12	23	24	12	15	12	5	8	8	12.3	28.1
16-Sep	12	7	5	4	5	4	8	19	15	C	C	C	13	19	10	16	11	14	15	20	22	39	29	15	14.4	38.7
17-Sep	14	10	14	0	8	0	2	2	4	8	14	9	9	3	3	3	8	6	0	30	21	15	14	32	9.5	31.8
18-Sep	5	11	10	6	4	5	7	16	22	28	15	11	10	4	7	4	4	10	9	9	8	8	5	3	9.2	27.7
19-Sep	3	3	25	17	18	17	11	0	3	5	12	17	8	13	5	8	6	5	3	5	4	6	4	5	8.4	25.3
20-Sep	5	5	2	3	3	4	4	5	24	11	4	5	5	2	6	10	9	5	4	4	5	4	5	5	5.7	24.0
21-Sep	3	9	10	7	9	16	19	13	24	15	8	7	7	4	8	7	9	7	7	5	6	3	10	5	9.0	23.7
22-Sep	5	3	7	16	14	21	22	22	13	10	11	10	7	11	6	2	4	7	10	16	23	26	45	21	13.9	44.6
23-Sep	26	19	12	17	14	11	9	22	24	41	M	27	24	32	30	15	21	18	25	42	32	31	13	13	22.5	41.9
24-Sep	26	25	12	8	2	9	14	9	M	16	23	9	6	3	6	5	4	4	2	5	6	7	5	3	9.1	25.8
25-Sep	5	4	4	2	6	5	5	8	9	17	25	9	9	7	14	15	10	7	10	7	13	13	2	3	8.6	24.7
26-Sep	5	4	5	4	5	17	16	11	5	2	C	C	C	19	6	5	5	5	2	5	4	5	4	5	6.6	18.8
27-Sep	5	4	2	4	2	5	4	7	5	6	25	14	2	1	1	1	2	5	6	10	5	5	2	1	5.2	25.2
28-Sep	1	0	1	0	1	3	4	8	7	7	25	22	2	3	5	5	3	7	5	54	18	38	20	12	10.4	54.2
29-Sep	6	7	7	7	6	6	8	14	21	32	16	18	15	5	3	19	18	11	3	5	4	2	3	4	10.0	31.7
30-Sep	3	3	3	4	4	4	3	3	18	18	4	3	3	5	5	4	5	8	8	7	6	7	7	7	5.9	18.3
																									Diurnal Average	
																									Diurnal Maximum	
C - Calibration M - Maintenance																										

Hourly Maximums for PM_{2.5} at Henry Pirker

September 2009



Pollutant Rose for PM_{2.5} at Henry Pirker **September 2009**

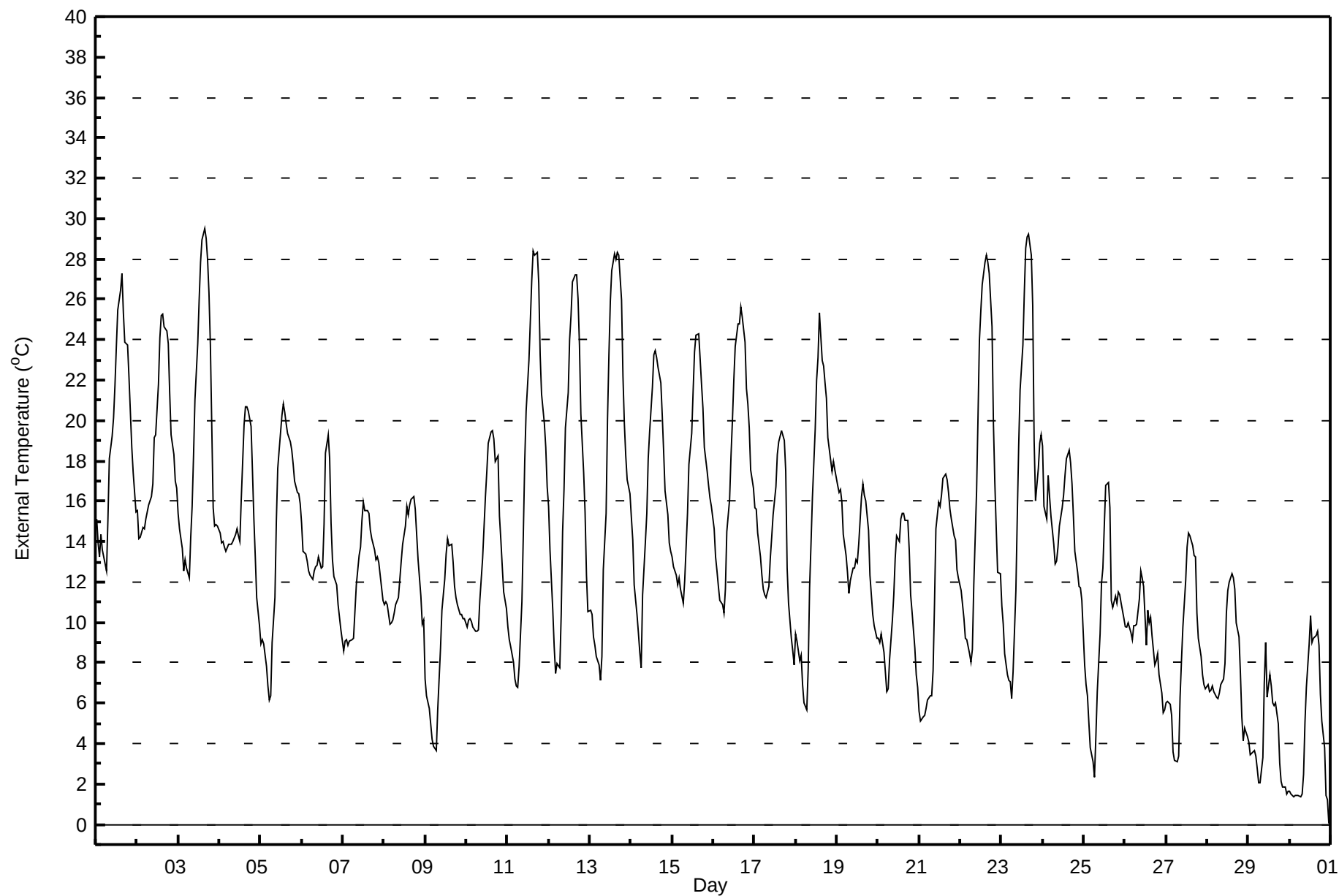


Henry Pirker - External Temperature (ET) - °C

September 1, 2009 to October 1, 2009

Prepared by FOCUS

Hourly Averages for External Temperature at Henry Pirker September 2009

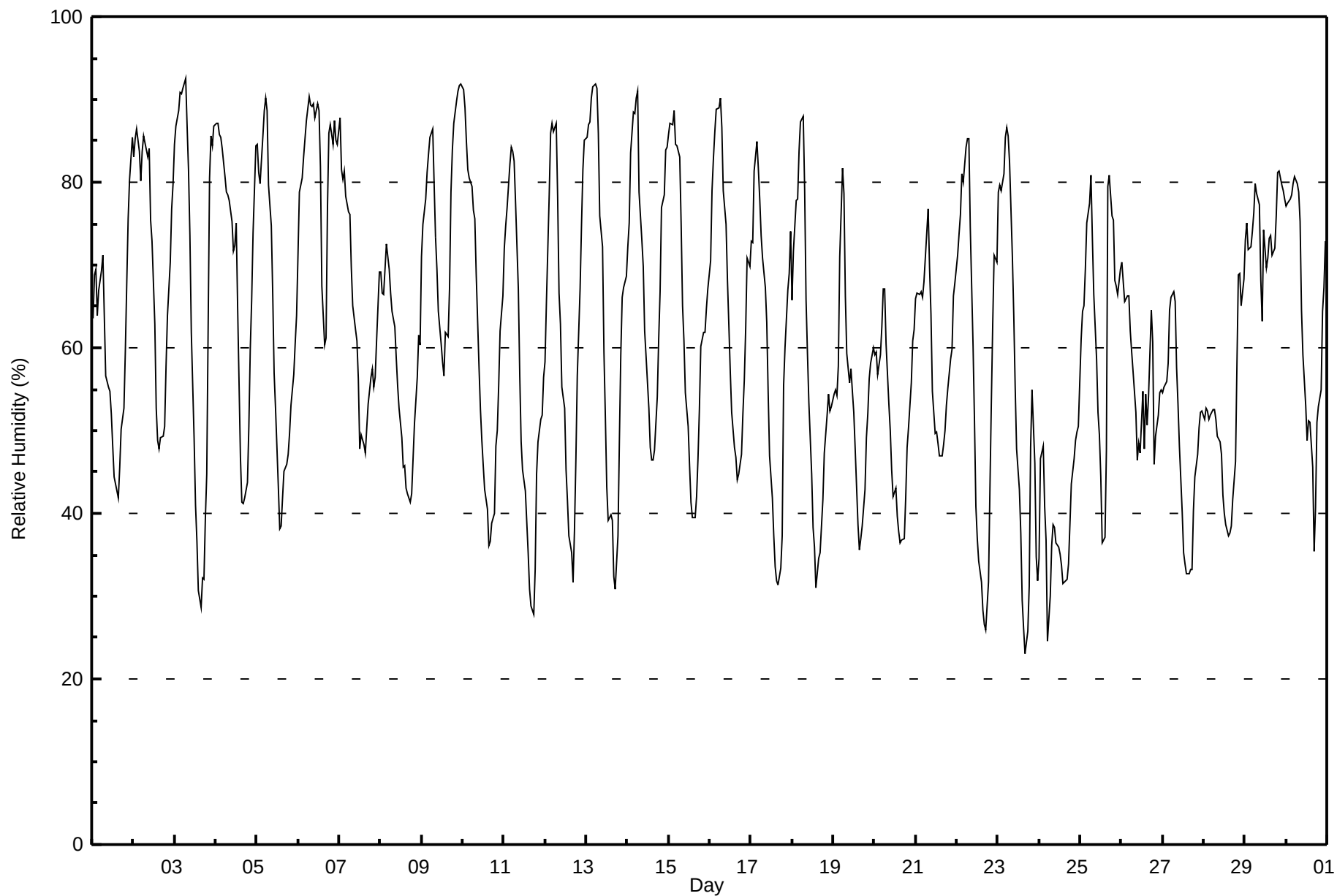


Peace Airshed Zone Association
Summary of Hourly Averages

Henry Pirker - Relative Humidity (RH) - %
September 1, 2009 to October 1, 2009

Maximum Value: 92.5 % on Sep 3 07:00																				Maximum Daily Average: 82.2 % on Sep 6					Hours in Service: 720			
Minimum Value: 23 % on Sep 23 17:00																				Minimum Daily Average: 38.5 % on Sep 24					Hours of Data: 720			
Maximum Diurnal Average: 78.0 % at hour 7																				Minimum Diurnal Average: 41.6 % at hour 16					Hours of Missing Data: 0			
Monthly Average: 61.47 %																				Percentiles: P ₁ = 28.2 P ₁₀ = 37.7 Q ₁ = 47.8 Median = 60.9 Q ₃ = 76.6 P ₉₀ = 85.3 P ₉₉ = 91.3					Hours of Calibration: 0			
																				Percent Operational Time: 100.0								
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1-Sep	64	69	69	64	67	69	71	64	57	55	55	52	48	44	43	42	46	50	53	60	68	76	80	85	60.4	85.4		
2-Sep	83	85	86	84	80	84	86	85	83	84	75	73	63	53	49	48	49	49	51	58	64	70	77	80	70.7	86.4		
3-Sep	85	87	89	91	91	91	92	87	82	74	62	49	41	37	31	29	32	32	39	45	81	86	84	87	66.7	92.5		
4-Sep	87	87	86	85	84	81	79	78	78	75	72	72	75	65	47	41	41	42	44	50	60	66	74	84	68.9	87.1		
5-Sep	85	81	80	86	89	90	89	80	75	67	57	53	43	38	38	42	45	46	47	50	53	57	61	64	63.0	90.2		
6-Sep	71	79	81	83	85	87	90	89	89	90	88	89	89	82	67	60	61	77	86	87	85	87	85	85	82.2	90.4		
7-Sep	88	82	80	81	78	76	76	70	65	62	61	56	48	50	48	47	50	53	56	57	55	56	61	69	63.7	87.8		
8-Sep	69	67	66	73	71	69	67	64	63	59	55	53	49	46	46	43	42	41	42	47	51	57	62	60	56.7	72.6		
9-Sep	71	75	78	81	83	85	86	80	73	70	64	60	58	57	62	61	67	79	84	87	90	91	92	92	76.1	91.9		
10-Sep	91	89	85	81	80	80	77	76	69	58	52	49	46	43	41	36	37	39	40	48	50	55	62	66	60.4	91.2		
11-Sep	72	75	77	82	84	84	82	78	67	57	49	45	43	39	35	31	29	28	33	45	49	51	52	56	55.9	84.2		
12-Sep	58	65	78	86	87	86	87	78	67	63	55	53	45	42	37	35	32	38	47	57	67	75	82	85	62.7	87.2		
13-Sep	85	87	87	90	92	92	91	86	76	72	59	52	43	39	40	39	32	31	37	49	59	66	67	69	64.2	91.9		
14-Sep	72	75	84	88	88	90	91	79	73	70	62	59	53	48	46	46	48	54	61	67	77	79	84	84	69.9	91.1		
15-Sep	86	87	87	89	85	84	83	75	65	61	55	51	46	41	39	40	42	47	52	60	62	62	65	67	63.7	88.6		
16-Sep	71	79	83	86	89	89	90	87	79	75	68	63	57	52	48	47	44	45	47	52	56	62	71	70	67.1	90.1		
17-Sep	73	73	81	85	82	78	74	71	67	63	55	47	42	37	34	32	31	33	37	55	60	67	69	74	59.2	85.0		
18-Sep	66	72	78	78	84	87	88	79	66	59	53	45	38	36	31	35	35	38	42	47	52	54	52	53	57.0	87.9		
19-Sep	54	55	54	58	71	82	79	66	59	56	57	55	52	48	39	36	37	38	43	49	52	56	58	60	54.8	81.6		
20-Sep	59	59	57	59	63	67	67	60	53	50	45	42	43	40	38	36	37	37	42	48	50	56	61	62	51.3	67.1		
21-Sep	66	67	66	67	66	68	74	77	70	64	55	50	50	49	47	47	48	50	53	55	59	60	66	68	60.0	76.7		
22-Sep	71	74	76	81	80	84	85	85	75	60	51	41	37	34	32	28	27	26	32	43	53	63	71	70	57.5	85.3		
23-Sep	79	80	79	81	85	87	86	82	71	64	55	48	43	38	30	26	23	26	31	48	55	46	35	32	55.4	86.7		
24-Sep	35	47	48	41	37	25	30	36	39	38	36	36	35	34	31	32	32	34	39	44	47	49	50	51	38.5	50.6		
25-Sep	61	64	65	69	75	78	81	73	66	59	52	49	44	36	37	48	80	81	76	75	68	67	66	69	64.3	80.8		
26-Sep	70	68	66	66	66	62	59	57	52	46	48	47	55	48	54	51	54	65	61	46	49	52	55	55	56.4	70.3		
27-Sep	55	55	56	58	65	66	67	66	58	53	48	40	35	34	33	33	33	33	40	44	47	50	52	52	48.9	66.8		
28-Sep	51	53	52	51	52	53	53	51	49	49	47	42	40	39	37	38	39	42	46	58	69	69	65	68	50.5	69.0		
29-Sep	73	75	72	72	74	76	80	79	77	68	63	74	70	71	73	73	71	72	76	81	81	80	79	78	74.6	81.4		
30-Sep	77	77	78	79	80	81	80	79	75	65	59	53	49	51	51	46	35	41	51	53	55	64	67	73	63.3	80.6		
																									Diurnal Average			
																									Diurnal Maximum			

Hourly Averages for Relative Humidity at Henry Pirker September 2009

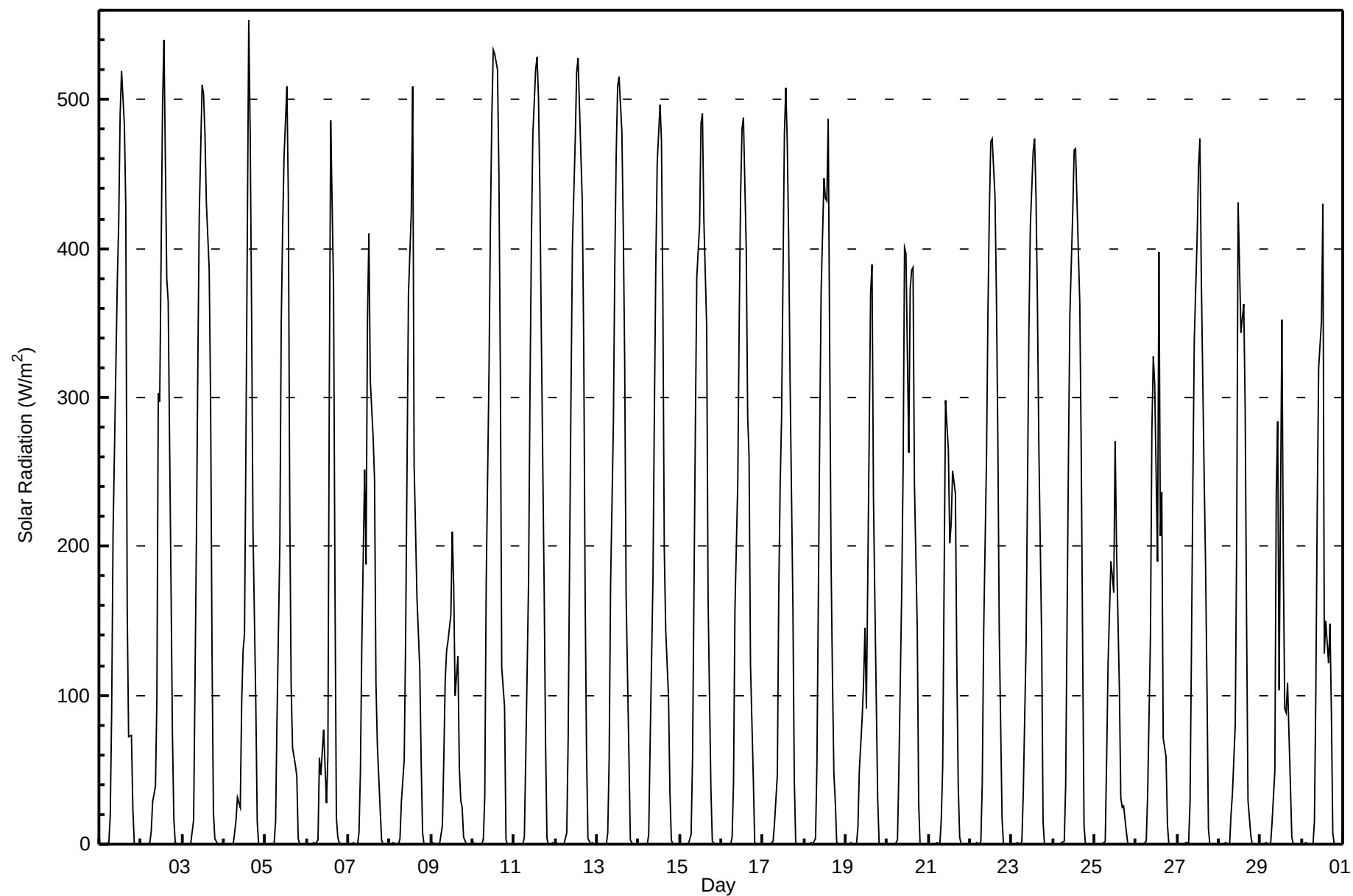


Henry Pirker - Solar Radiation (SR) - W/m²
September 1, 2009 to October 1, 2009

Prepared by FOCUS

Hourly Averages for Solar Radiation at Henry Pirker

September 2009



Peace Airshed Zone Association
Summary of Hourly Averages

Henry Pirker
 September 1, 2009 to October 1, 2009
 WS (km/h), WD (deg)

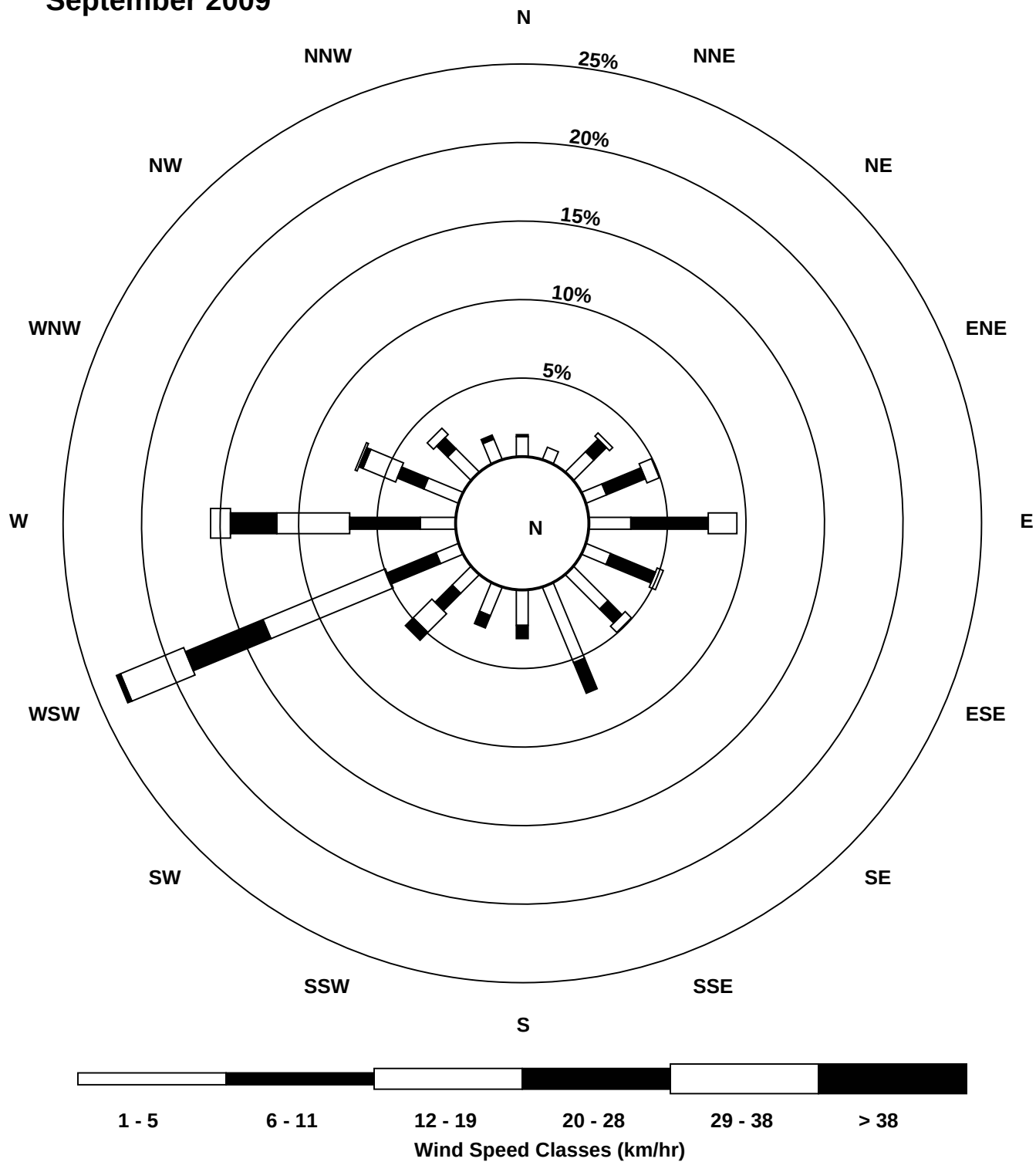
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1 Spd	2	2	3	6	6	5	3	4	6	8	7	5	3	3	5	4	5	3	4	5	3	1	4	1	2.3	8.4
Dir	2	336	30	55	51	52	37	52	79	113	128	97	111	95	98	97	144	241	176	169	195	3	341	351	89.2	113.2
2 Spd	1	4	2	8	7	7	5	4	8	9	13	15	13	10	6	10	12	8	6	4	5	6	6	7	4.9	15.0
Dir	168	303	10	319	329	224	272	251	269	284	304	290	292	283	280	314	324	323	333	3	36	68	85	90	306.2	290.4
3 Spd	4	2	3	2	5	4	3	5	5	6	9	12	14	13	13	14	13	13	11	5	18	18	21	2	3.3	21.4
Dir	89	52	80	70	99	115	91	93	127	75	90	93	85	74	82	84	41	35	42	220	219	252	274	283	81.6	274.0
4 Spd	12	18	19	16	11	14	17	18	16	20	19	20	14	14	22	21	19	20	18	12	8	6	2	2	14.7	21.6
Dir	257	247	251	251	257	262	254	246	254	250	260	269	259	268	269	267	262	264	265	254	241	235	222	258	257.5	268.8
5 Spd	4	3	4	2	2	5	4	2	8	4	8	11	11	13	14	13	9	11	12	12	12	10	10	11	5.8	14.2
Dir	217	280	308	225	207	148	151	261	323	329	85	117	91	76	85	87	65	58	65	72	74	65	69	70	76.5	84.5
6 Spd	14	9	9	7	2	2	7	1	4	6	8	7	4	5	3	4	4	13	5	4	6	11	11	9	1.4	13.6
Dir	76	69	75	79	160	262	349	26	156	181	209	224	201	223	304	328	341	323	317	284	259	242	244	252	264.4	76.1
7 Spd	4	8	9	8	8	12	12	15	19	19	16	16	29	23	23	26	24	20	18	19	29	32	30	30	18.3	32.1
Dir	211	246	233	226	223	226	226	220	221	225	230	232	253	234	227	226	223	225	234	230	243	246	248	249	234.1	246.1
8 Spd	28	27	31	32	33	30	30	30	30	31	37	42	38	39	36	35	32	29	28	22	17	11	10	8	28.5	42.0
Dir	253	254	251	248	248	248	248	248	248	250	252	254	254	252	259	259	255	257	253	257	260	246	253	280	252.7	254.0
9 Spd	3	5	5	2	1	1	2	2	6	1	1	5	4	7	6	6	6	2	3	3	3	1	1	3	2.2	6.6
Dir	330	141	153	171	1	130	174	104	134	189	33	97	113	90	118	90	107	270	25	103	142	118	238	196	118.0	89.6
10 Spd	5	9	11	10	9	9	12	10	13	21	21	19	17	15	16	19	19	17	11	7	8	5	3	4	11.6	21.3
Dir	289	253	253	253	261	268	259	254	262	263	269	258	257	253	244	249	253	264	266	245	240	205	178	161	255.2	268.5
11 Spd	4	4	3	1	5	5	4	4	5	4	3	5	6	7	4	3	4	3	6	8	8	8	8	6	4.2	8.5
Dir	148	156	139	238	151	147	133	159	161	160	164	183	148	158	159	156	153	178	101	102	101	87	88	74	133.6	87.9
12 Spd	6	3	3	3	4	4	3	3	3	4	2	4	2	3	1	3	4	8	9	4	3	3	4	5	0.4	8.8
Dir	75	53	317	272	310	354	211	261	261	287	252	214	227	207	202	67	73	91	106	106	53	12	312	294	34.7	105.7
13 Spd	4	3	4	1	2	1	3	2	3	4	2	3	3	5	8	9	10	8	8	7	7	5	6	5	2.1	9.5
Dir	334	302	305	330	306	295	287	289	296	261	233	161	158	136	105	96	84	56	56	52	55	67	61	63	60.7	83.8
14 Spd	7	4	2	2	2	2	4	2	4	5	2	4	2	2	2	3	5	3	4	2	3	5	3	3	0.6	6.8
Dir	58	52	359	7	43	248	307	24	114	109	151	163	213	61	251	6	99	151	159	184	312	307	283	309	66.8	58.5
15 Spd	3	6	6	8	9	9	9	11	15	13	12	10	6	6	3	3	1	7	4	3	4	5	7	5	3.9	14.8
Dir	255	279	289	273	287	279	265	279	284	302	298	300	288	265	268	84	100	152	138	65	60	49	71	46	290.7	283.6
16 Spd	9	7	6	4	3	4	3	6	9	11	11	11	10	10	9	9	9	9	6	9	13	5	24	14	4.9	24.2
Dir	58	59	54	60	42	62	51	86	105	107	115	109	111	108	108	102	100	91	80	76	92	243	291	301	85.1	290.6
17 Spd	8	13	12	7	8	8	8	10	12	14	20	21	21	20	20	19	14	14	8	3	3	3	3	2	10.1	20.7
Dir	293	287	250	261	274	278	277	272	276	269	262	261	259	247	250	250	262	262	272	263	102	96	95	92	262.8	258.8
18 Spd	5	1	3	4	2	3	3	4	3	5	7	7	6	5	3	10	8	7	8	9	11	10	12	13	5.6	13.0
Dir	108	23	152	166	162	142	149	157	132	130	138	150	176	141	134	90	110	108	110	114	141	142	138	137	131.9	137.3
19 Spd	13	13	10	8	9	14	17	18	17	20	19	17	18	16	27	31	28	23	19	10	10	8	12	13	13.8	31.4
Dir	133	143	153	310	282	286	268	253	249	248	248	256	252	244	249	264	258	247	244	238	222	220	245	239	247.7	263.8
20 Spd	17	16	20	16	16	13	18	22	27	29	28	24	21	21	24	27	25	23	17	12	11	6	6	6	17.7	28.9
Dir	244	244	249	252	247	242	246	251	258	262	273	282	274	265	249	253	263	257	243	234	239	216	198	172	253.8	261.7
21 Spd	7	7	7	7	7	5	2	4	6	8	20	27	26	32	32	31	25	21	18	13	9	6	5	5	11.1	32.2
Dir	134	129	126	137	151	151	197	240	212	234	242	249	256	253	251	249	250	256	252	266	279	241	183	164	241.0	252.8
22 Spd	4	5	2	1	3	3	4	6	5	9	9	12	14	17	16	19	22	19	12	0	2	3	2	2	5.8	21.7
Dir	144	149	105	82	102	178	145	162	189	204	203	231	240	247	237	254	261	259	269	164	124	341	134	95	231.9	261.1

Peace Airshed Zone Association
Summary of Hourly Averages

Henry Pirker
 September 1, 2009 to October 1, 2009
 WS (km/h), WD (deg)

Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24							
23 Spd	1	3	4	4	2	2	3	2	3	3	3	3	5	5	7	10	9	10	7	4	4	6	9	10	2.0	10.0					
Dir	356	16	271	301	325	268	309	268	288	294	228	199	135	127	116	105	93	95	100	289	178	160	148	168	135.0	105.4					
24 Spd	11	7	13	27	30	31	29	30	32	33	34	29	30	25	24	20	25	27	19	15	13	15	15	13	22.4	33.7					
Dir	258	302	275	272	264	258	267	257	247	248	248	255	250	249	272	264	256	255	262	267	251	249	255	244	257.7	248.3					
25 Spd	6	6	7	6	5	4	5	4	4	5	6	7	7	6	3	8	14	5	7	6	11	16	18	18	5.1	18.2					
Dir	179	183	171	152	156	137	145	158	148	158	152	162	146	165	166	271	285	262	255	248	234	242	249	251	213.5	251.5					
26 Spd	17	21	21	22	18	22	21	23	24	32	38	37	32	37	36	33	29	15	13	26	23	19	16	20	23.9	37.8					
Dir	258	248	243	242	250	237	248	247	245	250	259	262	252	251	268	262	297	306	262	248	248	245	243	245	255.0	259.0					
27 Spd	22	23	22	18	10	9	9	8	9	15	16	11	7	9	7	6	6	2	5	7	8	8	8	9	6.6	22.6					
Dir	250	252	254	248	264	260	267	272	261	248	256	273	269	253	242	265	205	208	90	89	92	103	100	86	249.4	252.3					
28 Spd	11	13	14	14	14	15	11	11	12	10	10	11	13	13	12	9	8	6	2	3	3	8	10	7	7.6	14.7					
Dir	87	89	87	84	84	86	83	84	88	97	101	93	106	111	106	82	91	101	88	345	317	296	303	305	86.5	85.5					
29 Spd	7	3	5	4	3	5	1	3	4	9	15	19	18	18	20	20	19	17	17	16	16	15	14	12	11.1	19.8					
Dir	315	188	228	231	221	252	275	289	203	268	271	256	278	279	277	281	290	291	288	286	282	279	275	266	275.7	280.6					
30 Spd	15	15	12	13	12	12	10	12	13	14	13	8	12	15	10	14	20	15	10	8	7	4	3	5	10.4	20.4					
Dir	266	276	275	256	249	248	245	246	250	290	292	284	255	269	283	269	263	268	275	251	269	185	169	153	263.2	263.3					
Spd	2.7	3.9	4.8	5.1	4.7	5.4	6.0	6.5	7.1	8.5	9.3	9.2	8.7	8.5	8.3	8.0	7.7	6.8	4.7	3.9	4.0	4.3	4.3	3.3	Diurnal Average						
Dir	244.0	247.4	245.4	253.3	252.9	246.0	252.9	246.5	243.0	248.0	250.6	249.2	247.8	244.3	248.2	255.2	262.1	262.9	257.1	246.9	235.3	239.6	248.5	238.1	Diurnal Maximum						
Spd	27.6	27.2	31.3	31.5	33.0	30.6	30.3	30.5	31.7	33.0	37.8	42.0	37.7	39.5	36.1	34.7	31.6	29.3	27.6	25.6	28.6	32.1	29.9	30.0	Diurnal Maximum						
Dir	252.8	253.9	250.9	248.1	247.5	257.9	247.5	247.8	247.2	247.6	259.0	254.0	254.2	251.7	267.6	258.7	254.7	257.2	253.1	248.3	242.6	246.1	247.7	248.8							
Maximum Speed Value: 42 km/h on Sep 8 12:00																		Minimum Speed Value: 0 km/h on Sep 22 20:00													
Maximum Daily Speed Average: 28.5 km/h on Sep 8																		Minimum Daily Speed Average: 0.4 km/h on Sep 14													
Maximum Diurnal Speed Average: 9.3 km/h at hour 11																		Minimum Diurnal Speed Average: 2.7 km/h at hour 1													
Monthly Average Velocity: 6.03 km/h 249.29 deg																		Speed Percentiles: P ₁ = 1.0 P ₁₀ = 2.6 Q ₁ = 4.2 Median = 8.2 Q ₃ = 15.0 P ₉₀ = 22.6 P ₉₉ = 36.8													
All monthly, daily, and diurnal averages have been calculated using vector methods																		Percent Operational Time: 100.0													
Percentage Frequency Distribution																															
		Speed Range (km/h)																													
Direction		0 to 5	5 to 11	11 to 19	19 to 28	28 to 38	> 38	Total																							
North		2.36	0.14	0.00	0.00	0.00	0.00	2.50																							
NorthEast		3.19	2.50	0.56	0.00	0.00	0.00	6.25																							
East		3.89	8.33	3.75	0.00	0.00	0.00	15.97																							
SouthEast		5.42	4.17	0.69	0.00	0.00	0.00	10.28																							
South		5.14	2.36	0.00	0.00	0.00	0.00	7.50																							
SouthWest		3.19	4.03	4.31	2.36	0.42	0.00	14.31																							
West		4.31	7.36	10.83	8.19	5.28	0.28	36.25																							
NorthWest		3.75	2.08	0.97	0.00	0.14	0.00	6.94																							
Total		31.25	30.97	21.11	10.56	5.83	0.28	100.00																							

Wind Rose for WS at Henry Pirker September 2009



Peace Airshed Zone Association
Summary of Hourly Averages - Wind Speed (Scalar)

Henry Pirker - Wind Speed (WS) - km/h
September 1, 2009 to October 1, 2009

Maximum Speed: 42 km/h on Sep 8 12:00																				Maximum Daily Speed Average: 28.8 km/h on Sep 8										Hours in Service: 720	
Minimum Speed: 2 km/h on Sep 1 22:00																				Minimum Daily Speed Average: 4.1 km/h on Sep 9										Hours of Data: 720	
Maximum Diurnal Speed Average: 15.2 km/h at hour 16																				Minimum Diurnal Speed Average: 8.7 km/h at hour 5										Hours of Missing Data: 0	
Monthly Average Speed: 11.25 km/h																				Percentiles: P ₁ = 2.4 P ₁₀ = 3.5 Q ₁ = 4.9 Median = 8.5 Q ₃ = 15.1 P ₉₀ = 23.0 P ₉₉ = 36.9										Percent Operational Time: 100.0	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24							
1-Sep	3	3	4	6	6	5	3	4	7	9	7	6	5	5	6	5	5	7	5	5	3	2	4	3	5.0	8.8					
2-Sep	4	4	3	8	8	9	6	5	8	9	13	16	14	11	8	10	13	8	7	4	5	6	6	7	8.0	15.5					
3-Sep	4	4	3	3	6	5	3	6	5	6	9	12	14	14	13	14	13	13	11	16	19	20	22	6	10.2	22.2					
4-Sep	13	18	19	16	11	14	17	18	17	20	19	20	14	15	22	21	19	20	18	12	8	6	3	3	15.1	22.0					
5-Sep	4	4	4	5	4	5	5	4	8	5	9	11	12	14	15	13	9	11	12	13	12	11	10	11	8.7	14.7					
6-Sep	14	9	9	7	3	4	7	3	5	6	8	8	4	5	5	6	6	14	6	8	10	11	11	10	7.4	13.7					
7-Sep	5	8	9	8	8	12	12	15	19	19	16	17	30	23	23	26	24	20	18	19	29	32	30	30	18.9	32.3					
8-Sep	28	27	31	32	33	31	30	31	30	31	37	42	38	40	36	35	32	30	28	22	17	11	10	10	28.8	42.3					
9-Sep	4	5	5	4	3	2	2	4	6	3	3	6	5	7	6	6	6	3	3	3	3	2	3	3	4.1	6.9					
10-Sep	5	9	11	10	9	9	12	11	13	21	21	19	18	15	17	20	19	17	11	7	8	6	4	4	12.4	21.5					
11-Sep	5	4	4	3	5	5	4	4	5	5	4	6	7	7	6	4	5	4	6	8	8	8	8	6	5.5	8.5					
12-Sep	6	4	3	3	4	4	4	4	3	5	3	5	4	4	4	5	5	9	9	4	4	4	4	5	4.5	9.1					
13-Sep	4	4	5	3	3	2	3	3	3	5	3	4	4	6	8	10	10	8	8	7	7	5	6	5	5.2	9.9					
14-Sep	7	5	3	3	3	2	5	3	5	5	3	5	4	5	5	5	5	4	5	3	3	5	4	4	4.1	6.9					
15-Sep	4	6	6	8	9	10	9	11	15	14	12	10	7	6	5	4	4	8	5	4	5	5	7	6	7.4	15.0					
16-Sep	9	7	7	5	3	4	3	6	9	12	12	12	10	10	9	9	9	9	7	9	13	14	24	14	9.4	24.5					
17-Sep	8	14	12	8	8	8	8	10	13	14	20	21	21	20	20	19	15	14	8	3	3	3	3	2	11.5	21.2					
18-Sep	5	5	4	4	4	4	4	5	3	5	7	7	7	6	6	10	8	7	8	9	11	10	12	13	6.9	13.1					
19-Sep	13	13	13	9	9	14	17	18	18	20	20	17	18	16	27	32	29	23	19	10	10	8	12	13	16.6	31.8					
20-Sep	17	16	20	16	16	13	18	22	27	29	28	24	21	21	25	28	26	24	18	12	11	7	7	6	18.8	29.2					
21-Sep	7	7	7	7	7	5	4	5	6	9	20	27	26	32	32	31	25	22	18	13	9	7	5	5	14.0	32.5					
22-Sep	4	5	3	3	4	3	4	6	6	9	9	13	15	17	16	19	22	19	12	4	2	3	3	2	8.5	21.9					
23-Sep	2	3	4	4	3	3	3	3	3	4	4	4	6	6	8	10	10	10	8	4	4	6	9	10	5.5	10.4					
24-Sep	11	8	14	27	30	31	30	30	32	33	34	30	30	25	24	21	25	27	19	15	13	15	15	13	23.0	33.9					
25-Sep	6	7	7	6	5	4	5	4	4	5	6	8	7	7	4	8	14	7	7	7	11	16	18	18	8.0	18.4					
26-Sep	17	21	21	22	18	22	21	23	25	32	38	37	32	37	37	33	31	15	13	26	23	19	16	20	25.0	38.1					
27-Sep	22	23	22	18	10	9	9	8	10	15	16	12	8	9	8	7	6	3	5	7	8	8	8	9	10.9	22.6					
28-Sep	12	13	14	14	14	15	11	11	12	10	11	11	14	13	13	10	8	6	3	3	3	8	10	7	10.3	14.8					
29-Sep	7	4	5	4	4	5	3	4	5	9	16	20	19	18	20	20	19	18	17	16	17	15	14	12	12.2	20.1					
30-Sep	15	15	12	13	12	12	10	13	13	14	13	8	13	16	10	14	21	15	10	8	7	4	4	5	11.6	20.9					
8.8 9.1 9.5 9.2 8.7 9.1 9.2 9.8 11.1 12.8 14.1 14.5 14.2 14.4 14.6 15.2 14.7 13.2 10.8 9.4 9.6 9.3 9.7 8.8																									Diurnal Average						
27.7 27.3 31.5 31.6 33.1 30.8 30.3 30.6 31.9 33.2 38.1 42.3 38.1 39.7 36.9 35.0 31.9 29.6 27.7 25.6 28.8 32.3 30.0 30.1																									Diurnal Maximum						
All monthly, daily, and diurnal averages have been calculated using scalar methods																															

Peace Airshed Zone Association
Summary of Hourly Standard Deviations

Henry Pirker - Wind Direction (WD) - deg
September 1, 2009 to October 1, 2009

Maximum Value: 96.9 deg on Sep 9 11:00																									Hours in Service: 720
Minimum Value: 3.6 deg on Sep 27 03:00																									Hours of Data: 720
Percentiles: P ₁ = 4.4 P ₁₀ = 6.2 Q ₁ = 8.2 Median = 13.9 Q ₃ = 30.0 P ₉₀ = 54.7 P ₉₉ = 87.2																									Hours of Missing Data: 0
																									Hours of Calibration: 0
																									Percent Operational Time: 100.0
Day	Hourly Period Ending At (MST)																								Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Sep	41	55	33	13	15	18	27	35	22	17	27	40	62	59	47	60	37	63	36	7	26	82	20	71	82.1
2-Sep	84	31	69	19	26	39	40	44	12	13	11	15	17	23	47	18	15	20	22	23	18	13	11	14	84.0
3-Sep	39	66	57	52	30	34	52	23	28	21	14	16	11	15	19	19	15	13	12	87	15	26	17	87	87.0
4-Sep	18	6	5	6	10	7	7	6	7	6	8	5	9	10	11	11	12	10	7	8	10	27	48	32	48.2
5-Sep	21	43	27	70	61	11	30	67	12	55	30	18	25	13	16	12	18	9	9	8	7	7	8	10	69.7
6-Sep	7	10	10	13	61	79	15	94	26	30	19	21	20	21	63	55	43	14	58	71	65	7	10	31	93.9
7-Sep	35	9	13	9	10	7	7	7	6	8	10	11	11	13	9	9	8	8	7	9	8	5	5	4	34.6
8-Sep	5	5	5	4	4	5	4	4	4	6	6	7	9	6	8	8	7	7	6	5	7	18	13	38	37.6
9-Sep	53	19	20	77	83	59	50	70	19	72	97	32	39	17	29	20	18	59	33	43	12	76	73	30	96.9
10-Sep	13	9	8	8	7	9	7	10	13	8	8	11	15	16	14	13	12	8	9	17	14	43	42	39	43.1
11-Sep	24	25	29	76	13	21	27	13	15	31	44	24	34	21	51	51	56	35	13	5	6	5	5	8	75.6
12-Sep	14	32	36	16	23	39	29	45	36	36	57	50	69	62	89	59	37	16	14	14	28	46	22	13	89.2
13-Sep	20	41	31	70	47	58	29	34	39	20	47	44	59	47	24	16	16	12	12	11	14	14	10	14	69.6
14-Sep	6	46	51	51	51	50	26	43	24	23	78	51	75	81	88	64	20	30	23	32	28	16	20	42	87.7
15-Sep	25	12	10	7	9	9	10	6	10	13	13	18	38	27	61	73	91	18	32	28	12	14	10	18	91.1
16-Sep	8	11	15	19	17	12	26	10	10	13	13	18	26	23	24	16	16	11	9	8	8	78	10	13	78.3
17-Sep	12	12	11	29	10	14	10	10	11	9	8	9	13	12	13	12	16	10	10	16	43	9	36	55	55.4
18-Sep	18	88	54	43	71	53	65	65	35	26	20	20	39	56	77	17	19	10	8	6	9	7	7	8	87.9
19-Sep	5	7	44	21	9	7	8	6	7	7	8	8	8	12	13	9	9	9	6	12	7	8	6	6	44.2
20-Sep	6	6	5	5	5	8	5	5	6	8	7	7	12	14	16	10	10	11	7	12	12	35	25	13	35.4
21-Sep	13	10	13	17	11	26	66	38	18	29	9	7	9	8	8	5	7	7	7	9	6	14	14	27	66.0
22-Sep	30	16	73	73	38	45	13	8	20	8	16	17	12	11	12	15	8	7	10	96	39	54	81	23	95.8
23-Sep	63	55	28	28	51	62	42	37	32	41	47	52	41	32	22	16	14	6	36	49	32	19	7	11	63.0
24-Sep	21	15	13	5	6	7	10	8	5	7	7	8	8	9	13	14	8	7	7	7	7	5	6	16	20.7
25-Sep	17	9	5	14	8	46	19	13	19	15	13	12	18	16	66	45	11	39	25	36	14	8	7	9	66.3
26-Sep	11	5	5	5	7	11	5	6	5	7	8	9	9	6	12	8	19	10	12	4	4	5	6	4	19.5
27-Sep	5	4	4	7	15	25	9	10	20	9	12	21	37	30	26	35	27	69	14	7	6	6	6	6	68.7
28-Sep	6	6	7	6	5	6	7	6	8	13	13	19	19	19	21	17	21	17	89	25	31	12	5	9	88.9
29-Sep	16	48	24	31	52	29	77	43	38	18	13	15	10	10	10	9	8	7	6	5	5	7	7	6	77.1
30-Sep	6	8	6	7	5	5	7	5	8	17	11	28	26	10	12	13	12	10	8	17	17	27	38	11	38.4
84.0 87.9 72.6 76.6 82.9 79.4 77.1 93.9 38.7 71.7 96.9 51.8 74.6 81.1 89.2 73.3 91.1 68.7 88.9 95.8 65.5 82.1 81.0 87.0																									

PASZA

Evergreen Park Station

Monthly Summary Tables, Graphs and Roses

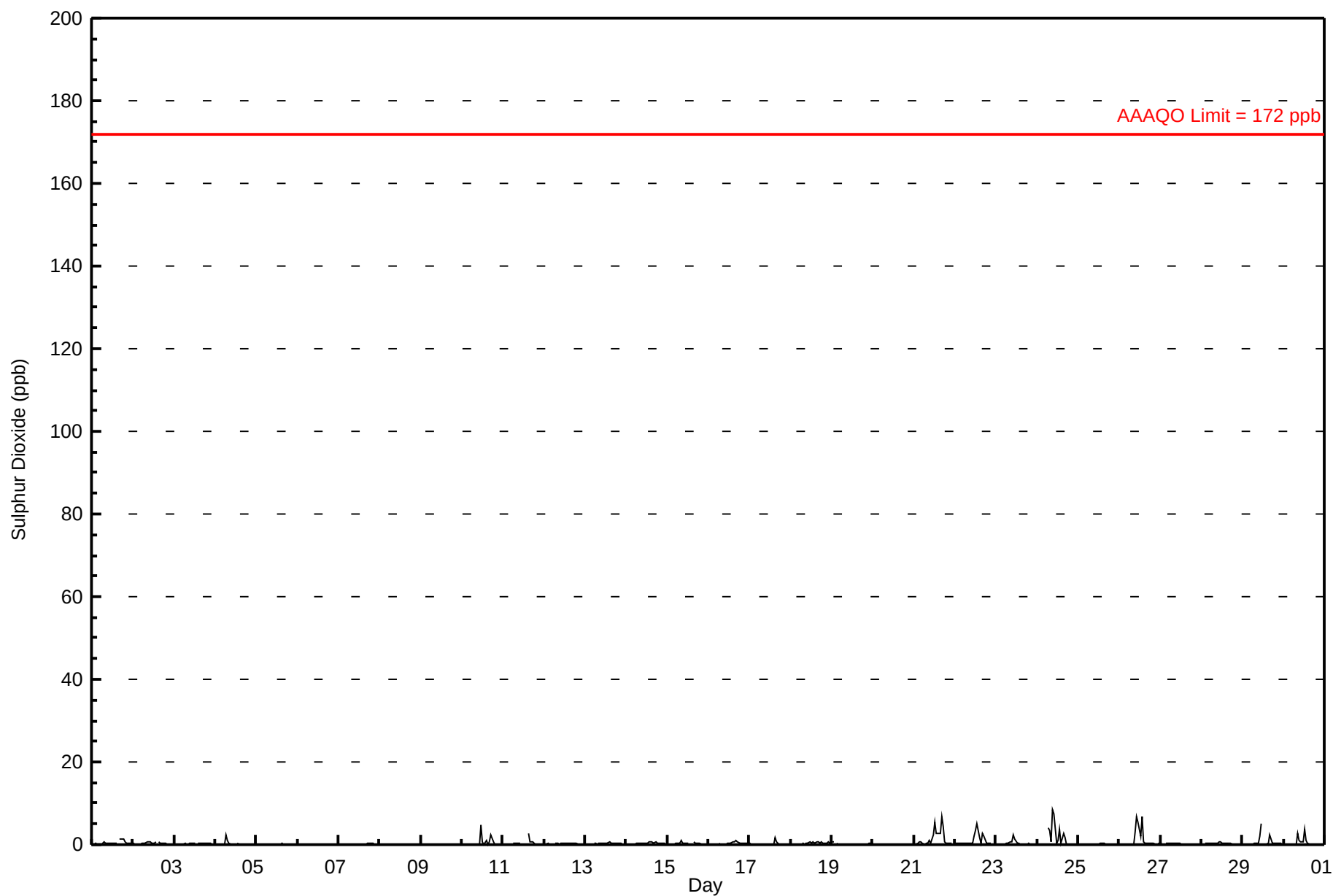
Peace Airshed Zone Association
Summary of Hourly Averages

Evergreen Park - Sulphur Dioxide (SO₂) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0 Maximum Value: 8.5 ppb on Sep 24 10:00 Maximum Daily Average: 1.5 ppb on Sep 24																				Hours in Service: 720 Hours of Data: 682						
Minimum Value: 0 ppb on Sep 4 19:00 Maximum Diurnal Average: 1.0 ppb at hour 14 Monthly Average: 0.38 ppb																				Minimum Daily Average: 0.0 ppb on Sep 9 Minimum Diurnal Average: 0.1 ppb at hour 3 Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.1 Median = 0.1 Q ₃ = 0.3 P ₉₀ = 0.6 P ₉₉ = 5.4		Hours of Missing Data: 38 Hours of Calibration: 36 Percent Operational Time: 99.7				
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	A	1	1	1	1	0	0	0	0	0.4	1.3
2-Sep	0	0	0	0	0	0	0	0	1	1	1	0	0	1	A	1	0	0	0	0	0	0	0	0	0.3	0.7
3-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.2	0.5
4-Sep	0	0	0	0	0	0	2	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	2.4
5-Sep	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
6-Sep	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
7-Sep	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	0.2
8-Sep	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
9-Sep	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
10-Sep	0	0	0	0	A	0	0	0	0	0	0	5	1	0	1	0	1	2	1	0	0	0	0	0	0.5	4.8
11-Sep	0	0	0	0	0	A	0	0	0	0	0	C	C	C	A	3	1	1	0	0	0	0	0	0	0.4	2.6
12-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
13-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.3	0.6
14-Sep	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0.3	0.6
15-Sep	0	0	A	0	0	0	0	0	1	0	0	0	0	C	C	1	0	1	0	0	0	0	0	0	0.3	1.0
16-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0.3	0.9
17-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0.1	1.6
18-Sep	0	0	0	A	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	0	0	0	1	0	0.3	0.8
19-Sep	1	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	0.8
20-Sep	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	0.2
21-Sep	A	0	0	1	1	0	0	0	0	1	0	2	6	3	3	3	7	4	1	0	0	0	0	A	1.5	6.7
22-Sep	0	0	0	0	0	0	0	0	0	0	0	2	3	5	2	0	3	2	0	0	0	0	A	0	0.9	5.1
23-Sep	0	0	0	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.2
24-Sep	0	0	0	0	0	A	4	3	1	9	8	0	1	4	0	3	2	0	0	0	0	0	0	0	1.5	8.5
25-Sep	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
26-Sep	0	0	0	A	0	0	0	0	0	3	7	5	2	7	1	0	0	0	0	0	0	0	0	0	1.2	6.8
27-Sep	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	0.3
28-Sep	0	A	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
29-Sep	A	0	0	0	0	0	0	0	0	0	2	5	N	N	0	0	2	0	0	0	0	0	0	0	0.6	5.2
30-Sep	0	0	0	0	0	A	0	0	3	1	1	1	4	1	0	0	0	0	0	0	0	0	0	0	0.5	3.9
																									Diurnal Average	
																									Diurnal Maximum	
C - Calibration N - Not Valid A - Automated Daily Zero Span																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 57 ppb																										

Hourly Averages for SO₂ at Evergreen Park

September 2009



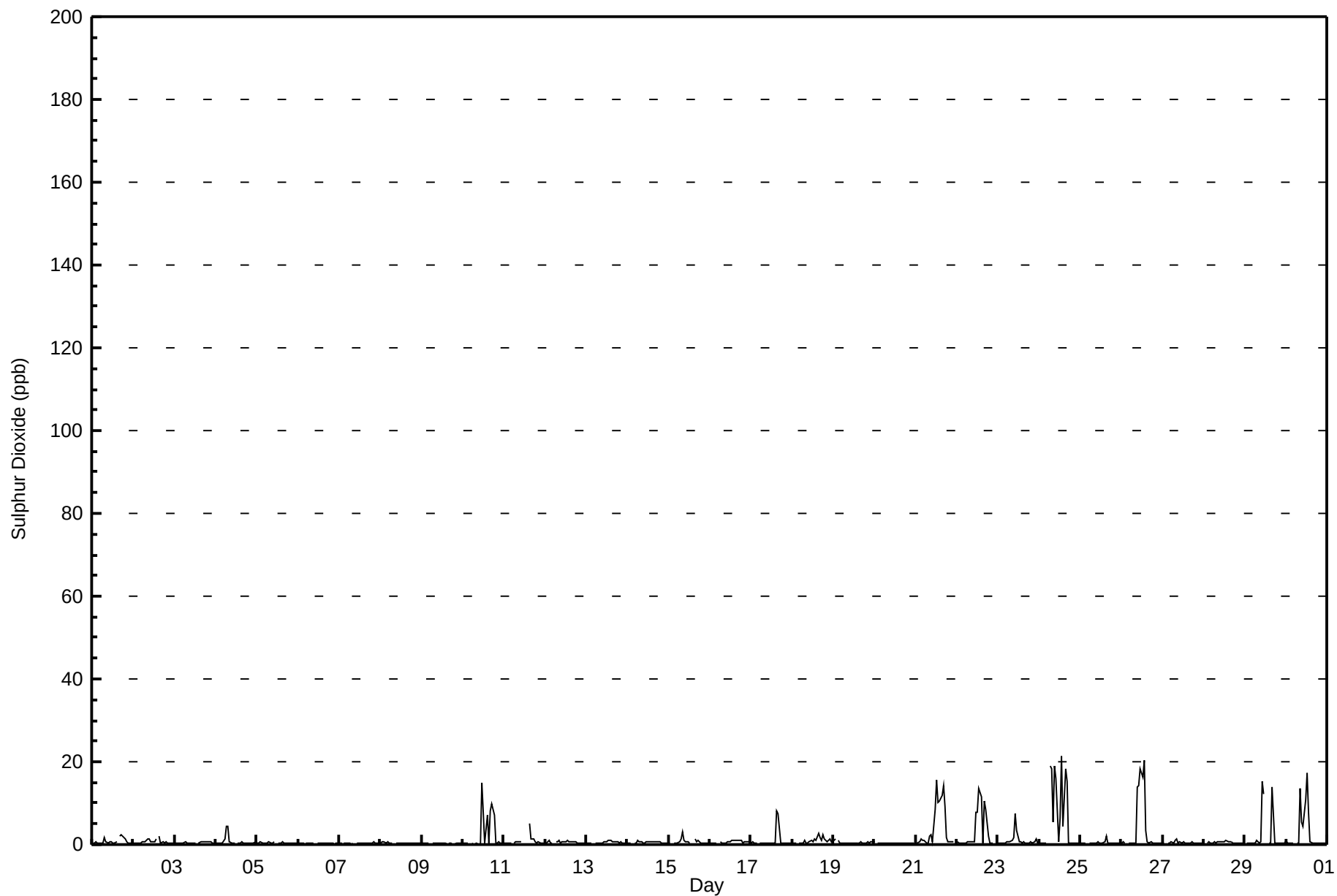
Peace Airshed Zone Association
Summary of Hourly Maximums

Evergreen Park - Sulphur Dioxide (SO₂) - ppb
September 1, 2009 to October 1, 2009

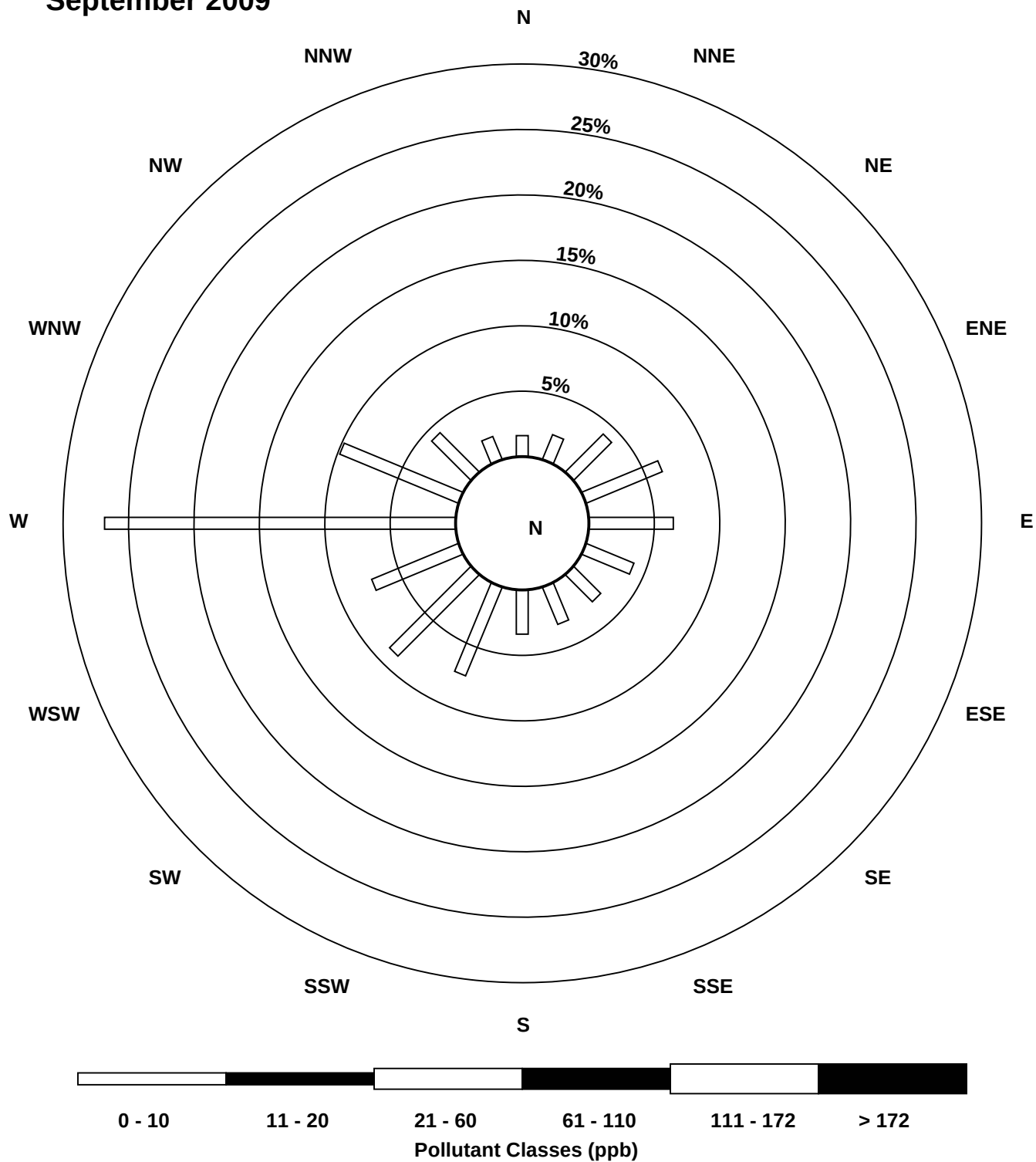
Maximum Value: 21.2 ppb on Sep 24 14:00																				Maximum Daily Average: 6.4 ppb on Sep 24					Hours in Service: 720	
Minimum Value: 0 ppb on Sep 10 07:00																				Minimum Daily Average: 0.3 ppb on Sep 9					Hours of Data: 682	
Maximum Diurnal Average: 3.3 ppb at hour 14																				Minimum Diurnal Average: 0.4 ppb at hour 5					Hours of Missing Data: 38	
Monthly Average: 1.31 ppb																				Percentiles: P ₁ = 0.1 P ₁₀ = 0.3 Q ₁ = 0.4 Median = 0.4 Q ₃ = 0.6 P ₉₀ = 1.3 P ₉₉ = 18.1					Hours of Calibration: 36	
																				Percent Operational Time: 99.7						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	0	0	1	0	0	0	0	2	1	0	1	1	0	0	1	A	2	2	2	1	1	0	0	0	0.8	2.2
2-Sep	0	0	0	0	0	1	1	1	1	1	1	1	1	1	A	2	0	1	0	1	0	0	0	0	0.7	2.2
3-Sep	0	0	0	0	0	0	1	0	0	0	0	0	1	A	0	1	1	1	1	1	1	1	0	0	0.5	0.7
4-Sep	0	0	0	0	0	1	4	4	1	0	0	0	A	0	0	1	0	0	0	0	0	0	0	1	0.8	4.4
5-Sep	0	0	1	0	0	0	0	1	0	0	1	A	0	0	0	1	0	0	0	0	0	0	0	0	0.4	0.6
6-Sep	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4
7-Sep	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.4	0.6
8-Sep	0	1	1	0	1	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
9-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
10-Sep	0	0	0	0	A	0	0	0	0	0	0	15	8	0	7	0	8	10	7	0	0	1	0	0	2.6	15.0
11-Sep	0	0	0	0	0	A	0	1	1	1	1	C	C	C	A	5	1	1	1	0	1	0	0	0	0.8	5.1
12-Sep	0	0	1	0	0	A	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0.6	1.2
13-Sep	0	0	0	0	A	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0.6	1.0
14-Sep	0	0	0	A	0	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0.6	1.0
15-Sep	0	0	A	0	0	0	1	1	3	1	1	1	0	C	C	1	1	1	1	0	0	0	0	0	0.7	3.0
16-Sep	0	0	0	0	0	A	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0.6	1.2
17-Sep	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	8	7	0	0	0	0	0	0	0	1.0	8.0
18-Sep	0	0	0	A	0	0	0	1	0	0	1	1	1	1	1	3	2	1	2	1	1	1	1	1	0.9	2.6
19-Sep	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	0.5	1.2
20-Sep	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
21-Sep	A	0	1	1	1	1	0	0	2	2	1	9	16	10	10	12	14	9	2	1	1	1	1	A	4.3	15.6
22-Sep	1	0	0	0	0	0	1	1	1	1	1	8	8	14	11	0	11	9	2	0	0	0	A	0	3.0	13.6
23-Sep	0	0	0	0	0	1	1	1	1	2	7	3	1	1	0	1	0	0	0	1	0	1	1	0	1.0	7.4
24-Sep	0	0	0	0	0	A	19	18	6	19	16	1	6	21	4	18	15	0	1	0	0	0	0	0	6.4	21.2
25-Sep	0	0	0	0	A	0	0	0	0	0	1	0	1	0	1	2	0	0	0	0	0	0	0	0	0.4	1.9
26-Sep	0	1	0	A	0	0	0	0	0	14	14	18	16	20	4	1	0	1	0	0	0	0	0	0	4.0	20.3
27-Sep	0	0	A	1	0	1	0	1	1	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0	0.5	1.2
28-Sep	0	A	0	1	0	0	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.6	0.9
29-Sep	A	0	0	0	0	0	0	1	0	1	15	12	N	N	0	0	14	0	0	0	0	0	1	0	2.4	15.3
30-Sep	1	0	0	0	0	A	0	0	14	5	4	11	17	8	1	0	0	0	0	0	0	0	0	0	2.9	17.2
0.4 0.4 0.4 0.4 0.4 0.5 1.2 1.3 1.3 1.9 2.4 3.1 3.0 3.3 1.8 2.1 2.8 1.4 0.9 0.5 0.4 0.4 0.5 0.4																								Diurnal Average		
1.1 1.2 0.9 1.3 1.0 1.3 18.8 18.2 13.7 19.1 15.9 18.1 17.2 21.2 11.4 18.4 15.2 9.7 7.2 1.3 0.7 1.0 1.4 0.6																								Diurnal Maximum		
C - Calibration N - Not Valid A - Automated Daily Zero Span																										

Hourly Maximums for SO₂ at Evergreen Park

September 2009



Pollutant Rose for SO₂ at Evergreen Park **September 2009**



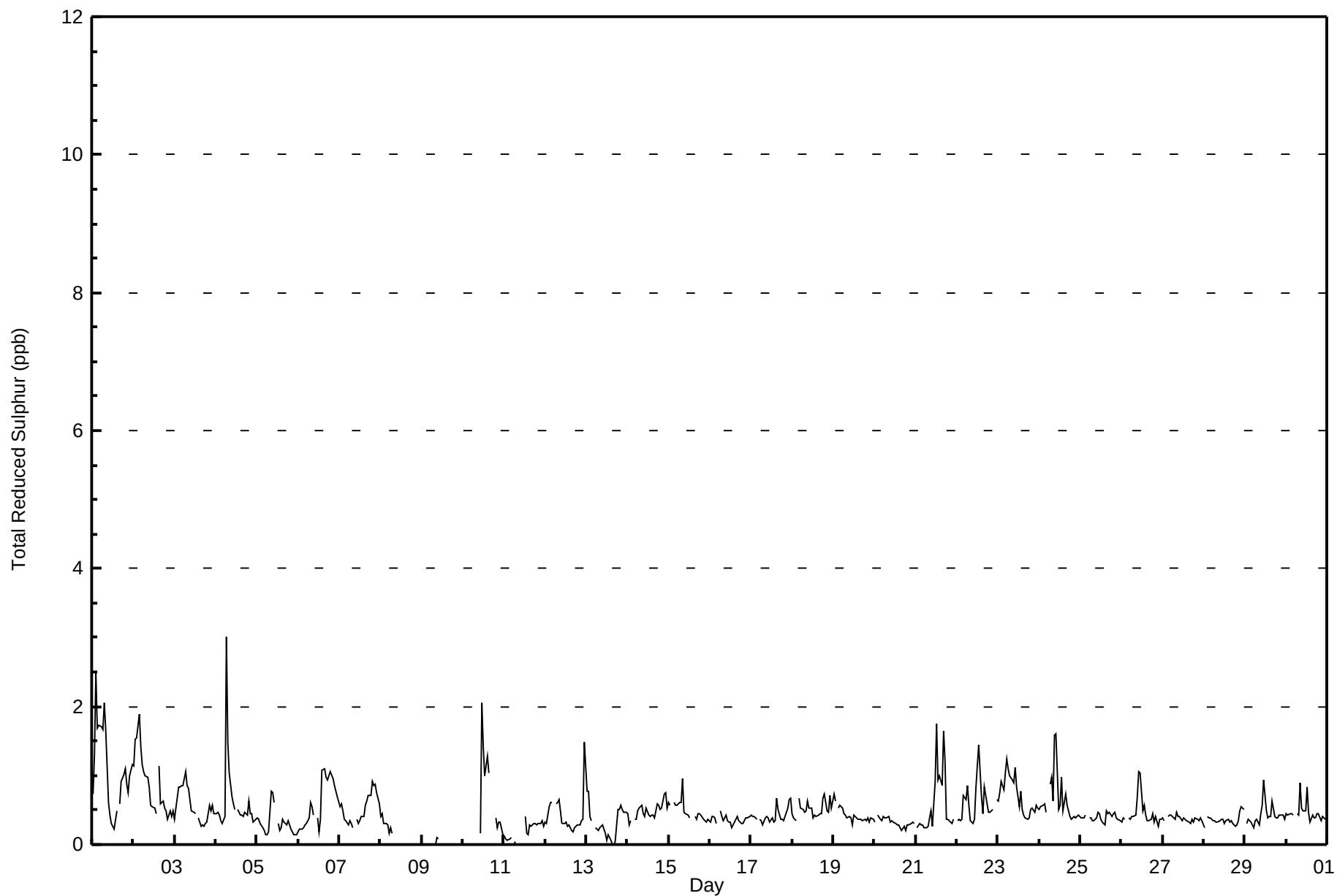
Peace Airshed Zone Association
Summary of Hourly Averages

Evergreen Park - Total Reduced Sulphur (TRS) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): Maximum Value: 3.0 ppb on Sep 4 07:00																			1-hr: 0 24-hr: 0 Maximum Daily Average: 1.1 ppb on Sep 1					Hours in Service: 720 Hours of Data: 639		
Minimum Value: 0 ppb on Sep 9 07:00 Maximum Diurnal Average: 0.6 ppb at hour 7 Monthly Average: 0.50 ppb																			Minimum Daily Average: 0.2 ppb on Sep 11 Minimum Diurnal Average: 0.4 ppb at hour 22 Percentiles: P ₁ = 0.0 P ₁₀ = 0.3 Q ₁ = 0.3 Median = 0.4 Q ₃ = 0.6 P ₉₀ = 0.9 P ₉₉ = 1.6					Hours of Missing Data: 81 Hours of Calibration: 41 Percent Operational Time: 94.4		
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	1	1	3	2	2	2	2	2	2	1	0	0	0	0	0	A	1	1	1	1	1	1	1	1	1.1	2.5
2-Sep	1	2	2	2	1	1	1	1	1	1	1	1	1	0	A	1	1	1	1	0	0	0	0	0	0.9	1.9
3-Sep	0	1	1	1	1	1	1	1	1	1	0	0	0	A	0	0	0	0	0	0	1	0	1	0	0.6	1.1
4-Sep	0	0	0	0	0	0	3	1	1	1	1	1	A	1	0	0	0	0	0	1	0	0	0	0	0.6	3.0
5-Sep	0	0	0	0	0	0	0	0	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
6-Sep	0	0	0	0	0	0	0	1	1	0	A	0	0	0	1	1	1	1	1	1	1	1	1	1	0.6	1.1
7-Sep	1	1	0	0	0	0	0	0	0	A	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0.5	0.9
8-Sep	0	0	0	0	0	0	0	0	A	BD	BD	BD	BD	BD	BD	BD	BD	A	A	BD	BD	BD	BD	BD	--	0.5
9-Sep	BD	BD	BD	BD	BD	A	0	0	0	0	0	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	--	0.1
10-Sep	BD	BD	BD	BD	BD	BD	BD	BD	BD	A	0	2	1	1	1	1	C	C	A	0	0	0	0	0	--	2.1
11-Sep	0	0	0	0	0	A	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
12-Sep	0	0	1	1	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	1.5
13-Sep	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0.3	0.8
14-Sep	0	0	0	A	0	0	0	1	1	0	0	1	0	0	0	0	0	1	1	0	1	1	1	1	0.5	0.7
15-Sep	1	1	A	1	1	1	1	1	1	0	0	0	0	C	C	0	0	0	0	0	0	0	0	0	0.5	0.9
16-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
17-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0.4	0.7
18-Sep	0	0	0	A	1	1	1	0	0	1	1	1	0	0	0	0	0	0	1	1	0	0	1	1	0.5	0.7
19-Sep	1	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7
20-Sep	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
21-Sep	A	0	0	0	0	0	0	0	0	0	1	2	1	1	1	1	2	1	0	0	0	0	0	A	0.6	1.7
22-Sep	0	0	0	0	1	1	1	1	0	0	0	1	1	1	1	0	1	1	0	0	0	1	A	1	0.6	1.4
23-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	0	1	1	0.7	1.2
24-Sep	1	1	1	1	0	A	1	1	1	2	2	1	1	1	0	1	1	0	0	0	0	0	0	0	0.7	1.6
25-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
26-Sep	0	0	0	A	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0.5	1.1
27-Sep	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	0.5
28-Sep	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	0.5
29-Sep	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0.4	0.9
30-Sep	0	0	0	0	0	A	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.5	0.9
0.5 0.5 0.5 0.5 0.5 0.5 0.6 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.4 0.5 0.5																									Diurnal Average	
1.1 1.5 2.5 1.9 1.7 1.7 3.0 2.1 1.7 1.6 1.6 2.1 1.7 1.4 1.3 1.1 1.6 1.2 1.0 1.1 0.9 0.9 1.0 1.5																									Diurnal Maximum	
C - Calibration BD - Baseline Drift A - Automated Daily Zero Span																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 10 ppb 24-hr 3 ppb																										

Hourly Averages for TRS at Evergreen Park

September 2009



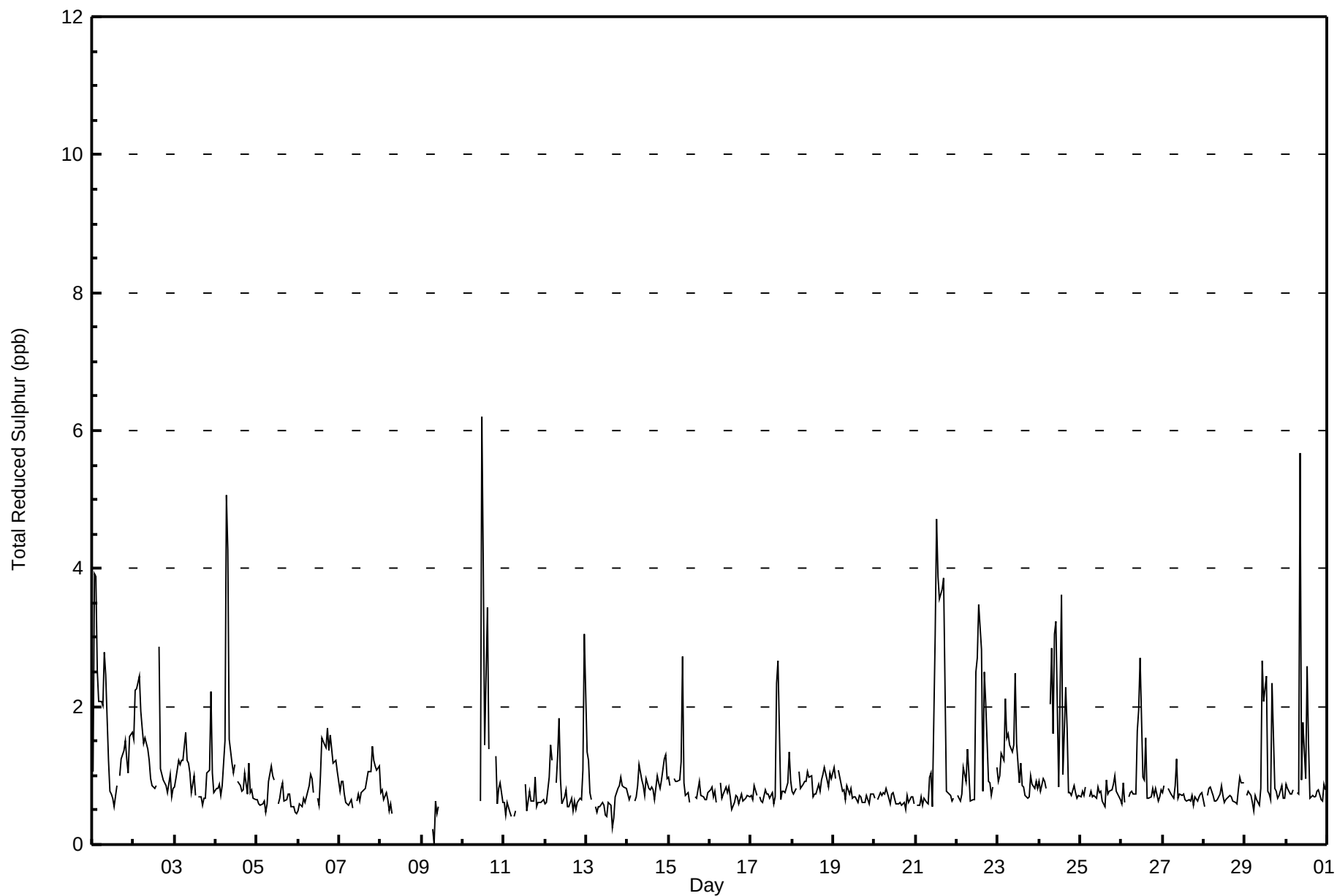
**Peace Airshed Zone Association
Summary of Hourly Maximums**

**Evergreen Park - Total Reduced Sulphur (TRS) - ppb
September 1, 2009 to October 1, 2009**

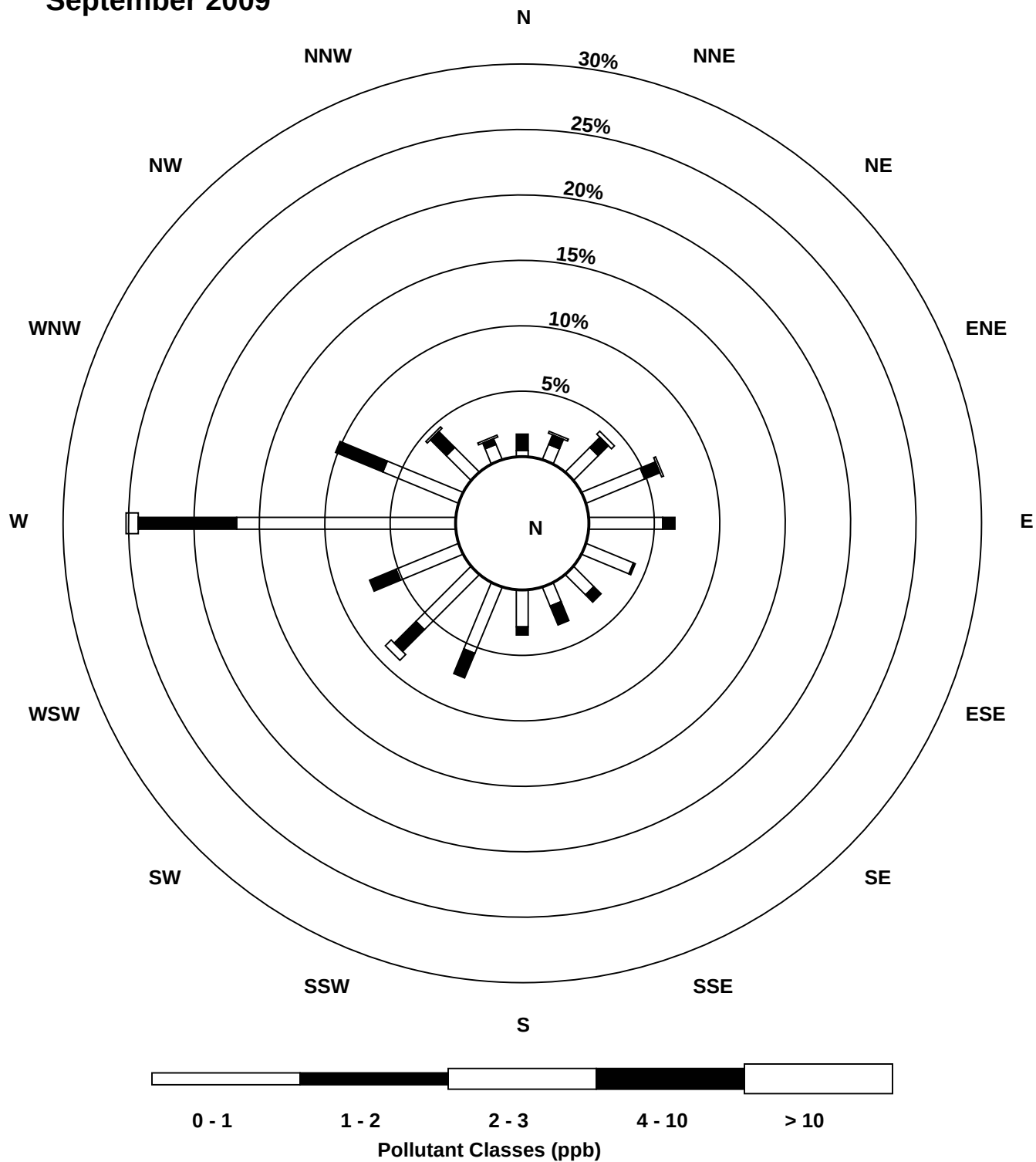
Maximum Value: 6.2 ppb on Sep 10 12:00																			Maximum Daily Average: 1.7 ppb on Sep 1						Hours in Service: 720	
Minimum Value: 0 ppb on Sep 9 08:00																			Minimum Daily Average: 0.6 ppb on Sep 11						Hours of Data: 639	
Maximum Diurnal Average: 1.3 ppb at hour 12																			Minimum Diurnal Average: 0.8 ppb at hour 21						Hours of Missing Data: 81	
Monthly Average: 1.00 ppb																			Percentiles: P ₁ = 0.4 P ₁₀ = 0.6 Q ₁ = 0.7 Median = 0.8 Q ₃ = 1.0 P ₉₀ = 1.6 P ₉₉ = 3.9						Hours of Calibration: 41	
																			Percent Operational Time: 94.4							
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
1-Sep	1	4	4	3	2	2	2	3	2	1	1	1	1	1	1	A	1	1	1	2	1	1	2	2	1.7	3.9
2-Sep	2	2	2	2	2	2	1	2	1	1	1	1	1	1	A	3	1	1	1	1	1	1	1	1	1.4	2.9
3-Sep	1	1	1	1	1	1	2	1	1	1	1	1	1	A	1	1	1	1	1	1	1	2	1	1	1.0	2.2
4-Sep	1	1	1	1	1	2	5	4	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1.3	5.1
5-Sep	1	1	1	1	1	0	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	0.7	1.1
6-Sep	0	1	1	1	1	1	1	1	1	1	A	1	1	1	2	1	1	2	1	2	1	1	1	1	1.0	1.7
7-Sep	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4
8-Sep	1	1	1	1	1	0	1	0	A	BD	BD	BD	BD	BD	BD	BD	BD	A	A	BD	BD	BD	BD	BD	--	0.8
9-Sep	BD	BD	BD	BD	BD	A	0	0	1	0	1	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	--	0.6
10-Sep	BD	BD	BD	BD	BD	BD	BD	BD	BD	A	1	6	4	1	3	1	C	C	A	1	1	1	1	1	--	6.2
11-Sep	1	0	1	0	0	A	0	0	C	C	C	C	1	0	1	1	1	1	1	1	1	1	1	1	0.6	1.0
12-Sep	1	1	1	1	1	A	1	1	2	1	1	1	1	1	1	1	0	1	1	1	1	1	1	3	0.9	3.1
13-Sep	1	1	1	1	A	1	0	1	1	1	1	0	0	1	1	0	0	1	1	1	1	1	1	1	0.7	1.3
14-Sep	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
15-Sep	1	1	A	1	1	1	1	1	3	1	1	1	1	C	C	1	1	1	1	1	1	1	1	1	0.9	2.7
16-Sep	1	1	1	1	1	A	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0.7	0.9
17-Sep	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	2	3	1	1	1	1	1	1	1	0.9	2.7
18-Sep	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	1.1
19-Sep	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1
20-Sep	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
21-Sep	A	1	1	1	1	1	1	1	1	1	1	3	5	4	4	4	4	2	1	1	1	1	1	A	1.6	4.7
22-Sep	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	1	2	2	1	1	1	1	A	1	1.3	3.5
23-Sep	1	1	1	1	2	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2	2.5
24-Sep	1	1	1	1	1	A	2	3	2	3	3	1	2	4	1	2	2	1	1	1	1	1	1	1	1.5	3.6
25-Sep	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
26-Sep	1	1	1	A	1	1	1	1	1	2	2	3	1	1	2	1	1	1	1	1	1	1	1	1	1.0	2.7
27-Sep	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.3
28-Sep	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
29-Sep	A	1	1	1	1	0	1	1	1	1	3	2	2	1	1	1	2	1	1	1	1	1	1	1	1.0	2.7
30-Sep	1	1	1	1	1	A	1	1	6	1	2	1	3	1	1	1	1	1	1	1	1	1	1	1	1.1	5.7
		0.8	1.0	1.0	1.0	0.9	0.9	1.1	1.1	1.3	1.0	1.1	1.3	1.2	1.1	1.1	1.1	1.1	0.9	0.8	0.9	0.8	0.9	0.9	0.9	Diurnal Average
		1.5	3.9	3.9	2.5	2.1	2.1	5.1	4.3	5.7	3.0	3.2	6.2	4.7	3.9	3.6	3.7	3.9	2.3	1.4	1.6	1.2	2.2	1.6	3.1	Diurnal Maximum
C - Calibration		BD - Baseline Drift							A - Automated Daily Zero Span																	

Hourly Maximums for TRS at Evergreen Park

September 2009



Pollutant Rose for TRS at Evergreen Park **September 2009**

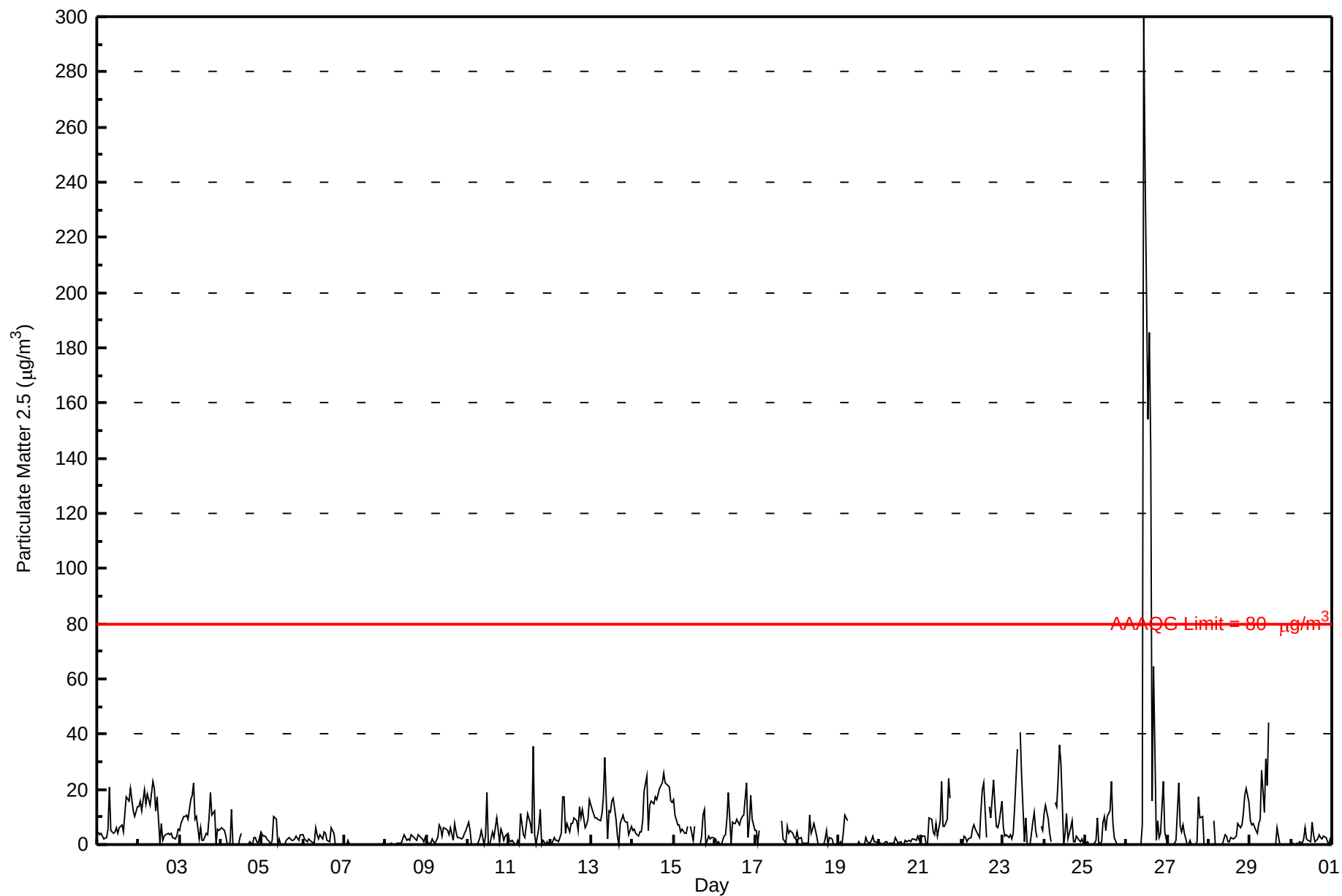


Peace Airshed Zone Association
Summary of Hourly Averages

Evergreen Park - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
September 1, 2009 to October 1, 2009

Number of Exceedences: 1-hr: 5 24-hr: 1 Maximum Value: 299.7 µg/m³ on Sep 26 11:00 Minimum Value: 0 µg/m³ on Sep 3 22:00 Maximum Diurnal Average: 17.4 µg/m³ at hour 11 Monthly Average: 6.91 µg/m³																					Maximum Daily Average: 50.5 µg/m³ on Sep 26 Minimum Daily Average: 0.1 µg/m³ on Sep 7 Minimum Diurnal Average: 2.5 µg/m³ at hour 5 Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.6 Median = 3.0 Q ₃ = 8.0 P ₉₀ = 15.8 P ₉₉ = 36.5					Hours in Service: 720 Hours of Data: 690 Hours of Missing Data: 30 Hours of Calibration: 4 Percent Operational Time: 96.4	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1-Sep	5	4	4	3	2	3	6	21	5	4	5	6	4	6	7	5	11	17	16	20	16	12	10	14	8.6	21.0	
2-Sep	14	16	12	20	15	19	17	14	23	21	12	17	0	8	2	3	3	4	3	4	3	2	3	5	10.0	22.9	
3-Sep	5	7	10	10	11	9	16	18	22	9	10	2	6	2	2	4	4	10	19	10	12	0	5	5	8.7	22.2	
4-Sep	6	5	5	3	0	1	13	0	0	0	0	3	4	BD	BD	0	0	1	0	3	2	1	1	4	2.3	12.6	
5-Sep	3	3	3	1	1	0	2	10	9	0	2	0	0	0	1	2	2	1	1	2	3	1	3	3	2.4	10.3	
6-Sep	3	2	1	2	1	1	1	6	3	2	3	2	5	4	1	1	6	5	4	0	0	BD	0	BD	2.5	6.3	
7-Sep	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	1.5	
8-Sep	0	0	0	0	0	0	0	0	0	0	2	3	1	2	1	4	3	2	2	3	3	2	1	3	1.4	3.8	
9-Sep	1	0	1	2	1	1	3	7	6	3	6	6	5	4	6	1	8	5	3	2	2	3	4	5	3.5	7.8	
10-Sep	8	5	0	0	0	0	1	2	5	0	3	19	0	0	4	3	6	10	1	6	4	2	3	4	3.6	18.6	
11-Sep	1	1	1	0	0	1	0	11	4	2	7	11	7	4	35	4	0	6	13	0	1	0	1	0	4.7	35.4	
12-Sep	1	0	3	1	1	1	4	17	17	4	8	4	8	8	9	9	5	14	9	13	6	7	9	16	7.3	17.4	
13-Sep	13	11	10	10	9	9	11	17	31	2	12	11	16	17	9	3	0	8	11	9	8	8	4	7	10.2	31.5	
14-Sep	5	6	4	3	4	5	9	20	25	5	14	16	15	17	16	18	20	22	26	23	22	21	16	15	14.4	26.0	
15-Sep	16	11	7	7	4	6	4	4	7	BD	7	2	7	C	C	0	3	11	13	0	3	2	3	2	5.6	16.4	
16-Sep	2	0	1	0	0	3	3	9	19	1	8	7	8	9	7	9	10	11	23	2	8	18	9	5	7.2	22.6	
17-Sep	5	1	5	BD	0	BD	BD	0	0	0	0	BD	0	BD	P	9	2	1	7	4	5	4	2	2	2.6	8.7	
18-Sep	4	2	2	0	1	1	1	11	4	6	8	3	0	0	0	0	2	5	0	2	2	0	0	0	2.2	10.8	
19-Sep	0	1	0	4	11	8	BD	BD	BD	0	0	0	1	0	BD	0	2	1	1	2	3	1	1	0	1.8	10.6	
20-Sep	1	1	0	1	1	0	0	0	1	3	1	1	1	0	0	1	1	1	1	2	2	1	3	2	1.0	2.9	
21-Sep	1	3	3	0	1	10	9	5	4	8	3	9	23	7	6	9	24	17	BD	BD	0	0	0	0	6.4	24.1	
22-Sep	0	3	3	1	2	2	6	7	6	3	3	12	20	22	3	BD	14	10	24	14	6	6	8	16	8.3	23.6	
23-Sep	6	3	4	3	4	2	4	13	35	M	41	25	1	10	0	BD	0	8	12	5	3	BD	7	5	9.0	40.7	
24-Sep	11	14	9	4	1	BD	15	14	23	36	29	0	4	11	2	6	8	1	1	3	1	1	2	0	8.7	36.0	
25-Sep	1	1	0	0	0	1	2	10	0	1	8	10	5	10	12	23	8	2	0	BD	BD	0	0	0	4.3	22.9	
26-Sep	BD	0	0	0	0	0	0	0	0	7	300	244	154	186	144	16	64	2	8	3	4	23	5	2	50.5	299.7	
27-Sep	0	0	0	0	1	2	23	6	5	7	4	0	0	2	0	0	0	1	17	10	10	0	0	0	3.6	22.5	
28-Sep	0	0	BD	9	0	0	0	0	0	3	3	1	1	2	2	3	3	8	6	7	11	18	20	15	4.9	20.3	
29-Sep	9	7	8	5	4	8	9	27	12	31	21	44	C	C	0	0	6	0	0	0	0	0	0	0	8.7	44.5	
30-Sep	0	0	0	0	0	1	1	2	6	2	2	1	8	3	1	2	3	2	2	3	3	1	0	2	2.0	8.1	
																									Diurnal Average		
																									Diurnal Maximum		
C - Calibration P - Power Failure M - Maintenance BD - Baseline Drift Alberta Ambient Air Quality Guideline (AAAQG): 1-hr 80 µg/m³ Alberta Ambient Air Quality Objective (AAAQO): 24-hr 30 µg/m³																											

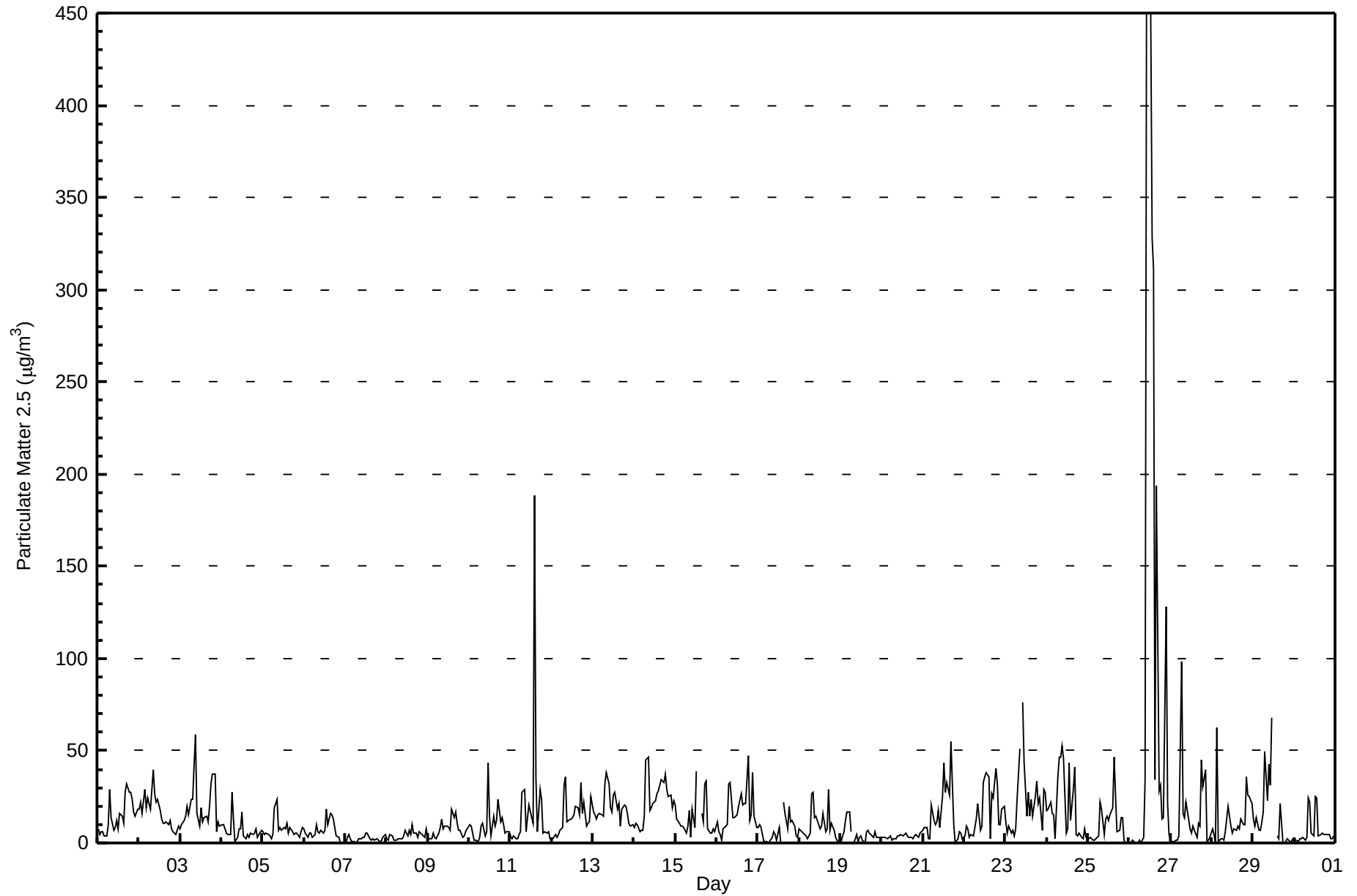
Hourly Averages for PM_{2.5} at Evergreen Park September 2009



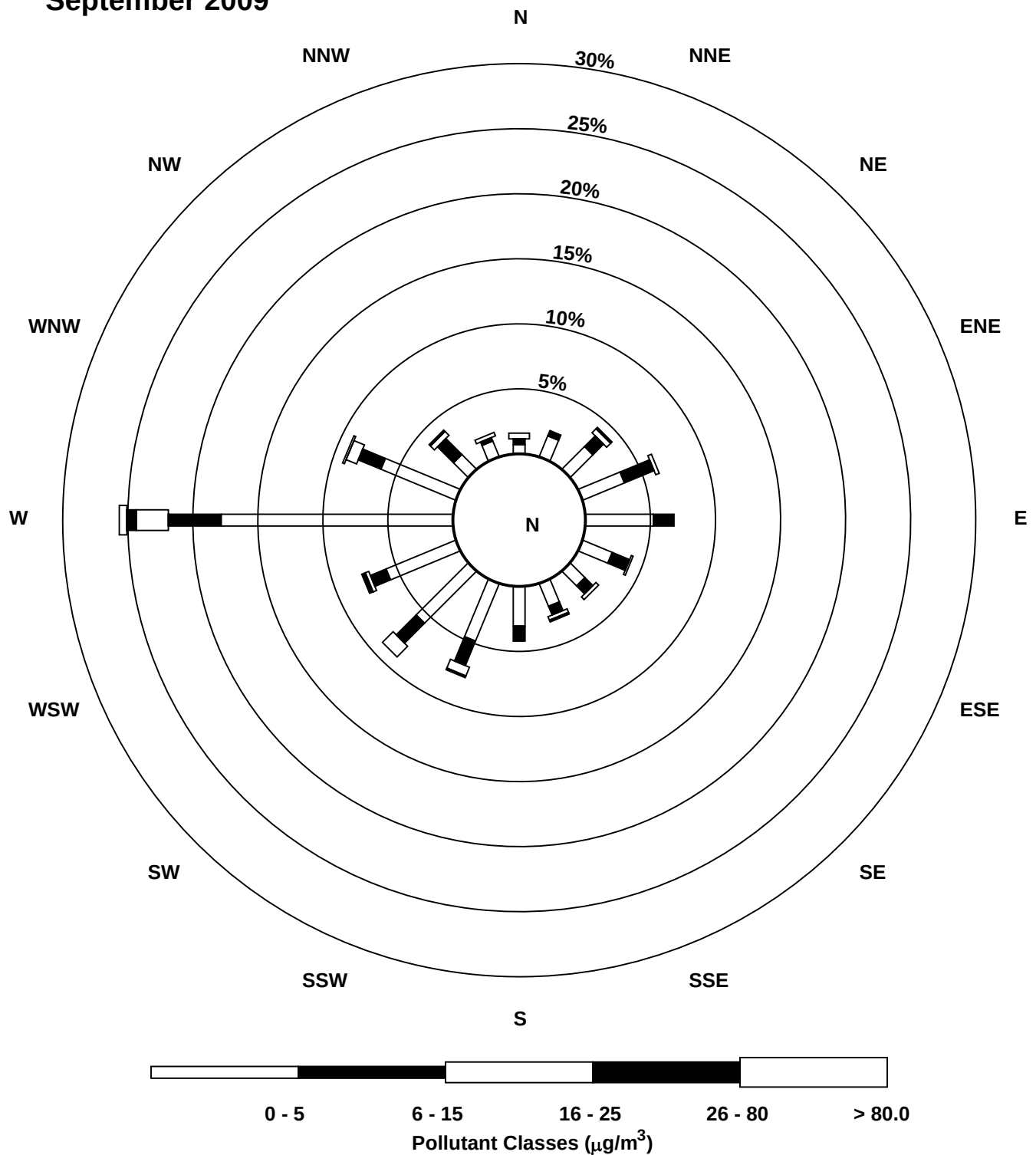
Evergreen Park - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
September 1, 2009 to October 1, 2009

Prepared by FOCUS

Hourly Maximums for PM_{2.5} at Evergreen Park September 2009



Pollutant Rose for PM_{2.5} at Evergreen Park **September 2009**

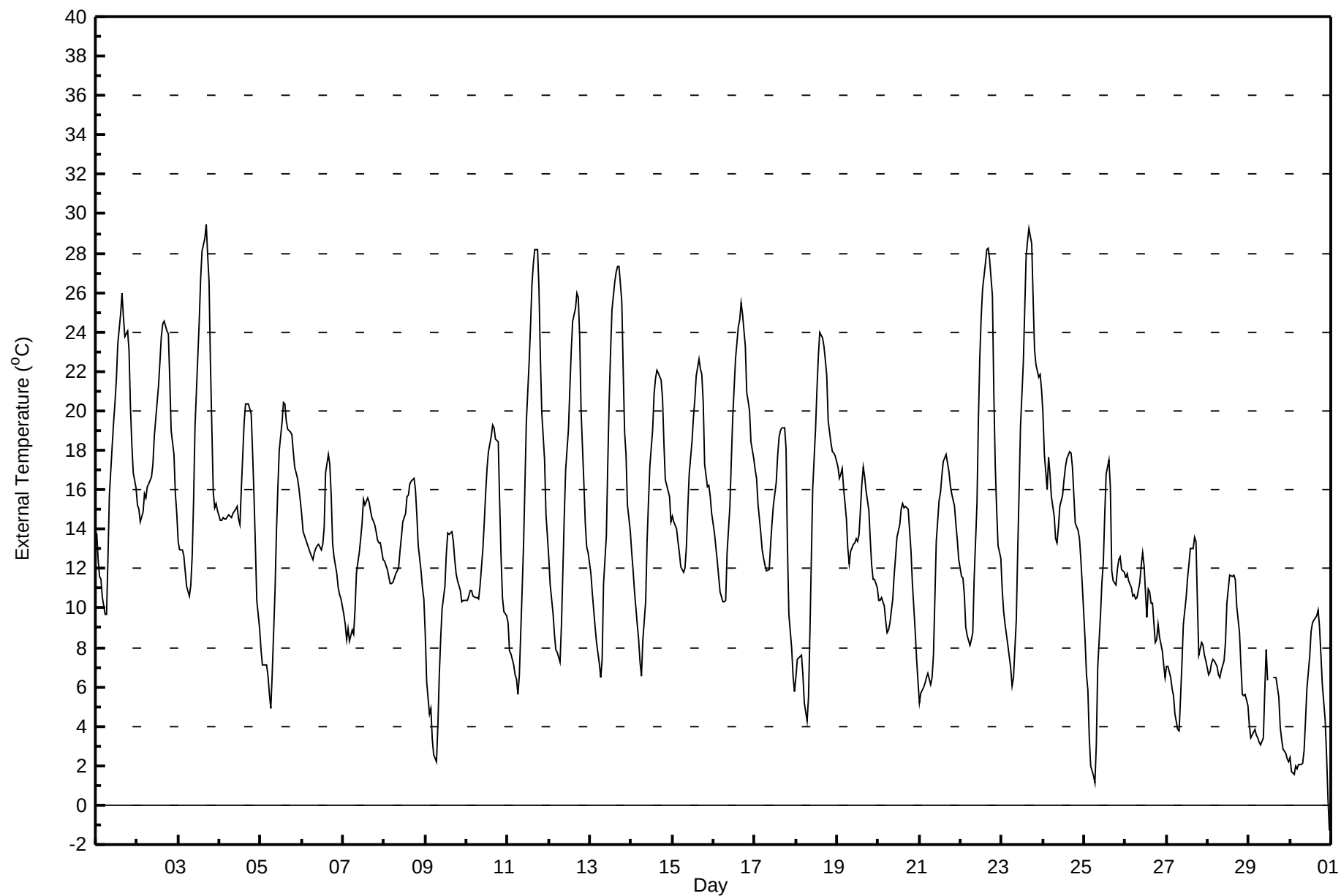


Peace Airshed Zone Association
Summary of Hourly Averages

Evergreen Park - External Temperature (ET) - °C
September 1, 2009 to October 1, 2009

Maximum Value: 29.4 °C on Sep 3 17:00																				Maximum Daily Average: 18.7 °C on Sep 2					Hours in Service: 720	
Minimum Value: -1 °C on Oct 1 00:00																				Minimum Daily Average: 4.3 °C on Sep 29					Hours of Data: 718	
Maximum Diurnal Average: 19.5 °C at hour 16																				Minimum Diurnal Average: 8.3 °C at hour 7					Hours of Missing Data: 2	
Monthly Average: 13.58 °C																				Percentiles: P ₁ = 2.0 P ₁₀ = 6.5 Q ₁ = 9.4 Median = 13.1 Q ₃ = 17.1 P ₉₀ = 22.4 P ₉₉ = 28.1					Hours of Calibration: 0	
																				Percent Operational Time: 99.7						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	14	12	12	11	11	10	10	13	16	18	19	20	22	23	25	26	25	24	24	23	20	18	17	16	17.9	26.0
2-Sep	15	15	14	15	16	16	16	16	17	17	19	20	21	23	24	24	25	24	24	22	19	18	16	15	18.7	24.6
3-Sep	13	13	13	13	12	11	11	11	13	16	19	23	25	27	28	29	29	28	27	22	16	15	15	15	18.4	29.4
4-Sep	14	14	15	14	15	15	15	15	15	15	15	15	14	16	19	20	20	20	20	18	16	13	10	9	15.5	20.4
5-Sep	8	7	7	7	7	6	5	7	11	14	16	18	19	20	20	20	19	19	19	18	17	17	16	15	13.8	20.5
6-Sep	15	14	13	13	13	13	12	13	13	13	13	13	13	14	17	18	17	16	13	13	12	11	11	10	13.5	17.8
7-Sep	10	9	8	9	8	9	9	10	12	13	14	14	16	15	16	15	15	15	14	14	13	13	13	12	12.4	15.6
8-Sep	12	12	12	11	11	11	12	12	12	13	14	14	15	16	16	16	16	17	16	15	13	12	11	10	13.3	16.6
9-Sep	9	6	5	5	3	3	2	4	7	8	10	11	13	14	14	14	13	12	12	11	11	10	10	10	9.1	13.9
10-Sep	10	11	11	11	11	11	11	10	11	13	14	16	17	18	19	19	19	19	18	15	13	11	10	10	13.6	19.3
11-Sep	9	8	8	7	7	6	6	7	11	13	16	19	22	24	26	27	28	28	26	23	20	18	15	14	16.2	28.2
12-Sep	12	11	10	9	8	8	7	9	12	15	17	19	21	23	25	25	26	26	24	20	16	14	13	13	15.9	26.0
13-Sep	12	11	10	9	8	7	6	7	11	14	17	21	23	25	27	27	27	27	26	22	19	18	15	14	16.8	27.3
14-Sep	13	12	11	9	8	7	7	8	10	13	15	17	19	21	22	22	22	22	21	18	17	16	16	14	15.0	22.1
15-Sep	15	14	14	13	13	12	12	12	13	15	17	18	20	21	22	23	22	22	20	17	16	16	16	15	16.6	22.6
16-Sep	14	13	12	12	11	10	10	10	13	15	17	20	21	23	24	25	25	25	23	21	21	20	18	18	17.6	25.5
17-Sep	17	17	15	14	13	13	12	12	12	13	14	15	16	18	19	19	19	19	18	13	10	8	7	6	14.1	19.2
18-Sep	6	7	8	8	7	5	4	5	9	12	16	19	21	23	24	24	23	23	22	20	18	18	18	18	14.9	24.0
19-Sep	17	17	17	17	16	14	13	12	13	13	13	14	13	14	16	17	17	16	15	13	12	11	11	11	14.3	17.1
20-Sep	10	10	11	10	9	9	9	9	10	12	13	14	14	15	15	15	15	15	14	13	11	9	7	6	11.5	15.3
21-Sep	5	6	6	6	6	7	6	6	8	10	13	15	16	17	17	18	17	17	16	16	15	14	13	12	11.9	17.8
22-Sep	12	12	11	9	9	8	8	9	11	15	19	23	25	26	28	28	28	28	26	21	17	15	13	12	17.2	28.3
23-Sep	11	10	9	8	8	7	6	6	9	13	16	19	22	25	28	29	29	28	26	23	22	22	22	21	17.5	29.3
24-Sep	20	18	16	18	17	16	15	14	13	14	15	16	17	17	18	18	18	17	16	14	14	14	12	11	15.7	19.8
25-Sep	8	7	6	3	2	2	1	3	7	10	11	12	15	17	18	16	12	11	11	12	12	13	12	12	9.7	17.5
26-Sep	12	12	11	11	11	11	10	11	11	12	13	12	10	11	11	10	10	8	8	9	9	8	7	6	10.2	12.8
27-Sep	7	7	6	6	6	5	4	4	5	7	9	11	12	12	13	13	14	13	10	8	8	8	8	7	8.4	13.6
28-Sep	7	7	7	7	7	7	7	6	7	7	8	10	11	12	12	12	11	10	9	7	6	6	6	5	8.1	11.7
29-Sep	4	3	4	4	4	3	3	3	3	6	8	6	N	N	6	6	6	5	4	3	3	3	2	2	4.3	7.9
30-Sep	2	2	2	2	2	2	2	2	3	4	6	8	9	9	9	10	10	9	8	6	4	3	0	-1	4.7	9.9
11.1 10.5 10.1 9.7 9.2 8.7 8.3 8.9 10.6 12.5 14.3 15.7 17.3 18.5 19.2 19.5 19.4 18.8 17.6 15.7 14.0 13.0 12.1 11.3																									Diurnal Average	
19.8 17.8 16.8 17.6 16.8 15.7 16.1 16.3 16.7 18.2 19.5 22.7 24.7 26.7 28.1 28.8 29.4 28.5 26.5 23.1 22.4 21.7 21.9 21.1																									Diurnal Maximum	
N - Not Valid																										

Hourly Averages for External Temperature at Evergreen Park September 2009



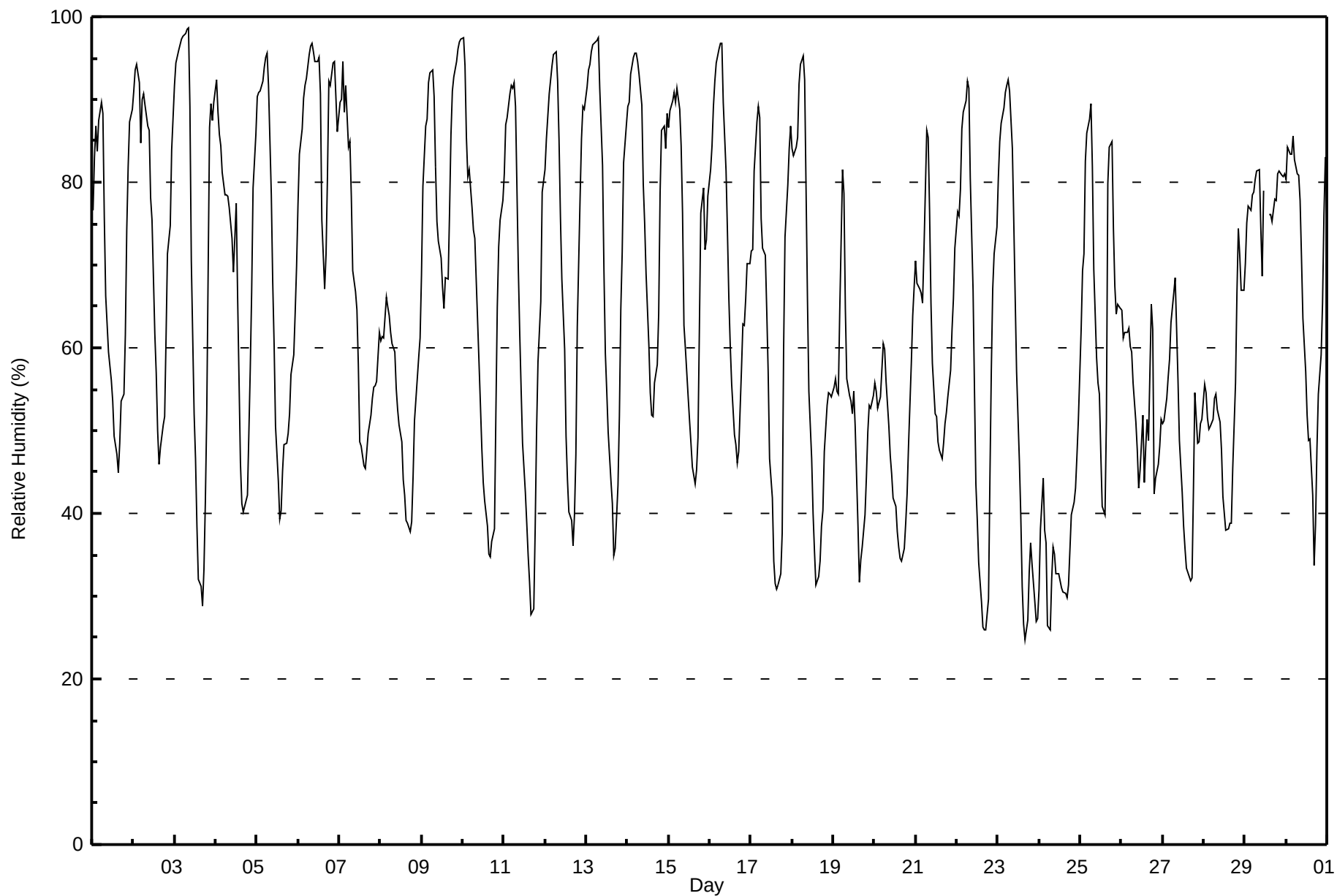
Peace Airshed Zone Association
Summary of Hourly Averages

Evergreen Park - Relative Humidity (RH) - %
September 1, 2009 to October 1, 2009

Maximum Value: 98.6 % on Sep 3 09:00																			Maximum Daily Average: 88.5 % on Sep 6						Hours in Service: 720			
Minimum Value: 25 % on Sep 23 17:00																			Minimum Daily Average: 35.5 % on Sep 24						Hours of Data: 718			
Maximum Diurnal Average: 82.1 % at hour 7																			Minimum Diurnal Average: 42.3 % at hour 16						Hours of Missing Data: 2			
Monthly Average: 64.65 %																			Percentiles: P ₁ = 26.8 P ₁₀ = 38.0 Q ₁ = 48.5 Median = 64.1 Q ₃ = 83.4 P ₉₀ = 91.7 P ₉₉ = 97.3						Hours of Calibration: 0			
																			Percent Operational Time: 99.7									
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
1-Sep	77	83	87	84	87	90	88	76	66	60	58	56	54	49	47	45	49	54	54	62	74	82	87	89	69.0	89.7		
2-Sep	91	93	94	92	85	90	91	89	87	86	78	75	62	57	50	46	48	51	52	61	71	75	84	88	74.8	94.3		
3-Sep	92	94	96	97	97	98	98	98	99	89	70	52	47	38	32	31	29	33	41	52	87	89	87	90	72.4	98.6		
4-Sep	92	89	86	84	81	78	79	78	77	73	69	73	78	66	46	41	40	41	42	50	57	67	79	86	68.9	92.3		
5-Sep	90	91	91	92	94	95	96	92	79	68	60	51	44	39	40	45	48	49	50	52	57	59	64	70	67.3	95.6		
6-Sep	77	83	87	90	92	93	95	96	97	96	95	95	95	91	75	67	71	81	92	92	94	95	90	86	88.5	96.7		
7-Sep	90	90	95	88	92	84	85	78	69	67	64	58	49	48	46	46	48	50	52	54	55	55	56	62	65.8	94.6		
8-Sep	61	61	61	66	65	64	62	61	59	55	52	51	49	44	42	39	39	38	39	44	51	56	59	61	53.3	66.0		
9-Sep	69	80	87	88	92	93	94	90	82	75	73	71	67	65	69	68	76	86	91	93	94	96	97	97	83.0	97.4		
10-Sep	97	94	85	81	81	77	74	73	68	58	53	48	44	41	38	35	35	37	38	52	65	72	75	78	62.6	97.5		
11-Sep	81	87	88	91	92	91	92	89	69	62	55	49	43	39	35	32	28	29	38	50	58	66	79	80	63.4	92.0		
12-Sep	82	85	91	92	94	95	96	92	85	76	68	60	49	44	40	39	36	40	47	62	78	85	89	89	71.5	95.7		
13-Sep	91	94	94	96	97	97	97	98	91	82	69	59	55	50	44	41	35	36	43	52	65	71	82	87	71.9	97.5		
14-Sep	89	90	93	95	96	96	95	93	89	80	75	69	60	55	52	52	56	58	64	79	86	87	84	88	78.3	95.6		
15-Sep	87	89	90	91	90	91	89	84	76	63	60	54	51	49	46	43	45	49	62	76	79	72	73	78	70.3	91.4		
16-Sep	82	84	89	92	94	96	97	97	90	81	74	66	60	56	50	48	46	47	57	63	63	66	70	70	72.4	96.8		
17-Sep	72	72	81	87	89	88	76	72	71	64	57	47	42	34	32	31	31	33	38	60	73	80	84	87	62.5	89.1		
18-Sep	84	83	84	86	92	94	95	92	79	66	55	47	40	35	31	32	34	38	40	47	53	55	54	54	61.4	95.2		
19-Sep	55	56	55	54	64	82	79	65	56	54	54	52	55	51	39	32	34	36	40	44	50	53	53	54	52.8	81.5		
20-Sep	56	55	53	54	57	60	60	56	51	47	45	42	41	38	36	35	34	36	39	42	48	58	64	67	48.9	67.2		
21-Sep	70	68	67	67	65	72	86	85	77	65	58	52	52	49	48	47	48	51	52	54	57	62	66	72	62.1	86.3		
22-Sep	77	76	79	86	88	90	92	91	81	67	55	44	39	34	29	26	26	26	30	44	57	67	71	75	60.5	92.2		
23-Sep	80	85	87	89	91	92	92	91	84	75	66	57	46	40	31	27	25	27	33	36	34	29	27	27	57.2	92.3		
24-Sep	31	38	44	38	37	26	26	32	36	35	33	33	32	31	31	30	30	31	36	40	41	43	47	51	35.5	51.1		
25-Sep	62	69	71	82	86	88	89	82	69	59	56	54	47	41	40	51	80	84	85	74	67	64	65	65	68.1	89.5		
26-Sep	65	61	62	62	62	60	60	56	51	48	43	45	52	44	48	51	49	65	62	42	44	46	48	51	53.2	65.3		
27-Sep	51	51	54	56	59	63	67	68	62	56	49	43	38	36	33	32	32	32	43	55	48	49	51	51	49.2	68.4		
28-Sep	56	55	51	50	51	51	54	54	53	51	48	42	40	38	38	39	39	45	56	67	74	71	67	67	52.4	74.4		
29-Sep	70	75	77	77	78	79	80	81	82	75	69	79	N	N	76	76	75	78	78	81	81	81	81	81	77.7	81.5		
30-Sep	80	84	83	83	86	83	81	81	78	71	64	57	52	49	49	42	34	39	48	54	59	65	76	83	65.9	85.6		
75.2 77.2 78.8 79.7 81.1 81.9 82.1 79.8 73.8 66.8 60.8 56.0 51.1 46.5 43.8 42.3 43.3 46.6 51.4 57.9 64.2 67.2 70.4 72.8																									Diurnal Average			
97.5 94.4 95.9 96.6 97.2 97.7 97.9 98.4 98.6 95.8 94.5 94.6 95.1 90.6 76.1 76.0 79.9 85.7 92.3 92.8 94.5 96.1 97.0 97.4																									Diurnal Maximum			
N - Not Valid																												

Hourly Averages for Relative Humidity at Evergreen Park

September 2009



Peace Airshed Zone Association
Summary of Hourly Averages

Evergreen Park
September 1, 2009 to October 1, 2009
WS (km/h), WD (deg)

Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1 Spd	0	1	1	1	1	1	1	1	2	2	2	3	3	2	0	1	4	1	2	2	1	0	1	1	0.8	3.7
Dir	221	14	42	227	14	323	223	224	66	116	159	171	196	199	243	178	214	256	201	215	52	145	48	151	186.1	213.8
2 Spd	1	1	0	3	3	7	2	3	6	6	8	8	9	8	5	8	6	5	2	2	1	2	1	0	3.0	9.0
Dir	12	232	52	336	324	235	274	313	288	315	308	292	320	277	294	305	339	355	32	62	71	98	65	113	308.6	319.9
3 Spd	1	0	0	1	1	1	1	0	0	3	4	5	6	7	7	7	7	7	7	10	12	12	14	7	0.5	14.1
Dir	14	60	11	58	192	74	204	39	134	84	74	98	86	95	104	89	89	58	62	217	236	291	280	277	92.5	280.1
4 Spd	7	12	16	10	7	12	14	13	12	18	16	15	9	8	15	13	15	12	10	6	2	1	0	0	10.2	17.8
Dir	272	269	269	272	280	273	266	266	270	269	273	272	273	276	284	281	279	274	275	261	244	192	238	231	272.3	269.2
5 Spd	1	1	1	3	2	1	0	1	1	0	3	5	5	9	7	4	3	4	6	6	4	4	4	4	2.7	8.6
Dir	196	220	201	210	214	196	199	32	349	30	101	117	84	84	101	87	79	81	77	86	77	76	78	81	91.5	84.2
6 Spd	5	4	4	1	1	1	4	2	2	3	7	4	1	5	1	2	3	4	3	5	3	6	7	9	1.2	8.8
Dir	85	81	80	94	236	25	44	235	192	224	243	246	201	242	290	9	101	340	355	341	241	255	248	260	264.9	260.3
7 Spd	2	2	4	3	3	8	9	11	12	14	13	15	22	20	22	22	22	20	16	14	16	20	25	26	13.9	25.9
Dir	253	247	222	219	214	233	229	233	250	255	256	250	254	253	254	254	253	247	252	251	250	260	266	267	252.3	267.2
8 Spd	25	24	26	25	25	24	22	23	21	21	25	26	24	26	22	23	23	21	19	13	6	4	3	4	19.7	25.9
Dir	271	273	274	270	269	267	270	269	268	273	274	272	276	278	283	282	280	276	280	273	260	269	275	259	273.4	273.9
9 Spd	1	1	1	2	1	0	0	1	1	1	2	2	2	2	2	2	1	2	1	1	1	1	1	1	0.5	2.5
Dir	200	147	204	216	67	93	166	73	113	261	60	102	62	86	172	78	81	336	41	187	146	53	245	206	116.0	216.4
10 Spd	2	6	6	5	4	9	8	7	11	12	12	14	13	12	13	11	13	9	5	2	2	1	0	2	7.4	13.9
Dir	252	263	269	268	272	268	270	271	269	282	272	273	280	284	280	275	279	284	278	225	233	205	203	215	273.1	273.1
11 Spd	1	1	1	0	2	1	1	0	2	4	3	4	4	4	2	2	1	2	2	2	1	2	1	1	1.0	4.3
Dir	209	219	219	215	201	222	102	315	207	227	232	236	198	181	204	125	170	77	71	97	106	76	41	48	186.3	198.2
12 Spd	1	0	0	1	0	0	3	1	4	3	3	3	3	2	1	3	3	3	4	1	1	0	1	1	0.3	4.2
Dir	32	319	285	220	351	226	219	290	273	301	247	295	269	258	324	65	85	111	118	59	35	14	355	232	274.3	273.2
13 Spd	0	1	0	1	1	0	1	0	0	3	2	2	3	2	4	4	5	4	3	2	2	2	1	1	0.7	5.4
Dir	304	221	206	200	213	140	214	329	53	264	235	250	236	198	110	81	93	77	77	54	67	82	51	37	106.0	93.3
14 Spd	1	1	0	1	0	0	0	1	3	1	1	2	3	2	2	1	2	2	1	0	0	1	2	1	0.1	2.6
Dir	46	34	167	31	205	329	273	207	204	59	153	232	345	356	360	48	164	158	152	231	264	293	238	222	248.6	204.2
15 Spd	3	4	4	5	4	6	5	6	6	7	6	6	4	4	1	0	2	2	0	2	2	2	3	1	2.4	7.4
Dir	275	262	275	265	276	263	280	289	287	321	279	291	293	336	306	86	85	161	145	53	64	52	82	46	291.4	321.4
16 Spd	3	2	2	0	1	2	0	1	2	3	4	4	5	5	3	4	4	3	2	4	4	6	14	10	1.0	13.7
Dir	79	74	66	64	31	80	28	39	128	189	173	153	128	117	126	115	93	95	64	85	90	263	317	331	86.1	317.0
17 Spd	5	7	9	4	1	2	5	5	7	7	12	15	15	19	14	12	9	6	2	1	0	1	1	1	6.3	19.0
Dir	327	304	268	285	283	291	277	289	270	282	274	275	274	267	276	287	288	282	307	198	216	53	58	73	279.6	267.4
18 Spd	1	1	0	1	2	0	1	1	1	2	2	4	3	2	3	4	3	1	2	2	4	5	4	5	1.9	5.3
Dir	70	77	25	213	209	160	45	193	42	94	171	170	174	184	151	139	138	148	135	149	178	176	171	171	158.3	176.1
19 Spd	4	4	5	4	5	9	11	12	13	17	16	13	9	14	18	24	20	20	14	7	8	9	11	13	10.6	24.1
Dir	166	164	172	297	325	312	288	275	268	266	267	274	270	260	266	271	275	267	264	258	226	236	250	262	265.5	271.3
20 Spd	14	16	18	13	14	12	15	18	19	18	17	14	12	14	18	21	20	19	16	12	5	3	1	2	13.3	20.6
Dir	252	259	262	269	263	255	264	269	274	278	287	303	312	282	274	270	271	270	266	266	233	195	216	215	270.3	270.1
21 Spd	2	3	3	3	3	1	0	2	4	6	13	20	16	19	16	17	14	10	11	6	3	1	3	0	6.7	19.8
Dir	170	182	183	187	196	183	242	230	251	259	262	264	269	260	259	262	268	266	270	285	250	221	196	189	257.0	263.8
22 Spd	2	2	1	1	1	1	2	2	5	6	6	10	11	13	16	17	12	8	4	0	1	0	1	0	4.4	16.7
Dir	204	199	126	53	81	235	211	203	228	225	229	265	266	271	272	265	284	287	272	105	214	155	174	5	260.7	264.7

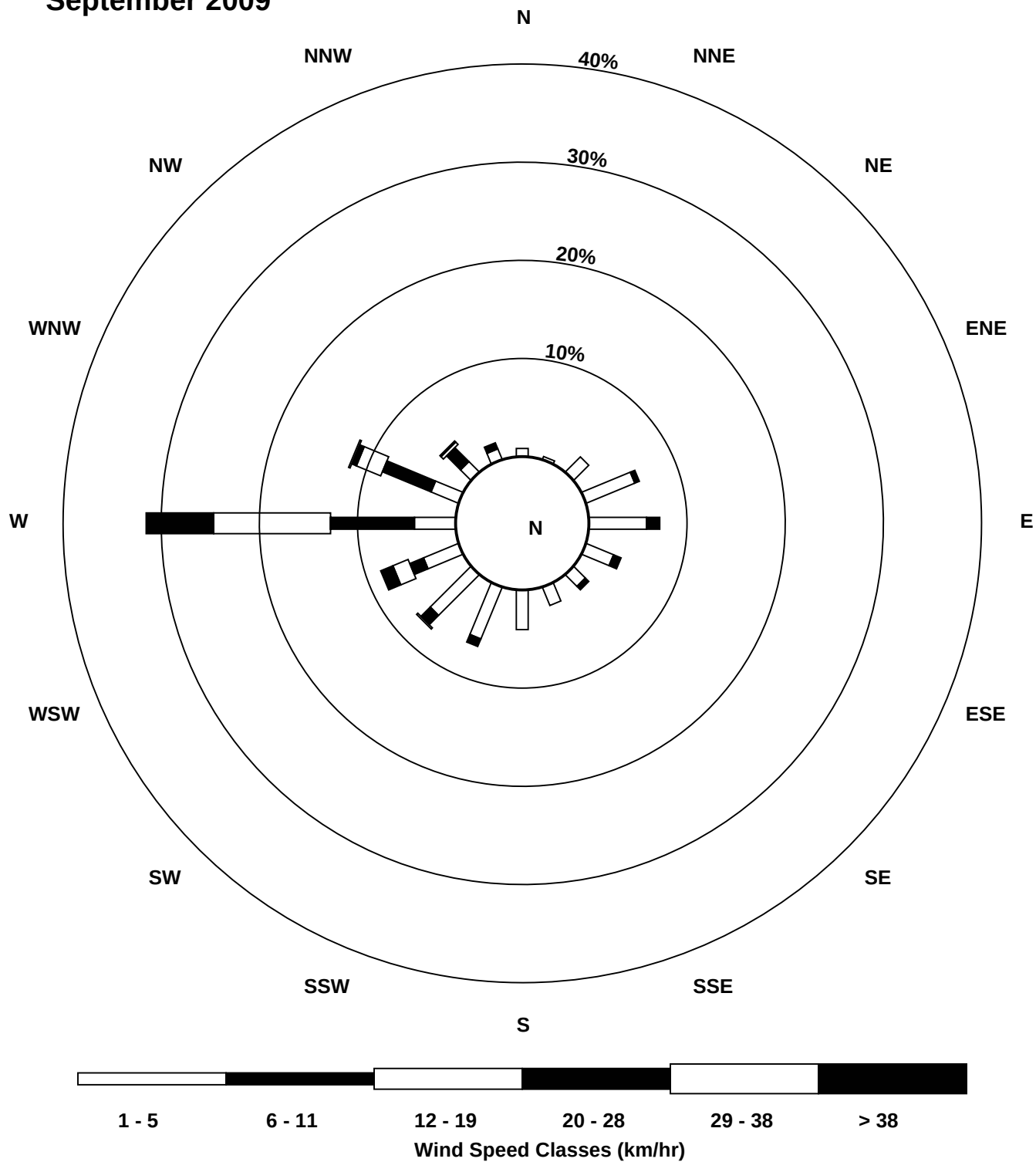
Peace Airshed Zone Association
Summary of Hourly Averages

Evergreen Park
 September 1, 2009 to October 1, 2009
 WS (km/h), WD (deg)

Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
23 Spd	1	1	0	0	0	0	0	1	1	1	2	1	3	2	3	6	5	3	1	7	5	6	6	6	1.6	7.2	
Dir	58	33	165	320	49	193	353	224	278	282	241	283	163	138	143	128	103	89	169	212	223	207	201	206	184.6	212.5	
24 Spd	6	4	6	15	19	22	19	19	28	24	24	25	20	16	18	19	19	17	10	7	10	9	6	3	15.0	27.5	
Dir	266	269	274	286	289	280	282	283	269	269	272	271	284	290	279	270	275	278	297	278	286	285	282	233	278.0	268.7	
25 Spd	2	0	1	0	0	0	0	1	1	3	4	6	4	3	2	4	8	3	3	3	6	11	11	16	2.9	16.2	
Dir	186	108	155	57	37	99	127	74	210	203	217	211	198	173	205	306	309	230	235	308	266	261	255	264	250.5	263.9	
26 Spd	18	20	20	21	20	18	14	21	23	25	29	27	26	28	27	24	20	11	8	22	18	15	13	11	19.2	29.1	
Dir	263	266	258	259	259	254	262	261	262	265	282	278	265	274	278	278	306	343	266	268	267	263	260	258	270.0	281.8	
27 Spd	14	14	11	11	12	9	4	3	7	12	11	9	8	9	8	4	2	2	2	2	4	3	3	3	5.3	13.8	
Dir	266	269	268	265	265	268	280	289	277	275	281	288	284	262	242	278	258	170	104	92	114	129	117	102	267.2	266.5	
28 Spd	3	5	7	7	6	5	4	4	4	4	5	6	7	8	7	4	4	1	1	0	0	3	3	3	3.3	7.5	
Dir	83	99	98	104	101	97	86	86	98	112	121	115	126	134	122	114	122	77	37	326	332	292	307	267	107.9	133.6	
29 Spd	2	3	4	4	4	3	2	3	5	6	12	16	11	12	11	11	10	9	9	7	8	7	8	9	6.7	15.5	
Dir	237	213	235	242	233	261	283	258	246	280	279	274	287	283	291	300	295	317	329	309	315	297	283	279	284.7	273.7	
30 Spd	9	8	7	8	7	8	8	9	9	8	7	9	10	11	7	11	13	9	4	3	3	3	0	0	6.8	12.7	
Dir	283	283	281	273	267	272	264	268	277	299	283	274	291	277	316	284	285	295	301	264	238	209	183	220	279.8	284.8	
Spd	3.0	3.5	3.8	4.1	4.0	4.5	4.4	4.9	6.1	6.6	7.4	7.7	6.5	6.8	6.7	6.6	5.9	4.6	3.3	3.1	2.7	3.0	3.3	3.3	Diurnal Average		
Dir	263.7	263.7	260.2	265.1	267.4	265.2	268.1	268.2	265.1	270.1	268.7	267.9	271.1	267.7	270.6	274.4	279.3	281.9	279.0	261.8	249.7	258.0	265.0	261.4	Diurnal Maximum		
Spd	24.8	23.6	25.9	25.2	24.7	24.2	21.9	22.7	27.5	24.7	29.1	26.9	25.6	28.1	27.3	24.1	23.3	21.4	18.6	21.6	17.9	20.3	24.6	25.9	Diurnal Maximum		
Dir	270.8	272.8	273.9	269.6	268.8	267.1	270.2	269.4	268.7	265.5	281.8	277.7	265.3	274.3	278.5	271.3	279.9	276.1	280.2	267.8	267.3	260.3	265.9	267.2			
Maximum Speed Value: 29 km/h on Sep 26 11:00								Minimum Speed Value: 0 km/h on Sep 11 08:00												Hours in Service:				720			
Maximum Daily Speed Average: 19.7 km/h on Sep 26								Minimum Daily Speed Average: 0.1 km/h on Sep 14												Hours of Data:				720			
Maximum Diurnal Speed Average: 7.7 km/h at hour 12								Minimum Diurnal Speed Average: 2.7 km/h at hour 21												Hours of Missing Data:				0			
Monthly Average Velocity: 4.80 km/h 268.26 deg								Speed Percentiles: P ₁ = 0.2 P ₁₀ = 0.6 Q ₁ = 1.5 Median = 3.9 Q ₃ = 9.8 P ₉₀ = 17.8 P ₉₉ = 25.9												Percent Operational Time:				100.0			
All monthly, daily, and diurnal averages have been calculated using vector methods																											
Frequency Distribution																											
Speed Range (km/h)																											
Direction	0 to 5		5 to 11		11 to 19		19 to 28		28 to 38		> 38		Total														
North	18		2		1		0		0		0		21														
NorthEast	58		2		0		0		0		0		60														
East	67		17		0		0		0		0		84														
SouthEast	38		6		0		0		0		0		44														
South	62		3		0		0		0		0		65														
SouthWest	94		17		1		1		0		0		113														
West	46		80		97		55		2		0		280														
NorthWest	26		23		3		1		0		0		53														
Total	409		150		102		57		2		0		720														

Wind Rose for WS at Evergreen Park

September 2009



Peace Airshed Zone Association
Summary of Hourly Averages - Wind Speed (Scalar)

Evergreen Park - Wind Speed (WS) - km/h
September 1, 2009 to October 1, 2009

Maximum Speed: 30 km/h on Sep 26 11:00																				Maximum Daily Speed Average: 20.2 km/h on Sep 26					Hours in Service: 720	
Minimum Speed: 1 km/h on Sep 14 06:00																				Minimum Daily Speed Average: 1.9 km/h on Sep 9					Hours of Data: 720	
Maximum Diurnal Speed Average: 10.3 km/h at hour 16																				Minimum Diurnal Speed Average: 4.8 km/h at hour 21					Hours of Missing Data: 0	
Monthly Average Speed: 7.11 km/h																				Percentiles: P ₁ = 0.9 P ₁₀ = 1.3 Q ₁ = 2.2 Median = 4.3 Q ₃ = 10.4 P ₉₀ = 17.8 P ₉₉ = 25.9					Percent Operational Time: 100.0	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	1	1	1	2	1	1	1	1	3	3	3	4	4	4	3	3	4	3	3	2	1	1	1	2	2.3	4.3
2-Sep	1	1	1	3	4	7	3	3	6	6	8	9	10	9	7	10	7	6	3	2	2	2	1	1	4.7	9.9
3-Sep	1	1	1	2	3	2	2	2	1	3	4	6	7	7	7	8	8	8	7	12	13	15	15	8	6.0	14.9
4-Sep	8	12	16	11	7	12	14	13	13	18	16	15	9	9	16	14	15	13	11	7	3	1	1	1	10.5	17.9
5-Sep	1	1	2	3	2	1	1	1	2	2	4	6	6	9	7	4	3	5	6	6	4	5	4	5	3.8	9.3
6-Sep	6	4	4	2	2	2	4	3	2	4	7	5	2	5	3	4	4	6	5	7	5	6	7	9	4.4	8.9
7-Sep	4	4	4	3	3	8	9	11	12	14	13	16	22	20	23	22	22	20	16	15	16	21	25	26	14.5	26.1
8-Sep	25	24	26	25	25	24	22	23	22	21	26	26	24	26	23	23	24	22	19	13	6	4	3	4	20.0	26.4
9-Sep	3	2	2	3	2	1	1	2	2	1	2	3	2	3	3	3	1	3	1	1	1	1	1	2	1.9	3.4
10-Sep	3	6	6	5	5	9	8	7	11	12	12	14	14	13	13	12	14	9	6	2	2	1	1	3	7.9	14.4
11-Sep	1	2	1	1	2	2	1	1	2	4	4	4	5	5	4	3	3	2	2	2	1	2	1	1	2.4	5.1
12-Sep	1	1	1	1	1	2	3	2	5	4	4	3	4	3	3	4	3	3	4	1	1	1	1	2	2.4	4.7
13-Sep	1	2	1	2	2	1	1	1	1	3	2	2	4	4	5	5	6	4	3	3	2	2	2	1	2.4	5.6
14-Sep	1	1	1	1	1	1	1	2	3	2	3	3	4	3	3	2	3	2	1	1	1	2	2	2	1.9	3.6
15-Sep	3	4	4	5	4	6	5	6	7	8	7	7	5	5	3	3	3	2	1	2	2	2	3	1	4.1	7.8
16-Sep	3	2	2	1	1	2	1	1	3	3	5	5	6	6	4	4	4	3	2	4	4	9	15	10	4.2	15.0
17-Sep	6	7	9	5	2	2	6	5	7	8	13	15	15	19	14	13	9	7	2	1	1	1	1	1	7.1	19.2
18-Sep	2	2	1	2	2	2	2	2	2	2	3	5	4	4	5	5	3	2	3	2	5	5	4	5	3.1	5.4
19-Sep	5	4	6	5	6	9	11	12	13	17	16	13	10	14	19	24	21	20	14	8	8	9	11	13	11.9	24.4
20-Sep	14	16	18	13	14	12	16	18	19	18	18	15	13	14	19	21	21	19	16	13	6	3	2	2	14.2	21.0
21-Sep	2	3	3	3	3	2	1	3	4	6	13	20	16	19	16	17	14	10	11	6	3	2	3	1	7.7	20.0
22-Sep	2	2	2	1	2	1	3	2	5	6	7	10	12	13	17	17	12	9	4	2	2	1	1	1	5.6	17.0
23-Sep	1	1	1	1	2	1	1	1	2	2	2	3	4	3	3	6	5	3	3	7	5	6	6	6	3.2	7.3
24-Sep	6	4	6	15	20	22	19	20	28	25	24	25	20	17	19	20	20	17	11	7	10	9	6	3	15.5	27.7
25-Sep	2	1	2	1	1	2	1	1	2	3	4	6	4	3	2	5	8	4	4	5	6	11	11	16	4.4	16.4
26-Sep	18	20	20	21	20	18	14	21	23	25	30	27	26	28	28	24	23	12	9	22	18	15	13	11	20.2	29.6
27-Sep	14	14	11	11	12	9	4	3	7	13	11	10	9	9	9	6	3	2	2	2	4	3	4	3	7.2	13.9
28-Sep	3	5	7	7	6	6	4	4	5	4	5	7	8	8	8	5	5	2	1	1	1	3	3	3	4.6	8.2
29-Sep	3	4	4	4	4	3	3	3	5	7	13	16	12	13	12	12	11	9	10	7	8	8	8	9	7.8	15.9
30-Sep	10	8	8	8	7	8	8	9	9	8	8	10	10	11	8	11	13	9	4	3	3	3	1	1	7.4	13.1
5.1 5.3 5.7 5.6 5.6 6.0 5.8 6.1 7.5 8.3 9.5 10.3 9.7 10.2 10.2 10.3 9.7 7.9 6.1 5.5 4.8 5.2 5.3 5.1																								Diurnal Average		
25.0 23.8 26.1 25.4 24.8 24.4 22.0 22.8 27.7 24.9 29.6 27.4 25.8 28.4 28.4 24.4 23.6 21.8 19.0 21.7 18.0 20.5 24.9 26.1																								Diurnal Maximum		
All monthly, daily, and diurnal averages have been calculated using scalar methods																										

Peace Airshed Zone Association
Summary of Hourly Standard Deviations

Evergreen Park - Wind Direction (WD) - deg
September 1, 2009 to October 1, 2009

Maximum Value: 99.4 deg on Sep 18 06:00																				Hours in Service: 720					
Minimum Value: 4.6 deg on Sep 7 07:00																				Hours of Data: 720					
																				Hours of Missing Data: 0					
Percentiles: P ₁ = 5.5 P ₁₀ = 8.2 Q ₁ = 12.6 Median = 23.7 Q ₃ = 54.9 P ₉₀ = 79.0 P ₉₉ = 92.5																				Hours of Calibration: 0					
																				Percent Operational Time: 100.0					
Day	Hourly Period Ending At (MST)																								Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Sep	91	35	32	55	52	60	92	32	56	56	53	48	51	70	99	84	28	80	17	12	58	89	49	89	98.6
2-Sep	80	76	86	22	43	24	61	38	17	18	23	25	25	31	50	30	37	47	37	22	23	33	46	82	86.5
3-Sep	58	97	82	50	79	84	74	78	84	37	38	32	30	22	27	25	22	19	15	56	14	41	16	54	96.7
4-Sep	19	9	6	9	13	8	7	7	8	6	7	8	11	17	17	15	13	13	12	11	31	77	81	85	85.4
5-Sep	89	44	84	27	45	59	88	64	79	94	40	35	33	24	22	19	19	16	15	16	17	16	14	19	93.6
6-Sep	17	26	16	75	81	76	22	51	55	46	19	26	51	36	88	60	23	79	76	50	87	12	9	10	87.8
7-Sep	78	53	8	42	15	9	5	5	9	9	9	10	11	10	9	9	8	7	8	9	9	9	8	7	78.0
8-Sep	7	7	7	6	6	7	6	6	7	8	7	8	9	11	11	10	8	11	11	15	20	31	33	18	32.8
9-Sep	76	73	66	29	74	94	76	51	72	85	50	41	48	33	55	29	72	53	70	49	76	52	59	55	94.2
10-Sep	35	7	10	11	17	8	12	13	10	15	13	15	21	23	16	15	15	16	24	20	38	68	85	20	85.4
11-Sep	69	45	72	84	52	72	82	97	62	21	37	26	36	38	66	59	89	58	16	16	48	38	59	26	96.9
12-Sep	37	84	86	62	76	85	15	66	34	50	47	52	43	79	77	52	29	25	13	47	61	75	41	38	85.9
13-Sep	87	72	79	54	68	73	71	78	89	30	37	51	43	62	42	31	19	21	13	36	15	15	15	50	88.6
14-Sep	17	63	87	54	79	87	73	94	39	60	87	61	72	72	66	62	34	35	66	99	87	42	38	91	98.9
15-Sep	27	9	14	11	12	7	21	17	19	18	32	35	39	42	87	86	44	38	77	50	19	16	10	36	87.2
16-Sep	13	14	52	82	34	13	66	65	36	38	39	38	43	36	52	29	25	16	24	11	15	75	24	17	81.9
17-Sep	25	23	10	39	83	52	21	22	15	28	17	13	15	10	17	17	24	21	22	42	71	60	59	86	85.9
18-Sep	60	76	99	75	64	99	66	67	55	57	49	38	55	76	63	45	20	53	21	23	10	14	20	12	99.4
19-Sep	18	19	22	27	18	16	13	10	9	9	8	10	16	10	13	9	11	8	9	14	11	7	7	6	27.3
20-Sep	9	6	6	6	6	8	6	6	7	11	15	17	22	17	12	12	11	10	7	9	27	22	53	62	62.4
21-Sep	27	22	36	20	17	82	83	47	13	24	8	7	9	9	12	10	11	10	11	15	26	69	14	82	83.5
22-Sep	51	53	75	66	81	84	82	43	9	12	19	14	13	15	13	11	11	10	20	77	94	88	78	90	93.6
23-Sep	47	70	87	90	86	93	83	76	59	64	64	64	44	65	53	30	21	18	64	9	11	12	8	12	92.6
24-Sep	28	13	33	9	9	10	13	12	6	10	9	11	12	16	16	10	11	10	15	13	15	11	13	41	40.5
25-Sep	58	88	60	88	85	85	79	80	56	32	21	10	30	32	46	46	18	39	49	61	27	7	9	8	88.1
26-Sep	6	6	6	6	6	6	8	6	7	8	11	11	8	9	17	13	33	14	32	5	6	5	7	6	33.1
27-Sep	7	5	6	6	5	8	13	28	17	13	20	24	31	22	26	55	71	50	19	18	9	15	13	21	71.2
28-Sep	15	17	16	14	17	19	18	17	23	30	26	33	25	27	29	35	32	50	72	79	78	30	23	18	78.7
29-Sep	46	21	18	28	16	23	67	44	27	22	22	13	21	13	20	19	21	19	15	22	18	16	11	10	67.0
30-Sep	10	10	10	9	7	8	9	7	8	23	27	22	24	17	27	19	14	11	12	18	14	15	84	82	84.0
91.2 96.7 99.2 90.2 85.7 99.4 92.1 96.9 88.6 93.6 87.3 63.6 71.8 78.9 98.6 86.1 89.2 80.4 76.6 98.9 93.6 89.0 85.4 90.7																									

PASZA

Smoky Heights Station

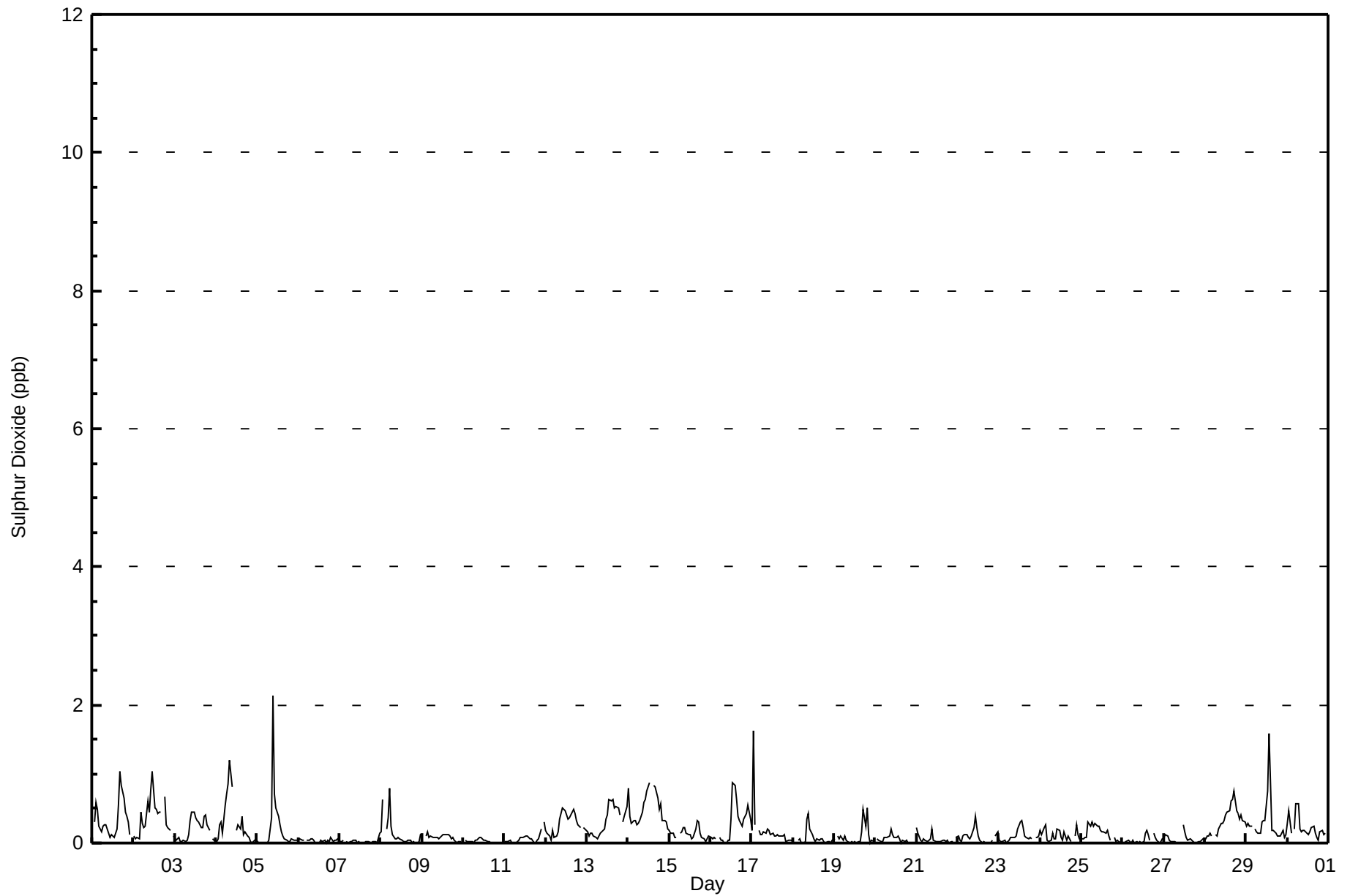
Monthly Summary Tables, Graphs and Roses

Peace Airshed Zone Association
Summary of Hourly Averages

Smoky Heights - Sulphur Dioxide (SO₂) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): Maximum Value: 2.1 ppb on Sep 5 10:00																				1-hr: 0 24-hr: 0 Maximum Daily Average: 0.5 ppb on Sep 14				Hours in Service: 720 Hours of Data: 681 Hours of Missing Data: 39 Hours of Calibration: 37 Percent Operational Time: 99.7			
Minimum Value: 0 ppb on Sep 5 03:00 Maximum Diurnal Average: 0.3 ppb at hour 10 Monthly Average: 0.17 ppb										Minimum Daily Average: 0.0 ppb on Sep 7 Minimum Diurnal Average: 0.1 ppb at hour 23 Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.1 Q ₃ = 0.2 P ₉₀ = 0.4 P ₉₉ = 0.9																	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1-Sep	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	A	0.3	1.0	
2-Sep	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	P	1	0	0	0	A	0	0.4	1.0	
3-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.2	0.5	
4-Sep	0	0	0	0	0	1	1	1	1	1	A	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.2	
5-Sep	0	0	0	0	0	A	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.1	
6-Sep	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	
7-Sep	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	
8-Sep	0	1	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8	
9-Sep	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	0.2	
10-Sep	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	0.1	
11-Sep	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	
12-Sep	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.5	
13-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	A	0	0	1	0.3	0.6	
14-Sep	1	0	0	0	0	0	0	0	0	1	1	1	1	C	C	1	1	1	0	1	0	0	0	0	0.5	0.9	
15-Sep	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	0.3	
16-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0.3	0.9	
17-Sep	0	2	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.6	
18-Sep	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	0.4	
19-Sep	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.1	0.5	
20-Sep	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	
21-Sep	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	0.2	
22-Sep	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	0.4	
23-Sep	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	
24-Sep	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	
25-Sep	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	
26-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.0	0.2	
27-Sep	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	
28-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0.3	0.8	
29-Sep	0	0	0	0	A	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0.3	1.6	
30-Sep	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	P	0.2	0.6	
Diurnal Average																									Diurnal Maximum		
C - Calibration P - Power Failure A - Automated Daily Zero Span																											
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 57 ppb																											

Hourly Averages for SO₂ at Smoky Heights September 2009



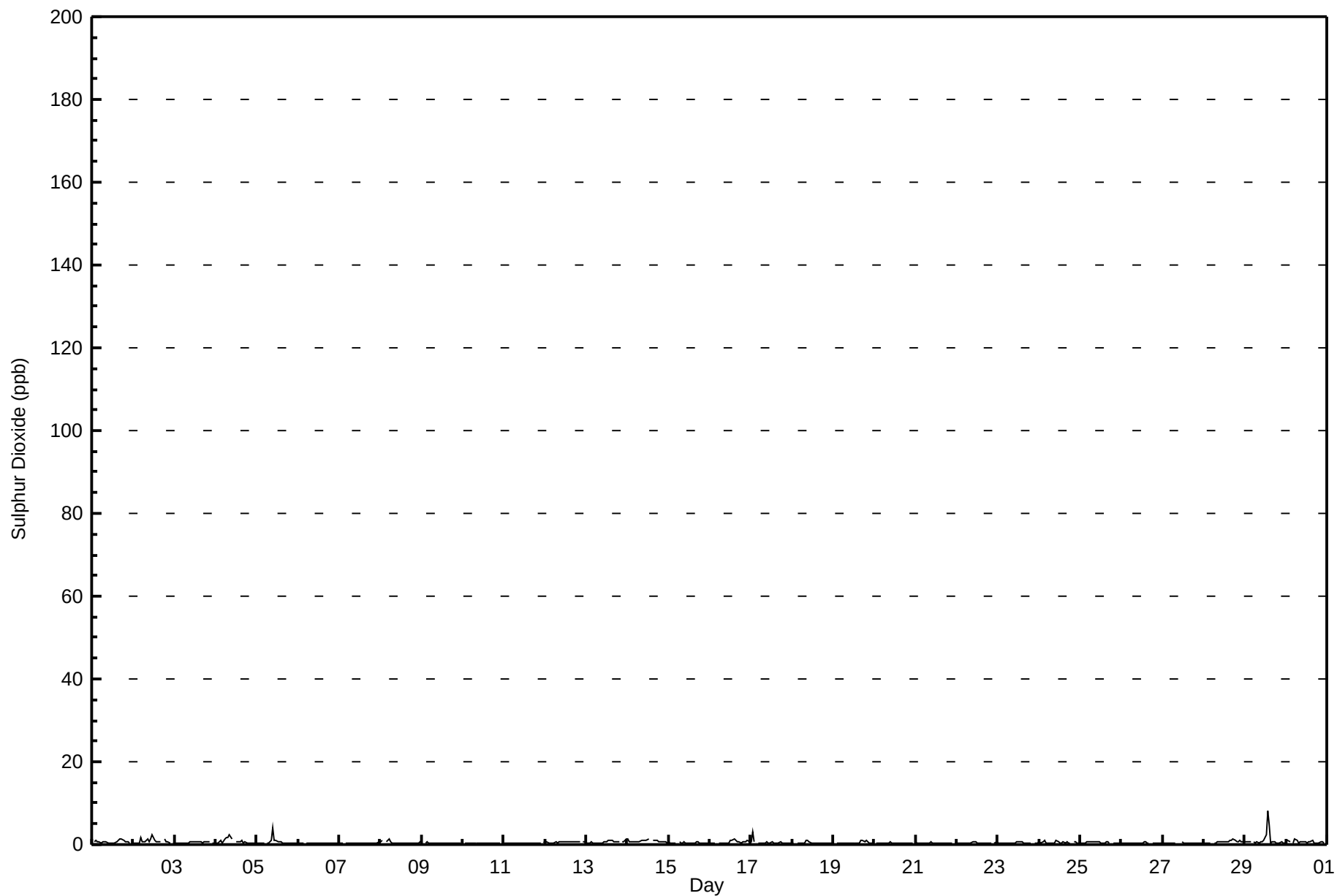
Peace Airshed Zone Association
Summary of Hourly Maximums

Smoky Heights - Sulphur Dioxide (SO₂) - ppb
September 1, 2009 to October 1, 2009

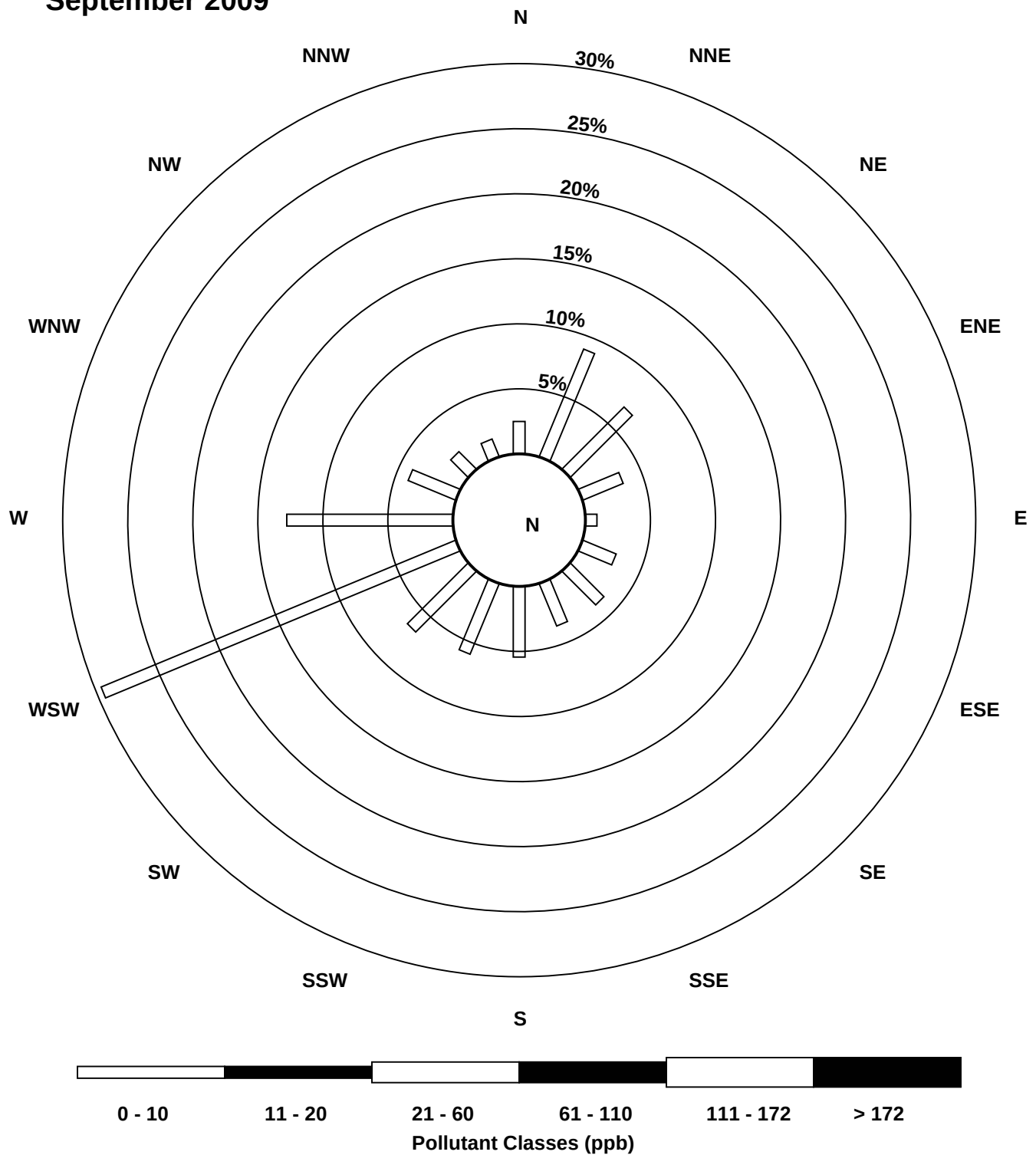
Maximum Value: 8.2 ppb on Sep 29 14:00																			Maximum Daily Average: 1.1 ppb on Sep 29																			Hours in Service: 720	
Minimum Value: 0 ppb on Sep 5 04:00																			Minimum Daily Average: 0.3 ppb on Sep 7																			Hours of Data: 681	
Maximum Diurnal Average: 0.8 ppb at hour 14																			Minimum Diurnal Average: 0.4 ppb at hour 21																			Hours of Missing Data: 39	
Monthly Average: 0.53 ppb																			Percentiles: P ₁ = 0.2 P ₁₀ = 0.3 Q ₁ = 0.3 Median = 0.4 Q ₃ = 0.6 P ₉₀ = 0.8 P ₉₉ = 2.2																			Hours of Calibration: 37	
																																						Percent Operational Time: 99.7	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24															
1-Sep	A	1	1	1	1	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	A	0.7	1.4													
2-Sep	0	0	0	0	2	1	1	1	1	1	1	2	1	1	1	1	1	P	1	1	1	0	A	0	0.8	2.3													
3-Sep	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	A	0	0	0.5	0.8													
4-Sep	0	0	1	1	0	1	2	2	2	1	A	A	1	1	1	1	0	1	0	0	0	0	0	0	0.7	2.3													
5-Sep	0	0	0	0	0	A	0	0	1	4	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.7	4.2													
6-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5													
7-Sep	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.8													
8-Sep	1	1	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.5	1.4													
9-Sep	1	A	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4	0.5													
10-Sep	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													
11-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0.4	0.6													
12-Sep	0	1	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	0.8													
13-Sep	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.6	1.2													
14-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	1	1	1	1	1	1	1	1	0	0.8	1.2													
15-Sep	1	0	1	0	0	A	1	1	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0.4	0.6													
16-Sep	0	0	0	0	A	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	1	1	1	0.6	1.2													
17-Sep	1	3	1	A	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0.6	3.2													
18-Sep	0	0	A	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9													
19-Sep	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0.4	0.9													
20-Sep	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.4	0.7													
21-Sep	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.6													
22-Sep	0	0	0	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	A	0	1	0.4	0.7													
23-Sep	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	A	0	0	0	0.4	0.7													
24-Sep	1	0	1	1	0	0	0	0	0	0	1	1	0	0	1	0	1	0	0	A	1	1	0	0	0.5	1.2													
25-Sep	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	1	1	0	A	0	0	0	0	0	0.5	0.7													
26-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	A	0	0	0	0	0	0	0.4	0.5													
27-Sep	0	0	0	0	0	0	0	0	C	C	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.6													
28-Sep	0	0	0	0	0	A	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.5													
29-Sep	1	1	1	1	A	1	0	1	0	1	1	1	2	8	5	0	1	1	0	0	0	1	0	0	1.1	8.2													
30-Sep	1	1	1	A	0	1	1	0	1	1	1	1	0	1	1	1	0	0	0	0	1	1	0	P	0.6	1.3													
																									Diurnal Average														
																									Diurnal Maximum														
C - Calibration				P - Power Failure				A - Automated Daily Zero Span																															

Hourly Maximums for SO₂ at Smoky Heights

September 2009



Pollutant Rose for SO₂ at Smoky Heights **September 2009**

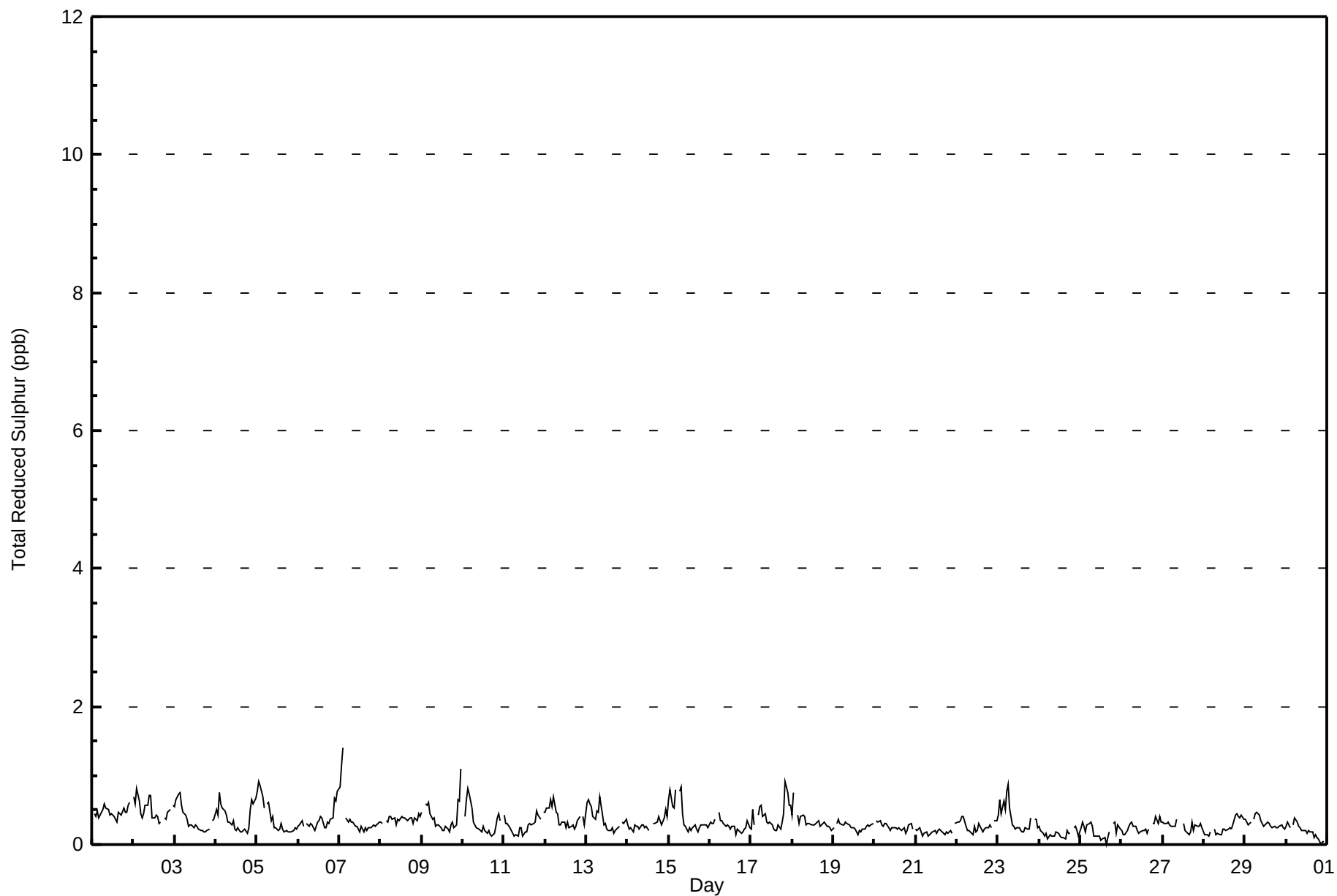


Peace Airshed Zone Association
Summary of Hourly Averages

Smoky Heights - Total Reduced Sulphur (TRS) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0																			Hours in Service: 720										
Maximum Value: 1.4 ppb on Sep 7 03:00																			Maximum Daily Average: 0.5 ppb on Sep 2		Hours of Data: 683								
Minimum Value: 0 ppb on Sep 30 21:00																			Minimum Daily Average: 0.2 ppb on Sep 24		Hours of Missing Data: 37								
Maximum Diurnal Average: 0.4 ppb at hour 2																			Minimum Diurnal Average: 0.2 ppb at hour 17		Hours of Calibration: 35								
Monthly Average: 0.32 ppb																			Percentiles: P ₁ = 0.1 P ₁₀ = 0.2 Q ₁ = 0.2 Median = 0.3 Q ₃ = 0.4 P ₉₀ = 0.5 P ₉₉ = 0.8		Percent Operational Time: 99.7								
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
1-Sep	A	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	1	1	A	0.5	0.6			
2-Sep	1	1	1	1	1	0	0	1	1	1	1	0	0	0	0	0	0	P	0	0	0	1	A	1	0.5	0.8			
3-Sep	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.4	0.7			
4-Sep	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.4	0.8			
5-Sep	1	1	1	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.9			
6-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.4	0.8			
7-Sep	1	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.4			
8-Sep	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	0.5			
9-Sep	0	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.4	1.1			
10-Sep	A	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.3	0.8			
11-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.5			
12-Sep	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.4	0.7			
13-Sep	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.4	0.7			
14-Sep	0	0	0	0	0	0	0	0	0	0	0	0	C	C	0	0	0	0	0	0	0	0	1	0	0.3	0.5			
15-Sep	1	1	1	1	1	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8			
16-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5			
17-Sep	0	1	0	A	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.4	0.9			
18-Sep	0	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8			
19-Sep	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4			
20-Sep	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	0.3			
21-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.3			
22-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.4			
23-Sep	0	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.4	0.9			
24-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.2	0.3			
25-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.3			
26-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.2	0.4			
27-Sep	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4			
28-Sep	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5			
29-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5			
30-Sep	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	P	0.2	0.4			
0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.3 0.4 0.4 0.4																									Diurnal Average				
0.8 1.1 1.4 0.8 0.8 0.8 0.9 0.8 0.7 0.7 0.7 0.4 0.4 0.4 0.4 0.5 0.4 0.4 0.5 0.5 0.9 0.7 0.6 1.1																									Diurnal Maximum				
C - Calibration					P - Power Failure					A - Automated Daily Zero Span																			
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 10 ppb 24-hr 3 ppb																													

Hourly Averages for TRS at Smoky Heights September 2009

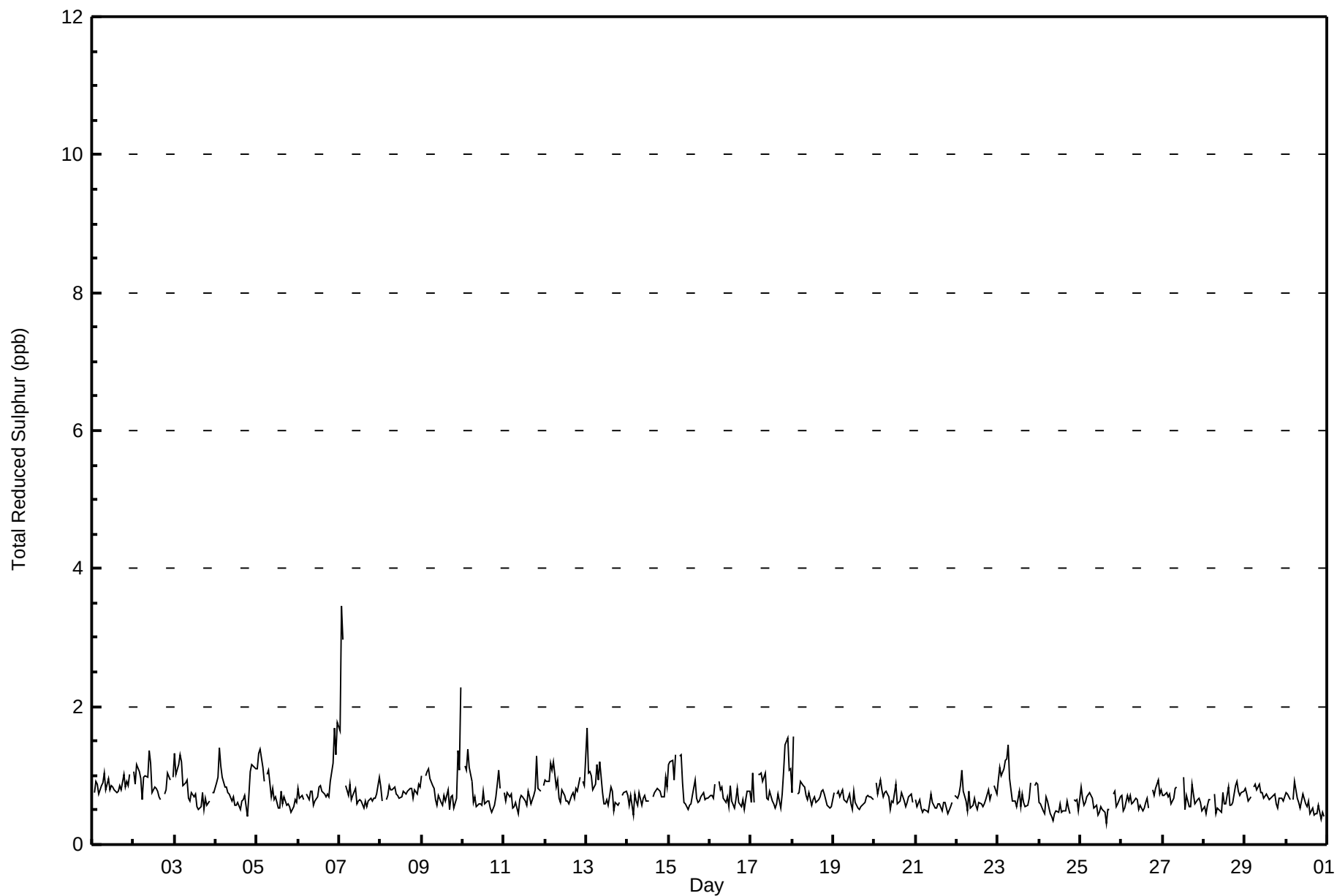


**Peace Airshed Zone Association
Summary of Hourly Maximums**

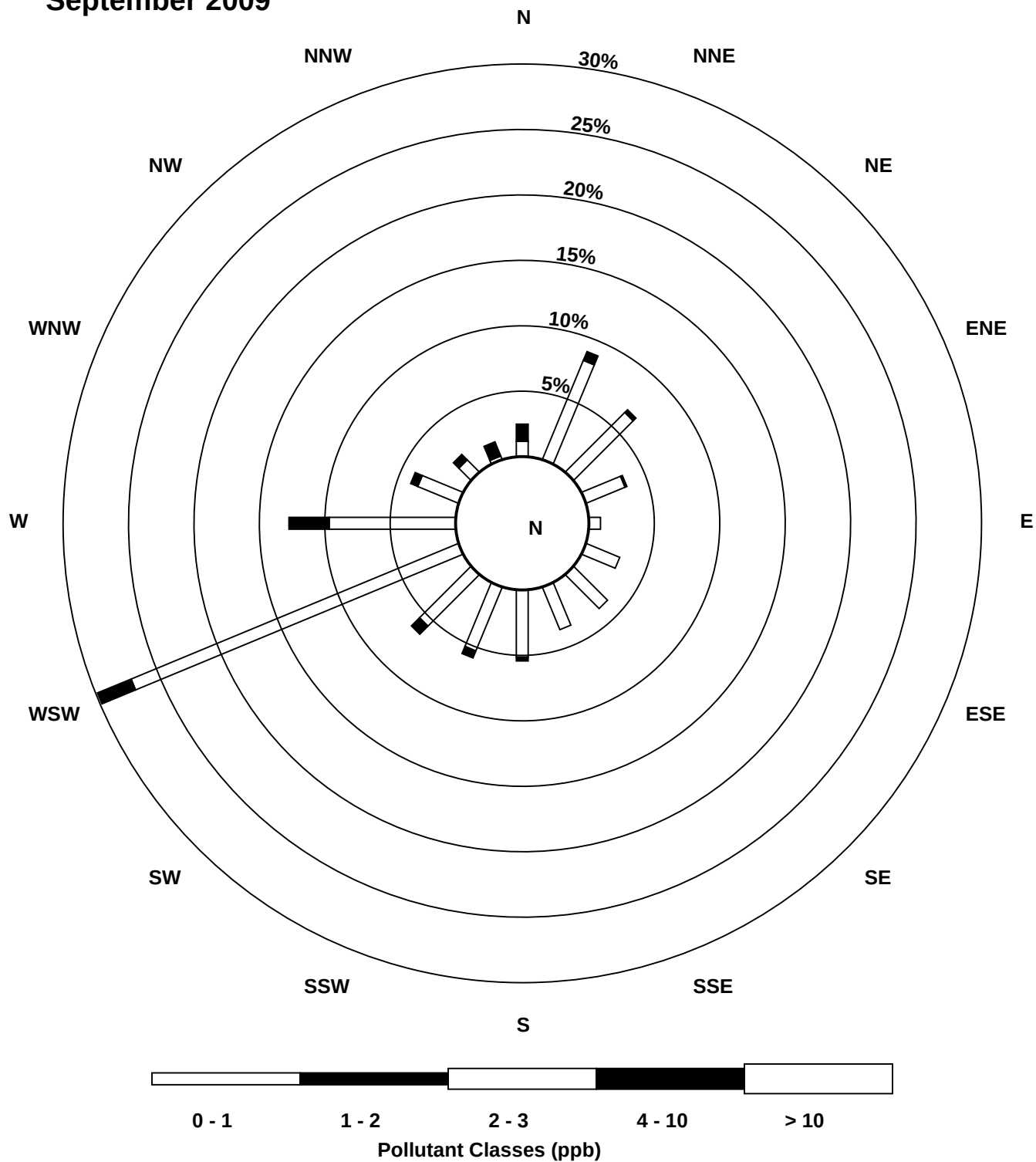
**Smoky Heights - Total Reduced Sulphur (TRS) - ppb
September 1, 2009 to October 1, 2009**

Maximum Value: 3.4 ppb on Sep 7 02:00																			Maximum Daily Average: 1.0 ppb on Sep 7										Hours in Service: 720	
Minimum Value: 0 ppb on Sep 25 16:00																			Minimum Daily Average: 0.5 ppb on Sep 24										Hours of Data: 683	
Maximum Diurnal Average: 0.9 ppb at hour 2																			Minimum Diurnal Average: 0.6 ppb at hour 12										Hours of Missing Data: 37	
Monthly Average: 0.75 ppb																			Percentiles: P ₁ = 0.4 P ₁₀ = 0.5 Q ₁ = 0.6 Median = 0.7 Q ₃ = 0.8 P ₉₀ = 1.0 P ₉₉ = 1.6										Hours of Calibration: 35	
																													Percent Operational Time: 99.7	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24						
1-Sep	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	1.0				
2-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	P	1	1	1	1	A	1	0.9	1.4			
3-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	A	1	1	0.8	1.3			
4-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0.8	1.4			
5-Sep	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0.8	1.4			
6-Sep	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	0.9	1.8			
7-Sep	2	3	3	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	3.4			
8-Sep	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	0.8	0.9			
9-Sep	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	0.9	2.3			
10-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	0.8	1.4			
11-Sep	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.7	1.3			
12-Sep	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	1.2			
13-Sep	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	A	1	1	1	1	0.8	1.7			
14-Sep	1	1	1	0	1	1	1	1	1	1	1	1	C	C	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0			
15-Sep	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	0.8	1.3			
16-Sep	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	0.7	0.9			
17-Sep	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	0.9	1.5			
18-Sep	1	2	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.6			
19-Sep	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8			
20-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	0.9			
21-Sep	1	1	1	1	0	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	A	1	0.6	0.7			
22-Sep	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.7	1.1			
23-Sep	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	1.5			
24-Sep	1	1	0	0	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	A	1	1	1	1	0	0.5	0.7			
25-Sep	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1	A	1	1	1	1	1	1	0.6	0.8			
26-Sep	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	A	1	1	1	1	1	1	1	0.7	0.9			
27-Sep	1	1	1	1	1	1	1	1	1	C	C	C	1	1	1	1	1	1	1	1	1	1	1	1	0	0.7	1.0			
28-Sep	1	0	1	1	1	A	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9			
29-Sep	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	0.7	0.9			
30-Sep	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	1	0	0	0	P	0.6	0.9			
0.9 0.9 0.9 0.9 0.8 0.8 0.8 0.8 0.7 0.7 0.7 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.7 0.7 0.8 0.8 0.8 0.9																								Diurnal Average						
1.7 3.4 3.0 1.4 1.3 1.2 1.5 1.3 1.2 1.4 1.2 0.8 1.0 0.9 0.8 0.9 0.9 0.9 0.9 1.0 1.3 1.4 1.7 1.3 2.3																								Diurnal Maximum						
C - Calibration																								P - Power Failure		A - Automated Daily Zero Span				

Hourly Maximums for TRS at Smoky Heights September 2009



Pollutant Rose for TRS at Smoky Heights **September 2009**

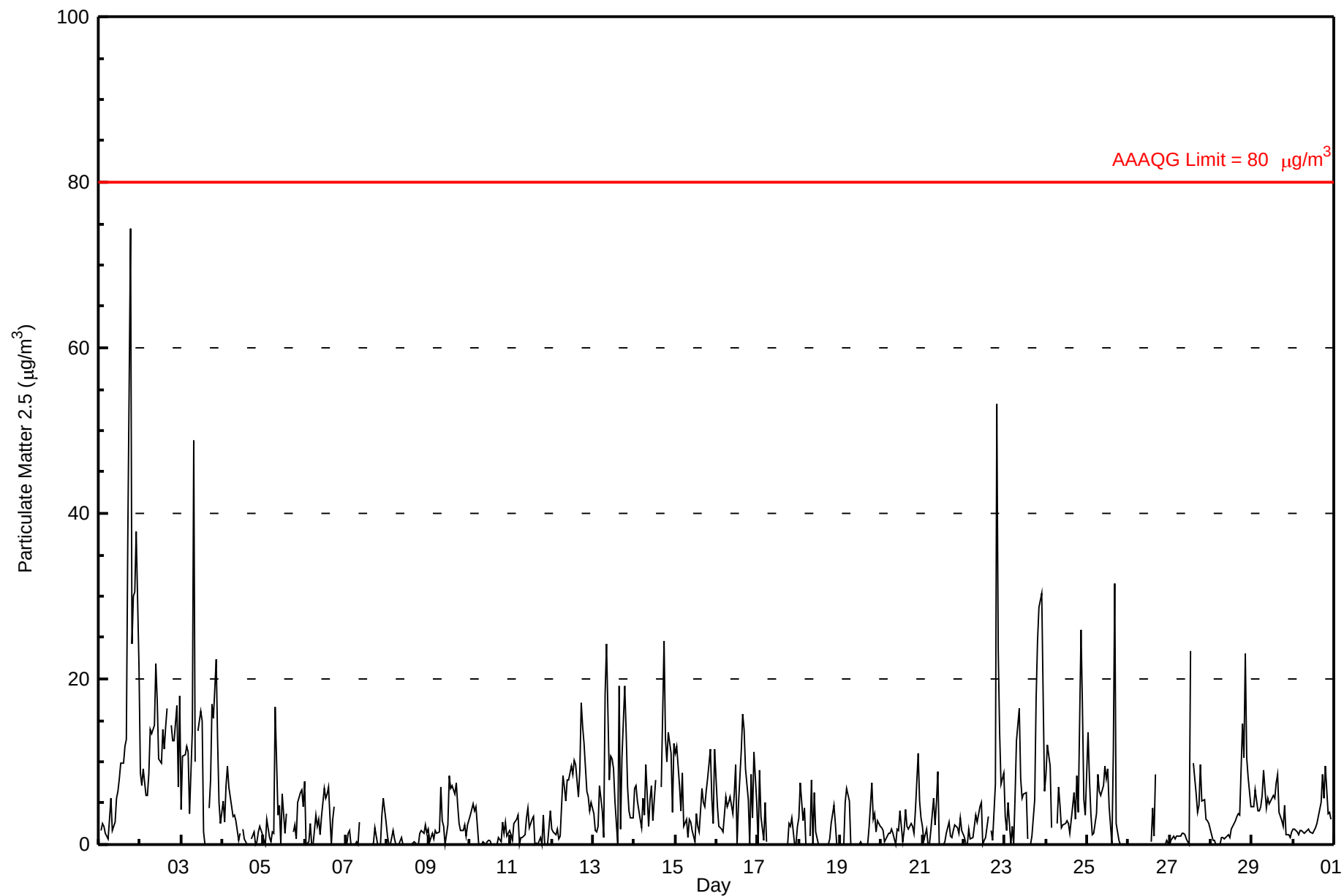


Peace Airshed Zone Association
Summary of Hourly Averages

Smoky Heights - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
September 1, 2009 to October 1, 2009

Number of Exceedences: 1-hr: 0 24-hr: 0 Maximum Value: 74.3 µg/m³ on Sep 1 19:00 Minimum Value: 0 µg/m³ on Sep 3 15:00 Maximum Diurnal Average: 9.0 µg/m³ at hour 19 Monthly Average: 4.87 µg/m³																				Maximum Daily Average: 14.8 µg/m³ on Sep 1 Minimum Daily Average: 0.5 µg/m³ on Sep 8 Minimum Diurnal Average: 2.1 µg/m³ at hour 6 Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.9 Median = 2.7 Q ₃ = 6.4 P ₉₀ = 11.5 P ₉₉ = 30.4					Hours in Service: 720 Hours of Data: 669 Hours of Missing Data: 51 Hours of Calibration: 4 Percent Operational Time: 93.5	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	N	2	3	2	1	1	3	6	2	3	6	6	8	10	10	12	13	37	74	24	30	31	38	22	14.8	74.3
2-Sep	9	7	9	6	6	9	14	13	14	22	17	10	10	14	12	14	17	P	14	13	13	17	7	18	12.4	21.9
3-Sep	4	11	11	12	11	4	14	49	10	BD	14	16	15	1	0	BD	4	8	17	15	22	13	5	3	11.7	48.8
4-Sep	5	3	7	9	7	5	3	4	3	1	1	BD	2	1	0	BD	BD	1	2	0	0	1	2	1	2.8	9.5
5-Sep	0	0	3	1	0	2	1	17	4	5	0	6	1	4	BD	0	BD	1	2	1	5	6	7	5	3.2	16.6
6-Sep	8	0	0	2	0	0	4	2	3	1	3	7	6	6	7	0	3	5	BD	0	0	BD	BD	BD	2.8	7.7
7-Sep	0	1	2	0	BD	0	0	0	3	BD	BD	BD	0	0	0	0	0	2	0	0	0	3	6	3	1.0	5.5
8-Sep	1	0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	1	2	1	0.5	2.3
9-Sep	2	0	1	1	2	1	2	7	3	2	0	2	8	7	7	6	7	5	3	2	2	2	1	2	3.1	8.3
10-Sep	4	4	5	4	5	0	0	0	0	0	0	1	1	0	0	0	0	1	0	3	1	3	1	2	1.4	4.9
11-Sep	1	0	2	3	4	0	1	1	1	3	4	2	3	3	0	0	0	1	0	4	0	0	2	4	1.7	4.4
12-Sep	2	2	1	2	1	1	8	7	5	8	8	9	9	10	10	6	9	17	14	12	6	6	4	5	6.7	17.1
13-Sep	4	2	2	2	7	4	1	18	24	8	11	10	9	5	0	19	2	10	19	14	7	4	3	3	7.8	24.2
14-Sep	7	7	5	3	2	6	3	10	2	5	7	3	8	C	C	C	7	25	13	10	14	11	4	12	7.8	24.5
15-Sep	11	12	7	4	9	2	3	1	3	3	2	0	4	2	2	7	5	5	6	8	11	6	3	12	5.3	11.8
16-Sep	5	2	2	2	2	6	5	5	6	4	6	10	0	5	11	16	14	9	5	0	8	3	11	5	5.9	15.8
17-Sep	0	9	3	1	5	0	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	0	0	3	2	3	0	0	2	--	8.9
18-Sep	3	8	3	4	0	BD	1	8	0	6	2	0	BD	0	0	0	0	0	1	2	5	3	0	0	2.1	7.7
19-Sep	0	0	0	5	7	5	0	0	BD	BD	BD	0	0	0	0	BD	0	2	7	3	4	2	3	2	2.0	7.4
20-Sep	2	2	0	1	1	1	2	1	0	2	2	4	0	2	4	2	2	3	2	1	4	11	5	3	2.4	11.0
21-Sep	2	1	2	0	0	2	6	2	5	9	0	0	0	0	1	3	1	1	2	2	2	1	3	2	1.9	8.8
22-Sep	1	0	0	2	1	1	2	4	3	5	5	0	0	1	3	BD	2	1	7	53	24	13	7	9	6.2	53.2
23-Sep	3	2	5	0	2	0	6	13	16	8	6	6	6	1	BD	0	1	5	18	25	29	30	18	6	8.9	30.4
24-Sep	8	12	9	2	BD	BD	3	7	5	2	2	2	3	2	1	5	6	3	8	4	26	16	5	4	6.3	26.0
25-Sep	14	8	4	1	1	4	9	6	6	7	10	8	9	4	0	11	32	3	1	0	0	BD	BD	0	6.2	31.5
26-Sep	BD	BD	0	0	0	0	0	0	0	BD	0	0	BD	0	4	1	9	BD	BD	5	BD	0	1	0	--	8.5
27-Sep	0	1	1	1	1	1	1	1	1	1	1	0	23	C	10	6	4	5	10	5	5	3	3	2	3.8	23.3
28-Sep	1	1	1	0	0	0	1	1	1	1	1	1	2	2	3	3	4	4	15	10	23	11	8	5	4.0	23.1
29-Sep	5	5	7	4	4	5	6	9	4	6	5	5	6	6	7	9	4	3	2	5	1	1	1	2	4.6	9.0
30-Sep	2	2	1	1	2	2	1	1	2	2	2	1	2	2	2	4	5	8	6	10	4	4	3	P	3.0	9.6
3.7 3.5 3.2 2.6 2.9 2.1 3.4 6.6 4.5 4.5 4.2 4.1 5.0 3.3 3.7 5.2 5.3 5.8 9.0 7.8 8.7 7.2 5.5 4.8																								Diurnal Average		
13.5 12.0 10.8 11.8 11.1 8.5 13.9 48.8 24.2 21.9 17.3 16.1 23.3 14.0 11.5 19.1 31.5 36.5 74.3 53.2 30.1 30.6 37.9 21.5																								Diurnal Maximum		
C - Calibration P - Power Failure N - Not Valid BD - Baseline Drift																										
Alberta Ambient Air Quality Guideline (AAAQG): 1-hr 80 µg/m³ Alberta Ambient Air Quality Objective (AAAQO): 24-hr 30 µg/m³																										

Hourly Averages for PM_{2.5} at Smoky Heights September 2009

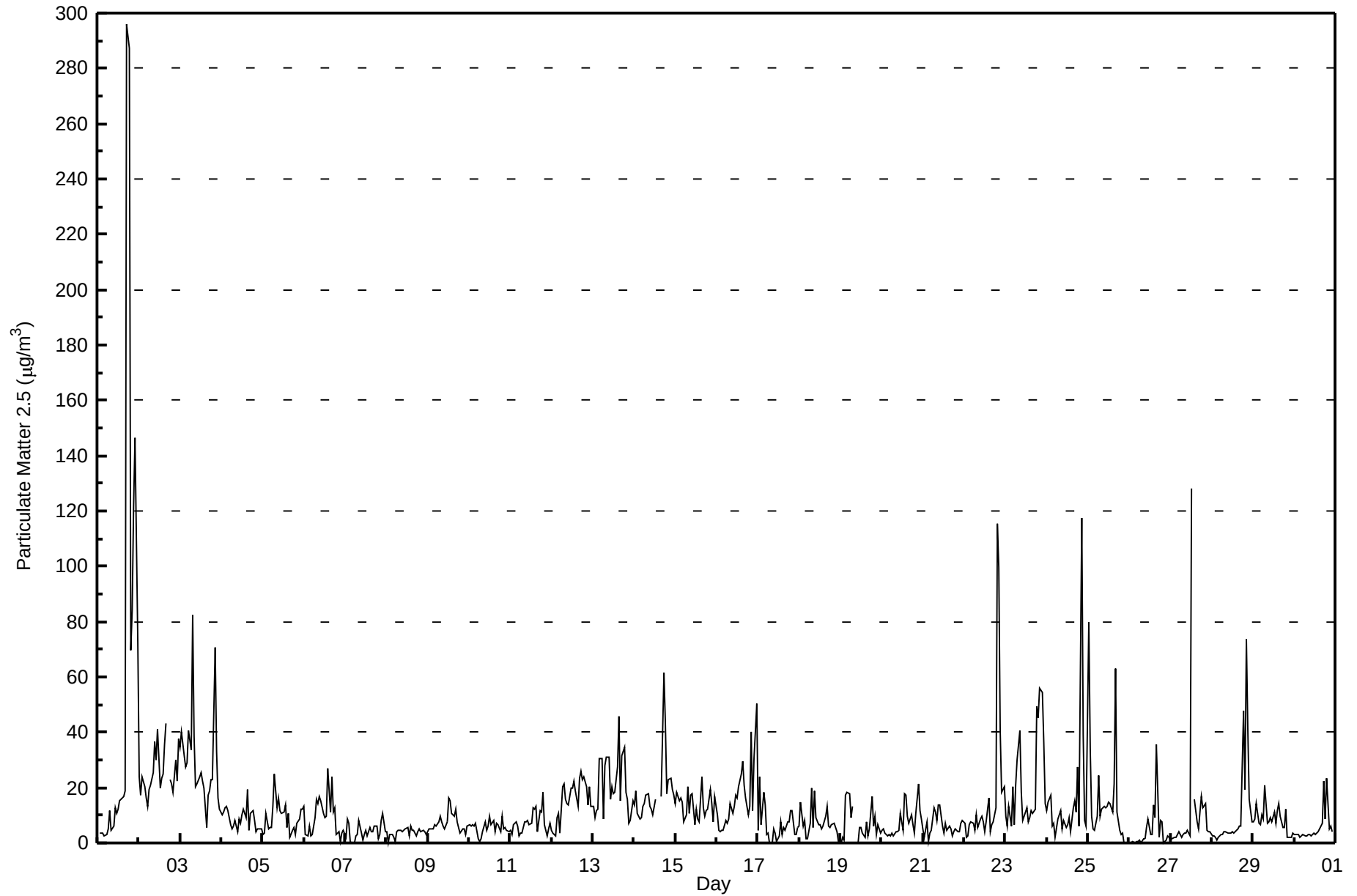


Peace Airshed Zone Association
Summary of Hourly Maximums

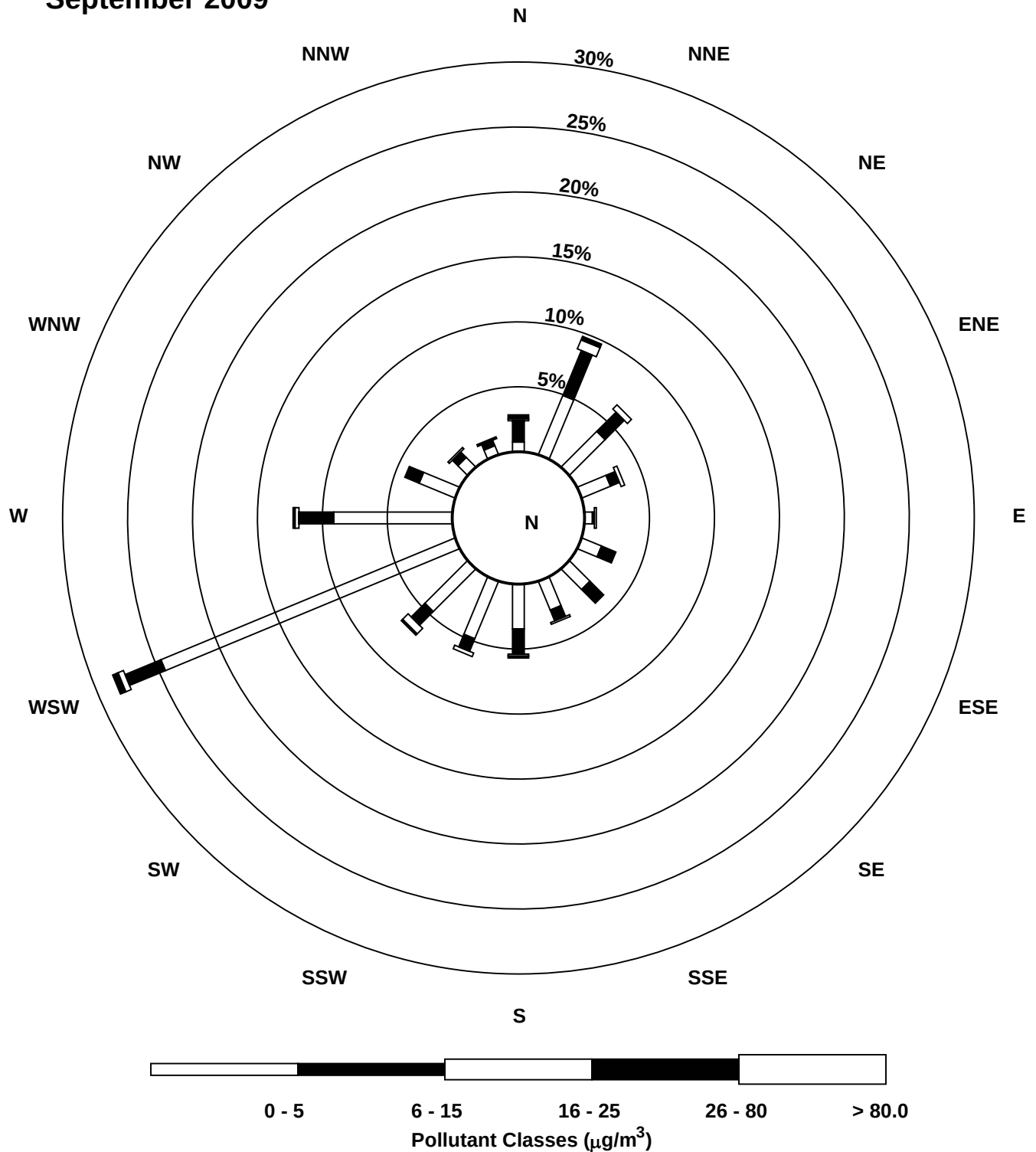
Smoky Heights - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
September 1, 2009 to October 1, 2009

Maximum Value: 296.0 μg/m³ on Sep 1 18:00																				Maximum Daily Average: 53.2 μg/m³ on Sep 1					Hours in Service: 720	
Minimum Value: 0 μg/m³ on Sep 7 06:00																				Minimum Daily Average: 3.8 μg/m³ on Sep 8					Hours of Data: 712	
Maximum Diurnal Average: 24.9 μg/m³ at hour 21																				Minimum Diurnal Average: 7.4 μg/m³ at hour 6					Hours of Missing Data: 8	
Monthly Average: 13.12 μg/m³																				Percentiles: P ₁ = 0.0 P ₁₀ = 2.6 Q ₁ = 4.2 Median = 7.8 Q ₃ = 14.8 P ₉₀ = 24.0 P ₉₉ = 114.6					Hours of Calibration: 4	
																				Percent Operational Time: 99.4						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
1-Sep	N	3	4	3	3	3	5	12	4	6	13	11	12	15	16	17	19	296	287	70	84	122	146	73	53.2	296.0
2-Sep	24	17	24	21	16	13	19	21	26	37	30	41	20	23	25	35	43	P	23	21	18	30	23	37	25.6	43.4
3-Sep	34	40	32	27	29	41	34	82	39	20	21	24	25	23	20	5	17	19	23	23	70	33	16	12	29.6	82.2
4-Sep	10	11	13	13	12	7	5	6	8	4	8	7	10	12	9	20	5	10	12	8	4	5	5	5	8.8	19.5
5-Sep	3	4	11	5	6	6	13	25	13	16	12	11	11	14	5	11	2	4	6	3	7	8	12	12	9.1	24.7
6-Sep	13	3	2	6	3	3	9	16	14	17	15	11	9	10	27	11	24	11	13	3	4	0	4	5	9.7	27.2
7-Sep	2	9	7	1	0	0	3	3	8	3	1	3	5	3	6	4	4	6	6	2	3	8	11	4	4.3	10.7
8-Sep	4	0	3	3	2	1	4	5	4	4	5	5	6	3	6	5	5	3	4	5	4	5	4	3	3.8	6.3
9-Sep	4	5	5	5	7	6	7	9	8	6	5	8	16	15	10	10	12	8	5	4	5	5	3	6	7.4	16.4
10-Sep	7	6	6	6	7	1	1	2	4	8	5	6	10	7	8	4	7	7	4	10	5	5	4	4	5.6	9.9
11-Sep	5	3	7	7	6	3	4	4	8	8	8	7	7	13	12	13	4	12	11	18	7	2	5	7	7.5	18.5
12-Sep	5	4	3	9	11	3	20	22	16	14	13	20	20	22	19	13	23	26	23	24	20	14	20	13	15.7	26.1
13-Sep	13	9	11	12	31	31	9	28	31	31	16	20	18	18	28	46	15	31	34	18	16	7	8	15	20.7	45.9
14-Sep	14	19	11	9	9	13	14	17	18	13	12	10	16	C	C	C	17	61	43	18	23	23	19	17	18.9	61.3
15-Sep	14	18	15	16	15	8	10	20	11	17	18	7	12	9	8	24	13	10	11	12	19	14	8	17	13.6	23.9
16-Sep	10	4	4	5	5	8	7	8	14	11	13	17	16	20	25	30	21	16	10	13	40	12	30	50	16.3	50.2
17-Sep	5	24	7	18	14	3	4	0	0	5	4	1	3	7	3	6	4	7	8	11	12	3	3	5	6.5	24.1
18-Sep	6	15	6	8	1	2	7	20	5	19	9	7	6	5	6	10	13	6	6	7	7	5	4	0	7.5	19.6
19-Sep	0	2	1	17	18	18	9	13	BD	0	0	6	5	3	2	8	2	5	17	6	10	3	7	4	6.8	18.3
20-Sep	5	5	4	2	3	3	4	3	4	4	5	11	5	18	17	10	7	10	6	4	11	21	12	9	7.5	21.5
21-Sep	5	2	8	1	4	4	13	11	8	14	14	6	3	7	4	6	5	2	4	5	4	4	7	8	6.3	13.7
22-Sep	7	2	3	7	7	7	5	10	6	8	10	7	4	7	16	4	7	8	13	116	100	41	18	21	18.1	115.7
23-Sep	10	6	13	6	20	7	21	30	41	18	8	10	13	8	9	12	11	12	49	45	56	54	36	14	21.2	56.1
24-Sep	11	15	17	6	7	2	8	10	12	5	8	6	7	9	4	13	15	11	27	6	117	39	8	6	15.5	117.3
25-Sep	80	34	10	5	5	10	24	9	12	13	13	13	15	14	11	21	63	11	4	3	4	0	0	0	15.6	79.8
26-Sep	0	0	0	0	0	0	1	0	2	1	6	9	3	3	14	9	36	2	8	8	0	1	2	2	4.5	35.8
27-Sep	1	1	2	2	3	4	2	3	4	4	5	3	128	C	16	8	5	11	17	13	14	5	4	4	11.2	128.0
28-Sep	2	2	2	1	2	3	3	4	4	4	4	4	4	3	4	5	6	6	48	19	74	42	16	8	11.3	73.7
29-Sep	8	8	14	7	7	10	9	21	7	8	9	8	11	7	12	14	10	5	6	12	2	2	2	3	8.4	21.0
30-Sep	3	3	3	2	3	3	3	2	3	3	2	3	3	4	4	6	7	22	9	24	5	6	4	P	5.5	23.6
10.5 9.2 8.3 7.8 8.5 7.4 9.2 13.9 11.5 10.7 9.7 10.0 14.1 10.9 12.0 13.0 14.1 22.1 24.6 17.7 24.9 17.4 14.8 12.6																									Diurnal Average	
79.8 40.2 31.8 27.2 30.6 40.9 33.5 82.2 40.8 36.8 29.9 41.1 128.0 23.4 27.5 45.9 63.2 296.0 287.2 115.7 117.3 121.6 146.2 72.7																									Diurnal Maximum	
C - Calibration P - Power Failure N - Not Valid BD - Baseline Drift																										

Hourly Maximums for PM_{2.5} at Smoky Heights September 2009



Pollutant Rose for PM_{2.5} at Smoky Heights **September 2009**

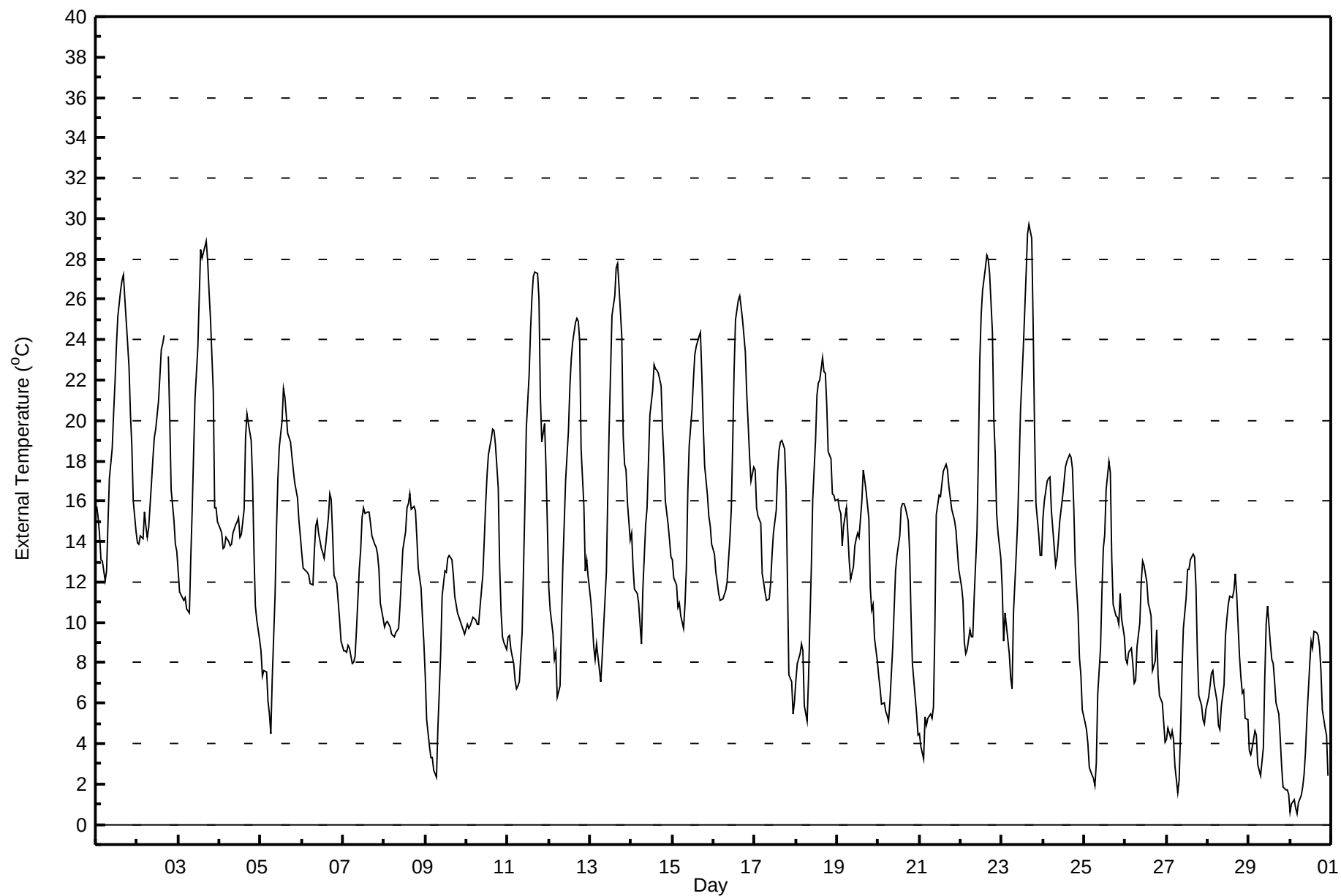


Peace Airshed Zone Association
Summary of Hourly Averages

Smoky Heights - External Temperature (ET) - °C
September 1, 2009 to October 1, 2009

Maximum Value: 29.7 °C on Sep 23 17:00																				Maximum Daily Average: 19.2 °C on Sep 1					Hours in Service: 720	
Minimum Value: 0 °C on Sep 30 05:00																				Minimum Daily Average: 4.7 °C on Sep 30					Hours of Data: 718	
Maximum Diurnal Average: 19.6 °C at hour 16																				Minimum Diurnal Average: 8.0 °C at hour 7					Hours of Missing Data: 2	
Monthly Average: 13.24 °C																				Percentiles: P ₁ = 1.5 P ₁₀ = 5.4 Q ₁ = 8.8 Median = 12.9 Q ₃ = 16.7 P ₉₀ = 22.3 P ₉₉ = 28.0					Hours of Calibration: 0	
																				Percent Operational Time: 99.7						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	16	15	14	13	13	12	13	15	17	19	20	22	24	25	26	27	27	26	24	23	20	19	16	15	19.2	27.2
2-Sep	14	14	14	14	15	15	14	15	17	18	19	20	21	22	24	24	24	P	23	20	17	15	14	14	17.7	24.2
3-Sep	13	12	11	11	11	11	10	13	16	18	21	24	26	28	28	29	29	28	26	25	21	16	16	15	19.1	28.9
4-Sep	15	14	14	14	14	14	14	14	14	15	15	15	14	14	16	19	20	20	19	17	13	11	10	9	14.8	20.3
5-Sep	9	7	8	8	6	5	4	7	11	15	17	19	20	22	21	20	19	19	18	18	17	16	15	14	14.0	21.6
6-Sep	13	13	13	12	12	12	12	14	15	15	14	14	13	13	14	15	16	16	14	12	12	11	10	9	13.2	16.4
7-Sep	9	9	9	9	9	8	8	8	10	13	14	15	16	15	15	15	15	14	14	14	13	13	11	10	11.9	15.7
8-Sep	10	10	10	10	9	9	9	10	10	11	12	14	15	16	16	16	16	16	16	14	13	12	10	9	12.1	16.4
9-Sep	7	5	4	3	3	3	2	5	7	9	11	13	12	13	13	13	12	11	11	10	10	10	10	9	8.7	13.3
10-Sep	10	10	10	10	10	10	10	10	11	12	14	16	17	18	19	20	19	19	17	13	11	9	9	9	13.0	19.6
11-Sep	9	9	9	8	7	7	7	7	10	13	16	20	22	25	26	27	27	27	26	21	19	20	18	15	16.4	27.4
12-Sep	12	11	9	8	8	6	7	10	13	15	17	20	22	23	24	25	25	25	24	19	16	13	13	12	15.7	25.1
13-Sep	11	10	9	8	9	8	7	8	10	12	16	20	22	25	26	28	28	27	24	19	18	18	16	14	16.4	27.8
14-Sep	14	13	12	11	11	10	9	12	15	16	18	20	22	23	23	22	22	22	20	18	16	15	14	13	16.2	22.8
15-Sep	13	12	12	11	11	10	10	11	13	16	19	21	22	23	24	24	24	22	20	18	16	15	15	14	16.5	24.4
16-Sep	13	12	12	11	11	11	11	12	12	14	16	19	22	25	26	26	26	25	23	21	20	18	17	18	17.6	26.2
17-Sep	18	16	15	15	12	12	12	11	11	12	13	14	16	18	19	19	19	19	17	12	7	7	5	6	13.5	19.0
18-Sep	7	8	8	9	9	6	5	7	10	13	16	19	21	22	22	23	22	22	21	18	18	16	16	16	14.8	23.1
19-Sep	16	16	15	14	15	16	14	13	12	13	14	14	14	14	16	18	17	16	15	12	11	11	9	8	13.9	17.5
20-Sep	7	7	6	6	6	5	5	6	9	11	13	13	14	16	16	16	16	15	13	10	8	6	5	4	9.8	15.9
21-Sep	4	4	3	5	5	5	5	5	6	10	15	16	16	17	17	18	18	17	16	16	15	15	14	13	11.5	17.8
22-Sep	12	11	9	8	9	10	9	9	11	14	18	23	25	26	28	28	28	27	24	20	18	15	14	13	17.2	28.2
23-Sep	12	9	10	9	8	7	7	10	13	15	18	20	24	25	27	29	30	29	25	20	16	14	13	13	16.9	29.7
24-Sep	15	16	17	17	17	16	14	13	13	14	15	16	17	18	18	18	18	18	16	13	11	8	7	6	14.6	18.3
25-Sep	5	5	4	3	3	2	2	3	6	9	12	14	14	17	18	17	13	11	10	10	10	11	10	9	9.1	17.9
26-Sep	8	8	9	9	8	7	7	9	10	12	13	13	12	11	11	10	8	8	10	7	6	6	5	4	8.8	13.1
27-Sep	4	5	4	5	4	3	2	2	5	8	10	11	13	13	13	13	13	12	8	6	6	5	5	6	7.3	13.4
28-Sep	6	7	7	8	7	6	5	5	6	7	9	10	11	11	11	12	12	11	8	7	6	7	5	5	8.0	12.4
29-Sep	4	3	4	5	4	3	3	2	4	7	10	11	9	8	8	7	6	5	4	3	2	2	2	2	4.9	10.8
30-Sep	1	1	1	1	0	1	1	2	2	4	5	8	9	9	10	10	9	9	8	6	5	4	2	P	4.7	9.5
10.2 9.7 9.4 9.2 9.0 8.3 8.0 8.9 10.6 12.6 14.7 16.4 17.5 18.5 19.1 19.6 19.4 18.5 17.1 14.8 13.0 11.9 10.9 10.5																									Diurnal Average	
17.5 16.1 17.0 17.1 17.2 15.7 14.4 14.9 17.2 18.6 21.1 23.6 26.1 28.4 28.1 29.2 29.7 29.0 26.4 25.1 21.4 19.9 17.7 17.7																									Diurnal Maximum	
P - Power Failure																										

Hourly Averages for External Temperature at Smoky Heights September 2009



Peace Airshed Zone Association
Summary of Hourly Averages

Smoky Heights
September 1, 2009 to October 1, 2009
WS (km/h), WD (deg)

Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1 Spd	N	10	11	10	9	6	8	9	8	7	6	8	7	6	5	5	3	1	4	5	2	4	4	4	3.8	10.7
Dir	N	11	16	22	20	17	19	29	45	70	117	152	135	120	123	148	137	171	332	97	26	7	351	3	49.4	16.0
2 Spd	6	2	4	5	7	8	6	13	11	6	6	12	9	5	4	3	8	P	6	5	5	5	5	6	3.8	12.9
Dir	319	355	276	342	6	52	240	277	281	238	268	293	299	343	43	114	17	P	4	18	19	24	20	19	328.2	276.6
3 Spd	4	4	4	3	5	5	3	5	7	5	7	9	12	14	15	17	15	20	17	13	16	26	21	13	5.1	26.4
Dir	354	6	8	10	28	25	359	20	29	24	54	38	35	30	40	42	47	55	52	43	185	240	278	240	25.6	240.4
4 Spd	10	11	10	13	12	20	19	21	24	27	28	30	22	18	21	22	25	23	15	11	11	12	14	14	17.6	29.5
Dir	280	231	254	228	235	247	245	247	251	253	256	259	253	249	253	264	273	270	273	268	255	263	270	271	256.3	258.7
5 Spd	14	7	8	7	5	5	5	5	3	3	6	8	8	12	16	14	13	15	16	16	13	10	8	9	4.5	16.2
Dir	267	241	223	186	196	202	273	245	222	126	56	45	54	44	51	46	51	53	55	60	55	46	31	21	48.9	54.5
6 Spd	11	11	13	13	12	9	7	8	6	10	12	12	6	6	10	6	3	1	11	11	7	8	5	3	1.3	13.3
Dir	32	26	44	45	32	23	11	22	65	178	226	227	170	156	174	172	132	57	326	297	250	272	278	336	6.4	44.1
7 Spd	2	3	9	11	10	6	10	11	10	26	29	42	42	51	48	43	39	32	41	39	38	35	25	25	25.2	50.8
Dir	46	198	238	237	238	209	203	182	190	231	235	242	241	244	245	244	244	230	243	239	238	241	242	247	238.0	244.4
8 Spd	24	26	33	33	29	24	25	24	22	27	29	31	35	38	43	43	37	33	26	28	22	24	20	16	28.8	43.0
Dir	249	249	252	255	253	257	260	261	259	258	258	260	255	257	255	258	259	259	254	250	251	249	260	262	255.8	257.8
9 Spd	13	6	6	9	8	6	7	5	4	2	3	5	7	9	8	7	6	6	5	5	2	3	3	4	1.3	13.0
Dir	253	264	218	252	263	212	194	202	157	106	42	54	44	35	28	13	24	16	19	39	19	330	318	269	319.7	252.7
10 Spd	4	5	8	11	14	14	16	14	17	23	25	18	20	22	21	23	21	20	16	10	9	10	10	12	14.9	24.7
Dir	286	218	257	242	242	243	245	249	242	251	250	258	260	260	252	249	239	245	259	250	243	254	242	246	249.1	249.7
11 Spd	8	8	9	10	11	10	10	13	9	9	8	10	11	12	11	8	10	8	7	4	7	13	5	4	8.2	13.3
Dir	232	192	197	189	185	192	202	209	195	189	170	168	170	181	186	172	158	159	137	138	145	155	183	262	181.0	155.5
12 Spd	5	6	5	1	4	6	5	1	4	6	4	6	5	3	3	4	5	7	4	4	4	3	4	6	1.2	6.6
Dir	289	285	319	254	340	278	25	114	149	133	159	120	69	129	135	128	117	67	49	12	350	352	13	13	46.8	66.9
13 Spd	1	4	1	3	3	5	4	7	6	5	6	6	6	4	9	8	9	10	7	7	7	5	4	3	1.7	9.7
Dir	344	288	301	284	206	178	222	229	210	172	145	129	137	103	61	29	27	28	22	16	31	44	32	64	58.0	27.8
14 Spd	6	8	7	7	7	6	7	5	4	7	7	7	8	5	4	4	3	2	6	8	11	11	11	12	1.5	11.8
Dir	58	28	16	6	12	11	27	17	71	121	101	100	138	143	168	216	228	214	311	313	284	284	270	260	345.6	260.4
15 Spd	14	8	10	3	6	2	7	11	9	2	5	8	5	4	5	5	8	8	6	5	5	5	9	10	2.9	13.6
Dir	262	260	259	185	202	272	244	255	256	251	303	310	331	301	265	65	39	60	25	17	19	22	14	15	307.2	261.6
16 Spd	12	10	11	10	11	13	11	10	13	12	14	13	10	17	15	12	13	9	8	9	9	7	5	24	8.9	24.0
Dir	26	26	26	22	23	26	38	33	45	37	31	40	67	113	90	72	55	62	58	76	64	48	272	299	42.4	299.2
17 Spd	14	4	6	16	5	5	7	12	17	15	15	20	24	27	22	22	19	17	10	5	7	5	2	3	11.9	26.7
Dir	305	330	300	262	290	242	243	248	256	253	255	252	262	260	262	257	255	252	250	257	256	262	334	231	260.4	260.5
18 Spd	1	5	6	8	6	8	8	5	9	10	6	7	11	15	11	10	6	11	7	9	13	13	13	11	7.1	14.5
Dir	220	249	235	206	193	214	217	227	211	194	156	154	167	206	183	157	111	131	108	135	153	141	147	145	171.8	205.7
19 Spd	12	7	8	10	7	19	25	23	25	31	38	37	40	34	35	38	36	28	19	13	14	17	15	17	20.9	39.5
Dir	150	152	159	269	270	280	264	239	239	249	249	248	254	250	253	252	253	261	248	231	199	237	243	230	246.6	253.9
20 Spd	13	17	17	18	17	21	20	21	27	32	30	22	19	18	24	28	34	28	16	12	12	10	7	4	18.7	33.7
Dir	246	247	247	257	261	256	246	244	250	266	291	284	280	281	262	252	256	249	249	250	244	246	234	252	258.3	255.6
21 Spd	9	7	9	11	6	6	2	6	6	20	40	43	44	39	39	38	36	30	29	23	17	13	9	4	19.4	44.2
Dir	225	229	210	196	198	217	177	181	204	220	251	253	256	254	247	240	247	257	263	258	252	248	232	223	244.9	255.7
22 Spd	5	5	6	6	7	11	8	8	8	8	12	18	31	36	29	38	32	25	16	12	10	9	6	4	13.6	37.7
Dir	203	217	208	211	238	214	217	186	176	182	176	220	241	243	241	251	250	248	241	257	255	245	251	227	234.7	251.0

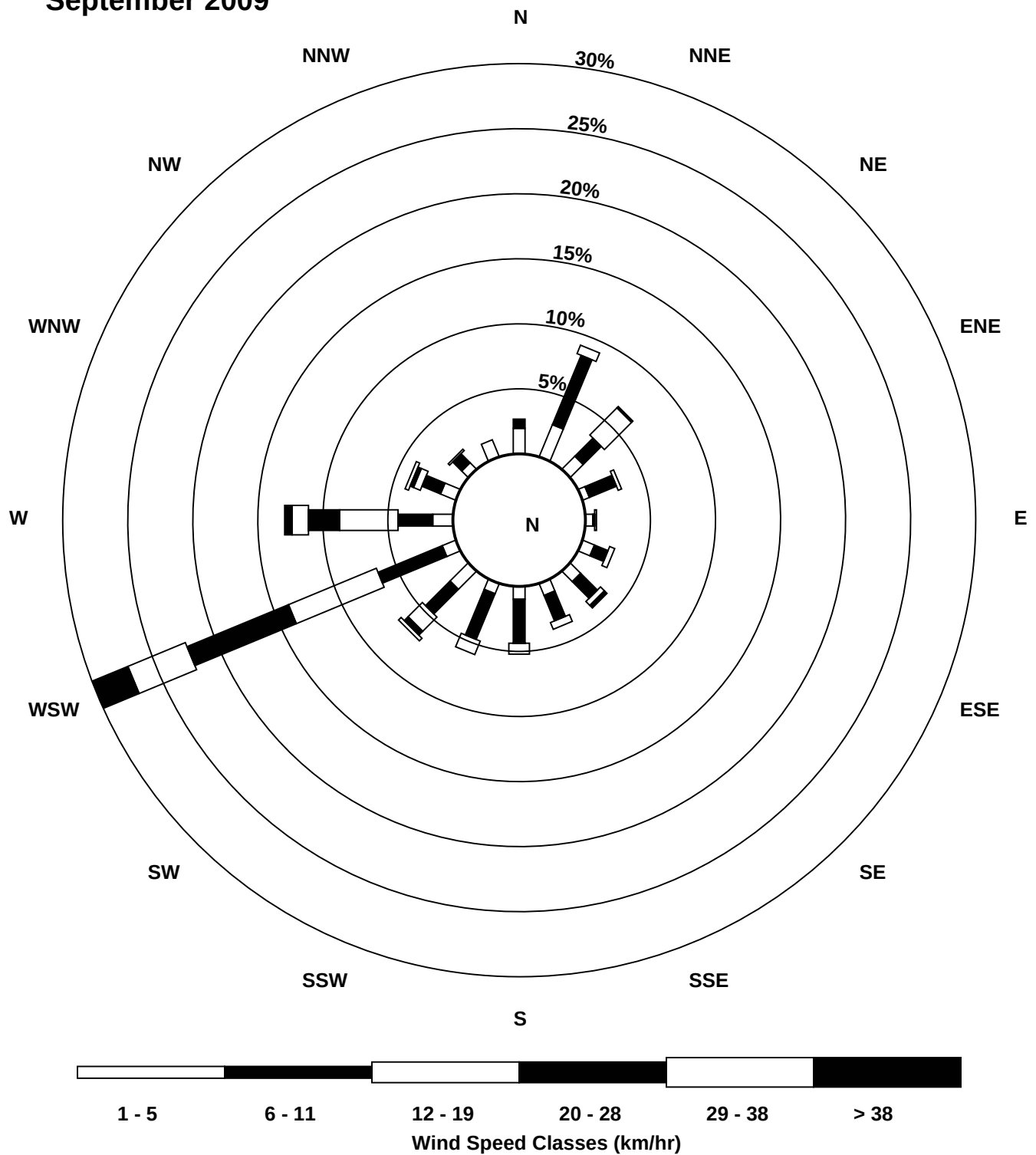
Peace Airshed Zone Association

Summary of Hourly Averages

Smoky Heights
September 1, 2009 to October 1, 2009
WS (km/h), WD (deg)

Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24							
23 Spd	6	2	5	1	2	3	4	5	8	10	9	9	8	9	8	7	9	5	5	3	7	9	7	5	3.4	10.1					
Dir	267	274	290	320	11	6	239	235	201	181	174	178	164	162	160	130	123	83	48	161	231	246	223	219	189.0	181.1					
24 Spd	14	17	15	29	46	37	30	26	36	40	43	38	35	32	30	29	28	25	21	16	14	12	12	11	26.2	46.3					
Dir	263	267	276	269	262	253	256	244	250	252	253	262	255	251	249	252	262	263	257	255	271	259	255	241	256.7	261.7					
25 Spd	12	13	14	13	6	12	8	10	11	11	11	11	12	12	18	12	30	17	16	17	15	23	19	17	12.7	29.6					
Dir	257	263	214	195	213	205	205	200	200	183	175	165	169	177	203	180	242	240	220	216	207	237	239	239	214.9	241.6					
26 Spd	20	18	25	26	25	18	13	22	26	34	47	47	48	42	42	41	36	33	33	24	22	24	23	24	29.1	48.4					
Dir	240	251	249	247	238	244	247	246	245	244	255	260	256	250	265	267	289	273	265	254	255	254	255	257	256.1	256.2					
27 Spd	22	22	18	20	21	20	21	19	19	19	20	18	18	10	12	13	9	9	4	1	5	3	1	3	12.1	22.4					
Dir	250	254	252	259	252	240	245	253	255	251	232	232	217	247	242	253	241	209	179	31	39	43	103	83	244.6	254.1					
28 Spd	7	8	8	10	7	9	11	12	13	9	15	19	19	23	26	18	9	4	5	7	6	5	6	8	5.9	25.9					
Dir	71	66	76	77	48	22	20	38	52	60	117	125	121	126	135	140	144	111	304	301	307	351	287	283	94.2	135.5					
29 Spd	5	3	4	6	9	9	8	5	4	4	8	9	22	20	16	18	19	14	18	17	13	11	16	14	10.1	22.2					
Dir	263	100	182	233	256	262	264	214	155	237	306	258	246	247	275	282	265	302	299	277	261	242	270	262	264.2	246.2					
30 Spd	13	15	16	14	13	14	16	9	8	10	9	8	10	4	11	20	17	18	18	11	12	8	7	P	11.7	20.2					
Dir	243	251	268	260	254	248	245	269	232	242	275	297	297	309	261	253	267	275	271	253	263	247	244	P	260.4	253.4					
Spd	6.3	5.3	5.9	6.9	6.8	7.0	7.5	7.7	7.9	10.0	10.9	11.4	11.9	11.4	11.5	11.6	11.0	8.9	7.7	6.1	6.4	7.4	7.0	6.7	Diurnal Average						
Dir	261.4	259.6	254.2	251.3	255.8	251.7	251.4	245.7	238.7	236.5	244.9	247.3	244.4	242.0	242.5	247.3	256.8	258.6	268.4	259.4	246.1	249.9	258.7	261.1	Diurnal Maximum						
Spd	23.8	26.0	32.8	33.3	46.3	36.7	29.5	25.9	36.1	39.7	46.6	47.0	48.4	50.8	47.8	43.0	39.5	33.3	40.7	38.6	37.7	34.9	25.4	24.5	Diurnal Maximum						
Dir	248.8	249.1	252.1	254.6	261.7	252.9	255.7	244.2	250.2	252.1	254.7	259.8	256.2	244.4	245.2	257.8	243.6	259.2	242.8	239.3	238.1	241.1	242.4	247.0							
Maximum Speed Value: 51 km/h on Sep 7 14:00																		Minimum Speed Value: 1 km/h on Sep 12 08:00													
Maximum Daily Speed Average: 29.1 km/h on Sep 26																		Minimum Daily Speed Average: 1.2 km/h on Sep 12													
Maximum Diurnal Speed Average: 11.9 km/h at hour 13																		Minimum Diurnal Speed Average: 5.3 km/h at hour 2													
Monthly Average Velocity: 8.31 km/h 250.25 deg																		Speed Percentiles: P ₁ = 1.2 P ₁₀ = 4.1 Q ₁ = 6.1 Median = 10.1 Q ₃ = 17.8 P ₉₀ = 28.5 P ₉₉ = 42.8													
All monthly, daily, and diurnal averages have been calculated using vector methods																		Percent Operational Time: 99.6													
P - Power Failure N - Not Valid																															
Frequency Distribution																															
Speed Range (km/h)																															
Direction	0 to 5		5 to 11		11 to 19		19 to 28		28 to 38		> 38		Total																		
North	24		33		0		0		0		0		57																		
NorthEast	15		48		29		1		0		0		93																		
East	8		11		2		0		0		0		21																		
SouthEast	15		24		10		3		0		0		52																		
South	11		46		13		0		0		0		70																		
SouthWest	16		55		41		27		11		9		159																		
West	17		42		64		56		37		17		233																		
NorthWest	12		14		5		1		0		0		32																		
Total	118		273		164		88		48		26		717																		

Wind Rose for WS at Smoky Heights September 2009



Peace Airshed Zone Association
Summary of Hourly Averages - Wind Speed (Scalar)

Smoky Heights - Wind Speed (WS) - km/h
September 1, 2009 to October 1, 2009

Maximum Speed: 51 km/h on Sep 7 14:00																				Maximum Daily Speed Average: 29.8 km/h on Sep 26					Hours in Service: 720	
Minimum Speed: 2 km/h on Sep 27 23:00																				Minimum Daily Speed Average: 5.1 km/h on Sep 12					Hours of Data: 717	
Maximum Diurnal Speed Average: 19.4 km/h at hour 15																				Minimum Diurnal Speed Average: 9.6 km/h at hour 2					Hours of Missing Data: 3	
Monthly Average Speed: 13.87 km/h																				Percentiles: P ₁ = 2.7 P ₁₀ = 4.9 Q ₁ = 6.7 Median = 10.5 Q ₃ = 18.2 P ₉₀ = 28.9 P ₉₉ = 42.8					Percent Operational Time: 99.6	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	N	10	11	10	9	6	8	9	8	7	7	8	8	7	6	7	6	4	4	6	4	4	5	5	7.0	10.8
2-Sep	6	5	4	6	8	9	8	13	11	7	7	12	9	7	7	7	9	P	6	5	5	5	5	6	7.2	13.0
3-Sep	4	5	5	3	5	5	6	5	8	6	7	9	12	14	16	17	15	20	17	13	22	30	29	22	12.3	30.0
4-Sep	10	12	10	13	12	20	19	21	24	27	28	30	22	18	21	22	25	23	15	11	11	12	14	14	18.2	29.6
5-Sep	14	8	9	8	5	5	5	6	4	4	7	8	9	12	16	14	13	15	16	16	13	10	8	9	9.8	16.3
6-Sep	11	11	13	13	12	9	7	8	6	11	12	13	8	7	10	6	5	3	11	12	7	11	6	5	9.1	13.4
7-Sep	3	5	9	11	10	6	10	11	11	26	29	42	42	51	48	43	40	32	41	39	38	35	25	25	26.3	51.0
8-Sep	24	26	33	33	29	24	25	24	22	27	29	31	36	38	43	43	37	33	26	28	22	24	20	16	29.0	43.3
9-Sep	13	7	7	9	9	8	7	5	5	3	3	5	7	9	8	7	6	6	5	5	3	3	4	5	6.2	13.3
10-Sep	5	5	8	11	14	14	16	14	17	23	25	18	20	22	22	23	22	20	16	10	9	10	11	12	15.3	24.9
11-Sep	9	8	10	10	11	10	10	13	9	9	9	11	12	13	11	9	10	8	7	4	7	13	6	4	9.2	13.4
12-Sep	5	6	5	3	4	6	5	3	5	6	5	6	6	6	5	5	6	7	4	5	5	4	6	6	5.1	6.8
13-Sep	3	4	2	3	4	5	4	7	7	5	6	6	6	6	9	9	9	10	7	7	7	6	5	4	5.9	9.8
14-Sep	6	8	8	7	7	6	7	5	5	8	7	8	8	7	5	5	3	3	7	8	11	11	11	12	7.3	11.8
15-Sep	14	9	10	4	7	3	7	11	9	3	6	9	7	7	7	8	8	8	6	5	5	5	9	10	7.4	13.6
16-Sep	12	10	11	10	11	13	11	11	13	12	14	13	11	17	15	13	13	9	9	9	9	8	9	24	12.0	24.1
17-Sep	14	6	7	16	6	5	8	13	17	15	15	21	24	27	23	22	19	17	10	5	7	5	3	4	12.9	27.2
18-Sep	3	6	7	9	7	8	8	6	9	10	7	8	12	15	12	11	7	11	7	9	13	13	13	11	9.3	15.4
19-Sep	12	7	8	10	9	19	25	23	25	31	38	37	40	34	35	38	37	28	19	13	14	17	15	17	23.0	39.7
20-Sep	13	17	17	18	17	21	20	21	27	32	30	22	19	20	24	28	34	28	16	12	12	10	8	5	19.7	33.9
21-Sep	9	7	10	11	6	6	3	6	7	21	40	44	44	40	39	38	37	31	29	24	18	13	9	5	20.6	44.3
22-Sep	5	5	7	6	8	13	8	9	9	8	12	21	32	36	30	38	32	25	16	12	11	11	8	4	15.2	38.1
23-Sep	6	4	6	3	3	4	5	6	8	10	9	9	8	9	9	7	9	6	5	4	8	10	8	6	6.7	10.2
24-Sep	15	17	16	29	47	37	30	26	36	40	43	38	35	32	30	30	28	26	21	16	14	12	12	12	26.7	46.7
25-Sep	12	13	14	13	7	12	8	10	12	12	11	11	12	13	18	12	30	18	16	17	15	23	20	17	14.4	30.5
26-Sep	20	18	25	26	25	19	13	22	26	34	47	47	49	42	42	41	37	33	33	24	22	24	23	24	29.8	48.7
27-Sep	22	22	18	20	21	20	21	19	19	19	20	18	18	10	13	13	10	9	5	3	5	3	2	4	14.0	22.4
28-Sep	7	8	8	10	7	9	11	12	13	9	16	20	19	23	26	19	10	5	6	7	6	5	6	9	11.3	26.3
29-Sep	5	4	7	7	10	9	9	6	5	5	9	10	23	20	17	18	21	14	18	17	13	12	16	14	12.1	22.7
30-Sep	14	15	16	14	13	14	16	9	9	11	9	10	11	4	13	21	17	18	18	11	12	8	7	P	12.7	20.5
10.2 9.6 10.6 11.6 11.3 11.5 11.3 11.8 12.8 14.8 16.9 18.1 19.0 18.9 19.4 19.1 18.5 16.2 13.9 11.9 11.7 11.9 10.8 10.7																									Diurnal Average	
23.9 26.0 32.9 33.3 46.7 36.8 29.6 26.1 36.3 40.0 46.8 47.2 48.7 51.0 48.1 43.3 39.7 33.4 40.9 38.7 37.8 35.0 29.4 24.6																									Diurnal Maximum	
P - Power Failure N - Not Valid																										
All monthly, daily, and diurnal averages have been calculated using scalar methods																										

Peace Airshed Zone Association
Summary of Hourly Standard Deviations

Smoky Heights - Wind Direction (WD) - deg
September 1, 2009 to October 1, 2009

Maximum Value: 94.2 deg on Sep 12 08:00																								Hours in Service: 720	
Minimum Value: 2.1 deg on Sep 26 22:00																								Hours of Data: 717	
																								Hours of Missing Data: 3	
Percentiles: P ₁ = 3.1 P ₁₀ = 4.9 Q ₁ = 6.6 Median = 11.7 Q ₃ = 22.5 P ₉₀ = 42.8 P ₉₉ = 82.3																								Hours of Calibration: 0	
																								Percent Operational Time: 99.6	
Day	Hourly Period Ending At (MST)																								Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Sep	N	6	6	7	8	11	8	7	13	28	34	26	30	34	48	49	73	79	37	34	63	26	20	44	78.7
2-Sep	12	70	18	21	22	31	56	7	7	46	26	15	21	40	72	67	25	P	18	8	12	11	16	11	72.3
3-Sep	13	29	27	28	14	8	64	31	9	22	22	18	15	12	11	9	10	6	5	9	63	30	67	61	67.2
4-Sep	14	19	14	10	5	5	3	4	4	3	6	3	5	6	7	13	9	7	5	4	4	5	5	3	19.4
5-Sep	6	29	23	27	18	17	18	19	53	43	23	20	28	16	11	9	7	4	4	5	5	8	12	10	53.1
6-Sep	9	8	8	6	10	9	13	14	27	24	22	13	38	30	10	28	53	86	15	20	23	42	38	65	85.5
7-Sep	66	58	9	3	6	14	7	6	16	5	6	6	6	5	6	7	6	7	5	4	4	4	4	5	66.2
8-Sep	5	4	3	3	3	4	3	3	3	4	4	6	5	6	5	7	4	5	8	6	4	7	5	5	7.7
9-Sep	12	40	40	14	13	41	13	21	39	56	42	17	12	10	12	10	11	11	16	17	57	13	32	33	57.4
10-Sep	45	14	15	10	4	3	5	4	6	6	7	12	13	13	12	10	10	9	5	18	8	8	17	8	44.9
11-Sep	31	10	9	9	8	8	4	8	18	19	18	19	17	13	16	23	20	13	5	21	18	7	23	29	31.0
12-Sep	10	11	9	93	38	16	20	94	26	19	48	33	47	64	74	52	33	14	18	25	18	50	57	16	94.2
13-Sep	75	15	65	38	22	10	20	5	19	15	21	18	21	45	23	18	12	7	8	8	11	23	31	38	75.5
14-Sep	17	5	6	6	10	17	9	21	40	17	23	38	30	46	40	48	40	68	18	15	3	5	7	4	68.5
15-Sep	7	8	14	65	27	84	19	7	10	78	48	23	47	56	56	70	18	13	9	8	8	12	8	5	84.4
16-Sep	8	7	8	7	6	6	7	9	6	9	8	11	30	13	13	20	8	10	9	9	19	25	83	6	83.2
17-Sep	17	46	32	6	39	21	29	7	6	5	8	9	6	11	14	11	13	9	6	19	8	17	54	24	53.8
18-Sep	89	15	29	19	27	8	23	47	13	21	21	23	32	20	17	27	26	22	21	24	5	3	5	7	89.0
19-Sep	6	11	14	22	48	9	4	9	7	5	5	5	5	6	7	8	9	7	9	12	13	4	13	5	48.4
20-Sep	6	11	7	5	6	3	5	3	9	7	8	13	12	22	15	8	7	5	6	10	7	11	26	35	35.4
21-Sep	13	12	22	8	17	11	76	20	25	16	8	5	5	7	7	6	7	5	6	6	7	10	12	26	75.9
22-Sep	15	12	21	16	31	33	18	15	11	14	9	28	9	7	10	8	7	6	3	6	17	28	47	33	46.8
23-Sep	12	80	44	91	34	42	63	35	12	10	12	18	20	17	22	20	14	16	26	55	35	28	22	32	90.5
24-Sep	18	5	18	5	7	3	4	6	6	6	7	8	9	11	9	11	11	13	9	5	10	6	6	14	18.5
25-Sep	7	11	15	10	31	6	7	6	18	10	12	13	11	19	9	12	17	11	12	7	9	9	7	6	30.6
26-Sep	3	5	5	4	3	10	13	5	5	5	6	5	7	6	8	7	9	4	9	4	3	2	4	3	13.1
27-Sep	5	3	4	4	10	6	4	2	6	10	12	10	14	25	30	19	31	9	13	79	10	43	72	17	78.7
28-Sep	10	12	24	12	25	23	18	9	5	15	21	12	11	11	12	8	17	33	31	9	8	16	25	43	42.8
29-Sep	26	69	56	39	14	12	11	33	44	46	32	45	12	6	20	14	23	7	6	9	11	13	6	11	69.0
30-Sep	5	5	5	5	4	6	5	11	31	20	22	45	32	45	59	11	11	6	5	13	6	6	6	P	58.9
89.0 79.5 65.4 93.0 48.4 84.4 75.9 94.2 53.1 77.7 48.2 45.3 46.9 64.2 74.4 69.9 73.4 85.5 36.5 78.7 62.9 49.9 83.2 64.7																									
P - Power Failure N - Not Valid																									

PASZA

Beaverlodge Station

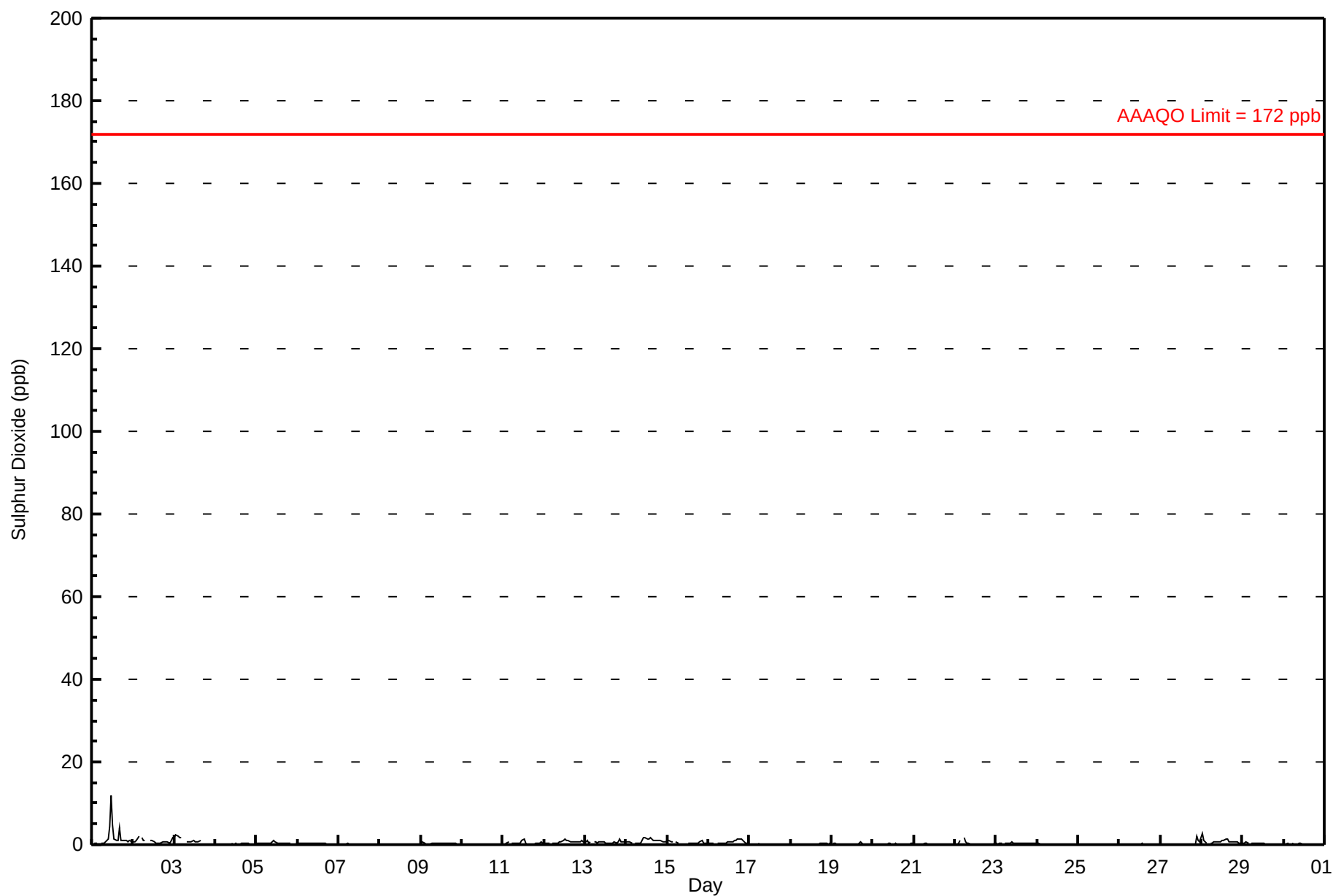
Monthly Summary Tables, Graphs and Roses

Peace Airshed Zone Association
Summary of Hourly Averages

Beaverlodge - Sulphur Dioxide (SO₂) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0 Maximum Value: 11.8 ppb on Sep 1 12:00 Maximum Daily Average: 1.7 ppb on Sep 1																				Hours in Service: 720 Hours of Data: 633						
Minimum Value: 0 ppb on Sep 26 07:00 Minimum Daily Average: 0.1 ppb on Sep 26 Maximum Diurnal Average: 0.9 ppb at hour 12 Minimum Diurnal Average: 0.3 ppb at hour 9 Monthly Average: 0.38 ppb Percentiles: P ₁ = 0.0 P ₁₀ = 0.1 Q ₁ = 0.1 Median = 0.2 Q ₃ = 0.5 P ₉₀ = 0.9 P ₉₉ = 2.0																				Hours of Missing Data: 87 Hours of Calibration: 40 Percent Operational Time: 93.5						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	P	0	0	0	A	0	0	0	1	1	4	12	5	1	1	1	4	1	1	1	1	1	1	1	1.7	11.8
2-Sep	1	1	1	2	A	2	1	1	P	P	1	1	1	0	0	0	0	1	1	1	1	0	1	2	0.8	1.9
3-Sep	2	2	2	2	2	A	A	1	1	1	1	1	1	1	1	1	P	P	P	P	P	P	P	P	--	2.3
4-Sep	P	P	P	P	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0	--	0.3
5-Sep	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	A	A	0	0.3	0.9
6-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0.2	0.4
7-Sep	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	0.2
8-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
9-Sep	0	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
10-Sep	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
11-Sep	0	0	0	1	A	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0.4	1.4
12-Sep	0	0	0	0	A	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.3
13-Sep	1	1	0	1	A	1	1	0	1	1	1	1	0	0	0	0	0	1	0	1	1	1	1	1	0.6	1.2
14-Sep	1	1	1	0	A	0	0	0	0	1	2	2	1	1	2	1	1	1	1	1	1	1	1	1	0.9	1.9
15-Sep	1	1	1	1	A	1	0	C	C	C	C	C	0	0	0	0	0	0	0	1	1	0	0	0	0.5	1.1
16-Sep	0	0	0	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0.6	1.4
17-Sep	0	0	0	0	A	0	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	0.2
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0	--	0.4
19-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.1	0.6
20-Sep	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
21-Sep	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
22-Sep	0	0	0	1	A	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.9
23-Sep	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
24-Sep	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-Sep	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
26-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
27-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0.2	2.1
28-Sep	3	1	1	0	A	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0.8	2.7
29-Sep	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
30-Sep	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	P	0	0.1	0.3
0.4 0.4 0.4 0.4 0.6 0.3 0.3 0.3 0.3 0.3 0.6 0.9 0.6 0.4 0.4 0.3 0.4 0.3 0.3 0.3 0.3 0.3 0.4 0.3 0.3																									Diurnal Average	
2.7 2.3 2.0 1.9 1.6 1.9 1.1 0.9 0.7 1.3 4.5 11.8 4.7 1.4 1.7 1.3 4.2 1.2 1.3 1.4 1.2 2.1 1.0 1.7																									Diurnal Maximum	
C - Calibration P - Power Failure A - Automated Daily Zero Span																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 57 ppb																										

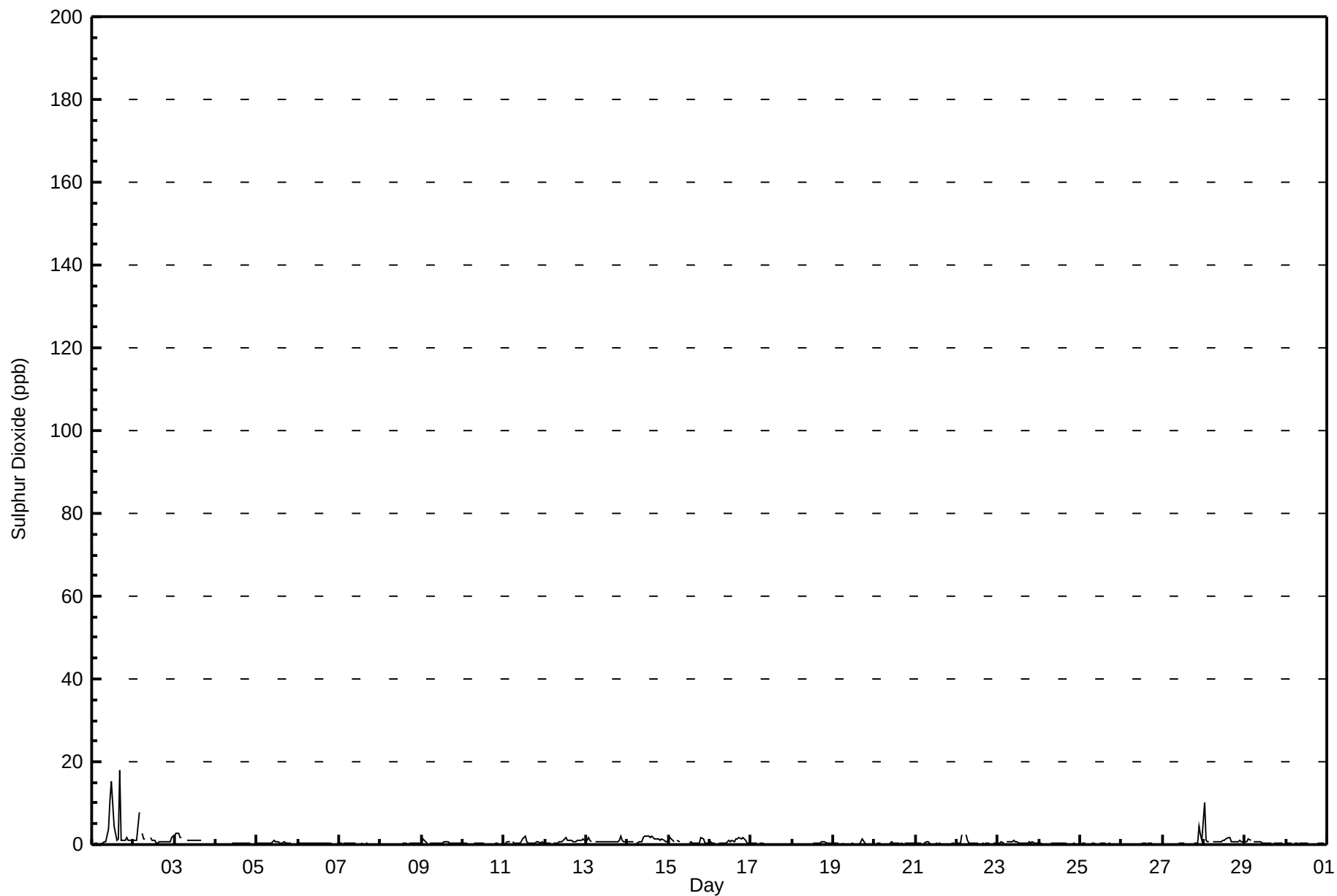
Hourly Averages for SO₂ at Beaverlodge September 2009



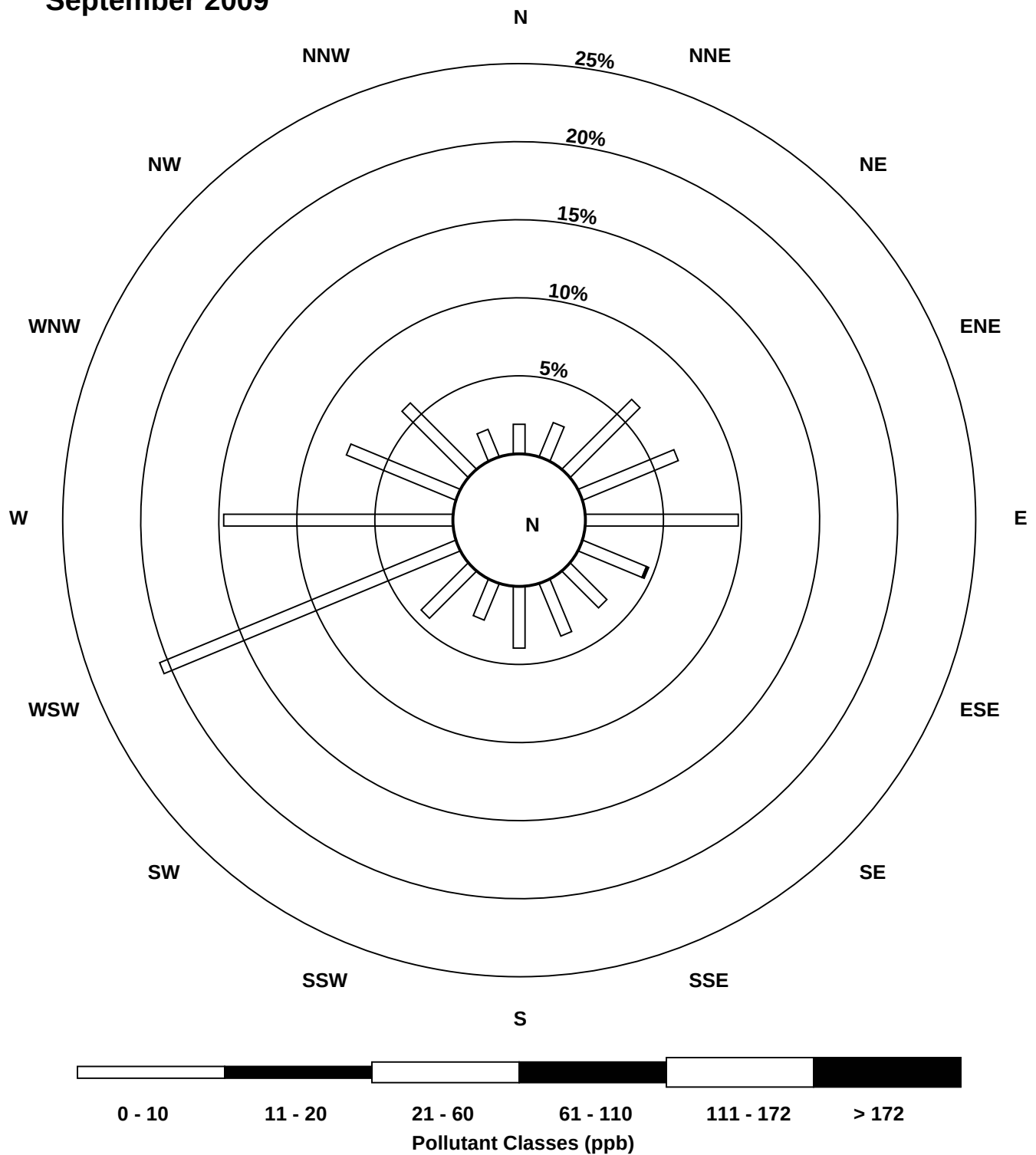
Beaverlodge - Sulphur Dioxide (SO₂) - ppb
September 1, 2009 to October 1, 2009

Prepared by FOCUS

Hourly Maximums for SO₂ at Beaverlodge September 2009



Pollutant Rose for SO₂ at Beaverlodge **September 2009**

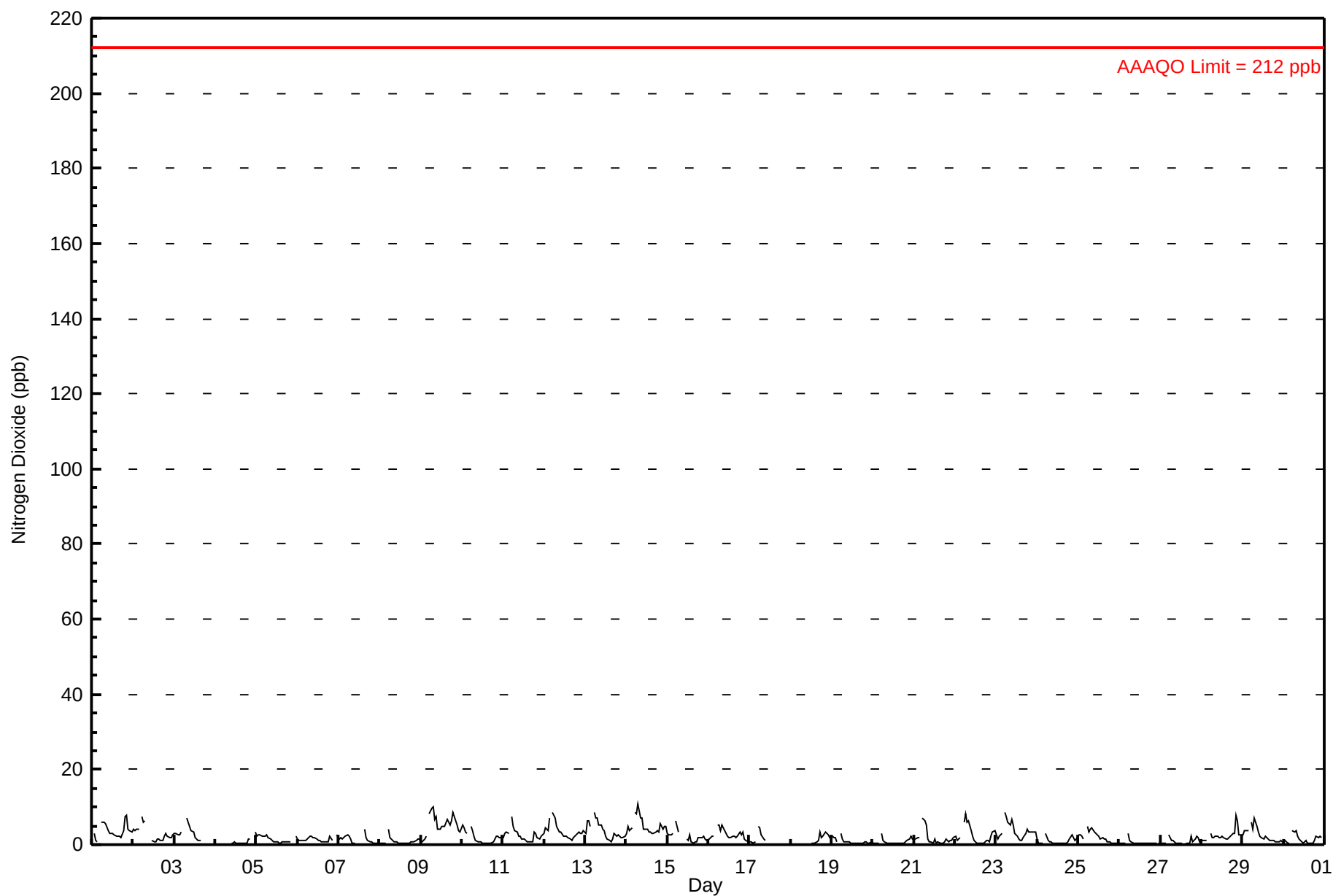


Peace Airshed Zone Association
Summary of Hourly Averages

Beaverlodge - Nitrogen Dioxide (NO₂) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0 Maximum Value: 10.9 ppb on Sep 14 08:00 Maximum Daily Average: 5.3 ppb on Sep 9																				Hours in Service: 720 Hours of Data: 631						
Minimum Value: 0 ppb on Sep 27 15:00 Minimum Daily Average: 0.5 ppb on Sep 26 Maximum Diurnal Average: 5.2 ppb at hour 6 Minimum Diurnal Average: 1.1 ppb at hour 15 Monthly Average: 2.22 ppb Percentiles: P ₁ = 0.2 P ₁₀ = 0.3 Q ₁ = 0.7 Median = 1.7 Q ₃ = 3.1 P ₉₀ = 5.0 P ₉₉ = 8.5																				Hours of Missing Data: 89 Hours of Calibration: 41 Percent Operational Time: 93.3						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	P	3	1	1	A	6	6	6	5	4	3	3	3	3	2	2	2	2	4	7	8	4	4	3	3.7	7.8
2-Sep	4	4	4	4	A	7	6	6	P	P	P	1	1	1	1	1	1	1	2	3	2	2	2	3	2.9	7.4
3-Sep	3	3	3	3	3	A	A	7	6	5	4	3	2	1	1	1	P	P	P	P	P	P	P	P	--	7.1
4-Sep	P	P	P	P	P	P	P	P	P	0	0	1	1	0	0	0	0	0	1	2	1	A	A	3	--	3.2
5-Sep	2	2	2	2	2	2	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	A	A	2	1.4	2.8
6-Sep	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	2	1	A	A	3	1.4	2.8
7-Sep	2	2	2	2	2	3	2	2	0	0	C	C	C	C	C	4	2	1	1	1	1	0	0	0	1.4	4.0
8-Sep	0	0	0	0	A	4	2	2	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0.9	4.3
9-Sep	1	1	1	2	A	8	10	10	7	8	4	4	5	5	5	7	6	5	6	9	6	5	4	3	5.3	10.0
10-Sep	5	5	3	3	A	5	4	2	1	1	1	1	1	0	0	0	1	1	1	1	2	2	2	2	1.9	5.1
11-Sep	2	3	3	3	A	7	5	4	3	2	2	2	1	1	1	1	1	1	3	3	2	2	2	2	2.5	7.3
12-Sep	3	4	4	7	A	9	7	5	4	3	3	2	2	2	2	2	1	2	2	3	3	3	3	4	3.5	8.7
13-Sep	3	6	6	5	A	9	7	7	5	5	4	4	2	2	1	1	1	3	2	3	2	2	2	2	3.7	8.6
14-Sep	3	5	4	4	A	9	8	11	7	7	4	4	4	3	3	3	3	3	4	3	6	4	5	5	4.9	10.9
15-Sep	3	3	2	3	A	6	3	C	C	C	C	1	1	3	1	1	1	1	2	2	2	2	1	1	2.1	6.2
16-Sep	2	2	2	2	A	5	5	4	5	4	3	2	2	2	2	2	2	2	3	2	3	2	1	1	2.7	5.3
17-Sep	1	1	1	1	A	5	4	3	1	1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	5.0
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	0	0	1	1	1	3	2	2	3	3	2	2	--	3.5
19-Sep	2	2	2	1	A	3	2	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0.9	3.1
20-Sep	0	0	0	0	A	3	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	0.7	2.9
21-Sep	1	2	2	2	A	7	6	5	2	1	1	0	2	0	1	0	0	0	1	1	1	1	1	2	1.7	7.2
22-Sep	2	1	1	2	A	6	8	6	6	4	2	1	1	0	0	0	0	0	1	1	1	2	3	4	2.4	8.0
23-Sep	3	2	2	3	A	8	7	6	5	7	5	3	2	1	1	1	2	3	4	3	3	4	3	3	3.6	8.4
24-Sep	1	0	0	0	A	3	1	1	1	0	0	0	0	0	0	0	0	0	1	1	3	2	1	2	0.9	2.8
25-Sep	3	3	2	2	A	5	4	4	4	3	3	3	2	2	2	1	1	1	1	1	0	0	0	0	2.1	5.0
26-Sep	0	0	0	0	A	3	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.5	2.9
27-Sep	0	0	0	0	A	3	1	1	1	0	0	0	0	0	0	0	0	1	2	1	1	2	2	1	0.8	2.5
28-Sep	1	1	1	1	A	3	2	2	2	2	2	2	2	2	1	1	2	2	3	3	8	6	3	3	2.4	7.9
29-Sep	3	4	4	4	A	6	4	7	5	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	2.5	7.0
30-Sep	1	1	1	0	A	4	3	4	2	1	1	0	1	1	0	0	0	0	1	2	2	2	2	P	1.4	3.7
1.9 2.1 2.0 2.1 2.1 5.2 4.3 4.1 3.1 2.5 2.0 1.6 1.4 1.3 1.1 1.2 1.2 1.3 1.9 2.2 2.4 2.2 2.0 2.1																									Diurnal Average	
5.1 6.5 6.4 7.0 3.3 8.7 9.7 10.9 7.1 7.5 5.2 4.2 4.8 4.7 4.9 6.8 6.1 5.1 6.5 8.5 7.9 6.4 4.9 4.8																									Diurnal Maximum	
C - Calibration P - Power Failure A - Automated Daily Zero Span																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 212 ppb 24-hr 106 ppb																										

Hourly Averages for NO₂ at Beaverlodge September 2009

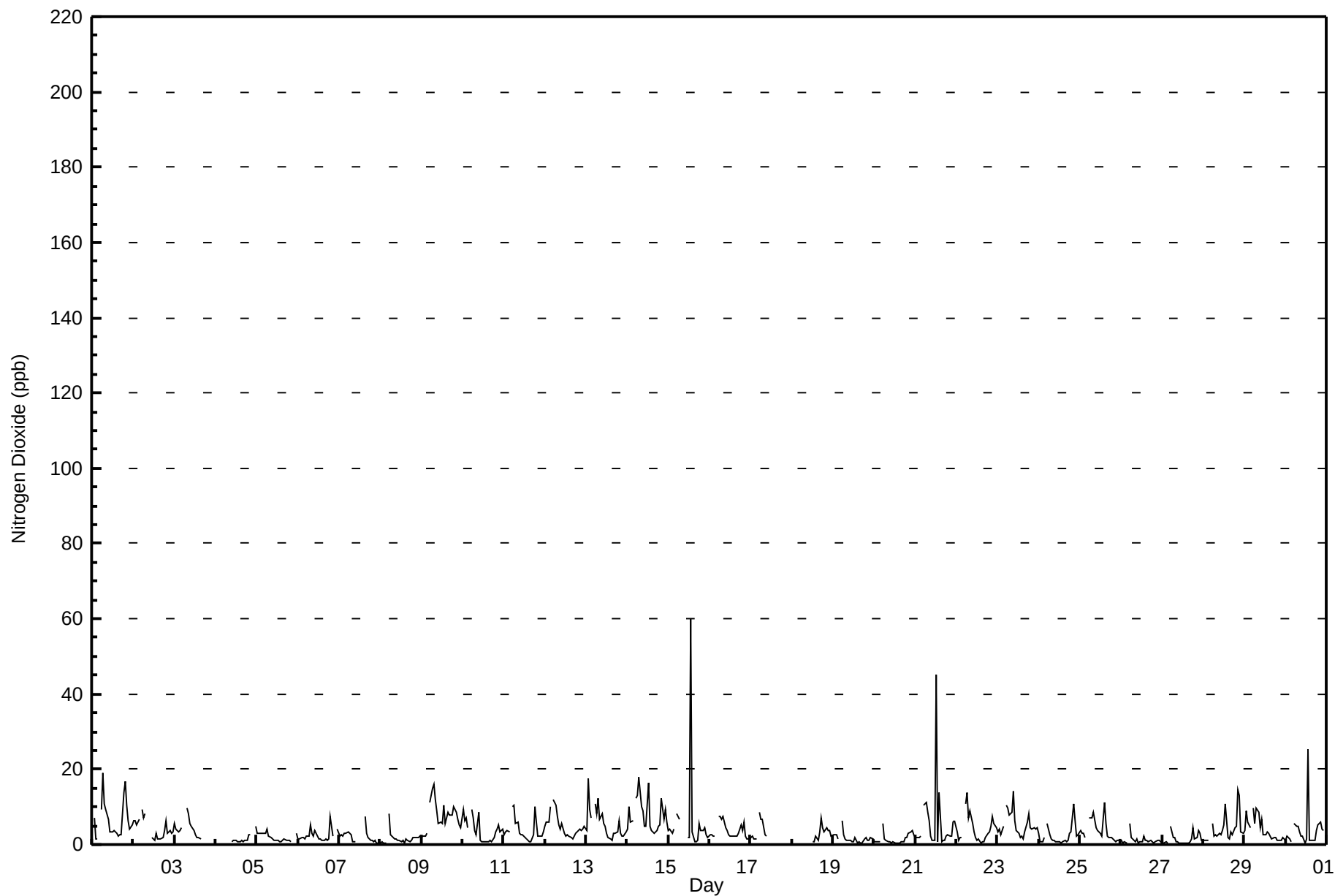


Peace Airshed Zone Association
Summary of Hourly Maximums

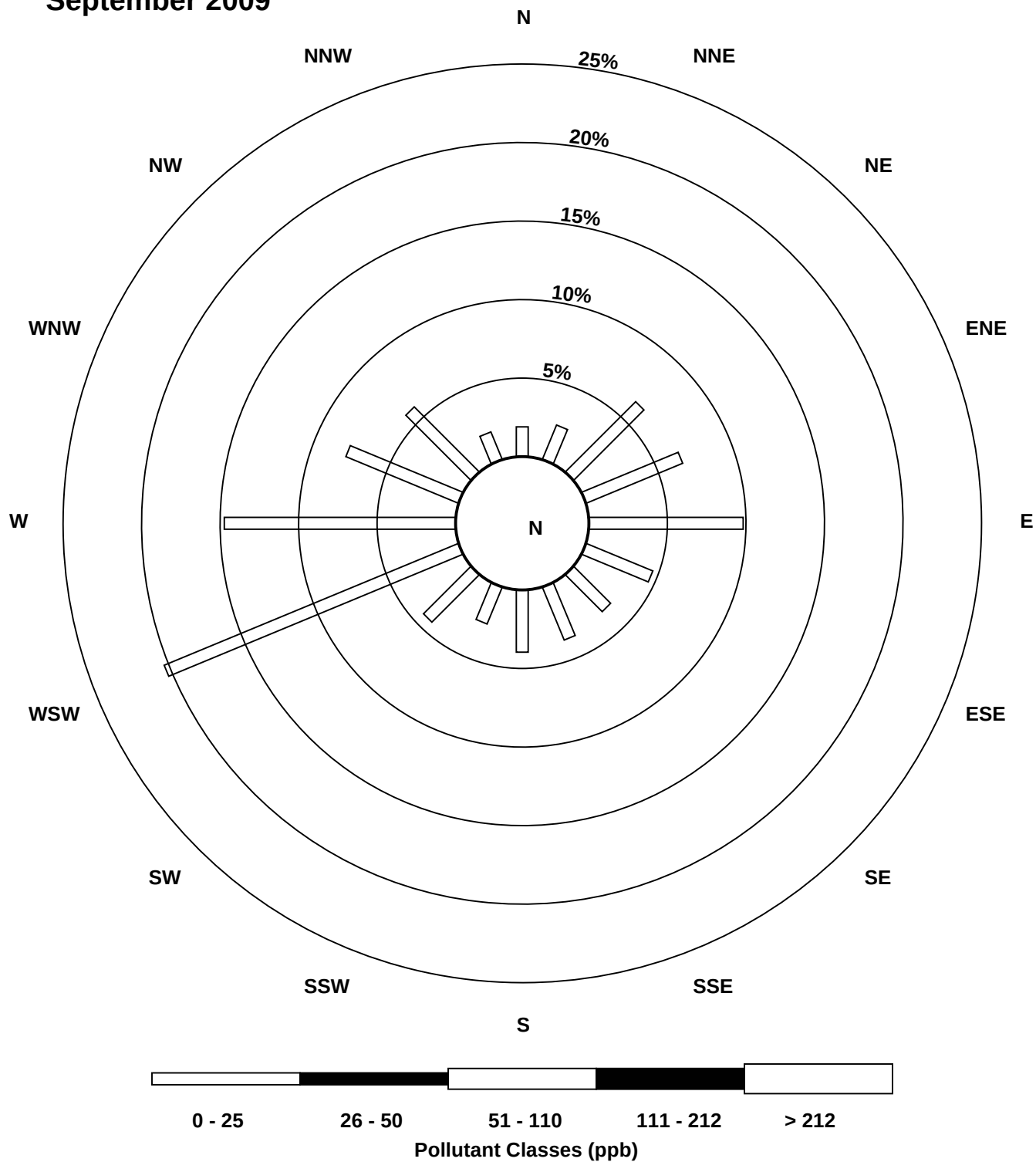
Beaverlodge - Nitrogen Dioxide (NO₂) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 60.1 ppb on Sep 15 14:00																			Maximum Daily Average: 7.8 ppb on Sep 14						Hours in Service: 720	
Minimum Value: 0 ppb on Sep 27 15:00																			Minimum Daily Average: 1.2 ppb on Sep 26						Hours of Data: 631	
Maximum Diurnal Average: 7.9 ppb at hour 6																			Minimum Diurnal Average: 1.9 ppb at hour 17						Hours of Missing Data: 89	
Monthly Average: 3.83 ppb																			Percentiles: P ₁ = 0.5 P ₁₀ = 0.7 Q ₁ = 1.2 Median = 2.6 Q ₃ = 5.0 P ₉₀ = 8.5 P ₉₉ = 16.9						Hours of Calibration: 41	
																									Percent Operational Time: 93.3	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	P	7	2	1	A	9	19	11	9	7	3	3	3	4	3	2	3	3	14	17	11	6	4	5	6.6	19.1
2-Sep	6	6	5	7	A	9	7	8	P	P	P	2	1	3	2	2	2	2	4	6	3	4	3	4	4.2	9.3
3-Sep	6	4	3	4	4	A	A	10	8	6	5	4	3	2	2	1	P	P	P	P	P	P	P	P	--	9.8
4-Sep	P	P	P	P	P	P	P	P	P	1	1	1	1	1	1	1	1	1	1	3	3	A	A	5	--	4.9
5-Sep	3	3	3	3	3	3	4	2	2	2	1	1	1	1	1	1	2	1	1	1	1	A	A	3	1.9	4.1
6-Sep	2	1	2	2	1	2	2	5	3	2	4	2	1	1	1	1	1	1	2	7	2	A	A	4	2.3	7.4
7-Sep	2	3	2	3	3	3	3	3	1	1	C	C	C	C	C	8	3	2	1	1	1	1	0	0	2.1	7.5
8-Sep	0	1	0	0	A	8	3	2	2	2	1	1	1	1	1	2	1	1	1	2	2	2	2	2	1.6	8.1
9-Sep	2	2	2	3	A	11	15	16	12	9	6	6	6	10	6	9	8	8	8	10	9	7	5	5	7.5	15.9
10-Sep	9	6	7	4	A	9	7	4	3	8	1	1	1	1	1	1	1	1	2	3	4	5	4	4	3.8	9.4
11-Sep	2	3	4	4	A	10	10	6	6	3	2	2	2	2	1	1	1	2	10	6	2	2	2	3	3.8	10.3
12-Sep	5	6	6	10	A	12	10	8	5	4	6	3	2	3	2	2	2	2	3	3	4	4	4	5	4.8	11.8
13-Sep	4	17	9	7	A	11	8	12	7	8	6	5	3	2	2	1	3	3	4	6	3	2	2	3	5.6	17.4
14-Sep	4	10	6	6	A	12	13	18	10	9	5	5	16	5	4	3	3	4	5	5	12	7	9	6	7.8	18.1
15-Sep	4	4	3	4	A	8	7	C	C	C	C	2	2	60	3	1	1	1	5	4	4	4	3	2	6.4	60.1
16-Sep	3	3	2	2	A	7	7	7	7	4	4	3	2	2	2	2	2	3	5	4	6	2	2	1	3.6	7.5
17-Sep	2	2	1	1	A	8	7	7	3	2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	8.4
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	1	1	2	1	3	7	4	3	4	4	4	2	--	7.0
19-Sep	3	3	3	2	A	6	3	1	1	1	1	1	1	2	0	1	1	0	1	2	1	1	2	1	1.7	6.4
20-Sep	1	1	1	1	A	6	2	1	1	1	0	1	0	0	0	0	1	1	2	2	3	3	4	3	1.4	5.7
21-Sep	2	2	2	2	A	10	11	8	6	2	1	1	45	1	14	1	1	1	2	3	2	2	6	6	5.7	45.1
22-Sep	3	1	2	2	A	11	14	7	9	6	3	2	1	1	0	1	1	2	3	3	5	7	5	5	4.1	13.9
23-Sep	3	4	3	5	A	10	10	8	9	14	6	4	3	2	2	2	3	6	8	5	4	4	4	4	5.4	14.1
24-Sep	3	1	1	2	A	6	2	1	1	1	1	1	1	1	1	1	1	1	3	3	11	6	2	3	2.3	10.8
25-Sep	4	3	3	2	A	7	7	7	8	5	4	3	3	2	11	6	2	2	2	1	1	1	1	1	3.8	11.2
26-Sep	1	0	1	0	A	6	2	1	1	1	1	1	1	2	1	1	1	1	1	0	1	1	1	1	1.2	5.7
27-Sep	0	0	1	0	A	5	2	2	1	1	0	0	0	0	0	0	1	1	5	2	2	4	3	1	1.4	4.9
28-Sep	1	1	1	1	A	6	2	2	2	3	3	4	5	11	2	2	3	3	4	5	15	13	3	3	4.2	14.7
29-Sep	4	9	6	5	A	10	5	10	9	4	7	2	3	3	3	2	2	2	2	1	1	1	2	1	4.1	9.6
30-Sep	1	2	1	1	A	6	5	5	3	2	2	0	2	25	1	1	1	1	4	5	6	4	4	P	3.8	25.4
																									Diurnal Average	
																									Diurnal Maximum	
C - Calibration																										
P - Power Failure																										
A - Automated Daily Zero Span																										

Hourly Maximums for NO₂ at Beaverlodge September 2009



Pollutant Rose for NO₂ at Beaverlodge **September 2009**

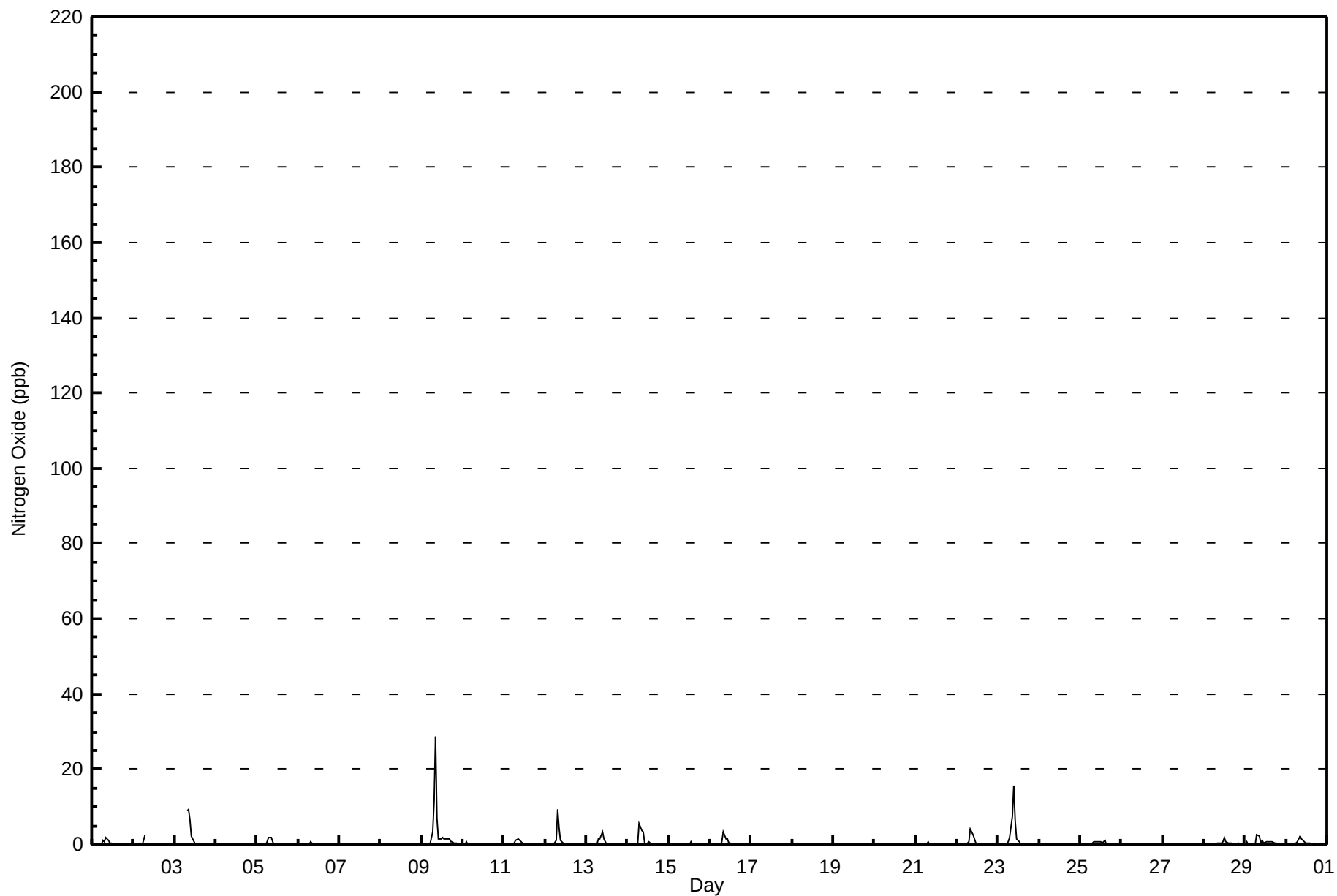


**Peace Airshed Zone Association
Summary of Hourly Averages**

**Beaverlodge - Nitrogen Oxide (NO) - ppb
September 1, 2009 to October 1, 2009**

Maximum Value: 28.7 ppb on Sep 9 09:00																				Maximum Daily Average: 2.8 ppb on Sep 9				Hours in Service: 720		
Minimum Value: 0 ppb on Sep 1 02:00																				Minimum Daily Average: 0.0 ppb on Sep 7				Hours of Data: 631		
Maximum Diurnal Average: 2.9 ppb at hour 9																				Minimum Diurnal Average: 0.0 ppb at hour 5				Hours of Missing Data: 89		
Monthly Average: 0.38 ppb																				Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.0 Q ₃ = 0.1 P ₉₀ = 0.8 P ₉₉ = 8.9				Hours of Calibration: 41		
																								Percent Operational Time: 93.3		
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	P	0	0	0	A	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.8
2-Sep	0	0	0	0	A	0	1	3	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	2.7
3-Sep	0	0	0	0	0	A	A	9	9	7	2	1	0	0	0	0	P	P	P	P	P	P	P	P	--	9.5
4-Sep	P	P	P	P	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0	--	0.0
5-Sep	0	0	0	0	0	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0.2	1.9
6-Sep	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0.1	0.6
7-Sep	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0.0	0.0
8-Sep	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
9-Sep	0	0	0	0	A	0	3	12	29	7	1	1	2	1	2	1	1	1	1	1	0	0	0	0	2.8	28.7
10-Sep	0	0	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.7
11-Sep	0	0	0	0	A	0	0	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.5
12-Sep	0	0	0	0	A	0	1	9	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	9.3
13-Sep	0	0	0	0	A	0	0	1	2	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	3.4
14-Sep	0	0	0	0	A	0	0	6	4	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.6	5.6
15-Sep	0	0	0	0	A	0	0	C	C	C	C	0	0	1	0	0	0	0	0	0	0	0	0	0	0.1	0.9
16-Sep	0	0	0	0	A	0	0	1	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	3.2
17-Sep	0	0	0	0	A	0	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	0.1
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0	--	0.1
19-Sep	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
20-Sep	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
21-Sep	0	0	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.6
22-Sep	0	0	0	0	A	0	0	1	4	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	4.2
23-Sep	0	0	0	0	A	0	1	2	7	16	6	2	1	0	0	0	0	0	0	0	0	0	0	0	1.5	15.6
24-Sep	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
25-Sep	0	0	0	0	A	0	0	0	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0.2	1.1
26-Sep	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
27-Sep	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	0.2
28-Sep	0	0	0	0	A	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0.2	1.7
29-Sep	0	1	0	0	A	0	0	3	2	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.5	2.5
30-Sep	0	0	0	0	A	0	1	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	P	0.4	2.3
0.0 0.0 0.0 0.0 0.0 0.0 0.3 1.9 2.9 1.8 0.8 0.3 0.3 0.2 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0																									Diurnal Average	
0.0 0.8 0.7 0.4 0.0 0.1 3.3 11.6 28.7 15.6 6.2 1.5 2.0 1.5 1.6 1.5 1.3 0.6 0.7 0.5 0.4 0.1 0.1 0.1																									Diurnal Maximum	
C - Calibration P - Power Failure A - Automated Daily Zero Span																										

Hourly Averages for NO at Beaverlodge September 2009



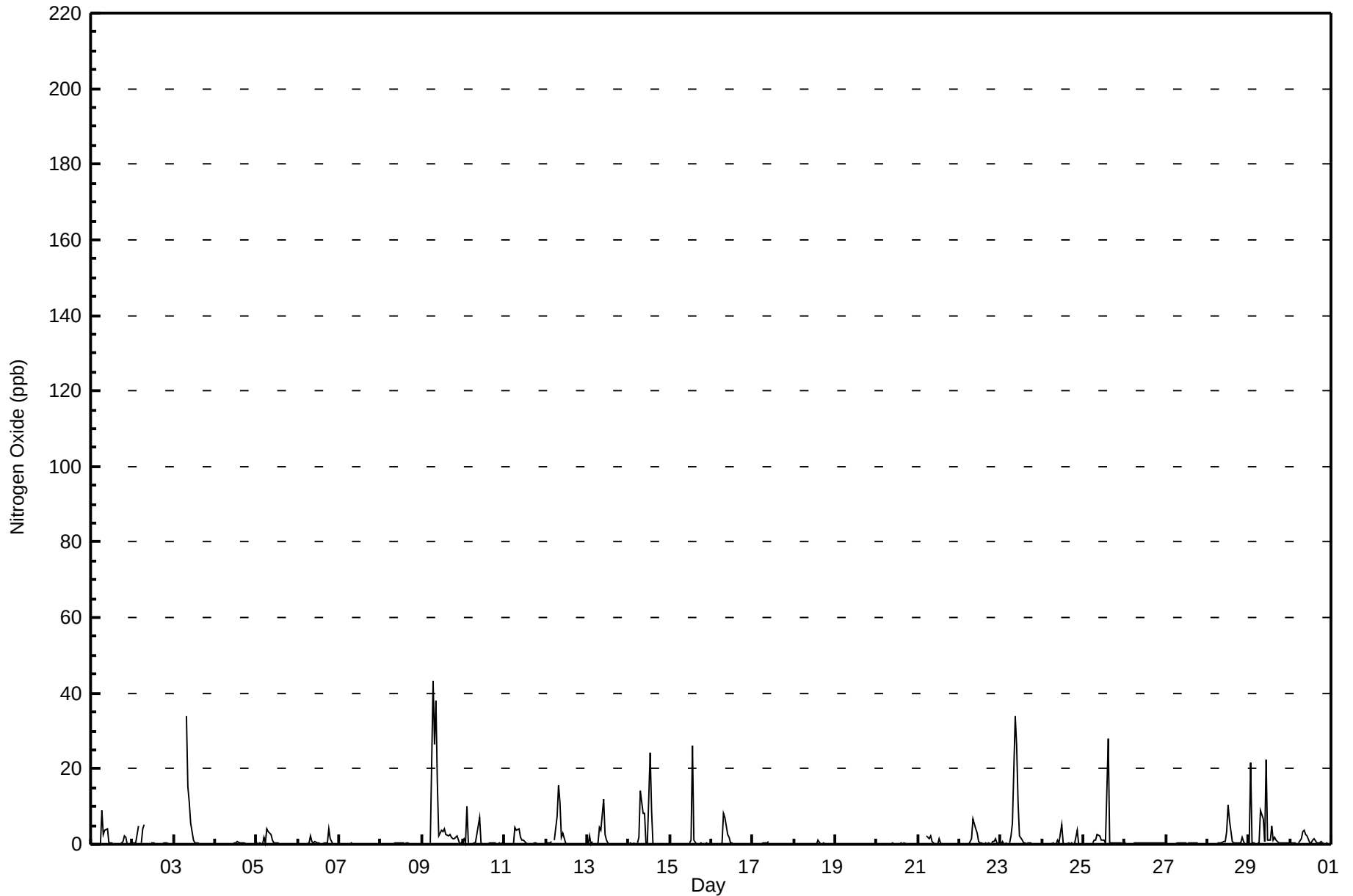
Peace Airshed Zone Association
Summary of Hourly Maximums

Beaverlodge - Nitrogen Oxide (NO) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 43.4 ppb on Sep 9 07:00																			Maximum Daily Average: 6.7 ppb on Sep 9										Hours in Service: 720	
Minimum Value: 0 ppb on Sep 1 02:00																			Minimum Daily Average: 0.0 ppb on Sep 7										Hours of Data: 631	
Maximum Diurnal Average: 5.9 ppb at hour 9																			Minimum Diurnal Average: 0.1 ppb at hour 23										Hours of Missing Data: 89	
Monthly Average: 1.33 ppb																			Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.2 Q ₃ = 0.5 P ₉₀ = 2.5 P ₉₉ = 25.5										Hours of Calibration: 41	
																													Percent Operational Time: 93.3	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24						
1-Sep	P	0	0	0	A	0	9	3	4	4	1	0	0	0	0	0	0	0	1	2	2	0	0	0	1.2	8.8				
2-Sep	0	0	0	5	A	0	4	5	P	P	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	5.2				
3-Sep	0	0	0	0	0	A	A	34	15	11	6	1	0	0	0	0	P	P	P	P	P	P	P	P	--	33.9				
4-Sep	P	P	P	P	P	P	P	P	P	0	0	0	0	1	0	0	0	0	0	0	0	A	A	1	--	0.8				
5-Sep	0	0	0	0	2	0	4	3	3	1	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0.7	4.1				
6-Sep	0	0	0	0	0	0	0	2	1	0	1	1	1	0	0	0	0	0	4	1	0	A	A	0	0.5	4.2				
7-Sep	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0.0	0.2				
8-Sep	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				
9-Sep	0	0	0	0	A	0	43	26	38	16	2	4	3	4	3	2	3	2	1	1	2	1	0	0	6.7	43.4				
10-Sep	1	1	10	0	A	0	0	0	3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1.1	10.0				
11-Sep	0	0	0	0	A	0	5	4	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.8	4.6				
12-Sep	0	0	1	1	A	1	7	16	11	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1.9	15.7				
13-Sep	0	2	0	1	A	0	0	4	4	12	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1.2	12.0				
14-Sep	0	0	0	0	A	0	2	14	8	8	0	0	24	9	0	0	0	0	0	0	0	0	0	0	3.0	24.3				
15-Sep	0	0	0	0	A	0	0	C	C	C	C	0	1	26	1	0	0	0	0	0	0	0	0	0	1.5	26.0				
16-Sep	0	0	0	0	A	0	0	8	7	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.9	8.1				
17-Sep	0	0	0	0	A	0	0	0	0	1	P	P	P	P	P	P	P	P	P	P	P	P	P	0	--	0.6				
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	0	0	1	0	0	0	0	0	0	0	0	0	--	1.0				
19-Sep	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				
20-Sep	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				
21-Sep	0	0	0	0	A	2	2	2	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0.4	2.1				
22-Sep	0	0	0	0	A	0	1	1	7	4	3	1	0	0	0	0	0	0	0	1	1	1	0	0	1.0	6.9				
23-Sep	0	1	0	0	A	1	2	6	34	26	11	2	1	0	0	0	0	0	0	0	0	0	0	0	3.7	34.0				
24-Sep	0	0	0	0	A	0	0	0	0	1	0	5	0	0	0	0	0	0	0	0	4	0	0	0	0.6	5.3				
25-Sep	0	0	0	0	A	0	1	1	2	2	1	1	1	0	28	0	0	0	0	0	0	0	0	0	1.8	27.8				
26-Sep	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				
27-Sep	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				
28-Sep	0	0	0	0	A	0	0	0	0	1	1	3	10	7	1	0	0	0	0	0	2	1	0	0	1.2	10.4				
29-Sep	0	22	0	0	A	0	0	9	7	1	22	1	1	5	1	2	1	0	0	0	0	0	0	0	3.3	22.5				
30-Sep	0	0	0	0	A	0	1	3	4	3	2	1	0	1	1	0	0	0	1	0	0	0	0	P	1.0	3.6				
Diurnal Average																														
Diurnal Maximum																														
C - Calibration P - Power Failure A - Automated Daily Zero Span																														

Hourly Maximums for NO at Beaverlodge

September 2009

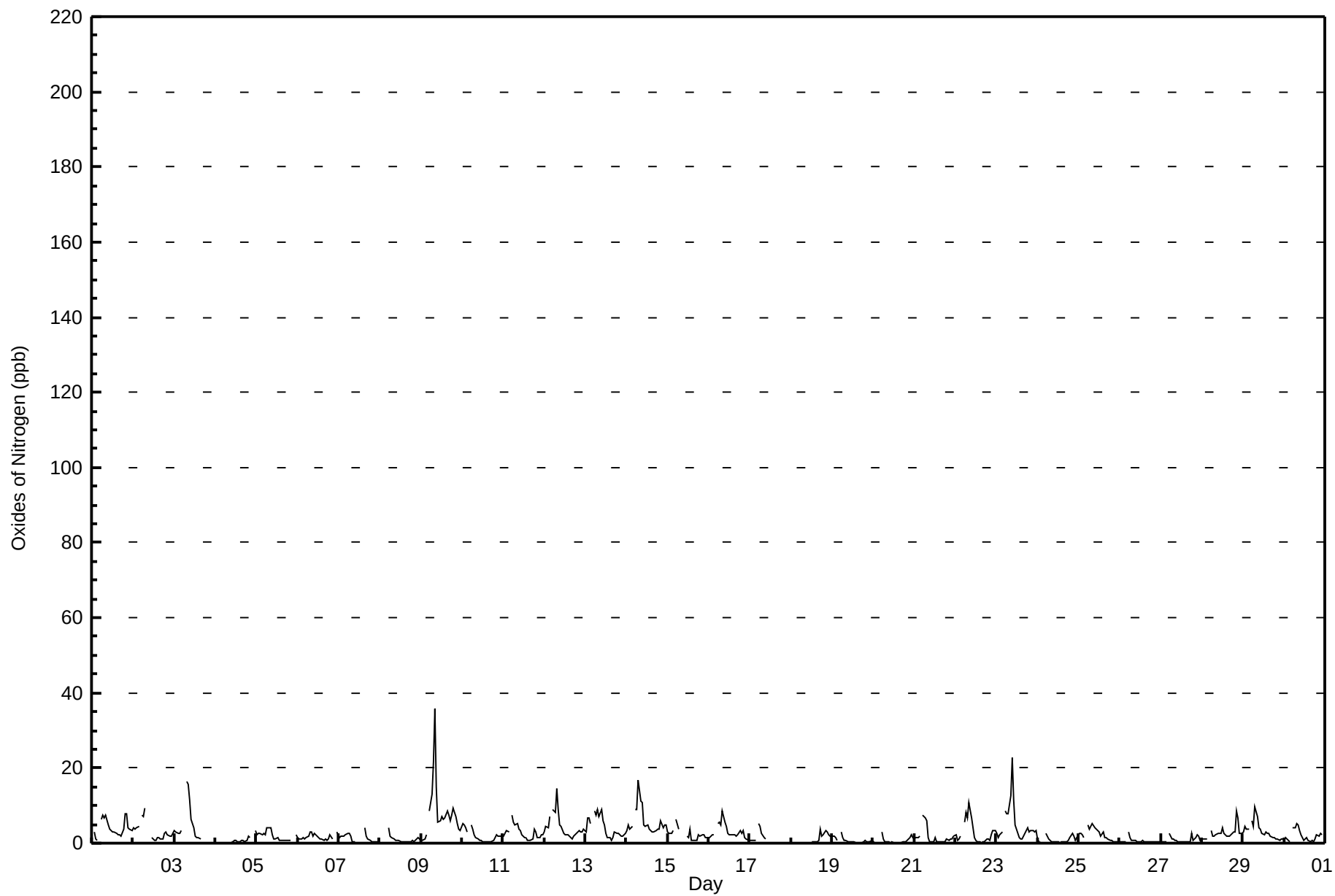


Peace Airshed Zone Association
Summary of Hourly Averages

Beaverlodge - Oxides of Nitrogen (NO_x) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 35.6 ppb on Sep 9 09:00																			Maximum Daily Average: 8.2 ppb on Sep 9						Hours in Service: 720	
Minimum Value: 0 ppb on Sep 8 04:00																			Minimum Daily Average: 0.6 ppb on Sep 20						Hours of Data: 631	
Maximum Diurnal Average: 6.2 ppb at hour 8																			Minimum Diurnal Average: 1.3 ppb at hour 17						Hours of Missing Data: 89	
Monthly Average: 2.65 ppb																			Percentiles: P ₁ = 0.1 P ₁₀ = 0.3 Q ₁ = 0.7 Median = 1.9 Q ₃ = 3.3 P ₉₀ = 6.0 P ₉₉ = 15.4						Hours of Calibration: 41	
																									Percent Operational Time: 93.3	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	P	3	1	1	A	6	7	7	8	5	4	3	3	3	2	2	2	2	4	8	8	4	4	3	4.1	7.9
2-Sep	4	4	4	5	A	8	7	9	P	P	P	1	1	1	1	1	1	1	2	3	2	2	2	3	3.1	9.4
3-Sep	3	3	3	3	3	A	A	16	16	12	6	4	2	2	1	1	P	P	P	P	P	P	P	P	--	16.4
4-Sep	P	P	P	P	P	P	P	P	P	0	1	1	1	1	1	1	1	1	1	2	2	A	A	3	--	3.5
5-Sep	2	3	3	2	3	2	4	4	4	2	1	1	1	1	1	1	1	1	1	1	1	A	A	2	1.9	4.3
6-Sep	1	1	1	1	1	1	2	3	3	2	2	2	1	1	1	1	1	1	1	2	1	A	A	3	1.6	3.1
7-Sep	2	2	2	2	2	3	2	2	0	0	C	C	C	C	C	4	2	1	1	1	0	0	0	0	1.4	4.1
8-Sep	0	0	0	0	A	4	2	1	1	1	1	1	0	1	0	0	0	0	1	1	0	1	1	1	0.8	4.2
9-Sep	1	1	1	2	A	8	13	22	36	15	6	6	7	6	7	8	8	6	7	9	7	5	4	3	8.2	35.6
10-Sep	5	5	4	3	A	5	4	2	1	1	1	1	1	0	0	1	1	1	1	1	2	2	2	2	2.0	5.3
11-Sep	2	3	3	3	A	7	5	5	5	4	3	2	2	1	1	1	1	1	4	3	2	2	2	2	2.7	7.3
12-Sep	3	5	4	7	A	9	8	14	9	5	5	3	2	2	2	2	1	2	2	3	3	3	3	4	4.4	14.5
13-Sep	3	7	7	5	A	9	7	9	7	9	6	5	2	2	1	1	2	3	2	3	2	2	2	2	4.2	8.9
14-Sep	3	5	4	5	A	9	9	17	11	11	5	4	5	4	3	3	3	3	4	4	6	4	5	5	5.7	16.9
15-Sep	3	3	3	3	A	6	4	C	C	C	C	2	2	4	1	1	1	1	2	2	2	2	1	1	2.2	6.4
16-Sep	2	2	2	2	A	5	5	5	9	6	5	3	2	2	2	2	2	2	3	2	4	2	1	1	3.1	8.7
17-Sep	1	1	1	1	A	5	5	3	2	1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	5.0
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	0	0	0	1	1	4	2	2	3	3	2	2	--	3.6
19-Sep	2	2	2	1	A	3	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0.7	3.0
20-Sep	0	0	0	0	A	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	0.6	2.8
21-Sep	1	1	1	2	A	7	7	6	2	0	0	0	2	0	1	0	0	0	1	1	1	1	1	2	1.7	7.3
22-Sep	2	1	1	2	A	6	8	7	11	7	4	2	1	0	0	0	0	0	1	1	1	2	3	4	2.8	10.7
23-Sep	2	2	2	3	A	8	8	8	13	23	12	5	3	2	1	1	2	3	4	3	3	3	3	3	5.1	22.6
24-Sep	1	0	0	0	A	3	1	1	1	0	0	0	0	0	0	0	0	0	1	1	3	2	1	2	0.8	2.8
25-Sep	3	3	2	2	A	5	4	5	5	4	4	3	3	2	3	2	2	1	1	1	1	0	0	1	2.4	5.2
26-Sep	0	0	0	0	A	3	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.6	3.1
27-Sep	0	0	0	0	A	3	1	1	1	1	0	0	0	0	0	0	0	1	2	1	1	2	2	1	0.9	2.6
28-Sep	1	1	1	1	A	3	2	2	2	3	2	3	4	3	2	2	2	2	3	3	9	7	3	3	2.7	8.5
29-Sep	3	5	4	4	A	6	4	10	7	4	4	2	2	3	3	2	2	2	2	1	1	1	1	1	3.2	9.6
30-Sep	1	1	1	0	A	4	4	5	5	3	2	1	1	1	1	0	1	0	1	2	2	2	2	P	1.9	5.4
																									Diurnal Average	
																									Diurnal Maximum	
C - Calibration																										
P - Power Failure																										
A - Automated Daily Zero Span																										

Hourly Averages for NO_x at Beaverlodge September 2009

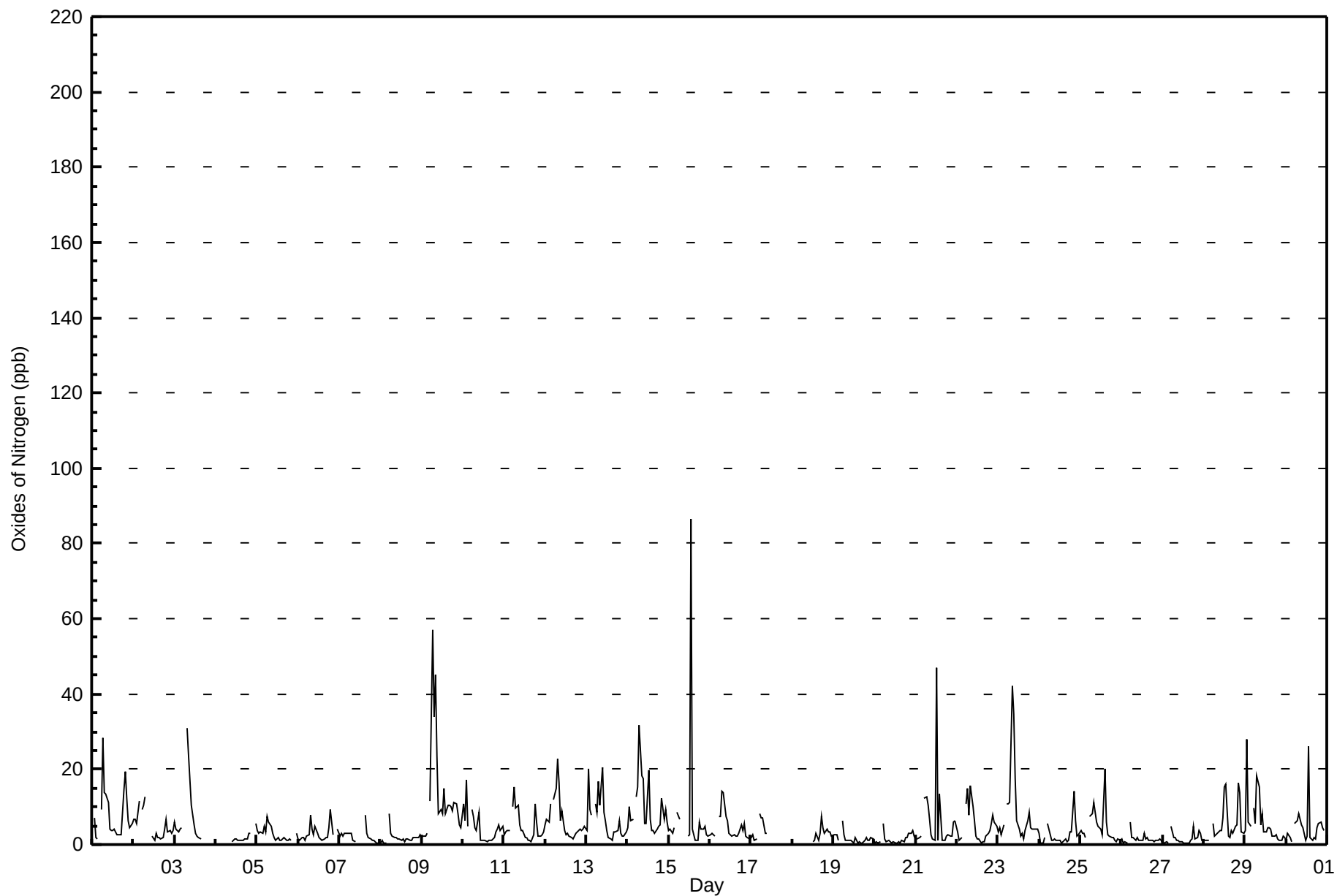


Peace Airshed Zone Association
Summary of Hourly Maximums

Beaverlodge - Oxides of Nitrogen (NO_x) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 86.5 ppb on Sep 15 14:00																				Maximum Daily Average: 13.4 ppb on Sep 9					Hours in Service: 720	
Minimum Value: 0 ppb on Sep 8 04:00																				Minimum Daily Average: 1.4 ppb on Sep 20					Hours of Data: 631	
Maximum Diurnal Average: 10.8 ppb at hour 8																				Minimum Diurnal Average: 2.2 ppb at hour 17					Hours of Missing Data: 89	
Monthly Average: 4.96 ppb																				Percentiles: P ₁ = 0.5 P ₁₀ = 1.0 Q ₁ = 1.5 Median = 2.9 Q ₃ = 5.8 P ₉₀ = 10.8 P ₉₉ = 28.6					Hours of Calibration: 41	
																									Percent Operational Time: 93.3	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	P	7	2	1	A	9	28	14	13	11	4	4	4	4	3	2	3	3	15	19	12	6	4	5	8.0	28.4
2-Sep	7	7	6	12	A	9	10	13	P	P	P	2	1	3	2	2	2	2	4	7	3	4	3	4	5.1	12.9
3-Sep	6	4	3	4	5	A	A	31	24	17	10	5	3	2	2	2	P	P	P	P	P	P	P	P	--	30.9
4-Sep	P	P	P	P	P	P	P	P	P	1	1	1	2	1	1	1	1	2	2	3	3	A	A	6	--	5.6
5-Sep	4	3	3	3	5	3	7	6	5	3	2	1	2	1	1	2	2	1	1	2	1	A	A	3	2.8	7.4
6-Sep	2	1	2	2	1	2	3	8	4	3	5	3	2	2	1	2	2	2	5	9	3	A	A	4	3.0	9.2
7-Sep	2	3	2	3	3	3	3	3	1	1	C	C	C	C	C	8	3	2	1	1	1	1	1	0	2.2	7.7
8-Sep	1	1	0	0	A	8	3	2	2	2	1	1	1	1	1	2	1	1	1	2	2	2	2	3	1.8	8.2
9-Sep	2	2	2	3	A	12	57	34	45	24	8	9	8	15	8	11	10	10	9	11	11	8	5	4	13.4	57.1
10-Sep	11	6	17	5	A	9	8	4	4	9	1	1	1	1	1	1	1	1	2	3	4	5	4	5	4.5	17.0
11-Sep	3	3	4	4	A	10	15	10	10	5	4	4	2	2	1	1	1	3	11	6	2	2	3	3	4.7	15.2
12-Sep	5	7	6	11	A	12	15	23	17	7	9	4	3	3	2	2	2	2	3	3	4	4	4	5	6.5	22.8
13-Sep	4	20	9	8	A	11	8	17	11	20	9	6	4	2	2	1	3	3	4	6	3	2	2	3	6.9	20.4
14-Sep	4	10	6	7	A	13	15	32	18	18	6	6	20	7	4	4	3	4	5	5	12	7	9	6	9.6	31.6
15-Sep	4	4	3	4	A	9	7	C	C	C	C	2	3	87	4	1	1	1	6	4	4	5	3	2	8.0	86.5
16-Sep	3	3	3	2	A	7	8	14	14	7	6	3	3	2	3	2	2	3	5	4	6	2	2	1	4.6	14.1
17-Sep	2	3	1	1	A	8	7	7	3	3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	8.4
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	1	1	3	1	3	8	4	3	4	3	3	2	--	7.6
19-Sep	3	3	2	1	A	6	3	1	1	1	1	1	0	2	0	1	1	0	1	2	1	1	2	1	1.6	6.4
20-Sep	1	1	1	1	A	6	1	1	1	1	0	1	1	1	1	0	1	1	2	2	3	3	4	2	1.4	5.7
21-Sep	2	2	2	2	A	12	13	10	7	2	1	1	47	1	14	1	1	1	2	3	2	2	6	6	6.1	47.0
22-Sep	3	1	2	2	A	11	15	8	16	10	6	2	1	2	1	1	1	2	3	4	6	8	6	5	4.9	15.8
23-Sep	3	4	3	5	A	11	11	11	42	35	17	6	4	2	3	2	4	6	9	4	4	4	4	4	8.7	42.1
24-Sep	3	0	0	2	A	6	3	1	1	1	1	1	1	1	1	1	1	1	3	4	14	6	2	3	2.5	14.3
25-Sep	4	3	3	2	A	7	8	8	11	6	5	4	4	3	20	6	3	2	2	2	1	1	2	1	4.7	20.1
26-Sep	2	0	1	0	A	6	2	2	1	2	1	1	1	3	2	2	1	1	1	1	1	1	2	1	1.4	5.9
27-Sep	0	0	1	0	A	5	2	2	1	1	1	1	0	0	0	0	1	2	5	2	2	4	3	1	1.5	5.0
28-Sep	1	1	1	1	A	6	2	3	3	4	4	7	15	16	2	2	4	3	5	5	16	14	3	3	5.3	16.5
29-Sep	4	28	6	5	A	10	6	18	15	5	8	3	3	4	4	4	2	2	3	1	1	1	2	2	6.1	28.1
30-Sep	1	3	2	1	A	6	6	8	7	5	4	1	2	26	2	1	2	2	5	6	6	4	4	P	4.7	26.1
																									Diurnal Average	
																									Diurnal Maximum	
C - Calibration																										
P - Power Failure																										
A - Automated Daily Zero Span																										

Hourly Maximums for NO_x at Beaverlodge September 2009

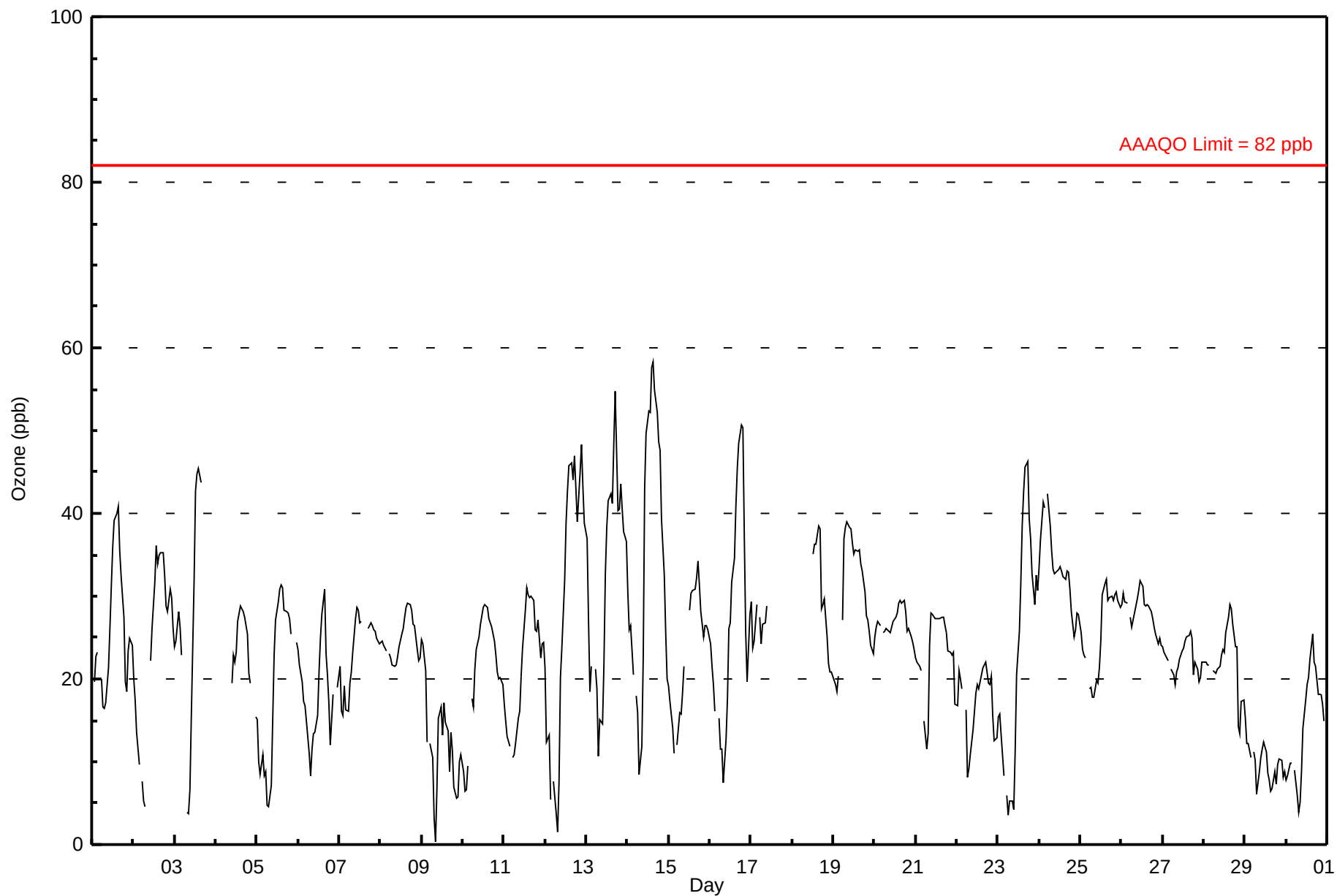


Peace Airshed Zone Association
Summary of Hourly Averages

Beaverlodge - Ozone (O₃) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0 Maximum Value: 58.4 ppb on Sep 14 16:00 Maximum Daily Average: 35.4 ppb on Sep 14																				Hours in Service: 720 Hours of Data: 636 Hours of Missing Data: 84 Hours of Calibration: 37 Percent Operational Time: 93.5						
Minimum Value: 0 ppb on Sep 9 09:00 Maximum Diurnal Average: 32.2 ppb at hour 16 Monthly Average: 23.88 ppb										Minimum Daily Average: 9.8 ppb on Sep 29 Minimum Diurnal Average: 14.8 ppb at hour 8 Percentiles: P ₁ = 3.8 P ₁₀ = 10.2 Q ₁ = 17.3 Median = 24.0 Q ₃ = 29.0 P ₉₀ = 36.9 P ₉₉ = 52.2																
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	P	20	23	23	A	20	17	17	17	21	26	31	36	39	40	41	35	32	27	20	18	23	25	24	26.2	40.8
2-Sep	20	18	14	10	A	8	5	5	P	P	22	26	32	36	34	35	35	35	33	29	28	31	30	26	24.3	36.1
3-Sep	24	25	28	26	23	A	A	4	4	7	15	32	43	45	45	44	P	P	P	P	P	P	P	P	--	45.5
4-Sep	P	P	P	P	P	P	P	P	P	19	23	22	23	27	29	29	28	27	25	21	19	A	A	15	--	28.9
5-Sep	15	10	9	11	8	9	5	5	7	15	23	27	29	31	31	31	28	28	28	27	25	A	A	24	19.4	31.4
6-Sep	24	22	20	17	17	15	11	8	12	13	14	16	21	25	28	31	23	20	17	12	18	A	A	19	18.3	30.8
7-Sep	22	16	16	19	16	16	19	21	23	27	29	28	27	27	C	C	C	26	27	27	26	26	25	24	23.2	28.6
8-Sep	24	25	24	23	A	23	22	22	22	22	23	24	25	26	27	29	29	29	28	27	26	24	22	23	24.7	29.1
9-Sep	25	24	21	12	A	12	11	3	0	7	15	17	13	17	15	14	9	13	11	7	6	6	10	11	12.1	24.7
10-Sep	9	6	7	9	A	18	17	21	24	25	27	28	29	29	29	27	27	26	25	23	21	20	20	19	21.0	28.9
11-Sep	17	15	13	12	A	10	11	12	15	16	20	24	28	31	30	30	30	29	26	26	27	23	24	24	21.5	31.0
12-Sep	21	12	13	5	A	8	4	2	8	20	24	32	39	43	46	46	44	47	43	39	45	48	43	39	29.2	48.4
13-Sep	37	27	18	22	A	21	19	11	15	15	22	33	38	42	42	41	48	55	40	41	43	40	38	37	32.4	54.8
14-Sep	31	26	27	21	A	18	16	9	12	23	43	50	52	52	58	58	55	52	49	48	39	33	26	20	35.4	58.4
15-Sep	19	17	14	11	A	12	16	16	18	21	C	C	28	30	31	31	32	34	31	28	25	26	26	26	23.6	34.2
16-Sep	24	22	19	16	A	15	11	11	8	13	18	26	27	32	35	41	45	49	51	50	37	26	20	28	27.1	50.6
17-Sep	29	24	25	29	A	27	24	27	27	29	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	29.3
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	35	36	36	39	38	28	29	30	25	22	21	21	--	38.5
19-Sep	20	19	19	20	A	27	37	38	39	38	38	36	35	36	35	36	34	33	31	28	27	26	24	23	30.4	39.0
20-Sep	25	26	27	27	A	26	26	26	26	26	26	27	27	28	29	29	29	29	28	26	26	25	24	24	26.6	29.4
21-Sep	23	22	22	21	A	15	11	13	24	28	28	27	27	27	27	27	27	26	26	23	23	23	23	17	23.2	27.9
22-Sep	17	21	20	19	A	16	8	9	11	14	16	18	19	19	21	21	22	22	20	19	20	16	12	13	17.1	22.0
23-Sep	15	16	13	8	A	6	4	5	5	4	11	20	26	32	39	42	46	46	39	37	33	29	33	31	23.5	46.2
24-Sep	33	37	41	41	A	42	39	35	33	33	33	33	34	33	32	32	33	33	31	28	25	26	28	28	33.2	42.4
25-Sep	26	24	23	23	A	19	19	18	18	20	19	21	25	30	31	32	29	30	30	29	30	31	29	29	25.4	32.1
26-Sep	29	30	29	29	A	27	26	27	29	30	31	32	31	29	29	29	29	28	27	26	25	24	25	24	28.1	31.9
27-Sep	24	23	23	22	A	21	21	19	21	21	22	23	24	25	25	25	26	25	20	22	21	20	20	22	22.4	25.7
28-Sep	22	22	22	22	A	21	21	21	21	21	23	24	23	26	27	29	28	27	24	24	14	13	17	18	22.2	29.0
29-Sep	15	12	12	11	A	11	10	6	9	10	12	12	11	9	8	6	7	9	7	10	10	10	8	9	9.8	15.3
30-Sep	8	8	10	10	A	9	6	4	5	9	14	17	19	20	22	25	22	21	20	18	18	17	15	P	14.5	25.4
22.1 20.3 19.6 18.5 16.1 17.5 16.1 14.8 16.7 19.6 22.8 26.2 28.5 30.3 31.5 32.2 31.1 30.8 28.3 26.5 25.2 24.3 23.6 22.8 36.9 36.7 41.3 40.8 23.0 42.4 38.5 38.3 39.0 38.2 43.1 49.7 52.3 52.2 57.6 58.4 54.9 54.8 50.6 50.3 44.8 48.4 43.3 38.9																								Diurnal Average		
																								Diurnal Maximum		
C - Calibration P - Power Failure A - Automated Daily Zero Span																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 82 ppb 24-hr na																										

Hourly Averages for O₃ at Beaverlodge September 2009

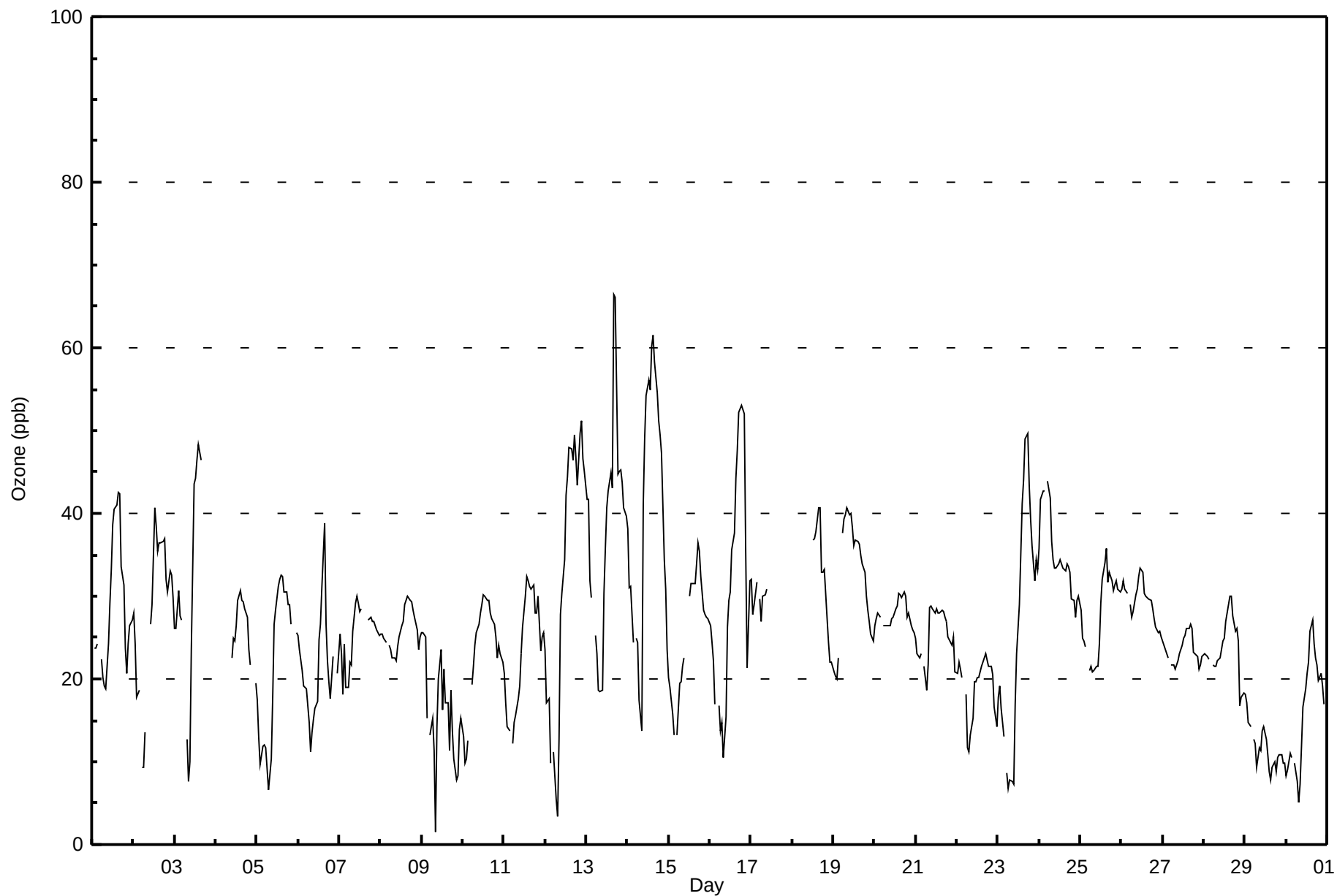


Peace Airshed Zone Association
Summary of Hourly Maximums

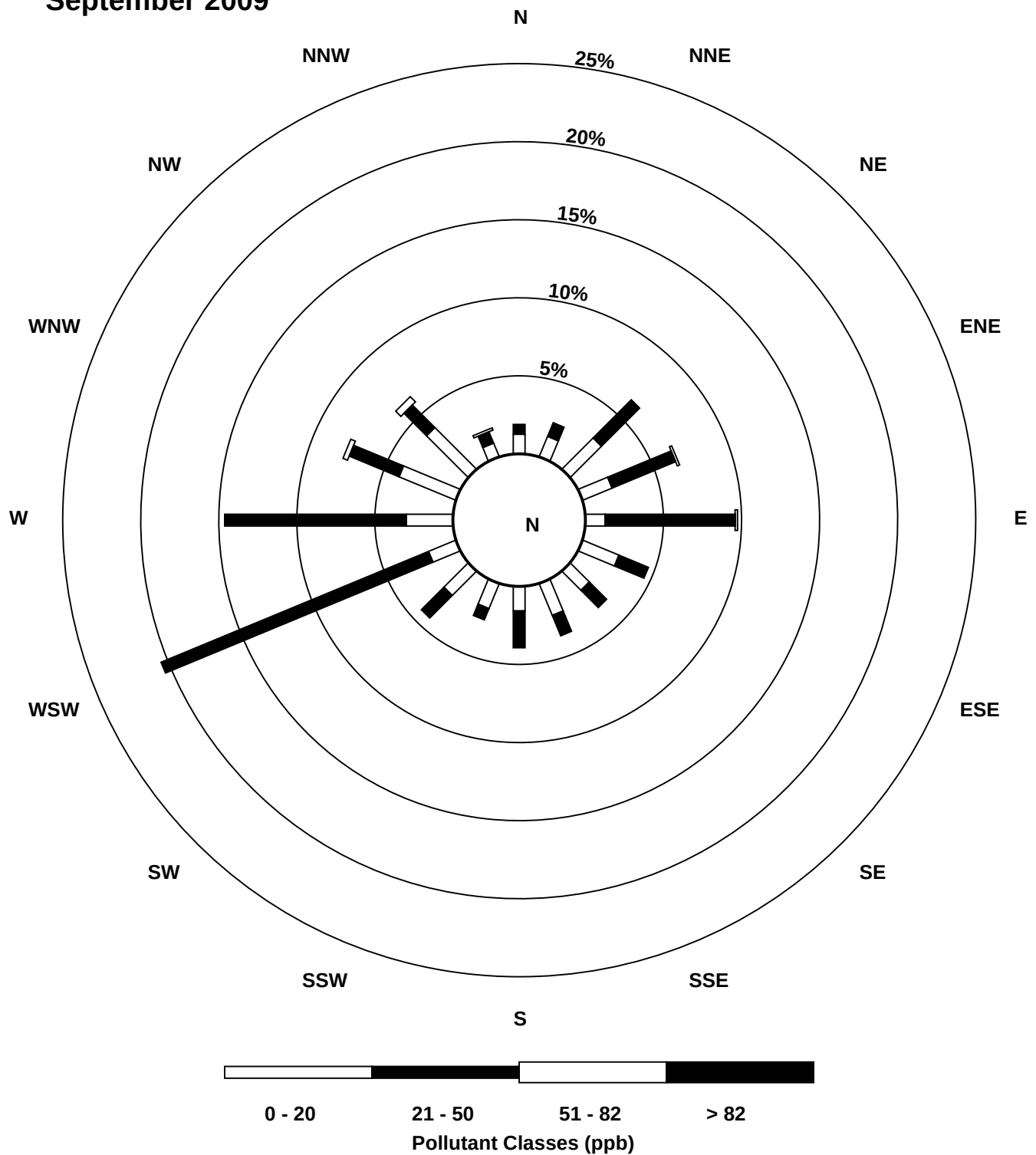
Beaverlodge - Ozone (O₃) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 66.5 ppb on Sep 13 17:00																				Maximum Daily Average: 40.5 ppb on Sep 14					Hours in Service: 720	
Minimum Value: 1 ppb on Sep 9 09:00																				Minimum Daily Average: 11.7 ppb on Sep 29					Hours of Data: 636	
Maximum Diurnal Average: 34.0 ppb at hour 16																				Minimum Diurnal Average: 18.3 ppb at hour 8					Hours of Missing Data: 84	
Monthly Average: 26.41 ppb																				Percentiles: P ₁ = 7.2 P ₁₀ = 13.0 Q ₁ = 20.6 Median = 26.0 Q ₃ = 30.9 P ₉₀ = 40.7 P ₉₉ = 54.1					Hours of Calibration: 37	
																									Percent Operational Time: 93.5	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	P	24	24	24	A	22	20	19	19	24	29	33	39	41	41	43	42	34	31	24	21	24	26	27	28.7	42.6
2-Sep	28	24	18	19	A	9	9	14	P	P	27	29	41	39	35	36	37	37	37	32	31	33	33	30	28.4	40.7
3-Sep	26	26	31	28	27	A	A	13	8	10	24	44	44	46	48	46	P	P	P	P	P	P	P	P	--	48.4
4-Sep	P	P	P	P	P	P	P	P	P	23	25	25	26	29	31	29	29	28	27	23	22	A	A	20	--	30.6
5-Sep	17	13	10	12	12	12	9	7	10	18	27	28	31	32	32	32	30	30	29	29	27	A	A	26	21.6	32.5
6-Sep	25	24	21	19	19	19	15	11	14	15	16	17	25	27	31	39	27	22	20	18	23	A	A	21	21.2	38.8
7-Sep	25	23	18	24	19	19	22	22	26	29	30	29	28	28	C	C	C	27	27	27	27	26	26	25	25.2	30.0
8-Sep	25	25	25	24	A	24	23	23	23	22	24	25	26	27	29	29	30	29	29	28	27	26	24	25	25.9	29.9
9-Sep	26	26	25	15	A	13	15	11	1	14	20	24	16	21	17	17	11	19	14	10	8	8	14	15	15.7	25.5
10-Sep	13	10	10	13	A	19	21	24	26	27	28	29	30	30	30	29	28	27	27	25	23	24	23	22	23.4	30.1
11-Sep	21	17	14	14	A	12	15	16	18	19	23	26	30	32	32	31	31	31	28	28	30	23	25	26	23.6	32.3
12-Sep	24	17	18	10	A	11	5	3	13	28	30	34	42	44	48	48	46	49	47	43	50	51	47	45	32.8	51.2
13-Sep	42	42	32	30	A	25	23	19	18	19	30	36	41	43	45	43	66	66	45	45	45	44	41	40	38.2	66.5
14-Sep	38	31	31	24	A	25	24	17	14	41	49	54	56	55	60	61	58	55	51	50	47	34	31	24	40.5	61.5
15-Sep	20	19	16	13	A	13	20	20	21	23	C	C	30	31	31	31	34	36	35	32	28	28	28	27	25.6	36.4
16-Sep	27	24	22	17	A	17	14	15	10	15	26	29	31	36	38	44	48	52	53	53	52	35	21	32	30.9	53.1
17-Sep	32	28	29	32	A	30	27	30	30	31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	32.1
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	37	37	38	41	41	33	33	33	27	24	22	22	--	40.7
19-Sep	21	20	20	23	A	38	39	40	41	40	40	38	36	37	37	36	35	34	33	30	28	27	25	25	32.3	40.7
20-Sep	26	27	28	27	A	27	27	27	27	27	27	27	28	29	30	30	30	30	30	27	28	27	26	26	27.7	30.4
21-Sep	25	23	23	23	A	22	19	22	29	29	29	28	28	28	28	28	28	27	27	25	24	24	25	21	25.4	28.9
22-Sep	21	22	21	20	A	18	12	11	13	15	20	20	20	20	22	22	23	23	22	22	22	21	17	14	19.1	23.0
23-Sep	18	19	16	13	A	9	7	8	8	7	17	23	29	35	41	44	49	50	43	39	36	32	34	33	26.6	49.6
24-Sep	36	42	43	43	A	44	42	37	34	33	33	34	34	34	33	33	34	34	33	30	29	27	29	30	34.8	43.9
25-Sep	28	25	25	24	A	21	22	21	21	22	22	24	29	32	34	36	32	33	32	31	31	32	31	31	27.7	35.8
26-Sep	31	32	31	30	A	29	27	28	30	31	32	33	33	30	30	30	30	29	28	27	26	26	26	25	29.4	33.4
27-Sep	25	24	23	23	A	22	22	21	22	22	23	24	25	25	26	26	27	26	23	23	23	21	22	23	23.4	26.5
28-Sep	23	23	23	22	A	22	22	22	22	23	24	25	25	27	29	30	30	28	26	26	25	17	18	18	23.7	30.0
29-Sep	18	17	15	14	A	13	12	9	12	11	14	14	13	11	9	8	9	10	9	10	11	11	10	10	11.7	18.2
30-Sep	8	9	11	11	A	10	8	5	7	12	17	19	21	22	26	27	24	23	22	20	21	19	17	P	16.2	27.2
24.8 23.4 22.2 21.1 19.3 20.1 19.3 18.3 19.1 22.4 26.1 28.6 30.9 32.0 33.3 34.0 33.7 33.0 30.8 29.0 28.3 26.6 25.6 25.2																									Diurnal Average	
41.7 41.7 42.7 42.8 27.1 43.9 41.8 39.8 40.7 41.0 48.9 54.3 56.0 54.9 60.1 61.5 66.5 66.2 53.1 52.6 52.1 51.2 46.6 45.1																									Diurnal Maximum	
C - Calibration P - Power Failure A - Automated Daily Zero Span																										

Hourly Maximums for O₃ at Beaverlodge September 2009



Pollutant Rose for O₃ at Beaverlodge September 2009



Peace Airshed Zone Association
Summary of Eight Hour Running Averages

Beaverlodge - Ozone (O₃) - ppb
September 1, 2009 to October 1, 2009

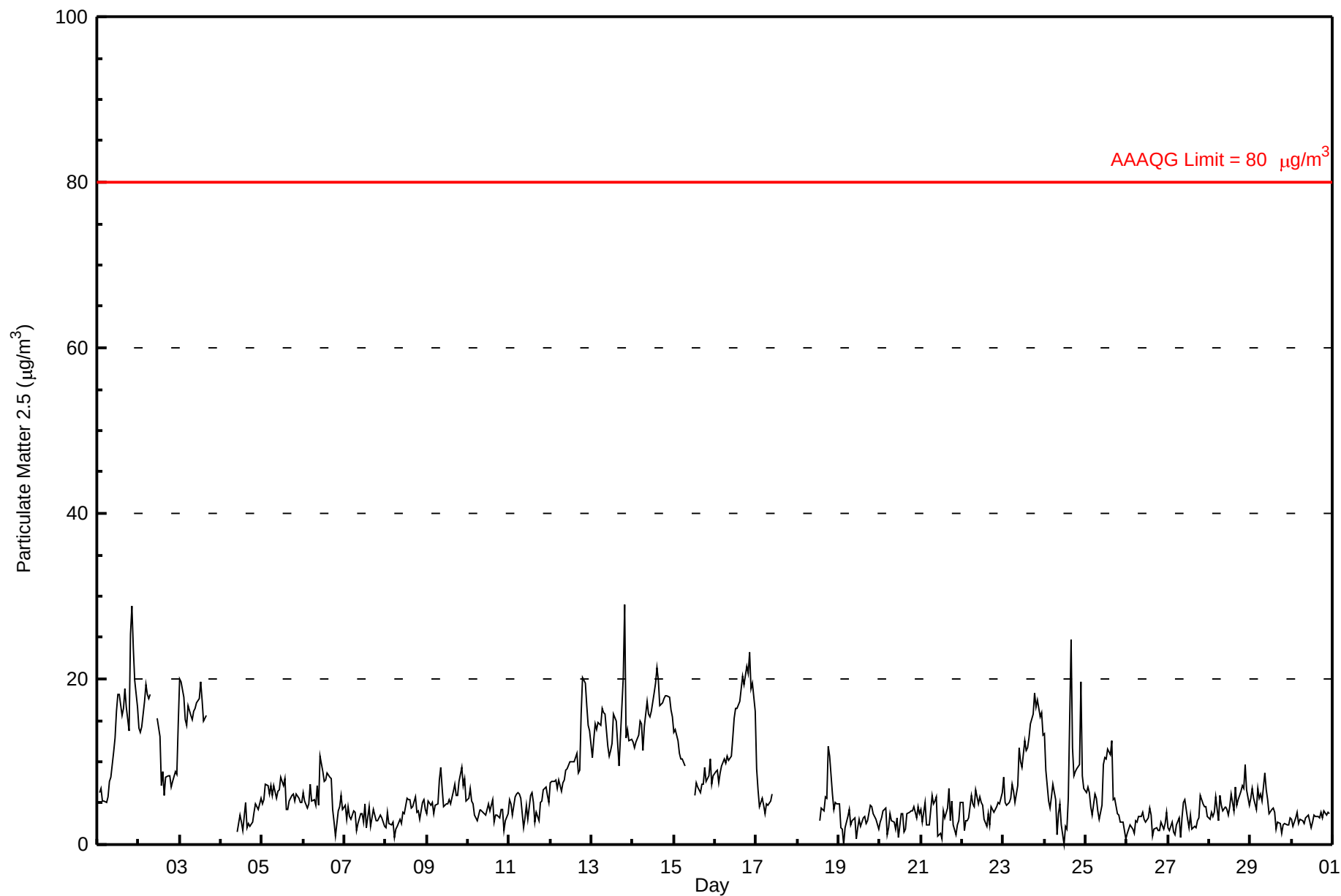
Number of Exceedences (AAAQO): 8-hr: 0 Maximum Value: 53.3 ppb on Sep 14 19:00																								Hours in Service: 720 Hours of Data: 660 Hours of Missing Data: 60 Hours of Calibration: 11 Percent Operational Time: 93.2	
Minimum Value: 6.3 ppb on Sep 23 11:00																									
Percentiles: P ₁ = 7.9 P ₁₀ = 11.3 Q ₁ = 18.2 Median = 23.8 Q ₃ = 28.4 P ₉₀ = 35.1 P ₉₉ = 44.5																									
Day	Hourly Period Ending At (MST)																								Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Sep	28	26	25	24	23	22	21	20	19	20	20	21	23	25	28	31	34	35	35	34	32	30	28	26	35.3
2-Sep	24	22	20	19	19	17	14	11	10	N	N	N	16	21	26	31	31	32	33	34	33	32	32	31	33.6
3-Sep	29	28	28	27	27	26	25	22	18	15	13	14	17	21	24	29	33	37	N	N	N	N	N	N	37.3
4-Sep	N	N	N	N	N	N	N	N	N	N	N	N	N	N	24	25	25	26	26	26	26	25	25	23	26.3
5-Sep	21	18	15	13	11	11	10	9	8	8	10	12	15	18	21	24	27	29	29	29	29	29	28	27	29.3
6-Sep	26	25	24	22	21	20	19	17	15	14	13	13	14	15	17	20	21	22	23	22	22	21	20	18	26.1
7-Sep	18	17	17	18	18	18	18	18	18	20	21	22	24	25	26	27	N	N	N	N	N	N	26	26	26.8
8-Sep	26	25	25	25	25	24	24	23	23	23	22	22	23	23	24	25	26	27	27	28	28	27	27	26	27.7
9-Sep	25	25	24	22	22	20	18	15	12	9	9	9	10	10	11	12	13	14	14	12	11	10	9	9	25.4
10-Sep	9	8	8	8	8	10	11	12	15	17	20	23	23	25	26	27	27	28	27	27	26	25	24	23	27.6
11-Sep	21	20	19	17	17	15	14	13	13	13	14	16	17	20	22	24	26	28	29	29	29	28	27	26	28.8
12-Sep	25	23	21	19	18	16	13	9	7	8	10	14	17	21	27	32	37	40	42	43	44	45	44	44	44.8
13-Sep	43	40	37	35	34	30	26	22	19	17	18	19	22	24	27	31	35	40	42	43	44	44	43	43	44.1
14-Sep	41	37	35	33	31	28	25	21	18	18	20	24	28	32	37	43	49	53	53	53	51	49	45	40	53.3
15-Sep	36	31	27	22	20	17	16	15	15	16	16	N	19	22	24	27	29	31	31	31	30	30	29	29	35.6
16-Sep	28	26	25	23	23	21	19	17	15	13	13	15	16	18	21	25	29	34	38	41	42	42	40	38	42.4
17-Sep	36	33	30	27	26	26	27	26	26	27	27	N	N	N	N	N	N	N	N	N	N	N	N	N	36.2
18-Sep	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	35	35	34	33	31	29	27	35.5
19-Sep	24	23	22	21	20	21	23	26	28	31	34	36	36	37	37	37	36	35	34	33	32	31	30	28	37.2
20-Sep	27	26	26	26	25	25	26	26	26	26	26	26	26	26	27	27	28	28	28	28	28	28	27	26	28.5
21-Sep	26	25	24	23	23	21	20	18	18	19	20	21	22	23	25	27	27	27	27	27	26	25	25	24	27.5
22-Sep	22	22	21	20	20	19	17	16	15	14	13	13	14	14	16	17	19	20	20	20	20	20	19	18	22.3
23-Sep	17	16	16	14	13	12	11	10	8	7	6	8	10	13	18	22	27	33	36	38	39	39	38	37	39.2
24-Sep	35	34	34	35	35	37	38	38	38	38	37	35	35	34	33	33	33	33	33	32	31	30	29	29	38.4
25-Sep	28	27	26	25	25	24	23	21	20	20	19	19	20	21	23	25	26	27	29	30	30	30	30	30	30.4
26-Sep	30	30	30	30	30	29	29	28	28	28	28	29	29	29	30	30	30	30	29	29	28	27	27	26	29.9
27-Sep	26	25	24	24	24	23	23	22	21	21	21	21	22	22	23	23	24	24	24	24	24	23	22	22	25.5
28-Sep	22	21	21	21	21	22	22	21	21	21	21	22	22	22	23	24	25	26	26	26	25	23	22	21	26.0
29-Sep	19	17	16	14	14	14	13	11	10	10	10	10	10	10	10	10	9	9	9	8	8	8	8	9	19.0
30-Sep	9	9	9	9	9	9	9	8	7	8	8	9	10	12	14	17	19	20	21	21	21	21	20	19	21.1
42.7 40.2 37.1 34.9 34.9 36.8 37.7 38.4 38.3 37.8 36.6 36.3 36.2 37.2 37.3 43.5 48.9 52.6 53.3 53.0 51.4 48.9 44.9 43.6																									
Diurnal Maximums																									
N - Not Valid																									

Peace Airshed Zone Association
Summary of Hourly Averages

Beaverlodge - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
September 1, 2009 to October 1, 2009

Number of Exceedences: 1-hr: 0 24-hr: 0 Maximum Value: 29.0 µg/m³ on Sep 13 20:00 Maximum Daily Average: 16.1 µg/m³ on Sep 14																				Hours in Service: 720 Hours of Data: 666 Hours of Missing Data: 54 Hours of Calibration: 3 Percent Operational Time: 92.9						
Minimum Value: 0 µg/m³ on Sep 19 04:00 Maximum Diurnal Average: 8.5 µg/m³ at hour 20 Monthly Average: 7.04 µg/m³										Minimum Daily Average: 2.6 µg/m³ on Sep 26 Minimum Diurnal Average: 6.1 µg/m³ at hour 4 Percentiles: P ₁ = 0.8 P ₁₀ = 2.4 Q ₁ = 3.4 Median = 5.2 Q ₃ = 9.0 P ₉₀ = 15.8 P ₉₉ = 21.2																
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	P	6	7	5	5	5	6	8	8	11	13	16	18	18	16	16	19	17	14	26	29	24	20	17	14.0	28.7
2-Sep	14	14	14	17	19	18	18	18	P	P	P	15	13	7	9	6	8	8	8	7	8	9	8	15	12.1	19.4
3-Sep	20	20	18	15	14	17	16	15	16	16	17	18	20	17	15	16	P	P	P	P	P	P	P	P	--	20.0
4-Sep	P	P	P	P	P	P	P	P	P	2	2	4	3	2	5	2	3	2	3	4	5	5	4	6	--	5.6
5-Sep	5	5	7	7	6	7	6	7	6	6	7	8	7	8	4	4	5	6	6	5	6	6	5	5	6.1	8.2
6-Sep	6	5	4	5	7	5	5	5	7	5	11	9	8	8	9	8	8	4	3	1	4	5	6	4	5.9	10.7
7-Sep	5	3	5	3	3	4	4	2	3	4	4	3	5	2	5	2	3	4	3	3	3	4	3	2	3.4	4.9
8-Sep	2	4	3	2	3	1	2	2	3	3	4	4	6	5	6	4	5	6	4	4	3	5	5	4	3.7	5.7
9-Sep	4	5	5	5	4	5	5	8	9	7	5	5	5	5	5	7	7	6	6	8	9	7	8	5	6.0	9.4
10-Sep	6	7	5	5	4	3	3	4	4	4	3	4	5	4	5	3	3	4	3	4	4	2	3	4	4.0	6.9
11-Sep	5	5	4	6	6	6	6	6	2	3	5	3	6	6	5	3	4	3	5	5	7	7	6	5	4.9	7.0
12-Sep	8	8	8	8	7	8	6	7	8	9	9	10	10	10	10	11	9	9	16	20	20	17	14	14	10.6	20.1
13-Sep	11	13	15	14	15	14	16	16	16	12	11	11	12	16	15	12	9	13	20	29	13	14	12	13	14.2	29.0
14-Sep	12	12	12	13	15	15	11	14	17	16	15	16	18	19	21	20	17	17	18	18	18	18	16	15	16.1	21.4
15-Sep	14	14	13	11	10	10	9	N	N	C	C	C	6	7	7	6	7	7	9	8	8	10	7	8	9.1	13.9
16-Sep	9	9	7	9	9	10	10	11	10	11	13	15	16	16	17	19	20	19	21	21	23	19	20	16	14.6	23.1
17-Sep	9	7	5	6	5	4	5	5	5	6	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	9.1
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	M	3	4	4	6	6	12	11	6	4	5	5	--	11.8
19-Sep	5	2	2	0	2	3	4	2	3	3	1	2	3	2	3	3	3	3	5	5	4	3	3	2	2.9	5.0
20-Sep	3	3	4	4	1	2	4	3	3	2	3	1	4	4	2	2	4	4	4	4	5	3	5	4	3.2	4.6
21-Sep	4	3	5	2	2	2	6	5	5	6	1	1	1	4	3	4	7	3	5	2	1	2	3	5	3.5	6.7
22-Sep	5	2	3	3	3	6	5	5	7	5	6	5	5	3	2	4	2	5	4	4	5	5	5	6	4.3	6.6
23-Sep	8	5	5	5	6	7	6	5	7	12	10	9	13	11	12	13	14	16	18	17	17	15	16	13	10.9	18.3
24-Sep	13	9	5	4	6	7	5	1	4	5	2	0	2	2	6	25	12	8	9	9	10	20	8	7	7.5	24.7
25-Sep	6	7	6	5	4	6	6	4	3	5	10	11	10	12	11	12	5	6	4	4	3	3	3	1	6.0	12.5
26-Sep	1	2	2	2	1	3	3	3	3	4	3	3	3	4	3	1	2	2	2	2	3	2	3	4	2.6	4.5
27-Sep	2	2	3	1	1	2	3	1	3	5	5	3	2	4	2	2	2	3	3	6	5	5	5	3	3.1	6.0
28-Sep	3	4	3	4	6	3	6	5	4	5	4	4	5	6	4	7	5	5	6	7	7	10	7	5	5.1	9.7
29-Sep	6	7	6	4	7	6	6	5	9	7	5	4	4	4	4	2	3	2	1	2	3	2	2	3	4.3	8.7
30-Sep	3	2	3	4	3	3	3	3	3	3	4	2	3	4	3	3	3	4	3	4	3	4	4	P	3.2	4.0
7.0 6.5 6.3 6.1 6.2 6.5 6.6 6.3 6.5 6.5 6.6 6.9 7.6 7.4 7.3 7.7 7.0 6.8 7.7 8.5 8.2 8.1 7.4 7.1																								Diurnal Average		
20.0 19.7 17.7 17.2 19.4 18.1 17.7 18.1 17.4 16.4 17.1 17.6 19.7 19.5 21.4 24.7 20.4 19.3 21.5 29.0 28.7 23.7 19.9 16.7																								Diurnal Maximum		
C - Calibration P - Power Failure M - Maintenance N - Not Valid																										
Alberta Ambient Air Quality Guideline (AAAQG): 1-hr 80 µg/m³ Alberta Ambient Air Quality Objective (AAAQO): 24-hr 30 µg/m³																										

Hourly Averages for PM_{2.5} at Beaverlodge September 2009

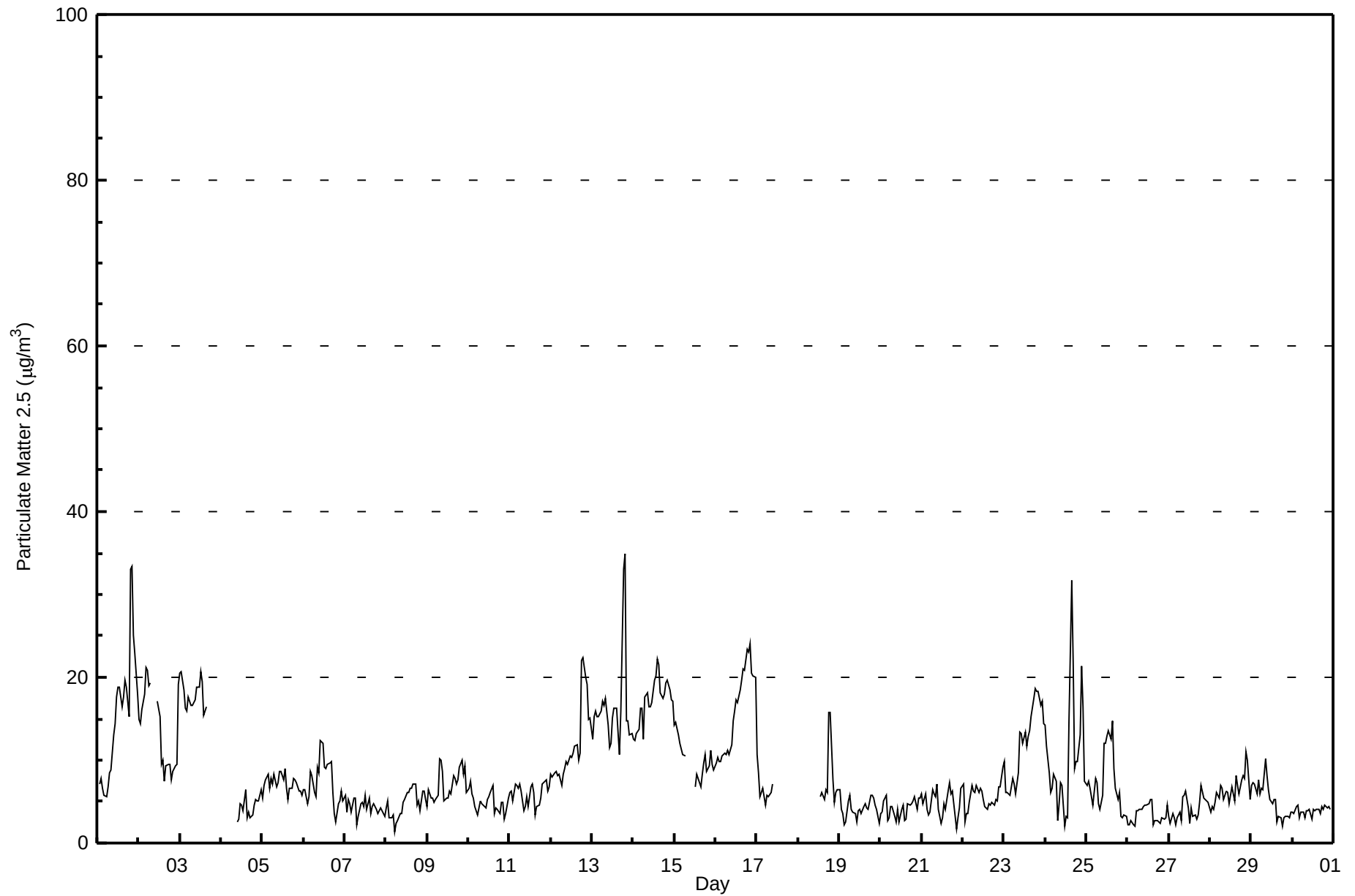


Peace Airshed Zone Association
Summary of Hourly Maximums

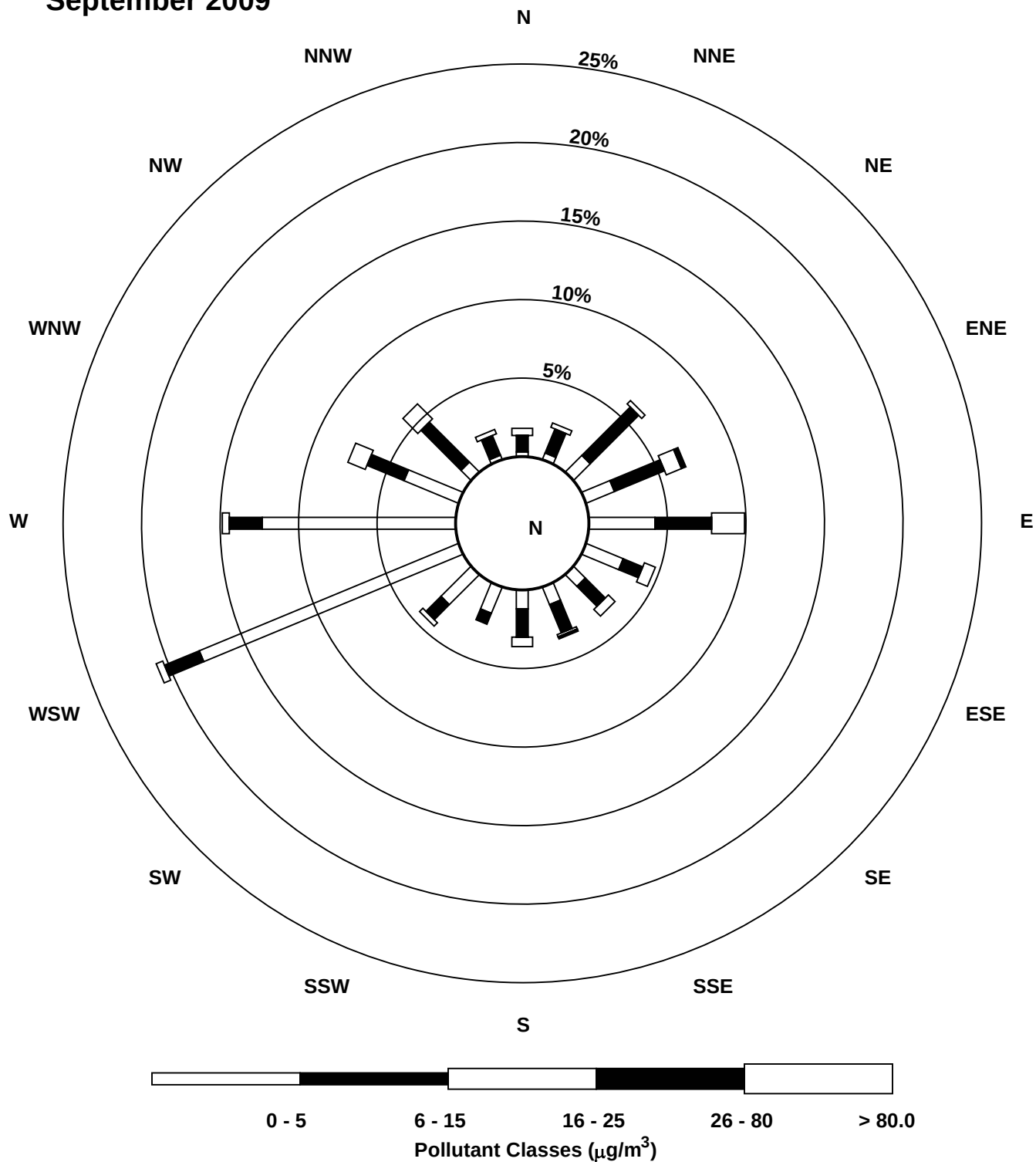
Beaverlodge - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
September 1, 2009 to October 1, 2009

Maximum Value: 34.9 μg/m³ on Sep 13 20:00																				Maximum Daily Average: 17.2 μg/m³ on Sep 14					Hours in Service: 720		
Minimum Value: 1 μg/m³ on Sep 8 06:00																				Minimum Daily Average: 3.4 μg/m³ on Sep 26					Hours of Data: 666		
Maximum Diurnal Average: 10.4 μg/m³ at hour 20																				Minimum Diurnal Average: 7.1 μg/m³ at hour 4					Hours of Missing Data: 54		
Monthly Average: 8.28 μg/m³																				Percentiles: P ₁ = 2.1 P ₁₀ = 3.2 Q ₁ = 4.4 Median = 6.3 Q ₃ = 10.3 P ₉₀ = 17.1 P ₉₉ = 23.9					Hours of Calibration: 3		
																				Percent Operational Time: 92.9							
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1-Sep	P	7	8	7	6	6	7	9	9	13	14	18	19	19	16	18	20	19	15	33	33	25	23	18	15.6	33.3	
2-Sep	15	14	16	18	21	21	19	19	P	P	P	17	15	9	10	8	9	9	9	8	9	9	10	19	13.6	21.2	
3-Sep	21	21	18	16	16	18	17	17	17	17	19	19	21	20	15	17	P	P	P	P	P	P	P	P	--	20.7	
4-Sep	P	P	P	P	P	P	P	P	P	3	3	5	5	4	6	3	4	3	3	5	5	5	5	6	--	6.4	
5-Sep	5	7	8	8	7	8	7	8	7	7	9	9	8	9	7	5	7	7	8	8	7	6	6	6	7.2	9.0	
6-Sep	6	6	5	6	9	8	6	6	9	9	12	12	9	9	9	10	10	6	3	3	5	5	6	5	7.3	12.4	
7-Sep	6	4	5	5	4	5	5	2	3	5	5	4	6	4	5	4	4	5	4	4	4	4	4	3	4.4	5.8	
8-Sep	4	5	3	3	3	1	2	3	4	4	5	5	6	6	7	7	7	7	5	5	4	6	6	5	4.7	7.1	
9-Sep	4	6	5	6	5	5	6	10	10	9	5	5	5	6	6	8	8	7	8	9	10	8	9	6	7.0	10.1	
10-Sep	7	7	6	5	4	3	4	5	5	4	4	5	6	6	7	4	4	4	4	5	5	3	4	5	4.9	7.5	
11-Sep	6	6	5	7	7	7	7	6	4	4	6	4	7	7	6	3	4	5	5	7	7	8	6	7	5.9	7.7	
12-Sep	8	8	8	9	8	8	7	8	9	10	10	10	10	11	12	12	10	11	22	22	20	19	15	15	11.8	22.5	
13-Sep	13	15	16	15	15	16	17	17	17	14	12	12	15	16	16	13	11	16	33	35	15	15	13	13	16.3	34.9	
14-Sep	13	12	13	14	16	16	12	18	18	16	16	17	20	20	22	21	18	17	18	19	20	18	17	17	17.2	22.1	
15-Sep	14	15	13	12	11	11	11	N	N	C	C	C	7	8	8	7	8	10	11	9	9	11	10	9	10.1	14.5	
16-Sep	10	10	10	10	10	11	11	11	11	12	15	16	17	17	19	20	21	21	23	23	24	20	20	20	15.9	24.1	
17-Sep	11	9	6	7	6	5	6	6	6	7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	10.7	
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	M	6	6	5	6	6	16	16	8	5	6	6	--	15.8	
19-Sep	7	4	4	2	3	5	6	4	4	3	3	4	4	4	4	5	4	4	6	6	5	4	4	2	4.2	6.5	
20-Sep	4	4	5	6	3	3	4	4	3	3	4	3	4	5	3	3	5	5	5	5	6	4	5	5	4.1	5.8	
21-Sep	6	5	6	4	3	4	6	6	6	7	4	2	3	5	4	6	7	6	6	5	2	3	4	7	4.9	7.4	
22-Sep	7	3	4	4	5	7	6	6	7	6	7	6	5	4	4	5	4	5	5	5	5	7	7	9	5.5	9.2	
23-Sep	10	6	6	6	7	8	7	6	8	13	13	12	13	12	13	14	15	17	19	18	18	17	17	14	12.1	18.7	
24-Sep	14	12	8	6	7	8	7	3	5	7	7	2	3	3	15	32	22	9	10	10	13	21	16	7	10.3	31.7	
25-Sep	7	8	7	6	5	8	7	5	4	6	12	12	13	14	12	15	9	7	5	6	3	3	3	3	7.4	14.8	
26-Sep	2	2	3	2	2	4	4	4	4	4	5	5	5	5	5	2	3	3	3	2	3	3	3	5	3.4	5.3	
27-Sep	3	2	4	3	2	3	4	3	6	6	6	4	2	4	3	3	3	3	5	7	5	5	5	5	4.1	7.0	
28-Sep	4	4	4	5	6	5	7	7	5	6	6	5	6	7	5	8	7	6	8	8	8	11	10	5	6.4	11.1	
29-Sep	7	7	7	6	8	6	7	7	10	8	6	5	5	5	5	2	3	3	2	3	3	3	3	4	5.3	10.2	
30-Sep	4	4	4	5	3	4	4	3	4	4	4	3	4	4	4	4	4	4	4	5	4	4	4	P	3.9	4.6	
		8.0	7.6	7.4	7.1	7.2	7.6	7.6	7.4	7.5	7.7	8.1	8.2	8.6	8.6	8.8	9.0	8.5	8.0	9.4	10.4	9.3	9.1	8.7	8.5	Diurnal Average	
		20.6	20.7	18.5	18.0	21.2	20.8	19.0	19.4	18.1	17.3	18.8	18.8	20.7	20.2	22.1	31.7	21.8	20.8	33.1	34.9	33.3	25.1	22.9	20.0	Diurnal Maximum	
C - Calibration		P - Power Failure				M - Maintenance				N - Not Valid																	

Hourly Maximums for PM_{2.5} at Beaverlodge September 2009



Pollutant Rose for PM_{2.5} at Beaverlodge **September 2009**



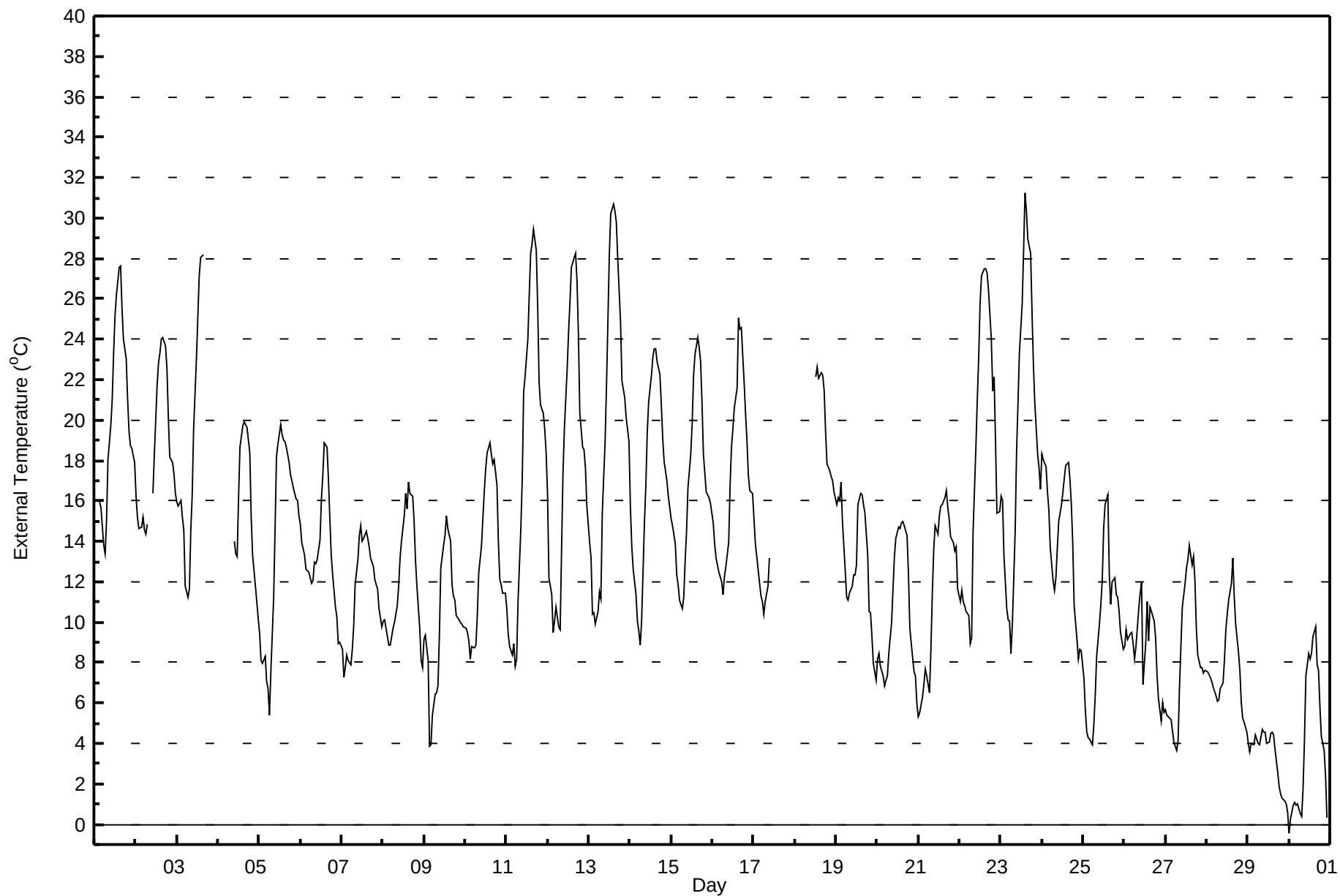
Peace Airshed Zone Association
Summary of Hourly Averages

Beaverlodge - External Temperature (ET) - °C
September 1, 2009 to October 1, 2009

Maximum Value: 31.2 °C on Sep 23 15:00																				Maximum Daily Average: 20.1 °C on Sep 1					Hours in Service: 720	
Minimum Value: 0 °C on Sep 30 01:00																				Minimum Daily Average: 3.4 °C on Sep 29					Hours of Data: 673	
Maximum Diurnal Average: 19.6 °C at hour 16																				Minimum Diurnal Average: 8.7 °C at hour 7					Hours of Missing Data: 47	
Monthly Average: 13.71 °C																				Percentiles: P ₁ = 0.9 P ₁₀ = 6.0 Q ₁ = 9.2 Median = 13.2 Q ₃ = 17.4 P ₉₀ = 22.8 P ₉₉ = 29.3					Hours of Calibration: 0	
																				Percent Operational Time: 93.5						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	P	16	16	16	16	14	13	15	18	20	21	23	25	26	28	28	26	24	23	21	19	19	19	18	20.1	27.6
2-Sep	16	15	15	15	15	15	14	15	P	P	16	18	22	23	23	24	24	24	23	20	18	18	17	16	18.5	24.1
3-Sep	16	16	16	15	15	12	11	12	15	16	20	23	25	27	28	28	P	P	P	P	P	P	P	P	--	28.2
4-Sep	P	P	P	P	P	P	P	P	P	14	13	13	16	19	20	20	20	20	18	15	13	13	12	10	--	19.9
5-Sep	9	8	8	8	7	7	5	8	11	15	18	19	20	19	19	19	19	18	17	17	17	16	16	15	14.0	19.8
6-Sep	15	14	13	13	13	12	12	12	13	13	13	14	16	17	19	19	17	15	13	12	11	10	9	9	13.5	18.9
7-Sep	9	7	8	8	8	8	9	10	12	13	14	15	14	14	15	14	14	13	13	12	12	12	11	10	11.4	14.8
8-Sep	10	10	10	9	9	9	10	10	11	12	13	14	15	16	16	17	16	16	15	13	12	10	8	8	12.0	16.9
9-Sep	9	9	8	4	4	5	6	6	7	9	13	14	14	15	15	14	12	11	11	10	10	10	10	10	9.9	15.3
10-Sep	10	9	9	8	9	9	9	10	12	14	15	17	18	18	19	18	18	18	17	14	12	12	11	11	13.2	18.9
11-Sep	11	9	9	8	9	8	8	11	15	17	21	22	24	26	28	29	29	28	26	22	21	20	20	18	18.3	29.4
12-Sep	16	12	11	9	10	11	10	10	14	17	20	23	24	26	28	28	28	27	24	20	19	19	18	16	18.3	28.2
13-Sep	14	13	10	10	10	11	12	11	15	19	22	25	28	30	31	30	30	28	25	22	22	21	20	19	19.9	30.7
14-Sep	16	14	13	11	10	10	9	10	15	17	19	21	22	23	24	24	23	22	21	19	18	17	16	16	17.0	23.6
15-Sep	15	15	14	12	12	11	11	11	13	14	17	18	20	22	23	24	24	23	21	18	16	16	16	16	16.8	24.1
16-Sep	15	14	13	13	12	12	11	12	13	14	17	19	20	21	22	25	25	25	22	20	19	17	17	16	17.2	25.1
17-Sep	15	14	13	12	11	11	10	11	12	13	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	15.1
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	22	23	22	22	22	21	19	18	17	17	17	16	--	22.7
19-Sep	16	16	16	17	15	13	11	11	11	12	12	12	13	16	16	16	16	15	13	11	10	9	8	7	13.1	16.9
20-Sep	8	8	8	7	7	7	7	8	10	12	13	14	15	15	15	15	15	14	12	10	9	8	7	6	10.5	15.0
21-Sep	5	6	6	7	8	7	6	9	11	14	15	14	15	16	16	16	17	16	15	14	14	14	14	12	11.9	16.5
22-Sep	11	12	11	11	11	10	9	9	14	19	21	23	26	27	27	27	27	26	24	21	22	19	15	15	18.3	27.5
23-Sep	16	16	13	11	10	10	8	10	15	18	21	23	26	28	31	30	29	28	25	23	21	18	18	17	19.4	31.2
24-Sep	18	18	18	16	16	14	12	12	12	14	15	16	16	17	18	18	17	16	14	11	9	8	9	9	14.2	18.3
25-Sep	7	6	5	4	4	4	5	6	8	10	11	12	15	16	16	12	11	12	12	11	11	11	10	9	9.5	16.3
26-Sep	9	10	9	9	10	9	8	9	11	11	12	7	9	11	9	11	11	10	9	7	6	5	6	6	8.9	12.0
27-Sep	6	5	5	5	5	4	4	4	7	9	11	12	13	13	14	13	13	12	10	8	8	8	8	8	8.4	13.8
28-Sep	8	7	7	7	7	6	6	6	7	7	8	10	10	11	12	13	11	10	9	8	6	5	5	5	8.0	13.2
29-Sep	4	4	4	4	4	4	4	4	5	5	5	4	4	5	5	4	4	3	2	1	1	1	1	1	3.4	4.7
30-Sep	0	0	1	1	1	1	1	0	2	4	7	8	8	8	9	10	8	8	6	4	4	2	0	P	4.1	9.8
11.3 10.9 10.3 9.7 9.5 9.0 8.7 9.4 11.4 13.3 15.1 16.2 17.8 18.9 19.5 19.6 18.7 18.0 16.4 14.5 13.5 12.7 12.0 11.8																									Diurnal Average	
18.3 18.0 17.7 16.9 15.7 14.6 14.3 15.0 18.0 19.7 21.7 24.9 28.2 30.2 31.2 30.4 29.8 28.4 25.6 22.7 22.2 21.1 20.2 19.0																									Diurnal Maximum	
P - Power Failure																										

Hourly Averages for External Temperature at Beaverlodge

September 2009



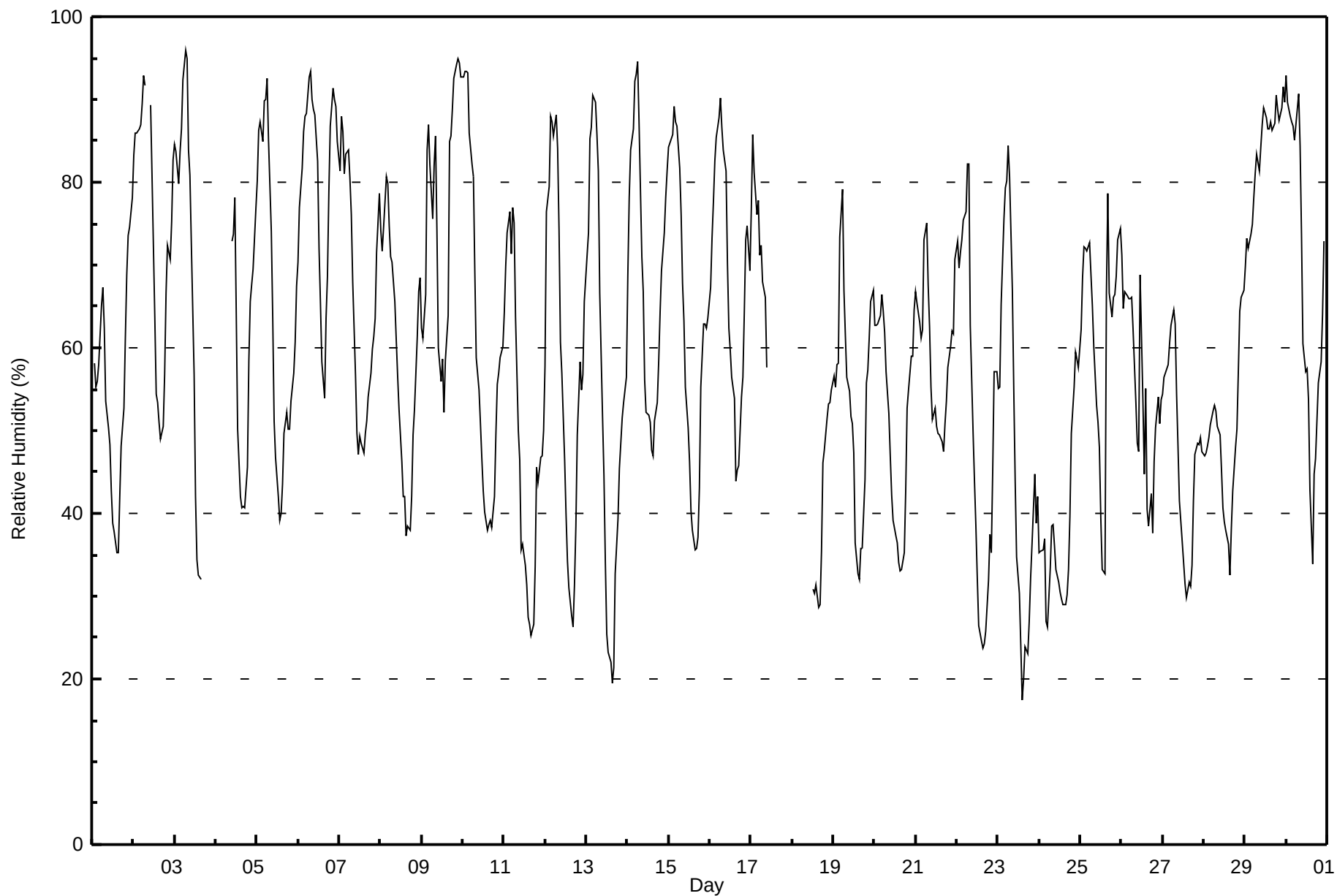
Peace Airshed Zone Association
Summary of Hourly Averages

Beaverlodge - Relative Humidity (RH) - %
September 1, 2009 to October 1, 2009

Maximum Value: 95.9 % on Sep 3 07:00																				Maximum Daily Average: 83.6 % on Sep 29					Hours in Service: 720	
Minimum Value: 18 % on Sep 23 15:00																				Minimum Daily Average: 37.9 % on Sep 24					Hours of Data: 673	
Maximum Diurnal Average: 77.3 % at hour 7																				Minimum Diurnal Average: 39.8 % at hour 16					Hours of Missing Data: 47	
Monthly Average: 60.10 %																				Percentiles: P ₁ = 23.7 P ₁₀ = 34.3 Q ₁ = 46.5 Median = 58.6 Q ₃ = 75.0 P ₉₀ = 86.7 P ₉₉ = 93.3					Hours of Calibration: 0	
																									Percent Operational Time: 93.5	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	P	58	55	56	58	65	67	62	54	50	48	43	39	38	35	35	42	48	53	61	69	74	75	78	54.9	78.2
2-Sep	83	86	86	86	87	89	93	92	P	P	89	81	64	54	53	51	49	51	57	67	72	71	75	83	73.6	93.0
3-Sep	85	84	80	84	86	92	96	95	84	81	73	57	42	34	33	32	P	P	P	P	P	P	P	P	--	95.9
4-Sep	P	P	P	P	P	P	P	P	P	73	74	78	64	50	42	41	41	41	46	58	66	68	70	77	--	78.2
5-Sep	80	86	87	85	90	90	93	85	74	64	51	47	42	39	40	44	50	52	50	50	54	57	61	67	64.1	92.5
6-Sep	70	77	82	86	88	88	93	93	90	89	88	83	72	65	58	54	64	69	79	87	91	90	89	85	80.4	93.3
7-Sep	81	88	86	81	83	84	81	76	68	57	50	47	49	48	47	50	51	54	57	60	61	64	72	79	65.6	88.0
8-Sep	74	72	75	81	80	75	71	70	66	61	57	53	46	42	42	37	38	38	42	49	53	61	67	68	59.1	80.8
9-Sep	62	61	66	84	87	82	76	82	86	74	60	56	59	52	58	64	85	86	89	93	94	95	94	93	76.6	94.9
10-Sep	93	93	93	93	86	82	81	69	59	55	51	47	43	40	38	39	39	38	42	49	56	57	59	60	60.9	93.5
11-Sep	64	70	74	77	71	77	75	64	50	46	36	36	34	31	27	27	25	27	34	46	44	47	47	50	49.1	77.0
12-Sep	58	76	79	88	87	86	88	84	74	61	57	47	40	34	31	28	26	31	39	50	58	55	57	66	58.3	88.1
13-Sep	71	74	85	87	90	90	86	81	67	52	45	34	25	23	22	20	21	33	39	45	48	51	53	56	54.2	90.5
14-Sep	69	78	84	86	92	93	95	87	71	67	56	52	52	51	48	47	51	53	58	64	69	74	78	81	69.1	94.5
15-Sep	84	85	86	89	87	87	82	76	68	63	55	50	46	40	38	36	36	37	43	55	63	63	62	63	62.3	89.1
16-Sep	67	73	78	83	85	88	90	87	84	81	70	62	60	57	54	44	45	46	54	57	64	73	75	69	68.5	90.1
17-Sep	77	86	81	76	78	71	72	68	66	58	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	85.8
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	31	30	31	29	29	35	46	48	51	53	53	55	--	55.0
19-Sep	57	55	58	58	73	79	67	61	56	55	52	51	47	36	33	32	36	36	44	56	57	61	66	67	53.9	79.1
20-Sep	63	63	63	64	66	64	62	57	52	47	42	39	37	36	34	33	33	35	43	53	55	59	59	65	51.0	66.4
21-Sep	67	65	63	61	62	73	75	68	62	55	51	53	51	50	50	49	48	51	54	58	60	62	62	71	59.1	75.0
22-Sep	73	70	72	73	75	76	82	82	63	50	44	39	32	26	25	24	24	26	32	37	35	45	57	57	50.8	82.3
23-Sep	55	55	65	76	79	80	84	81	67	55	44	35	30	24	18	20	24	23	27	32	36	45	39	42	47.3	84.5
24-Sep	35	35	36	37	27	26	33	38	39	36	33	32	31	30	29	29	30	33	40	50	55	60	59	58	37.9	59.5
25-Sep	62	68	72	72	72	73	69	65	60	53	51	48	39	33	33	66	79	67	64	66	66	69	73	74	62.3	78.6
26-Sep	71	65	67	66	66	66	66	62	53	48	47	69	54	45	55	41	38	42	38	46	50	54	51	54	54.8	71.1
27-Sep	54	56	57	58	60	63	65	63	54	48	41	37	34	31	30	32	31	34	42	47	48	48	49	47	47.1	64.5
28-Sep	47	47	48	49	51	52	53	52	50	49	45	41	39	38	36	33	38	43	48	50	57	64	66	67	48.5	66.9
29-Sep	70	73	72	74	75	78	81	83	81	84	87	89	88	86	87	87	86	87	91	89	87	89	92	90	83.6	91.5
30-Sep	93	90	88	87	87	85	89	91	84	74	61	57	57	54	43	34	45	47	51	56	58	64	73	P	68.1	92.9
69.1 71.1 72.8 74.9 76.1 77.0 77.3 74.2 66.0 60.2 55.6 52.1 46.5 42.1 40.3 39.8 43.0 45.1 50.0 56.4 60.0 63.3 65.4 67.5																									Diurnal Average	
92.9 93.4 93.5 93.1 92.2 93.1 95.9 94.9 90.0 88.9 89.3 88.9 87.9 86.4 86.5 87.2 86.3 87.1 90.6 92.6 94.2 94.9 94.3 92.8																									Diurnal Maximum	
P - Power Failure																										

Hourly Averages for Relative Humidity at Beaverlodge

September 2009



Peace Airshed Zone Association
Summary of Hourly Averages

Beaverlodge
September 1, 2009 to October 1, 2009
WS (km/h), WD (deg)

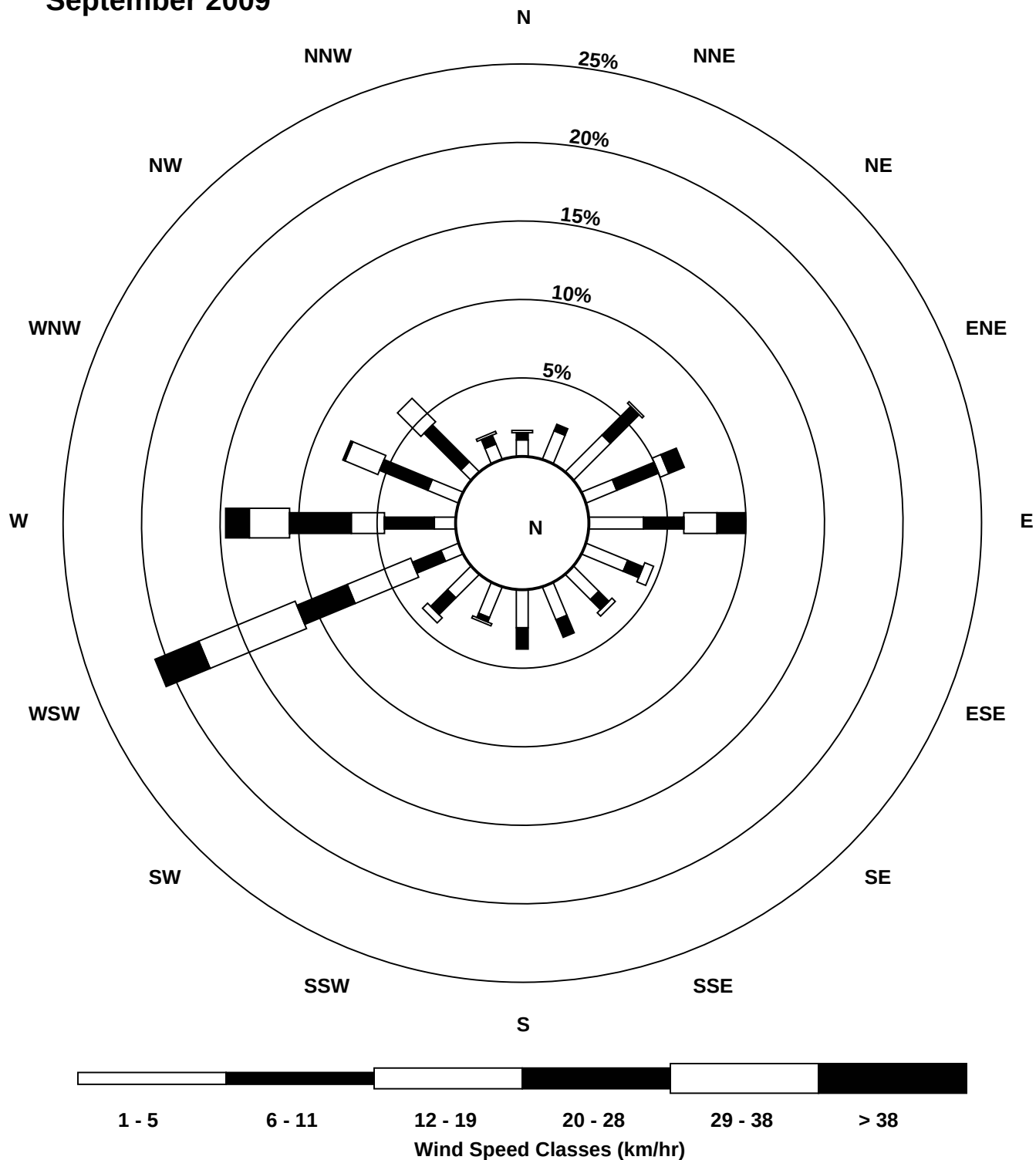
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1 Spd	P	3	6	9	8	4	5	2	2	4	5	1	3	4	4	1	11	8	2	5	3	4	5	3	2.1	10.7
Dir	P	91	53	67	64	47	42	211	195	188	172	122	101	142	89	111	180	190	286	154	72	58	35	355	104.6	180.3
2 Spd	6	4	3	3	9	4	2	9	P	P	8	7	10	10	10	10	9	9	8	6	8	8	9	8	3.6	10.4
Dir	22	70	216	30	296	358	288	307	P	P	308	302	267	272	295	295	326	355	45	65	48	51	78	105	339.0	272.4
3 Spd	7	4	7	5	2	3	0	3	2	5	4	6	20	21	25	25	P	P	P	P	P	P	P	P	--	25.3
Dir	99	88	79	100	164	222	119	290	251	262	248	134	82	85	80	72	P	P	P	P	P	P	P	P	--	71.5
4 Spd	P	P	P	P	P	P	P	P	P	26	23	13	18	28	32	26	28	29	21	11	11	4	1	5	--	31.6
Dir	P	P	P	P	P	P	P	P	P	266	267	267	260	270	267	268	260	263	260	243	257	276	236	58	--	267.1
5 Spd	4	3	4	3	1	1	2	3	5	7	9	15	18	21	18	18	16	20	21	21	23	24	25	24	12.3	24.8
Dir	69	109	48	45	311	69	108	90	47	26	94	102	90	78	77	74	69	64	60	70	68	71	83	82	74.2	82.9
6 Spd	24	18	5	5	9	2	6	8	5	3	7	4	5	2	1	11	16	15	5	3	3	3	8	7	2.6	23.5
Dir	82	87	130	95	67	2	303	287	323	290	258	283	329	321	43	316	342	357	25	142	67	212	253	282	2.9	81.7
7 Spd	6	1	3	9	4	6	12	15	24	34	40	43	49	46	42	44	48	46	41	37	33	32	31	33	27.8	48.8
Dir	270	99	187	213	185	210	221	224	239	247	248	249	247	246	250	244	243	242	241	239	243	247	249	250	243.3	246.9
8 Spd	31	32	31	31	32	32	32	31	32	32	33	38	43	44	44	43	38	40	30	20	18	6	3	3	29.5	44.5
Dir	257	255	254	252	253	253	256	254	253	256	252	253	255	256	265	258	256	259	262	263	271	264	198	36	256.4	256.1
9 Spd	5	7	5	6	3	6	3	0	2	5	1	6	2	2	4	5	4	3	5	5	5	3	2	1	1.1	7.2
Dir	289	294	302	149	82	41	42	217	216	41	107	154	264	167	169	163	200	130	66	194	154	163	226	215	162.0	293.9
10 Spd	4	5	6	2	8	9	5	5	7	15	20	20	19	21	21	25	22	21	14	12	3	3	1	2	10.9	25.4
Dir	231	230	228	211	240	232	210	222	224	251	259	248	253	269	257	250	261	259	254	271	241	260	184	226	251.1	249.9
11 Spd	1	3	3	4	3	4	3	3	3	3	3	6	6	6	3	3	3	7	8	7	9	10	10	5	3.4	9.7
Dir	219	123	119	89	134	147	45	84	158	207	161	165	176	162	180	212	175	98	121	69	75	73	77	88	116.2	77.0
12 Spd	0	1	1	4	5	7	7	1	4	5	7	5	5	5	3	6	8	13	7	6	8	7	2	4	2.2	13.1
Dir	273	357	51	318	347	343	325	312	262	355	293	286	325	272	32	62	60	96	86	79	90	72	343	300	16.7	96.1
13 Spd	5	0	4	1	2	4	2	1	0	3	3	5	2	5	8	13	17	18	11	10	12	7	10	3	4.7	18.1
Dir	41	333	28	168	70	46	23	57	260	181	258	274	183	93	71	92	87	92	80	60	41	44	80	89	73.5	92.2
14 Spd	2	3	2	3	3	2	2	4	1	6	7	7	8	9	12	14	13	11	8	8	6	8	7	8	5.8	13.9
Dir	13	10	139	294	14	358	347	331	228	298	317	313	300	306	303	305	317	330	343	353	323	320	312	302	318.2	304.5
15 Spd	6	8	10	10	14	15	14	4	8	12	13	11	8	4	5	5	5	7	3	4	7	9	10	11	5.7	14.9
Dir	308	321	321	303	308	305	314	282	317	307	308	302	310	323	32	19	29	85	90	46	46	50	59	56	335.9	304.5
16 Spd	9	7	5	11	8	6	5	4	4	8	9	13	10	8	5	2	9	7	10	12	6	21	13	12	2.4	20.7
Dir	52	44	6	35	47	128	128	94	185	127	130	144	165	169	182	56	87	64	69	81	290	304	309	291	80.2	303.5
17 Spd	13	7	9	6	4	11	3	12	10	17	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	17.1
Dir	283	282	264	270	274	255	238	245	240	248	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	248.4
18 Spd	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	10.9
Dir	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	127.3
19 Spd	11	4	11	14	15	17	19	23	26	20	19	27	32	36	42	41	32	32	17	15	19	15	14	7	19.0	41.8
Dir	112	122	330	300	302	269	245	236	240	243	247	247	244	246	252	265	253	256	238	246	253	249	249	227	252.1	252.0
20 Spd	15	20	17	16	17	19	23	27	31	33	32	31	25	28	35	33	35	33	25	15	12	5	7	2	21.9	35.3
Dir	243	244	257	263	260	258	260	261	262	265	272	269	269	256	253	255	263	261	252	241	237	212	214	145	257.4	263.1
21 Spd	3	4	5	5	5	2	6	9	23	39	40	33	36	38	36	35	33	28	21	10	10	6	7	3	15.9	40.4
Dir	95	91	89	87	125	48	300	247	246	255	250	244	251	247	249	255	253	255	268	279	257	283	265	118	252.3	250.2
22 Spd	5	6	3	2	1	2	4	3	3	4	6	12	22	43	41	40	36	30	10	3	5	4	1	3	8.3	43.2
Dir	87	79	119	129	84	147	159	104	106	145	177	204	240	254	256	258	257	261	272	40	342	22	111	69	249.6	254.3

Peace Airshed Zone Association
Summary of Hourly Averages

Beaverlodge
 September 1, 2009 to October 1, 2009
 WS (km/h), WD (deg)

Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24							
23 Spd	5	4	2	1	1	2	1	2	2	1	4	5	6	6	6	12	14	8	4	5	5	6	4	5	3.0	14.1					
Dir	54	40	195	283	257	38	63	12	36	190	188	166	167	157	128	129	117	117	125	74	120	94	136	275	122.0	117.1					
24 Spd	15	24	30	42	51	31	35	33	35	36	37	38	39	33	28	30	34	32	19	13	6	5	11	5	27.1	50.5					
Dir	287	277	274	266	260	251	263	257	241	248	254	258	266	264	271	273	260	256	253	245	236	238	247	222	259.7	260.1					
25 Spd	5	4	4	4	3	2	2	4	2	4	3	7	10	10	5	23	14	14	17	19	21	24	14	13	6.6	23.9					
Dir	204	163	123	84	108	107	127	75	165	185	142	181	161	171	216	259	291	252	260	246	245	238	251	257	233.4	238.5					
26 Spd	18	21	18	22	23	23	31	31	33	46	42	41	37	48	39	43	36	27	30	24	20	16	21	19	29.0	47.7					
Dir	250	242	250	251	254	243	244	243	244	255	266	261	258	260	268	264	276	275	263	252	252	250	254	258	257.0	260.0					
27 Spd	23	20	22	23	19	17	11	4	9	12	11	9	7	10	12	11	8	4	3	8	8	12	15	17	6.7	23.0					
Dir	263	262	265	266	269	270	267	286	262	254	285	289	281	243	235	216	230	193	73	53	84	104	107	100	255.6	263.1					
28 Spd	20	24	24	26	27	20	16	17	15	12	13	17	17	11	8	8	10	9	7	7	6	13	10	9	11.6	26.8					
Dir	98	96	98	93	92	89	80	80	80	77	86	90	100	96	91	86	54	47	39	33	324	317	324	322	79.1	92.2					
29 Spd	4	6	5	3	12	8	6	6	11	10	12	13	12	12	12	15	15	15	14	16	16	13	10	10	9.9	15.8					
Dir	26	257	333	49	308	319	7	311	305	283	291	283	298	285	292	295	317	312	302	311	304	302	274	277	301.6	304.0					
30 Spd	9	9	11	12	11	8	7	5	5	5	8	13	13	16	24	29	24	24	17	8	6	4	3	P	11.3	28.7					
Dir	268	276	268	265	266	268	242	252	245	294	279	250	270	275	265	255	264	266	268	285	266	232	113	P	264.5	255.1					
Spd	1.9	2.5	3.6	3.9	5.0	5.0	5.5	6.4	8.5	11.4	11.4	11.2	11.1	12.7	12.1	13.0	12.0	9.9	6.6	3.3	3.2	2.3	1.7	1.3	Diurnal Average						
Dir	272.5	256.8	268.5	266.4	272.0	263.0	262.2	254.1	248.4	256.3	258.5	249.7	250.5	251.9	258.1	260.1	262.8	263.1	265.2	261.5	266.8	278.0	251.3	267.2	Diurnal Maximum						
Spd	31.2	31.8	30.7	42.2	50.5	32.2	35.0	33.4	35.0	45.8	41.7	43.0	48.8	47.7	43.7	43.6	48.4	46.2	40.6	36.8	32.6	32.5	31.4	32.5	Diurnal Maximum						
Dir	256.9	254.8	254.1	265.8	260.1	252.9	263.2	257.0	241.4	255.4	266.4	249.1	246.9	260.0	264.6	243.5	243.1	242.3	240.6	238.6	242.5	247.3	249.3	250.1							
Maximum Speed Value: 51 km/h on Sep 24 05:00																		Minimum Speed Value: 0 km/h on Sep 13 02:00													
Maximum Daily Speed Average: 29.5 km/h on Sep 8																		Minimum Daily Speed Average: 1.1 km/h on Sep 9													
Maximum Diurnal Speed Average: 13.0 km/h at hour 16																		Minimum Diurnal Speed Average: 1.3 km/h at hour 24													
Monthly Average Velocity: 6.89 km/h 258.62 deg																		Speed Percentiles: P ₁ = 0.5 P ₁₀ = 2.7 Q ₁ = 4.5 Median = 8.5 Q ₃ = 18.4 P ₉₀ = 32.2 P ₉₉ = 45.7													
All monthly, daily, and diurnal averages have been calculated using vector methods																		Percent Operational Time: 93.5													
P - Power Failure																															
Frequency Distribution																															
		Speed Range (km/h)																													
Direction		0 to 5	5 to 11	11 to 19	19 to 28	28 to 38	> 38	Total																							
North		13	10	2	0	0	0	25																							
NorthEast		31	34	1	2	0	0	68																							
East		39	30	23	17	0	0	109																							
SouthEast		26	17	3	0	0	0	46																							
South		30	17	0	0	0	0	47																							
SouthWest		23	22	15	13	12	6	91																							
West		23	36	41	38	50	25	213																							
NorthWest		13	36	24	1	0	0	74																							
Total		198	202	109	71	62	31	673																							

Wind Rose for WS at Beaverlodge September 2009



Peace Airshed Zone Association
Summary of Hourly Averages - Wind Speed (Scalar)

Beaverlodge - Wind Speed (WS) - km/h
September 1, 2009 to October 1, 2009

Maximum Speed: 51 km/h on Sep 24 05:00																				Maximum Daily Speed Average: 30.1 km/h on Sep 8										Hours in Service: 720	
Minimum Speed: 2 km/h on Sep 13 04:00																				Minimum Daily Speed Average: 4.7 km/h on Sep 9										Hours of Data: 673	
Maximum Diurnal Speed Average: 20.8 km/h at hour 16																				Minimum Diurnal Speed Average: 9.2 km/h at hour 24										Hours of Missing Data: 47	
Monthly Average Speed: 13.53 km/h																				Percentiles: P ₁ = 2.1 P ₁₀ = 3.7 Q ₁ = 5.3 Median = 9.0 Q ₃ = 18.6 P ₉₀ = 32.2 P ₉₉ = 45.8										Percent Operational Time: 93.5	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24							
1-Sep	P	5	6	9	8	5	7	3	2	5	6	4	4	6	5	5	11	8	4	5	4	4	5	4	5.4	11.0					
2-Sep	7	5	4	4	10	6	6	9	P	P	9	8	11	11	11	11	10	9	8	6	8	8	9	8	8.1	11.1					
3-Sep	8	5	7	5	5	7	4	4	5	5	5	9	20	22	25	26	P	P	P	P	P	P	P	P	--	25.7					
4-Sep	P	P	P	P	P	P	P	P	P	26	23	13	19	28	32	27	28	30	21	11	11	6	5	5	--	31.9					
5-Sep	4	3	5	4	3	3	3	3	5	7	11	15	19	21	18	18	16	20	21	21	23	24	25	24	13.1	24.9					
6-Sep	24	18	7	6	9	7	6	8	5	4	7	4	5	4	4	14	17	15	7	5	4	4	9	7	8.4	23.6					
7-Sep	7	2	4	9	5	6	12	15	25	34	40	43	49	46	42	44	48	46	41	37	33	33	31	33	28.5	49.0					
8-Sep	31	32	31	31	32	32	32	31	33	32	33	38	43	45	44	43	38	40	30	20	18	8	3	3	30.1	44.8					
9-Sep	6	7	7	6	4	6	3	2	2	6	4	7	3	3	6	7	5	4	6	5	5	3	2	2	4.7	7.2					
10-Sep	4	5	6	2	8	9	5	5	8	15	20	21	20	22	22	26	22	21	14	12	4	4	3	4	11.7	25.7					
11-Sep	5	3	3	5	4	5	4	4	3	4	3	6	6	6	5	6	5	7	8	7	9	10	10	5	5.6	9.7					
12-Sep	3	3	2	6	7	8	8	4	5	7	7	6	6	6	6	7	8	14	7	7	9	7	4	5	6.3	13.6					
13-Sep	6	3	6	2	2	4	3	2	3	4	4	5	4	7	10	14	17	18	11	10	12	7	10	6	7.2	18.2					
14-Sep	3	4	2	4	4	3	5	6	2	7	7	8	9	10	12	14	13	11	8	8	7	8	8	8	7.2	14.3					
15-Sep	6	8	10	11	14	15	14	5	8	12	13	12	9	5	6	6	6	7	4	4	7	9	10	11	8.9	15.0					
16-Sep	9	7	6	11	8	6	6	5	4	9	10	14	11	9	5	4	10	8	10	13	16	21	13	12	9.4	20.8					
17-Sep	14	8	9	7	6	11	4	12	11	17	P	P	P	P	P	P	P	P	P	P	P	P	P	P	--	17.3					
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	12	10	5	8	7	6	6	8	10	11	9	10	--	11.6					
19-Sep	11	7	12	15	15	17	20	23	26	20	19	27	32	36	42	41	33	32	17	15	19	15	14	7	21.5	42.1					
20-Sep	15	21	17	16	17	19	23	27	31	34	32	32	26	29	35	34	36	33	25	15	13	6	7	4	22.8	35.5					
21-Sep	3	4	5	5	5	3	6	11	24	39	41	33	36	38	36	35	34	28	22	10	10	6	7	5	18.6	40.6					
22-Sep	5	6	4	2	2	3	5	3	3	4	6	12	23	43	41	40	36	30	12	4	6	5	3	3	12.7	43.4					
23-Sep	5	5	3	4	2	3	2	4	3	2	4	5	6	7	7	13	14	9	6	5	5	6	4	5	5.4	14.4					
24-Sep	15	24	30	42	51	32	35	34	35	36	37	38	39	34	28	31	35	32	20	13	7	5	11	5	27.9	50.7					
25-Sep	6	4	4	5	3	3	3	4	3	5	4	7	10	11	6	24	15	14	17	19	21	24	15	13	10.0	24.4					
26-Sep	18	21	18	22	23	23	31	31	34	46	42	41	37	48	39	43	37	29	31	24	20	16	21	19	29.7	48.0					
27-Sep	23	20	22	23	19	17	11	4	9	13	12	10	9	11	13	12	9	5	4	8	8	12	15	17	12.8	23.0					
28-Sep	20	24	25	26	27	20	16	17	16	12	14	17	18	12	9	9	10	10	8	7	9	13	10	9	14.9	26.9					
29-Sep	5	6	6	4	12	8	7	7	11	11	13	13	12	12	12	15	15	15	14	16	16	13	10	10	11.0	15.8					
30-Sep	9	9	11	12	11	8	7	6	5	5	8	14	14	17	24	29	24	24	17	8	7	5	4	P	12.1	29.1					
10.1 9.6 9.7 10.7 11.3 10.3 10.3 10.4 11.9 15.0 15.6 16.5 17.6 19.3 19.1 20.8 19.9 18.7 14.2 11.5 11.4 10.5 10.0 9.2																									Diurnal Average						
31.3 31.9 30.7 42.5 50.7 32.3 35.2 33.8 35.2 46.1 41.9 43.2 49.0 48.0 43.9 43.8 48.5 46.3 40.6 36.9 32.6 32.6 31.5 32.6																									Diurnal Maximum						
P - Power Failure																															
All monthly, daily, and diurnal averages have been calculated using scalar methods																															

Peace Airshed Zone Association
Summary of Hourly Standard Deviations

Beaverlodge - Wind Direction (WD) - deg
September 1, 2009 to October 1, 2009

Maximum Value: 93.8 deg on Sep 3 07:00																				Hours in Service: 720					
Minimum Value: 2.5 deg on Sep 27 01:00																				Hours of Data: 673					
																				Hours of Missing Data: 47					
Percentiles: P ₁ = 2.7 P ₁₀ = 4.4 Q ₁ = 6.7 Median = 14.9 Q ₃ = 35.1 P ₉₀ = 58.4 P ₉₉ = 89.4																				Hours of Calibration: 0					
																				Percent Operational Time: 93.5					
Day	Hourly Period Ending At (MST)																								Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Sep	P	66	27	18	19	57	74	26	46	23	30	85	68	62	59	79	18	38	61	27	38	17	7	43	85.1
2-Sep	29	29	48	54	35	50	61	12	P	P	24	24	24	25	19	24	24	24	11	14	7	9	10	19	61.1
3-Sep	18	55	16	12	61	71	94	42	82	26	42	60	10	10	9	10	P	P	P	P	P	P	P	P	93.8
4-Sep	P	P	P	P	P	P	P	P	P	5	5	11	11	11	8	10	8	5	5	7	8	65	82	31	82.0
5-Sep	12	31	24	52	66	71	58	26	18	11	38	13	13	10	8	8	11	5	4	6	4	4	5	3	71.1
6-Sep	3	6	45	50	9	77	9	11	24	51	13	35	32	66	85	39	13	12	51	56	59	78	23	12	85.4
7-Sep	35	57	16	17	33	16	4	4	5	6	6	5	5	4	6	5	4	4	3	3	3	4	3	4	56.8
8-Sep	3	4	4	3	4	4	4	3	4	5	5	6	7	6	6	7	6	6	5	5	8	45	30	47	46.7
9-Sep	40	7	63	26	29	8	43	92	18	52	75	30	81	53	49	40	18	43	38	14	10	21	35	54	92.2
10-Sep	20	28	10	57	6	9	22	17	25	11	10	11	16	15	13	9	11	8	5	8	33	84	74	69	83.5
11-Sep	82	28	24	24	41	56	50	38	19	42	43	25	28	30	57	68	64	25	19	10	6	5	4	33	81.7
12-Sep	94	82	76	62	48	26	57	85	37	41	18	41	37	51	65	39	25	16	5	12	17	20	62	55	93.5
13-Sep	20	92	62	57	57	33	55	92	90	43	42	22	71	63	61	25	9	4	5	8	9	28	10	93	92.5
14-Sep	59	54	44	46	54	54	79	53	80	25	30	27	28	28	14	13	11	11	18	8	24	13	17	6	79.8
15-Sep	11	10	5	17	3	5	5	48	13	13	13	15	30	45	48	37	31	16	48	34	10	4	5	7	48.2
16-Sep	6	17	60	4	34	10	19	33	23	19	22	19	23	25	22	77	22	21	8	8	86	6	7	13	85.9
17-Sep	14	21	12	27	88	12	61	9	17	8	P	P	P	P	P	P	P	P	P	P	P	P	P	P	87.6
18-Sep	P	P	P	P	P	P	P	P	P	P	P	P	24	40	18	27	21	24	12	8	11	4	14	12	40.1
19-Sep	8	61	23	19	10	7	18	4	6	4	5	4	8	8	8	8	6	8	6	5	4	8	5	28	61.1
20-Sep	4	4	8	4	5	3	4	3	4	5	7	9	14	13	7	9	7	5	8	5	20	55	11	56	55.6
21-Sep	22	22	14	15	15	51	13	58	57	4	5	6	6	7	7	5	8	6	13	10	6	13	21	46	58.3
22-Sep	12	24	41	55	58	42	31	21	19	26	26	13	23	6	5	5	4	4	48	60	31	48	71	18	70.6
23-Sep	15	81	54	78	79	84	65	59	69	56	30	19	24	23	26	17	10	26	49	30	16	15	33	55	84.4
24-Sep	6	5	5	7	4	5	7	8	6	6	9	7	8	11	12	9	8	5	8	4	55	35	6	27	54.6
25-Sep	15	14	25	27	26	46	48	26	52	20	23	17	12	10	27	23	20	7	14	6	6	4	33	13	51.7
26-Sep	4	5	8	4	4	7	3	3	5	7	6	7	10	6	7	5	27	36	7	4	4	4	3	4	36.0
27-Sep	3	3	3	3	3	3	7	50	10	13	15	31	42	35	33	22	27	46	49	8	9	7	3	3	49.7
28-Sep	4	5	4	3	3	5	4	5	6	9	11	14	14	22	21	37	11	8	7	6	46	6	5	4	46.2
29-Sep	35	24	38	46	13	34	25	24	7	18	17	10	11	11	7	8	7	6	6	5	5	5	9	6	45.6
30-Sep	5	8	9	4	4	11	8	13	19	30	21	21	15	12	13	10	8	6	6	5	25	48	35	P	48.1
93.5 91.7 76.3 78.0 87.6 84.4 93.8 92.2 89.8 56.4 74.9 85.1 80.9 66.5 85.4 79.1 63.6 46.3 60.9 59.9 85.9 83.5 82.0 92.5																									
P - Power Failure																									

PASZA

Portable – Kinuso Station

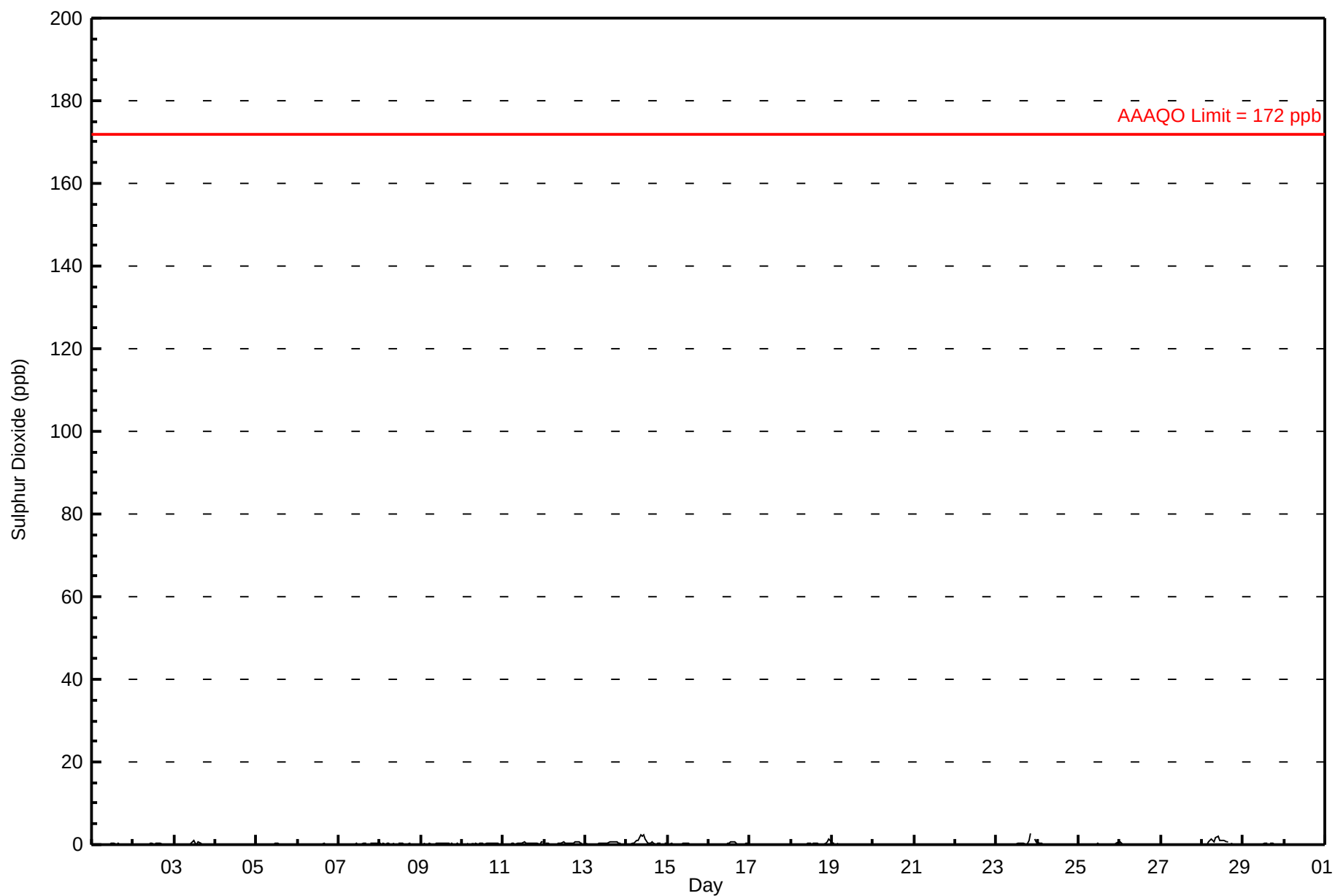
Monthly Summary Tables, Graphs and Roses

Peace Airshed Zone Association
Summary of Hourly Averages

Portable-Kinuso - Sulphur Dioxide (SO₂) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0 Maximum Value: 2.8 ppb on Sep 23 21:00 Maximum Daily Average: 0.6 ppb on Sep 14																				Hours in Service: 720 Hours of Data: 681 Hours of Missing Data: 39 Hours of Calibration: 37 Percent Operational Time: 99.7						
Minimum Value: 0 ppb on Sep 1 03:00 Maximum Diurnal Average: 0.3 ppb at hour 12 Monthly Average: 0.16 ppb										Minimum Daily Average: 0.0 ppb on Sep 22 Minimum Diurnal Average: 0.1 ppb at hour 4 Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.1 Q ₃ = 0.2 P ₉₀ = 0.3 P ₉₉ = 1.2																
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	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	0.3
2-Sep	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	0.4
3-Sep	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	A	A	0	0.2	1.0
4-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.0	0.1
5-Sep	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
6-Sep	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-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.1	0.3
8-Sep	0	0	0	0	0	0	0	0	0	P	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
9-Sep	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	0.2
10-Sep	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	0.2
11-Sep	0	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0.3	0.6
12-Sep	A	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	A	0.3	0.8
13-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	A	0	0.3	0.7
14-Sep	0	0	0	0	0	1	1	1	2	2	2	1	0	0	0	1	0	0	0	0	0	A	0	0	0.6	2.3
15-Sep	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
16-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	A	0	0	0	0	0.2	0.8
17-Sep	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
18-Sep	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.2	1.3
19-Sep	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	0.5
20-Sep	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
21-Sep	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	0.1
22-Sep	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	0.0
23-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	A	1	1	0.4	2.8
24-Sep	1	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	0.5
25-Sep	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	0.5
26-Sep	1	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	0.6
27-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.0	0.1
28-Sep	0	0	0	0	1	1	1	1	2	2	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0.6	1.9
29-Sep	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
30-Sep	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2																								Diurnal Average		
0.6 0.3 0.2 0.3 0.8 1.3 1.1 0.9 2.3 1.9 2.2 1.2 0.9 1.0 0.8 0.7 0.7 0.6 0.8 1.1 2.8 0.6 1.3 0.9																								Diurnal Maximum		
C - Calibration P - Power Failure A - Automated Daily Zero Span																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 57 ppb																										

Hourly Averages for SO₂ at Portable-Kinuso September 2009

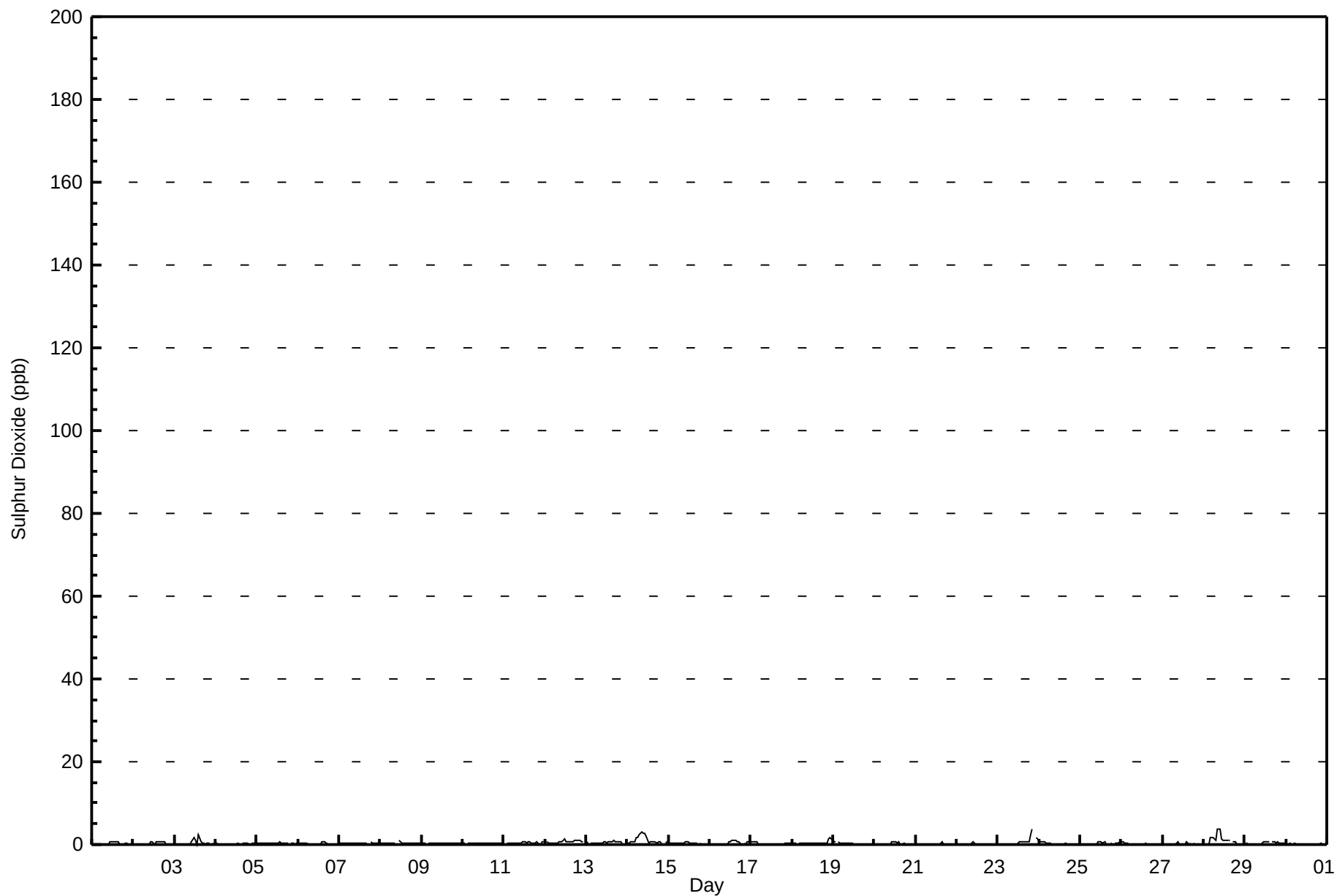


**Peace Airshed Zone Association
Summary of Hourly Maximums**

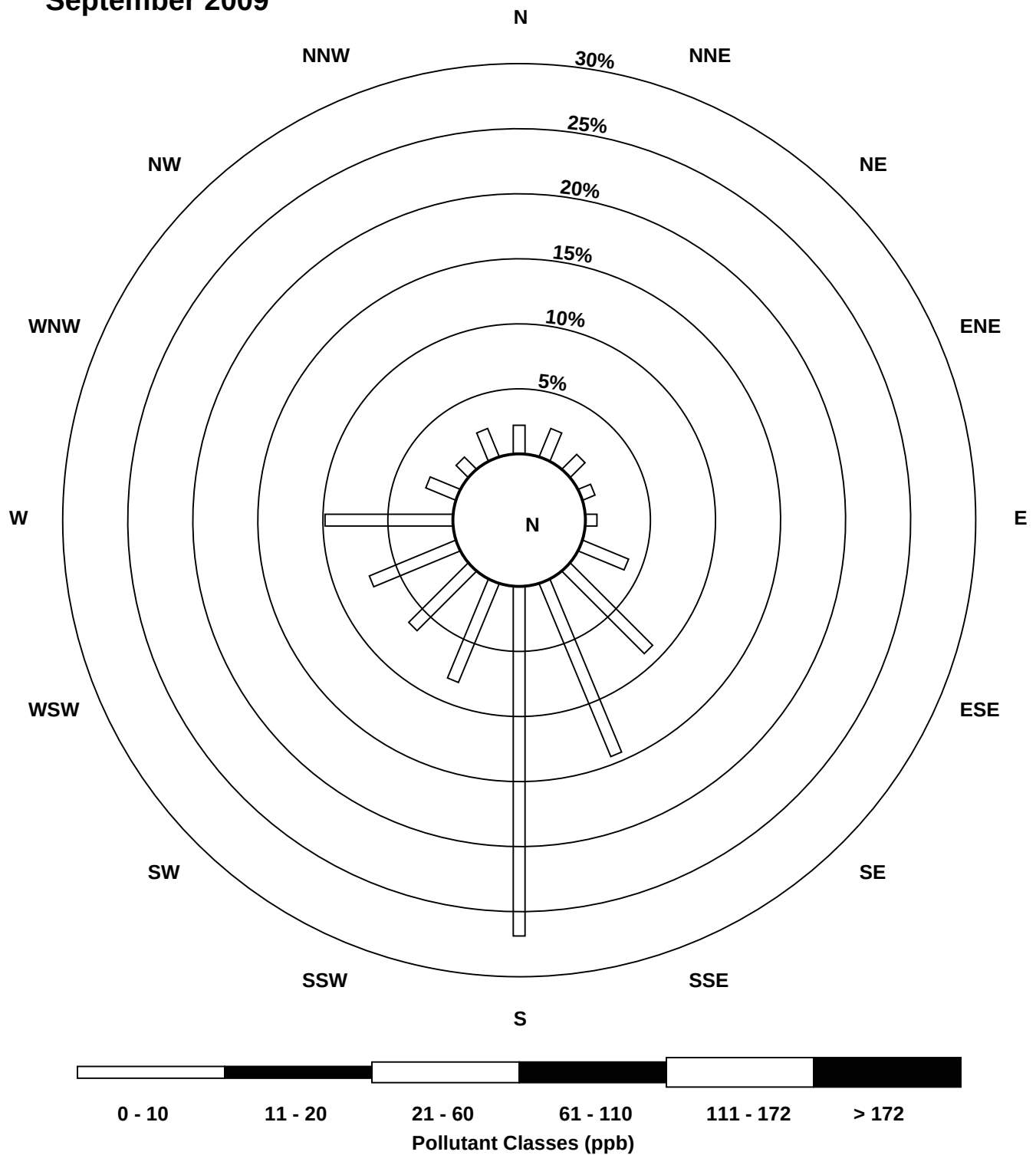
**Portable-Kinuso - Sulphur Dioxide (SO₂) - ppb
September 1, 2009 to October 1, 2009**

Maximum Value: 3.7 ppb on Sep 23 21:00																				Maximum Daily Average: 1.1 ppb on Sep 14					Hours in Service: 720	
Minimum Value: 0 ppb on Sep 22 18:00																				Minimum Daily Average: 0.1 ppb on Sep 22					Hours of Data: 681	
Maximum Diurnal Average: 0.5 ppb at hour 12																				Minimum Diurnal Average: 0.2 ppb at hour 22					Hours of Missing Data: 39	
Monthly Average: 0.34 ppb																				Percentiles: P ₁ = 0.0 P ₁₀ = 0.1 Q ₁ = 0.1 Median = 0.2 Q ₃ = 0.4 P ₉₀ = 0.7 P ₉₉ = 2.2					Hours of Calibration: 37	
																				Percent Operational Time: 99.7						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	A	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	A	0.3	0.7
2-Sep	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	0	0	0	A	0	0.3	0.7
3-Sep	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	1	0	0	0	0	0	A	A	0	0.4	2.3
4-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	0.4
5-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0	0	0	0.2	0.7
6-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	A	0	0	0	0	0	0.2	0.6
7-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	0	0	0	0	0	0.3	0.8
8-Sep	0	0	0	0	0	0	0	0	0	P	P	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
9-Sep	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
10-Sep	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
11-Sep	0	A	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	1	0	0	1	1	0.4	0.8
12-Sep	A	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	1.2
13-Sep	1	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	0	A	0	0.5	1.0
14-Sep	0	0	1	1	1	2	2	2	3	3	3	2	0	1	1	1	1	0	1	1	0	A	0	1	1.1	3.2
15-Sep	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.7
16-Sep	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	A	0	0	1	1	0.4	1.1
17-Sep	1	1	1	1	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
18-Sep	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0.4	1.7
19-Sep	1	1	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
20-Sep	0	A	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0.2	0.6
21-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	A	0.1	0.6
22-Sep	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.1	0.5
23-Sep	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	4	A	2	1	0.6	3.7
24-Sep	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	0.7
25-Sep	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	A	0	0	0	1	0.3	0.7
26-Sep	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.2	0.7
27-Sep	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	A	0	0	0	0	0	0	0.1	0.5
28-Sep	0	0	0	0	2	2	1	1	4	4	1	1	1	1	1	1	A	1	1	0	0	0	0	0	1.0	3.6
29-Sep	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	A	1	1	0	1	0	0	0	0	0.3	0.7
30-Sep	0	0	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
																									Diurnal Average	
																									Diurnal Maximum	
C - Calibration																										
P - Power Failure																										
A - Automated Daily Zero Span																										

Hourly Maximums for SO₂ at Portable-Kinuso September 2009



Pollutant Rose for SO₂ at Portable-Kinuso **September 2009**

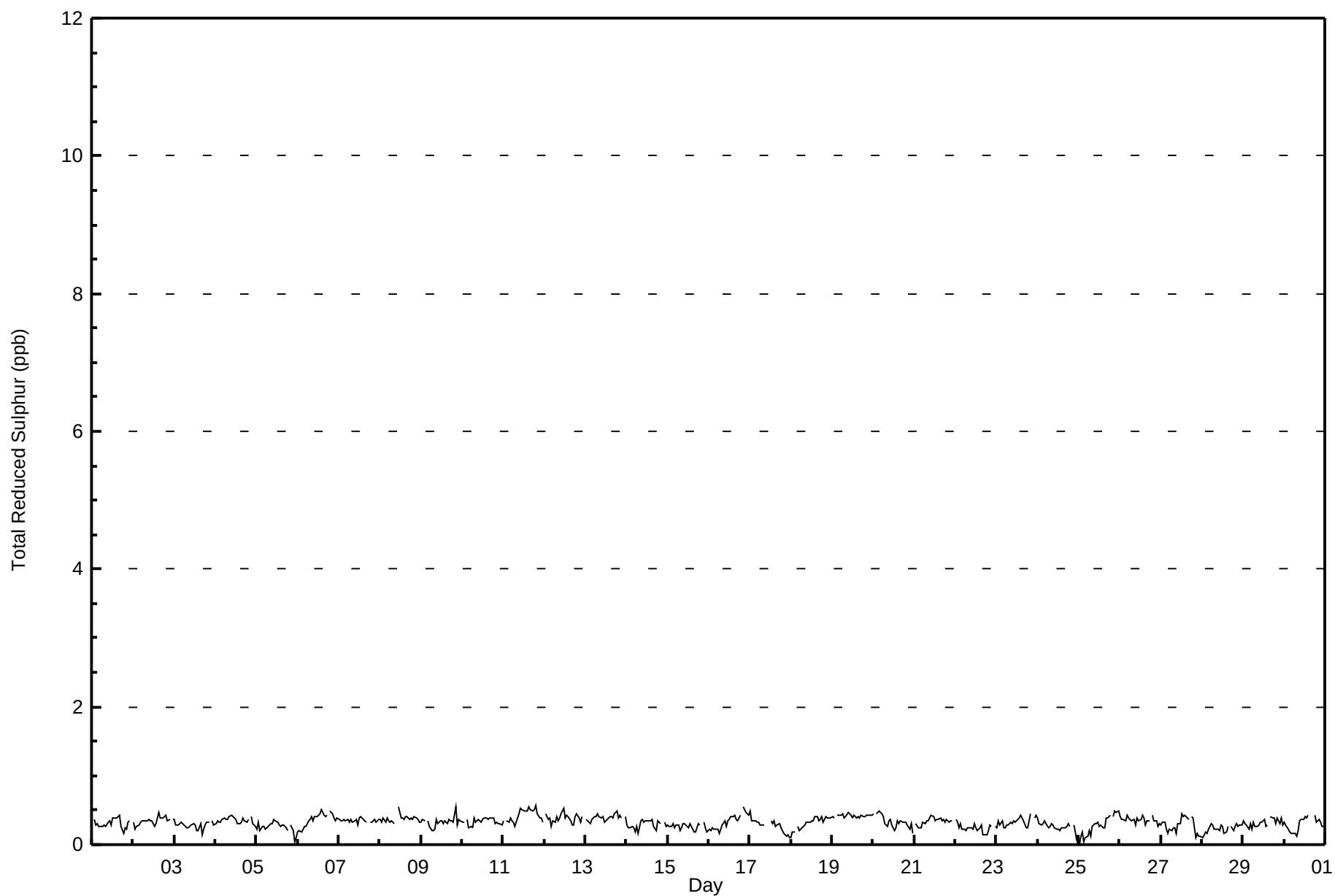


Peace Airshed Zone Association
Summary of Hourly Averages

Portable-Kinuso - Total Reduced Sulphur (TRS) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0																				Hours in Service: 720						
Maximum Value: 0.6 ppb on Sep 11 20:00																				Maximum Daily Average: 0.4 ppb on Sep 11		Hours of Data: 682				
Minimum Value: 0 ppb on Sep 25 01:00																				Minimum Daily Average: 0.2 ppb on Sep 28		Hours of Missing Data: 38				
Maximum Diurnal Average: 0.4 ppb at hour 21																				Minimum Diurnal Average: 0.3 ppb at hour 3		Hours of Calibration: 36				
Monthly Average: 0.32 ppb																				Percentiles: P ₁ = 0.1 P ₁₀ = 0.2 Q ₁ = 0.3 Median = 0.3 Q ₃ = 0.4 P ₉₀ = 0.4 P ₉₉ = 0.5		Percent Operational Time: 99.7				
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	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	0.4
2-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.3	0.5
3-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0.3	0.4
4-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.4	0.4
5-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	0.4
6-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.4	0.5
7-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.3	0.4
8-Sep	0	0	0	0	0	0	0	0	0	P	P	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
9-Sep	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.3	0.5
10-Sep	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
11-Sep	0	A	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	1	1	0	0	0	0	0.4	0.6
12-Sep	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	0.4	0.5
13-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.4	0.5
14-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.4
15-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.3
16-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	0	0	0.3	0.5
17-Sep	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
18-Sep	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
19-Sep	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	0.5
20-Sep	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
21-Sep	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	0.4
22-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0.2	0.4
23-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0.3	0.4
24-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.3	0.4
25-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.3	0.5
26-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.4	0.4
27-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.3	0.4
28-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.2	0.3
29-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.3	0.4
30-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0.3	0.4
																									Diurnal Average	
																									Diurnal Maximum	
C - Calibration P - Power Failure A - Automated Daily Zero Span																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 10 ppb 24-hr 3 ppb																										

Hourly Averages for TRS at Portable-Kinuso September 2009



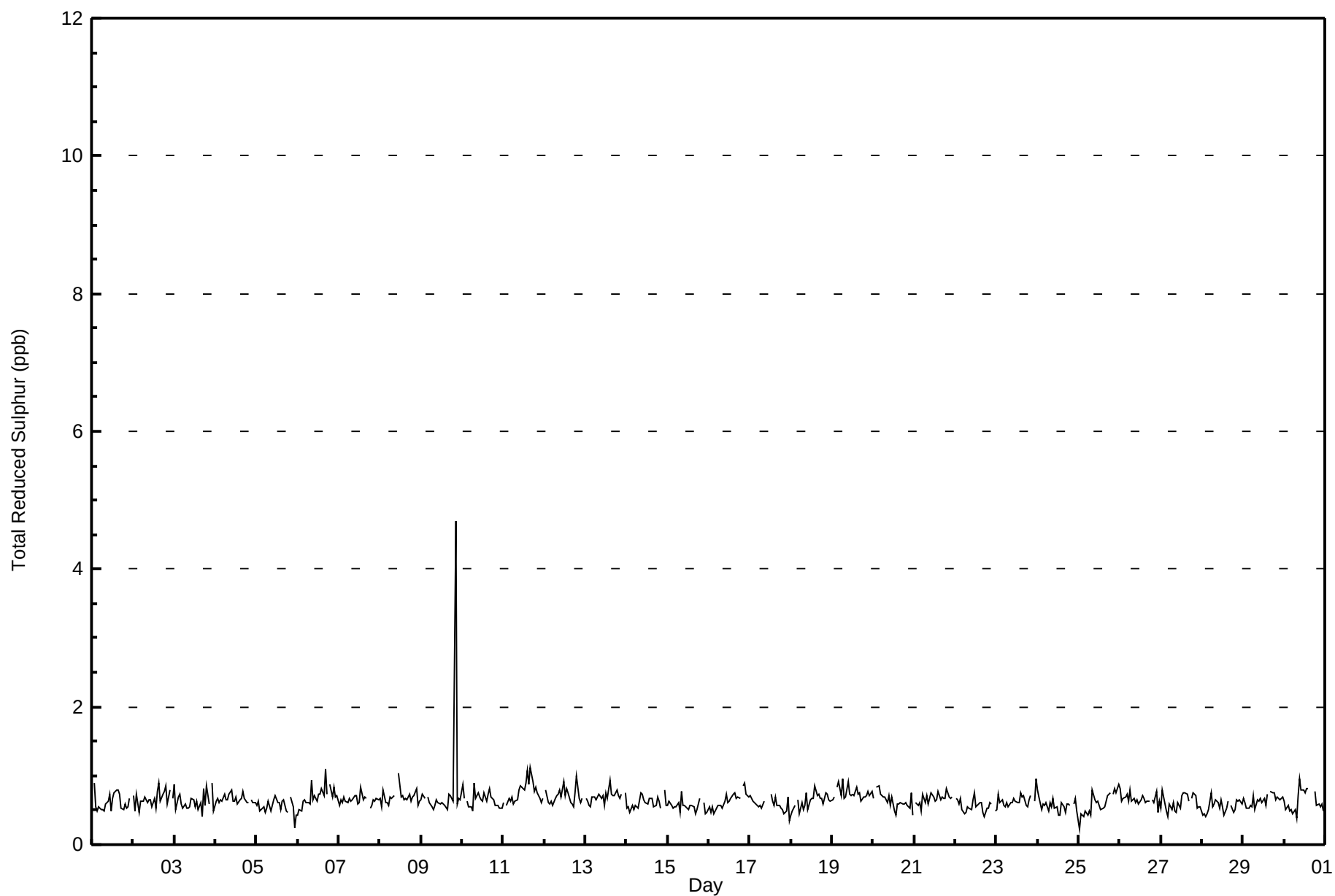
Peace Airshed Zone Association
Summary of Hourly Maximums

Portable-Kinuso - Total Reduced Sulphur (TRS) - ppb
September 1, 2009 to October 1, 2009

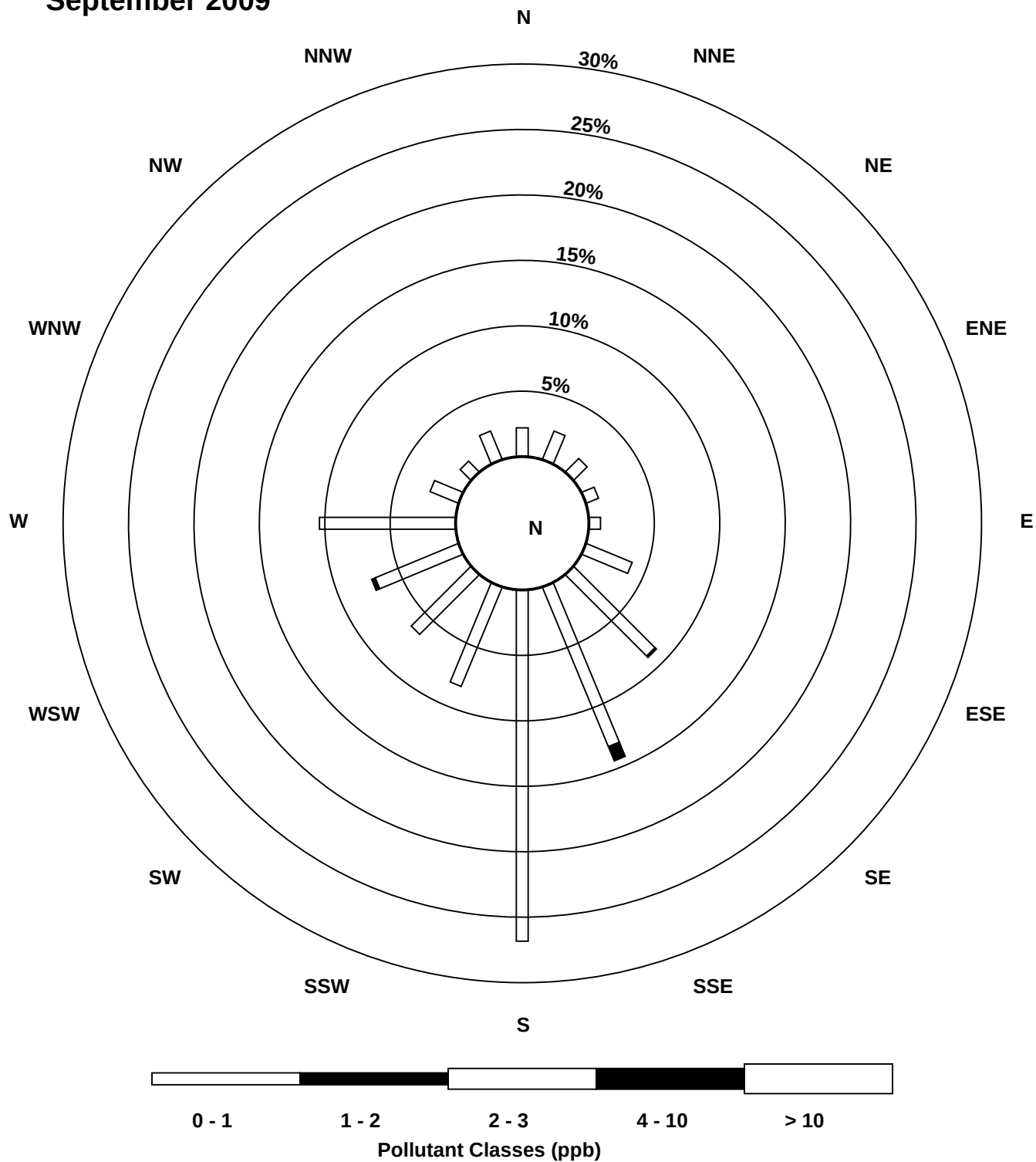
Maximum Value: 4.7 ppb on Sep 9 21:00																			Maximum Daily Average: 0.8 ppb on Sep 9																			Hours in Service: 720	
Minimum Value: 0 ppb on Sep 25 01:00																			Minimum Daily Average: 0.6 ppb on Sep 5																			Hours of Data: 682	
Maximum Diurnal Average: 0.8 ppb at hour 21																			Minimum Diurnal Average: 0.6 ppb at hour 6																			Hours of Missing Data: 38	
Monthly Average: 0.64 ppb																			Percentiles: P ₁ = 0.4 P ₁₀ = 0.5 Q ₁ = 0.6 Median = 0.6 Q ₃ = 0.7 P ₉₀ = 0.8 P ₉₉ = 0.9																			Hours of Calibration: 36	
																																						Percent Operational Time: 99.7	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24															
1-Sep	A	1	1	0	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	A	0.6	0.9													
2-Sep	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	0.9													
3-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	A	1	0	0.6	0.9													
4-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.7	0.8													
5-Sep	1	1	0	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	0	A	1	1	0	0	0.6	0.7													
6-Sep	0	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													
7-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.6	0.8													
8-Sep	1	1	1	1	1	1	1	1	1	P	P	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0													
9-Sep	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	1	1	1	0.8	4.7													
10-Sep	1	1	A	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9													
11-Sep	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.1													
12-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	1.0													
13-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.7	0.9													
14-Sep	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	0.8													
15-Sep	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	A	1	0	0	0.6	0.8													
16-Sep	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.6	0.9													
17-Sep	1	1	1	1	1	1	1	1	1	C	C	C	1	1	1	1	1	1	1	1	0	0	1	0	0.6	0.7													
18-Sep	0	0	1	A	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9													
19-Sep	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9													
20-Sep	1	A	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0.6	0.9													
21-Sep	A	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.7	0.8													
22-Sep	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	A	0	0.6	0.7													
23-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.6	0.9													
24-Sep	1	1	1	1	1	1	0	1	1	1	1	1	0	0	1	1	0	1	1	1	A	1	1	0	0.6	0.8													
25-Sep	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	A	1	1	1	1	0.6	0.9													
26-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0	1	0.7	0.8													
27-Sep	1	1	1	0	0	1	1	1	0	0	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.6	0.8													
28-Sep	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	A	1	0	1	1	1	1	1	0.6	0.8													
29-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.6	0.8													
30-Sep	1	1	1	0	1	0	1	0	1	1	1	1	1	1	1	C	C	C	1	1	1	1	1	0	0.6	0.9													
0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.7 0.7 0.7 0.6 0.7 0.7 0.7 0.6 0.6 0.7 0.8 0.7 0.6 0.6																								Diurnal Average															
0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 1.0 0.8 0.9 1.1 0.9 1.1 0.9 0.8 1.0 4.7 0.9 0.9 0.9																								Diurnal Maximum															
C - Calibration				P - Power Failure				A - Automated Daily Zero Span																															

Hourly Maximums for TRS at Portable-Kinuso

September 2009



Pollutant Rose for TRS at Portable-Kinuso **September 2009**

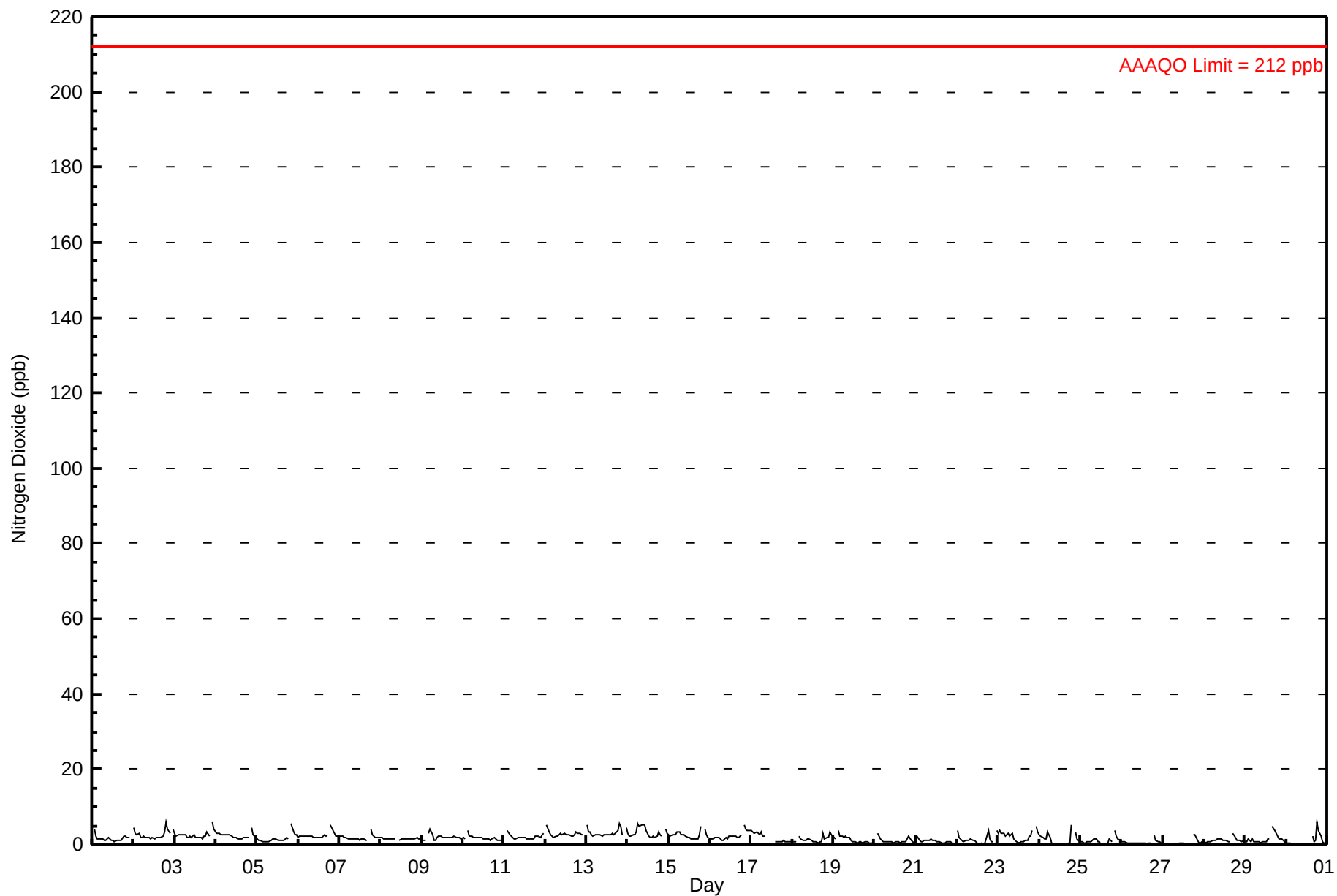


Peace Airshed Zone Association
Summary of Hourly Averages

Portable-Kinuso - Nitrogen Dioxide (NO₂) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0 Maximum Value: 6.0 ppb on Sep 30 19:00 Maximum Daily Average: 3.2 ppb on Sep 14																				Hours in Service: 720 Hours of Data: 676						
Minimum Value: 0 ppb on Sep 25 16:00 Minimum Daily Average: 0.5 ppb on Sep 27 Maximum Diurnal Average: 2.7 ppb at hour 20 Minimum Diurnal Average: 1.2 ppb at hour 15 Monthly Average: 1.74 ppb Percentiles: P ₁ = 0.1 P ₁₀ = 0.4 Q ₁ = 0.9 Median = 1.6 Q ₃ = 2.3 P ₉₀ = 3.1 P ₉₉ = 5.4																				Hours of Missing Data: 44 Hours of Calibration: 42 Percent Operational Time: 99.7						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	A	4	2	2	1	1	2	1	1	2	2	1	1	1	1	1	1	1	2	2	2	2	A	4	1.6	4.0
2-Sep	4	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	6	4	3	A	4	2.6	6.0
3-Sep	3	2	3	3	3	3	3	2	2	2	2	3	2	2	2	2	2	2	2	3	2	A	6	4	2.5	5.9
4-Sep	3	3	3	3	3	3	3	3	2	2	2	2	2	1	1	2	2	2	2	2	A	5	2	2	2.3	4.5
5-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	A	6	3	3	2	1.6	5.6
6-Sep	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	3	A	5	4	3	2	2	2.4	5.2
7-Sep	2	2	2	2	2	2	2	1	1	1	2	1	1	1	1	1	1	A	4	3	2	2	2	2	1.8	3.9
8-Sep	2	2	2	2	1	1	1	1	1	P	P	1	1	2	2	2	2	2	2	2	2	2	2	1	1.5	2.0
9-Sep	1	1	1	A	3	4	3	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1.9	3.9
10-Sep	2	1	A	4	2	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	1	1	1	1	1.7	3.7
11-Sep	1	A	4	3	2	2	2	1	2	2	2	2	2	2	2	2	1	1	2	2	2	2	3	3	2.0	3.6
12-Sep	A	5	3	3	2	2	2	2	3	3	3	3	3	3	3	2	2	2	3	3	3	3	2	A	2.7	5.1
13-Sep	5	4	3	3	2	3	3	2	2	2	3	3	3	3	3	3	3	3	4	6	5	3	A	4	3.2	5.6
14-Sep	3	2	2	2	3	3	6	5	5	5	5	4	2	2	2	2	2	2	3	3	2	A	4	3	3.2	5.6
15-Sep	2	2	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	2	2	5	A	4	3	2	2.5	4.9
16-Sep	2	1	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	3	A	5	4	4	4	2.2	5.3
17-Sep	4	3	3	3	3	3	3	2	2	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	1.8	3.8
18-Sep	1	1	1	A	2	1	1	1	1	2	1	1	1	1	1	0	1	1	3	2	2	2	3	3	1.4	3.2
19-Sep	2	1	A	4	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1.2	3.7
20-Sep	0	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	0	0.9	2.9
21-Sep	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	0	0	A	0.9	2.4
22-Sep	4	2	1	1	1	1	1	1	2	1	1	1	0	0	0	0	0	1	4	2	1	1	A	4	1.3	3.8
23-Sep	3	4	3	3	2	3	3	2	3	1	1	1	0	1	1	1	1	1	2	2	4	A	5	3	2.2	4.9
24-Sep	3	2	2	1	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	5	A	4	1	1	1.2	5.2
25-Sep	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	A	4	2	1	1	0.9	3.6
26-Sep	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	3	1	1	1	0	0.5	2.5
27-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	3	2	1	1	0	1	0.5	2.5
28-Sep	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	A	3	2	1	1	1	1	1	1.1	3.0
29-Sep	1	1	2	1	1	1	1	1	1	0	1	1	1	1	2	A	5	4	3	2	2	1	1	1	1.4	4.7
30-Sep	0	0	0	0	0	0	0	0	C	C	C	C	C	C	C	2	1	1	6	4	2	1	0	1	--	6.0
2.0 2.0 1.9 1.8 1.7 1.8 1.8 1.5 1.6 1.7 1.6 1.4 1.2 1.2 1.2 1.2 1.2 1.3 1.6 2.3 2.7 2.4 2.0 2.0 2.0																								Diurnal Average		
5.1 5.1 3.6 3.7 3.1 3.9 5.6 4.7 5.3 5.4 5.4 3.6 2.7 2.8 2.8 2.9 4.7 3.6 6.0 6.0 5.6 4.5 5.9 4.5																								Diurnal Maximum		
C - Calibration P - Power Failure A - Automated Daily Zero Span																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 212 ppb 24-hr 106 ppb																										

Hourly Averages for NO₂ at Portable-Kinuso September 2009

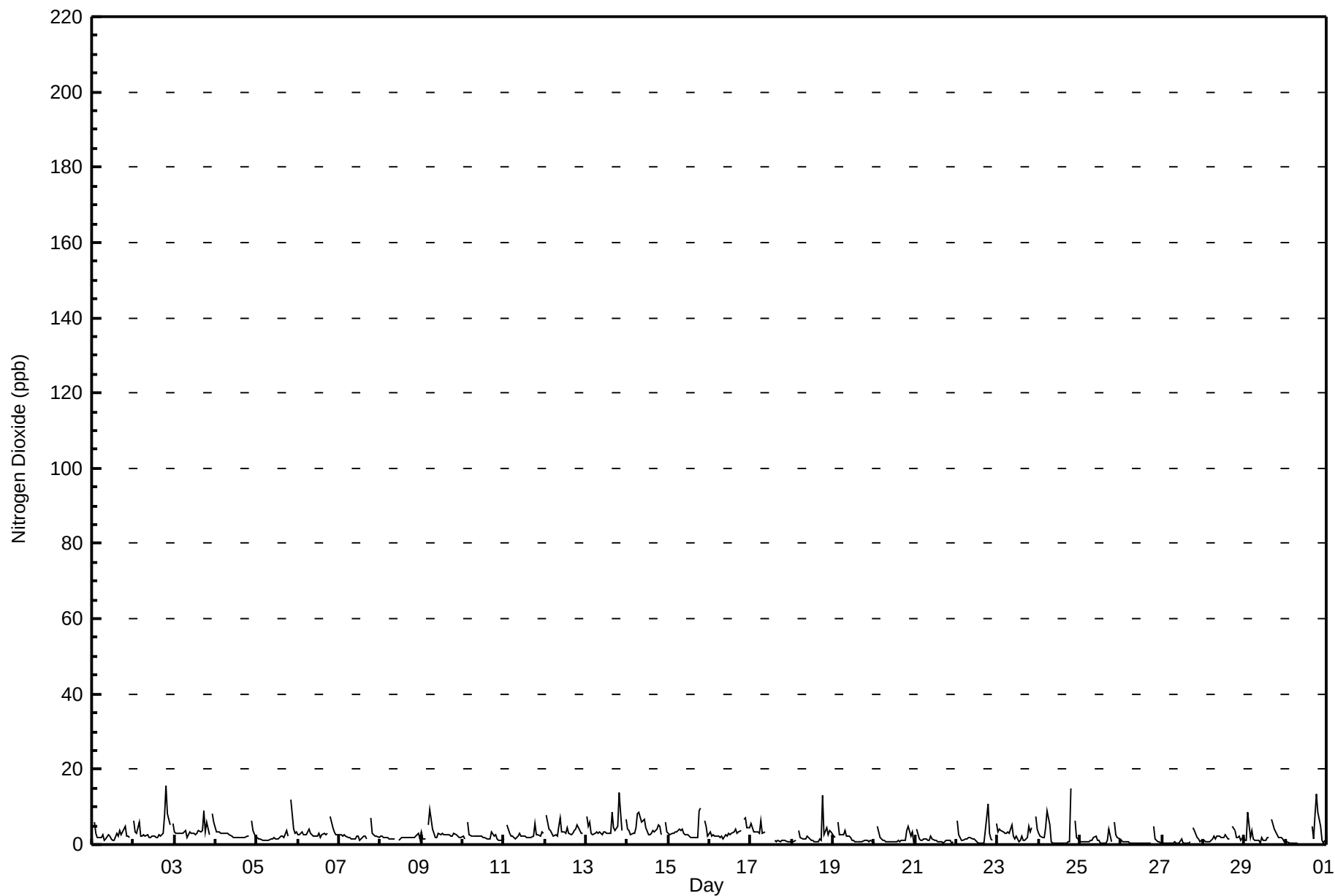


Peace Airshed Zone Association
Summary of Hourly Maximums

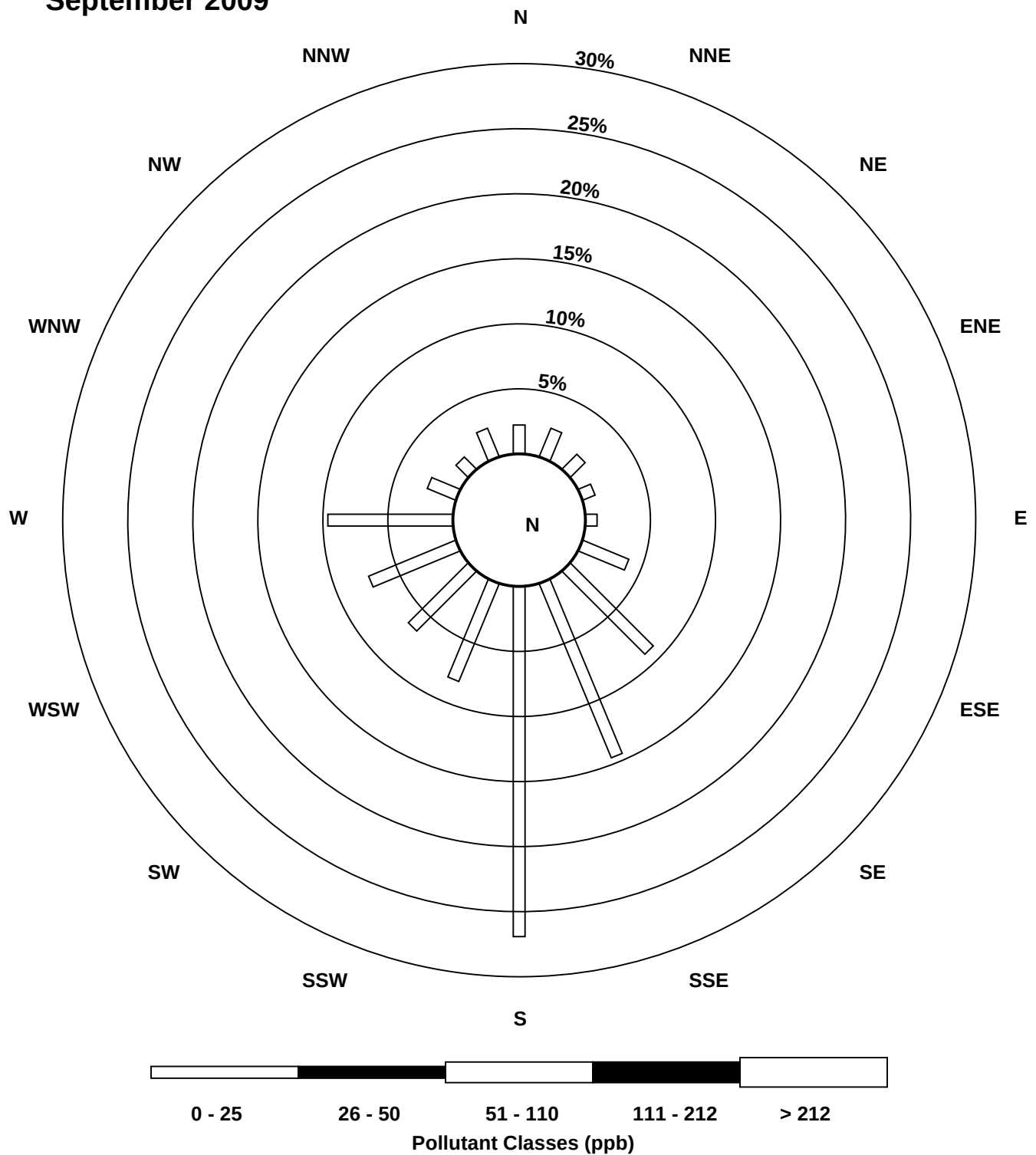
Portable-Kinuso - Nitrogen Dioxide (NO₂) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 15.6 ppb on Sep 2 20:00																				Maximum Daily Average: 4.7 ppb on Sep 13																				Hours in Service: 720	
Minimum Value: 0 ppb on Sep 30 08:00																				Minimum Daily Average: 0.8 ppb on Sep 26																				Hours of Data: 676	
Maximum Diurnal Average: 5.0 ppb at hour 20																				Minimum Diurnal Average: 1.6 ppb at hour 13																				Hours of Missing Data: 44	
Monthly Average: 2.57 ppb																				Percentiles: P ₁ = 0.3 P ₁₀ = 0.6 Q ₁ = 1.2 Median = 2.2 Q ₃ = 3.1 P ₉₀ = 4.7 P ₉₉ = 10.6																				Hours of Calibration: 42	
																																								Percent Operational Time: 99.7	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																	
1-Sep	A	6	3	2	2	2	3	1	2	3	2	2	1	1	3	2	4	3	4	5	2	2	A	A	2.6	6.1															
2-Sep	6	3	3	6	2	2	3	2	3	2	2	2	2	2	2	2	2	3	8	16	8	5	A	6	4.0	15.6															
3-Sep	4	3	3	3	3	3	4	2	3	3	3	3	3	3	4	3	4	9	3	6	3	A	8	6	3.8	8.8															
4-Sep	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	A	7	4	2	2.7	6.5															
5-Sep	2	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	4	2	A	12	4	3	3	2.3	11.9															
6-Sep	2	3	3	2	3	3	4	3	3	2	2	2	3	2	3	3	2	3	A	7	4	3	3	3	3.0	7.5															
7-Sep	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	1	A	7	3	3	2	2	2	2.3	7.1															
8-Sep	2	2	2	2	2	2	2	2	2	P	P	1	2	2	2	2	2	2	2	2	2	3	3	2	1.9	3.1															
9-Sep	3	1	1	A	5	9	4	3	2	2	3	3	3	3	3	3	3	2	2	3	3	2	2	2	2.9	9.2															
10-Sep	2	2	A	6	3	2	2	2	2	2	2	2	2	2	2	2	1	3	2	2	1	1	1	1	2.1	5.9															
11-Sep	1	A	5	3	2	2	2	1	2	3	2	2	2	2	2	2	2	2	6	3	3	2	3	3	2.6	5.6															
12-Sep	A	8	4	4	3	2	2	2	5	7	3	3	3	4	3	3	3	4	4	5	4	3	3	A	3.7	7.9															
13-Sep	7	5	6	3	3	3	3	3	3	3	3	3	3	3	3	8	5	4	5	14	9	4	A	7	4.7	13.9															
14-Sep	4	4	3	3	3	5	8	9	6	6	7	5	3	3	3	4	3	4	5	5	3	A	6	3	4.5	8.7															
15-Sep	3	3	3	3	3	3	4	4	4	3	3	2	2	2	2	2	2	2	9	10	A	6	5	2	3.5	9.6															
16-Sep	3	2	2	2	2	2	2	2	2	3	2	3	3	3	3	4	3	3	4	A	7	7	4	4	3.2	7.1															
17-Sep	6	5	3	3	3	3	6	3	3	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	2.4	6.3															
18-Sep	1	1	1	A	4	2	2	1	1	2	2	1	1	1	1	1	2	1	13	3	4	3	4	3	2.3	13.0															
19-Sep	2	2	A	6	3	3	2	4	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.7	6.1															
20-Sep	0	A	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	5	2	3	1	1.6	5.0															
21-Sep	A	4	2	1	1	2	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1.2	4.1															
22-Sep	6	3	2	1	1	1	1	2	2	2	1	1	1	0	0	0	0	4	11	3	1	1	A	6	2.2	10.9															
23-Sep	4	4	4	4	3	3	3	3	5	2	1	2	1	1	2	1	1	2	5	3	5	A	7	4	3.0	7.4															
24-Sep	3	2	2	2	4	9	5	1	0	0	0	0	0	0	0	0	0	1	1	15	A	6	2	1	2.5	15.0															
25-Sep	1	1	1	1	1	1	1	1	2	2	1	1	0	0	0	0	1	4	1	A	6	3	2	1	1.4	6.0															
26-Sep	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	A	5	1	1	1	1	0.8	4.9															
27-Sep	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	A	4	4	2	1	1	1	0.9	4.4															
28-Sep	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	A	5	4	2	2	2	1	2	1.9	4.9															
29-Sep	1	1	8	2	4	1	1	1	1	1	2	1	1	2	2	A	7	4	3	2	2	2	1	1	2.2	8.5															
30-Sep	1	1	1	0	0	0	0	0	C	C	C	C	C	C	C	5	1	8	14	9	5	1	1	1	--	13.5															
																									Diurnal Average																
																									Diurnal Maximum																
C - Calibration																									P - Power Failure		A - Automated Daily Zero Span														

Hourly Maximums for NO₂ at Portable-Kinuso September 2009



Pollutant Rose for NO₂ at Portable-Kinuso **September 2009**



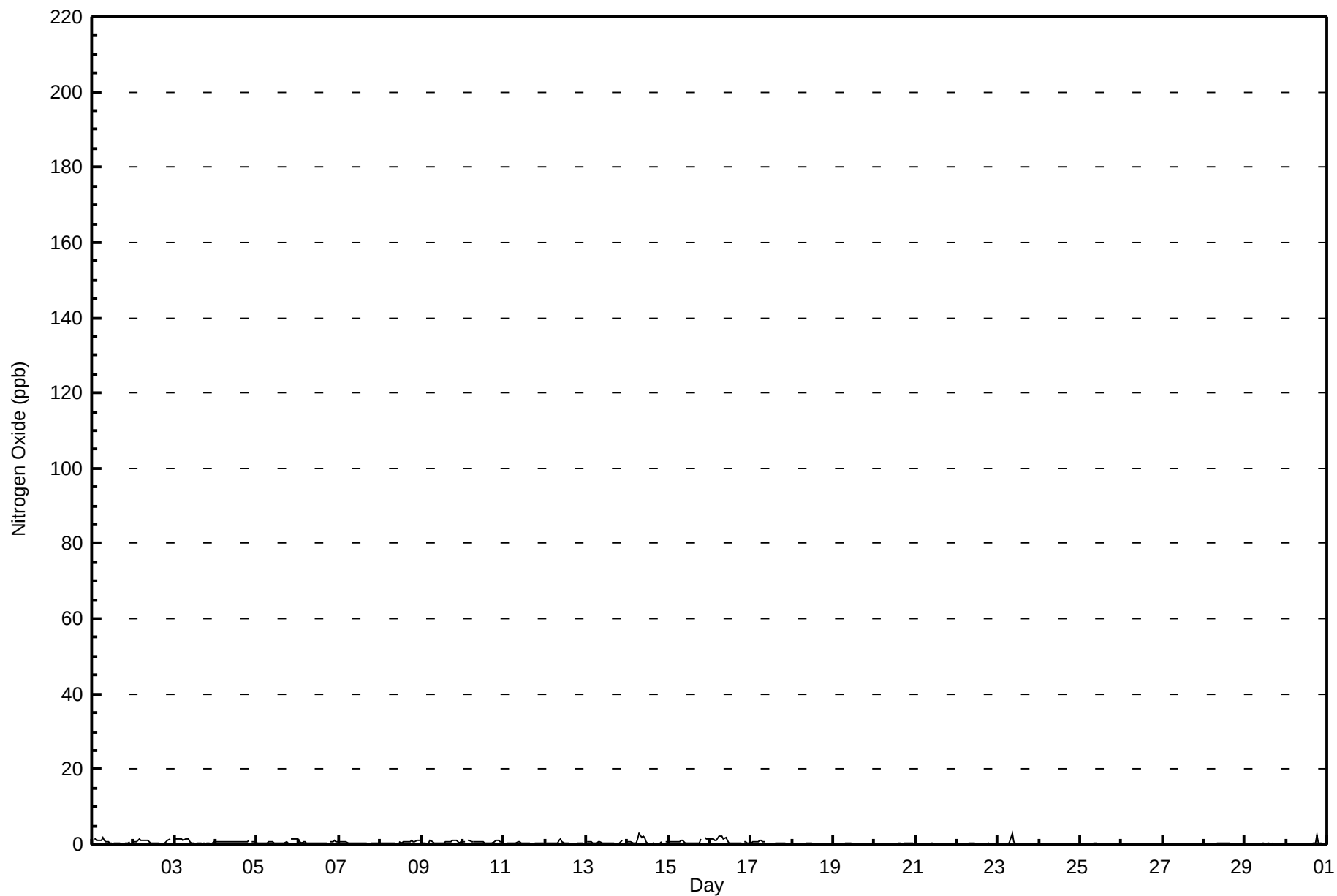
Peace Airshed Zone Association
Summary of Hourly Averages

Portable-Kinuso - Nitrogen Oxide (NO) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 3.0 ppb on Sep 14 08:00																			Maximum Daily Average: 1.0 ppb on Sep 16																			Hours in Service: 720	
Minimum Value: 0 ppb on Sep 18 18:00																			Minimum Daily Average: 0.0 ppb on Sep 26																			Hours of Data: 676	
Maximum Diurnal Average: 0.7 ppb at hour 9																			Minimum Diurnal Average: 0.2 ppb at hour 17																			Hours of Missing Data: 44	
Monthly Average: 0.42 ppb																			Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.1 Median = 0.3 Q ₃ = 0.6 P ₉₀ = 1.0 P ₉₉ = 2.1																			Hours of Calibration: 42	
																																						Percent Operational Time: 99.7	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24															
1-Sep	A	2	1	1	1	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0.7	1.9													
2-Sep	1	1	1	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	2	A	1	0.7	1.6												
3-Sep	1	1	1	1	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	A	A	0	1	0.8	1.6												
4-Sep	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	0.8	0.9												
5-Sep	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	A	2	2	1	1	1	0.6	1.6												
6-Sep	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	1	1	0.6	1.3												
7-Sep	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.5	0.8												
8-Sep	0	0	0	0	0	0	0	0	0	P	P	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.0												
9-Sep	1	0	0	A	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.2												
10-Sep	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0.8	1.1												
11-Sep	1	A	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.4	0.7												
12-Sep	A	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	A	1	0.4	1.5												
13-Sep	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	A	1	1	0.5	1.3												
14-Sep	1	1	1	0	0	0	1	3	2	2	2	1	0	0	0	0	0	0	0	0	1	A	1	1	1	0.8	3.0												
15-Sep	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	A	2	2	1	1	0.8	1.9												
16-Sep	1	1	1	1	1	2	2	2	1	2	1	1	0	0	0	0	0	0	0	A	1	1	0	0	0	1.0	2.4												
17-Sep	1	1	1	1	1	1	1	1	1	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.5	1.0												
18-Sep	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	0.4												
19-Sep	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	0.3												
20-Sep	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	0.3												
21-Sep	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	0.1	0.4												
22-Sep	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	0.1	0.5												
23-Sep	0	0	0	0	0	0	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0.2	2.9												
24-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.0	0.3												
25-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.0	0.4												
26-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.0	0.1												
27-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0.0	0.1												
28-Sep	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0	0	0.1	0.5												
29-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.1	0.4												
30-Sep	0	0	0	0	0	0	0	0	C	C	C	C	C	C	C	0	0	1	3	0	0	0	0	0	0	--	2.8												
																									Diurnal Average														
																									Diurnal Maximum														
C - Calibration				P - Power Failure				A - Automated Daily Zero Span																															

Hourly Averages for NO at Portable-Kinuso

September 2009



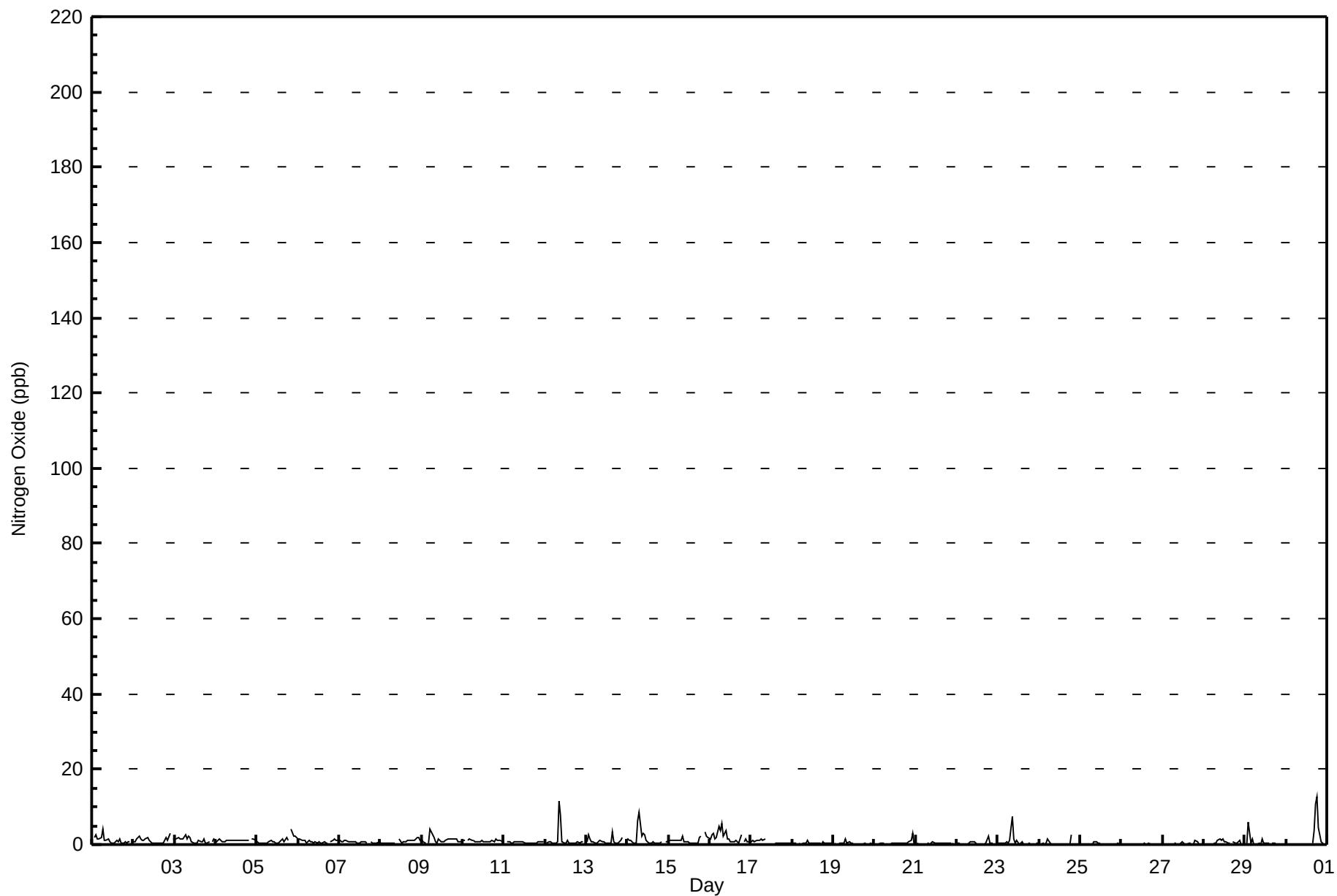
**Peace Airshed Zone Association
Summary of Hourly Maximums**

**Portable-Kinuso - Nitrogen Oxide (NO) - ppb
September 1, 2009 to October 1, 2009**

Maximum Value: 12.7 ppb on Sep 30 19:00																				Maximum Daily Average: 1.9 ppb on Sep 16					Hours in Service: 720	
Minimum Value: 0 ppb on Sep 22 17:00																				Minimum Daily Average: 0.1 ppb on Sep 26					Hours of Data: 676	
Maximum Diurnal Average: 1.5 ppb at hour 9																				Minimum Diurnal Average: 0.4 ppb at hour 13					Hours of Missing Data: 44	
Monthly Average: 0.81 ppb																				Percentiles: P ₁ = 0.0 P ₁₀ = 0.1 Q ₁ = 0.2 Median = 0.5 Q ₃ = 1.0 P ₉₀ = 1.6 P ₉₉ = 5.9					Hours of Calibration: 42	
																				Percent Operational Time: 99.7						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	A	2	2	1	2	2	4	1	1	1	1	0	0	0	1	1	2	0	0	1	0	1	1	A	1.2	4.1
2-Sep	1	1	1	2	1	1	1	1	2	1	1	0	0	0	0	0	0	0	1	2	1	3	A	2	1.1	2.9
3-Sep	2	1	2	2	2	1	3	2	2	2	1	0	0	1	1	1	1	2	0	1	1	A	1	1	1.2	2.5
4-Sep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	2	1	1.1	1.6
5-Sep	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	2	1	A	4	2	2	2	1.1	4.2
6-Sep	2	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	A	1	1	1	1	1	0.8	1.6
7-Sep	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	0	A	1	0	0	0	0	1	0.7	1.2
8-Sep	0	0	0	0	0	0	0	0	0	P	P	1	1	1	1	1	1	1	1	1	1	2	2	1	0.8	1.9
9-Sep	2	1	1	A	1	4	3	2	1	0	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1.2	4.2
10-Sep	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	1.4
11-Sep	1	A	1	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0.6	0.9
12-Sep	A	1	1	1	0	0	0	1	11	8	1	1	0	1	0	0	0	0	0	1	1	1	1	A	1.4	11.4
13-Sep	1	2	1	1	1	1	1	1	1	1	1	1	1	0	0	3	1	0	0	1	1	2	A	1	0.9	3.2
14-Sep	1	1	1	1	0	0	6	8	2	3	3	1	0	0	0	1	0	0	0	1	1	A	1	1	1.5	8.4
15-Sep	1	1	1	1	1	1	1	1	2	1	1	1	0	0	1	0	0	0	2	2	A	3	2	2	1.2	3.4
16-Sep	2	3	3	1	2	5	4	6	2	4	1	1	1	1	1	1	1	0	3	A	1	1	1	1	1.9	5.7
17-Sep	1	1	1	1	1	1	2	1	1	C	C	C	C	C	1	0	0	0	0	0	0	0	0	0	0.7	1.6
18-Sep	0	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0.3	1.0
19-Sep	0	0	A	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.6
20-Sep	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	0	0.4	3.1
21-Sep	A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.6
22-Sep	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	2	0	0	0	A	0	0.4	2.3
23-Sep	0	0	0	0	0	1	0	1	8	2	1	1	0	0	1	0	0	0	0	0	0	A	0	0	0.7	7.6
24-Sep	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	A	0	0	0	0.3	2.5
25-Sep	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.1	0.7
26-Sep	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
27-Sep	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	1	1	0	0	0	0.2	1.2
28-Sep	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	A	1	0	0	1	1	0	0	0.5	1.4
29-Sep	0	0	6	0	1	0	0	0	0	0	1	0	0	1	0	A	0	0	0	0	0	0	0	0	0.5	5.8
30-Sep	0	0	0	0	0	0	0	0	C	C	C	C	C	C	C	0	4	11	13	5	1	0	0	0	--	12.7
0.7 0.7 0.9 0.6 0.6 0.8 1.1 1.1 1.5 1.2 0.8 0.6 0.4 0.5 0.5 0.6 0.6 0.9 1.2 0.9 0.8 0.9 0.8 0.6																									Diurnal Average	
1.7 2.8 5.8 2.2 1.7 4.8 6.2 8.4 11.4 7.8 2.7 1.4 1.1 1.2 1.3 3.2 3.9 10.8 12.7 4.6 4.2 3.4 3.1 1.9																									Diurnal Maximum	
C - Calibration P - Power Failure A - Automated Daily Zero Span																										

Hourly Maximums for NO at Portable-Kinuso

September 2009

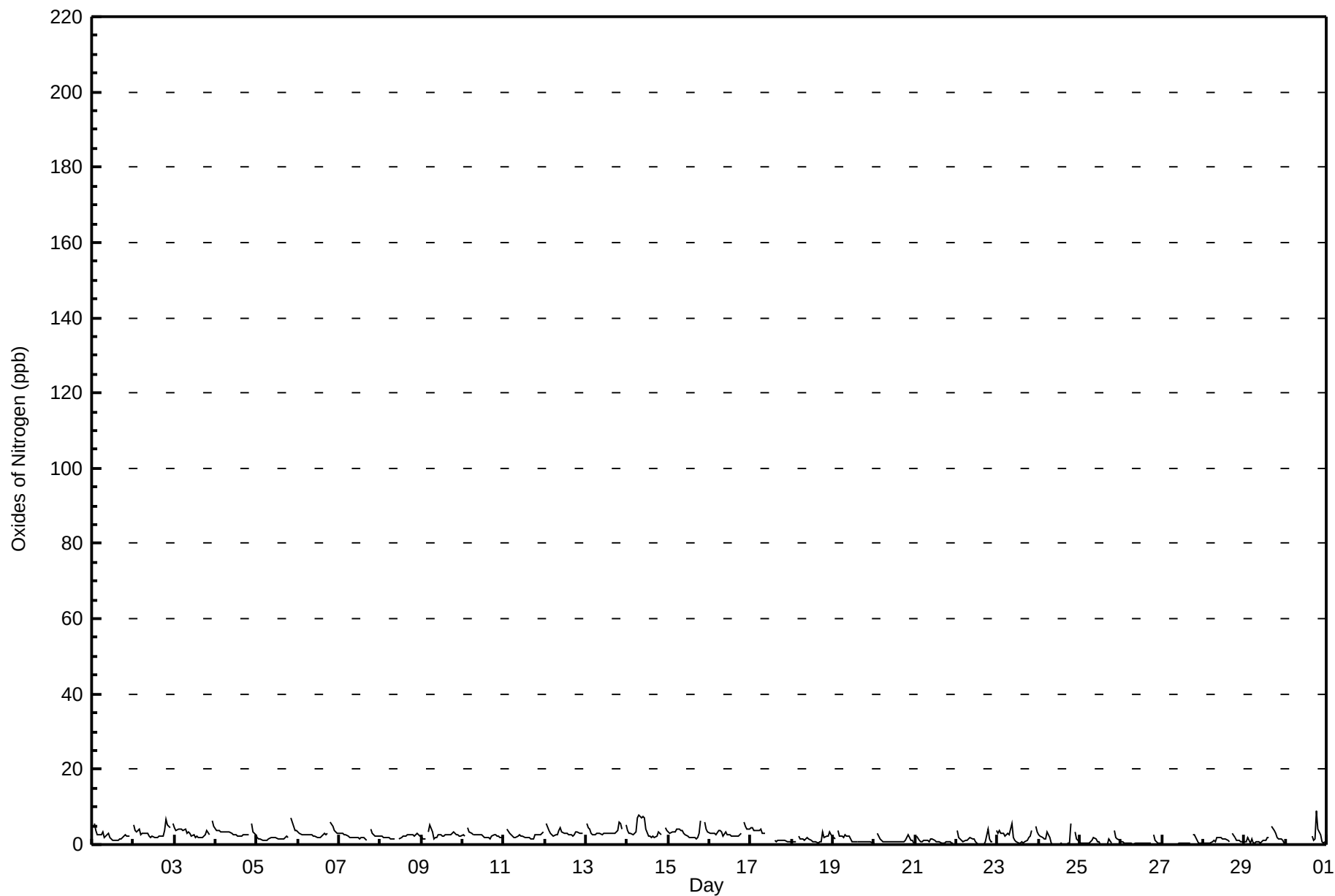


Peace Airshed Zone Association
Summary of Hourly Averages

Portable-Kinuso - Oxides of Nitrogen (NO_x) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 8.8 ppb on Sep 30 19:00																			Maximum Daily Average: 3.9 ppb on Sep 14																			Hours in Service: 720			
Minimum Value: 0 ppb on Sep 22 16:00																			Minimum Daily Average: 0.4 ppb on Sep 27																			Hours of Data: 676			
Maximum Diurnal Average: 3.0 ppb at hour 20																			Minimum Diurnal Average: 1.4 ppb at hour 15																			Hours of Missing Data: 44			
Monthly Average: 2.11 ppb																			Percentiles: P ₁ = 0.0 P ₁₀ = 0.4 Q ₁ = 0.9 Median = 2.0 Q ₃ = 2.9 P ₉₀ = 3.8 P ₉₉ = 6.9																			Hours of Calibration: 42			
																																						Percent Operational Time: 99.7			
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																	
1-Sep	A	6	4	3	2	2	3	2	2	3	2	1	1	1	1	1	1	1	2	2	2	2	2	A	2.3	5.6															
2-Sep	5	4	3	4	3	3	3	3	3	2	2	2	2	2	2	2	2	2	4	7	5	4	A	5	3.3	6.6															
3-Sep	4	4	4	4	4	4	4	3	3	3	2	3	2	2	2	2	2	2	3	4	2	A	6	5	3.2	6.3															
4-Sep	4	4	4	3	3	3	4	3	3	3	3	3	3	2	2	2	3	3	3	3	A	5	3	3	3.1	5.4															
5-Sep	2	2	1	1	1	1	1	1	2	2	2	2	2	1	2	2	2	2	2	A	7	5	4	4	2.2	7.3															
6-Sep	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	3	2	3	A	6	5	4	3	3	2.9	5.8															
7-Sep	3	3	3	3	2	2	2	2	2	2	2	2	1	2	2	1	1	A	4	3	3	2	2	2	2.2	4.2															
8-Sep	2	2	2	2	2	2	2	2	2	P	P	2	2	2	2	2	2	3	3	2	2	3	3	2	2.1	2.9															
9-Sep	2	2	1	A	3	5	3	2	2	2	2	3	2	2	2	3	3	3	3	3	3	2	2	2	2.5	5.1															
10-Sep	3	2	A	5	3	3	3	3	3	3	3	3	2	2	2	2	2	2	3	3	2	2	2	2	2.4	4.7															
11-Sep	2	A	4	3	3	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2.3	4.0															
12-Sep	A	6	4	3	2	2	2	3	4	4	3	3	3	3	3	2	2	3	3	3	3	3	3	A	3.1	5.5															
13-Sep	6	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	6	6	4	A	5	3.6	6.0															
14-Sep	4	3	3	3	3	3	7	8	7	8	7	4	2	2	2	2	2	2	3	3	3	A	5	4	3.9	7.7															
15-Sep	3	3	3	3	4	4	4	4	4	3	3	2	2	2	2	2	2	2	3	6	A	6	4	3	3.2	6.3															
16-Sep	3	3	3	3	3	4	4	4	2	3	3	3	2	2	2	2	2	2	3	A	6	5	4	4	3.1	5.9															
17-Sep	4	4	4	4	4	4	4	3	3	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	2.3	4.3															
18-Sep	1	1	1	A	2	1	1	1	1	2	2	1	1	1	1	0	1	1	3	2	2	2	3	3	1.5	3.3															
19-Sep	2	1	A	4	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1.3	3.7															
20-Sep	0	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	1	1	0	1.1	2.9															
21-Sep	A	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	0	0	1	1	1	0	0	A	0.9	2.4															
22-Sep	4	2	1	1	1	1	1	1	2	2	1	1	0	0	0	0	0	1	4	2	1	1	A	4	1.3	4.1															
23-Sep	3	4	3	3	2	3	3	3	6	2	1	1	0	1	1	1	1	1	2	2	4	A	5	3	2.3	5.7															
24-Sep	3	2	2	1	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	5	A	3	1	1	1.2	5.5															
25-Sep	1	0	0	0	0	1	1	1	2	2	1	1	0	0	0	0	0	1	0	A	4	2	1	1	0.8	3.6															
26-Sep	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	2	1	1	1	0	0.5	2.5															
27-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	3	2	1	0	0	0	0.4	2.5															
28-Sep	0	0	0	0	0	1	1	1	2	2	2	2	2	1	1	1	A	3	2	1	1	1	1	1	1.2	3.1															
29-Sep	1	1	2	1	1	1	1	1	1	0	1	1	1	2	2	A	5	4	3	2	1	1	1	0	1.4	4.8															
30-Sep	0	0	0	0	0	0	0	0	C	C	C	C	C	C	C	2	1	2	9	4	2	1	0	1	--	8.8															
		2.4	2.4	2.3	2.2	2.0	2.1	2.2	2.0	2.3	2.2	2.0	1.7	1.5	1.4	1.4	1.4	1.5	1.8	2.7	3.0	2.8	2.5	2.4	2.3	Diurnal Average															
		5.7	5.6	4.1	4.7	4.0	5.1	7.0	7.7	7.1	7.5	7.2	4.2	3.0	3.0	2.9	3.1	4.8	3.6	8.8	6.6	7.3	6.1	6.3	5.5	Diurnal Maximum															
C - Calibration				P - Power Failure				A - Automated Daily Zero Span																																	

Hourly Averages for NO_x at Portable-Kinuso September 2009



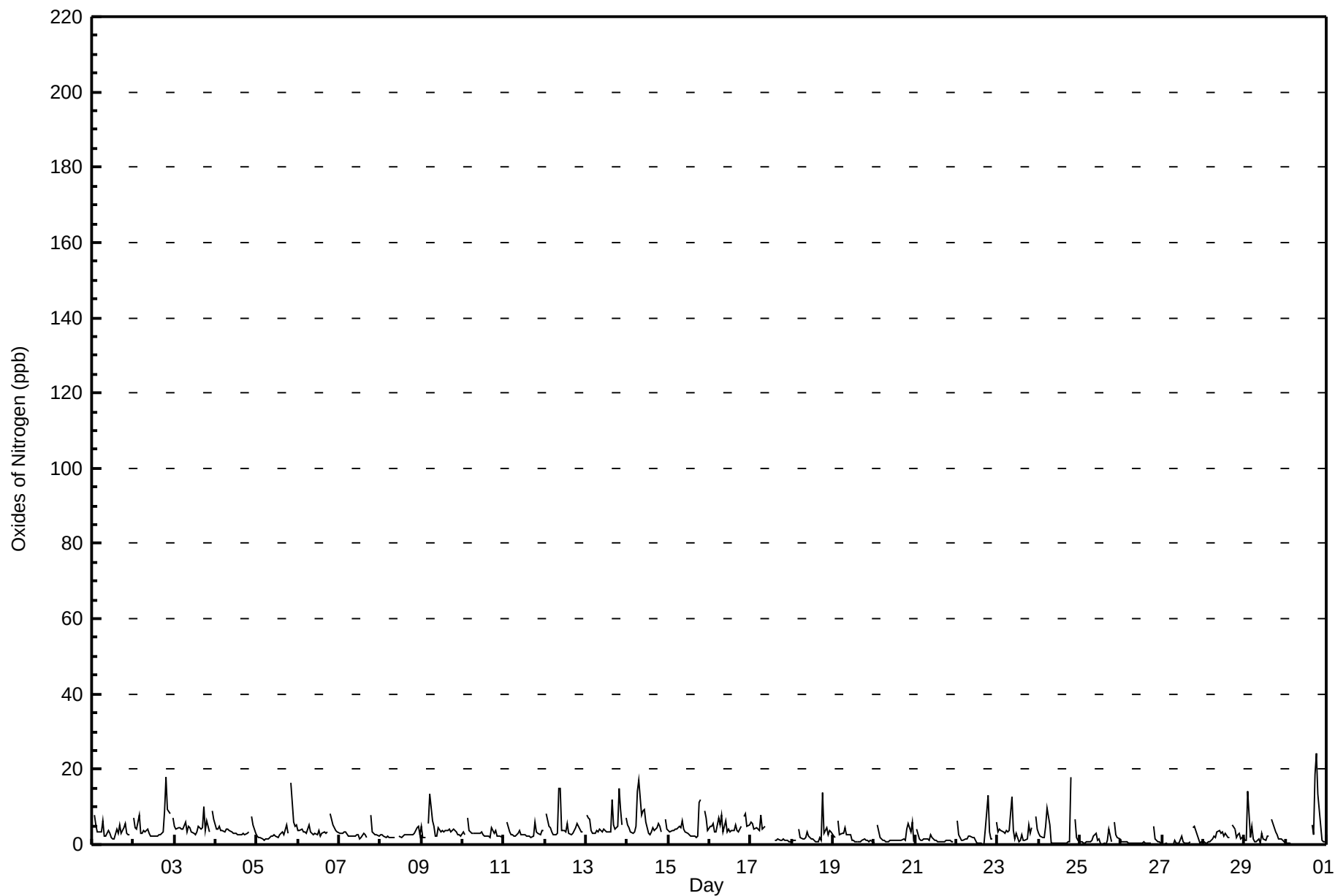
Peace Airshed Zone Association
Summary of Hourly Maximums

Portable-Kinuso - Oxides of Nitrogen (NO_x) - ppb
September 1, 2009 to October 1, 2009

Maximum Value: 24.4 ppb on Sep 30 19:00																				Maximum Daily Average: 5.8 ppb on Sep 14				Hours in Service: 720			
Minimum Value: 0 ppb on Sep 30 05:00																				Minimum Daily Average: 0.7 ppb on Sep 26				Hours of Data: 676			
Maximum Diurnal Average: 5.8 ppb at hour 20																				Minimum Diurnal Average: 1.9 ppb at hour 13				Hours of Missing Data: 44			
Monthly Average: 3.21 ppb																				Percentiles: P ₁ = 0.1 P ₁₀ = 0.6 Q ₁ = 1.3 Median = 2.8 Q ₃ = 4.0 P ₉₀ = 5.9 P ₉₉ = 14.8				Hours of Calibration: 42			
																								Percent Operational Time: 99.7			
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1-Sep	A	8	5	3	3	3	6	2	2	4	3	2	1	1	4	3	5	3	4	6	3	2	3	A	3.6	7.8	
2-Sep	7	4	4	8	3	3	4	3	4	3	2	2	2	2	2	3	2	3	9	18	9	8	A	7	5.0	17.9	
3-Sep	5	4	5	4	4	4	6	3	5	5	3	3	3	3	5	4	4	10	4	6	3	A	9	7	4.8	10.1	
4-Sep	4	4	5	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	A	8	5	3	3.7	7.6	
5-Sep	2	2	2	2	1	1	2	2	2	2	2	2	2	2	3	3	3	5	3	A	16	6	5	5	3.3	16.2	
6-Sep	4	4	4	3	3	3	5	3	3	3	3	3	4	2	3	3	3	3	A	8	5	4	4	3	3.7	8.2	
7-Sep	3	3	3	3	3	2	2	2	2	2	3	3	2	2	3	3	2	A	8	3	3	3	3	2	2.8	7.8	
8-Sep	3	3	2	2	2	2	2	2	2	P	P	2	2	2	2	3	3	3	3	3	3	4	5	3	2.6	4.9	
9-Sep	5	2	2	A	5	13	6	5	2	2	4	4	4	3	4	4	4	3	4	4	3	3	2	2	3.9	13.5	
10-Sep	3	2	A	7	4	3	3	3	3	3	3	3	3	2	2	2	2	4	3	4	2	2	2	2	3.0	6.9	
11-Sep	2	A	6	3	3	2	2	2	3	4	3	3	2	2	2	2	2	2	6	3	3	3	4	4	2.9	5.9	
12-Sep	A	8	5	5	3	2	3	3	15	15	4	4	3	5	3	3	3	4	4	6	4	3	3	A	4.9	15.1	
13-Sep	8	7	7	4	3	3	4	3	4	3	4	4	4	3	3	12	5	4	5	15	9	5	A	7	5.5	14.9	
14-Sep	5	4	4	3	3	5	14	17	8	9	9	6	3	3	3	4	4	4	6	5	3	A	7	4	5.8	17.2	
15-Sep	4	3	4	4	4	4	5	5	6	4	3	3	2	2	2	2	2	2	11	12	A	9	7	4	4.5	11.9	
16-Sep	5	5	5	3	3	7	5	8	3	6	4	4	3	4	4	5	4	3	5	A	7	8	5	5	4.9	8.1	
17-Sep	6	6	4	4	4	4	8	4	5	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	3.0	7.9	
18-Sep	1	1	1	A	4	2	2	1	2	3	2	2	1	1	1	1	1	2	1	14	3	5	3	4	3	2.5	13.9
19-Sep	2	2	A	6	3	3	3	5	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.9	6.2	
20-Sep	1	A	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	6	3	6	1	1.9	5.9	
21-Sep	A	4	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	A	1.3	4.0	
22-Sep	7	3	2	1	1	1	1	2	2	2	2	1	0	0	0	0	0	4	13	3	1	1	A	6	2.4	13.0	
23-Sep	3	4	4	4	3	4	3	4	13	4	2	3	1	1	3	1	1	2	5	3	5	A	8	4	3.6	12.6	
24-Sep	3	2	2	2	5	10	5	0	0	0	0	0	0	0	0	0	0	1	1	18	A	7	2	1	2.6	17.8	
25-Sep	1	1	0	1	1	1	1	1	2	3	1	2	0	0	0	0	1	4	1	A	6	3	2	1	1.4	5.9	
26-Sep	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	A	5	1	1	1	0	0.7	4.9	
27-Sep	0	0	0	0	0	0	0	1	0	0	0	2	1	0	0	0	1	A	4	5	3	1	0	1	1.0	4.7	
28-Sep	1	0	1	1	1	2	2	2	3	4	3	3	2	3	2	2	A	5	4	2	2	3	1	2	2.2	5.1	
29-Sep	1	1	14	2	5	1	1	1	1	0	3	1	1	2	2	A	7	4	3	2	2	2	1	1	2.6	14.3	
30-Sep	0	0	0	0	0	0	0	0	C	C	C	C	C	C	C	5	3	19	24	13	5	1	1	1	--	24.4	
3.2 3.2 3.5 2.9 2.7 3.1 3.4 3.0 3.5 3.4 2.7 2.4 1.9 2.0 2.2 2.5 2.4 3.7 5.4 5.8 4.2 3.6 3.4 3.0																									Diurnal Average		
8.0 8.4 14.3 7.7 5.4 13.5 14.1 17.2 15.1 14.8 9.5 5.9 3.6 5.4 4.9 11.8 6.8 18.7 24.4 17.9 16.2 8.8 9.0 7.2																									Diurnal Maximum		
C - Calibration P - Power Failure A - Automated Daily Zero Span																											

Hourly Maximums for NO_x at Portable-Kinuso

September 2009

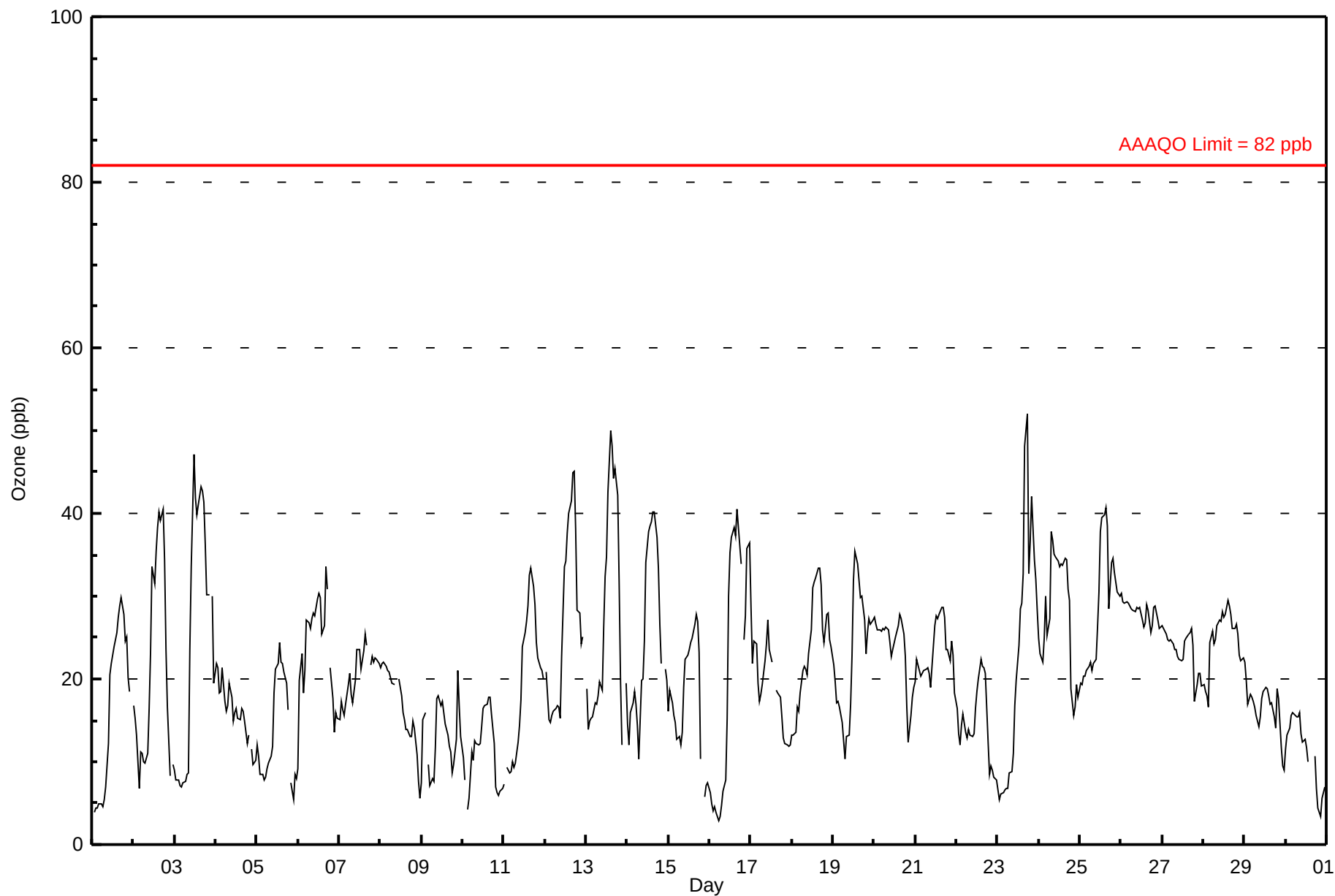


Peace Airshed Zone Association
Summary of Hourly Averages

Portable-Kinuso - Ozone (O₃) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0 Maximum Value: 52.1 ppb on Sep 23 18:00 Maximum Daily Average: 28.5 ppb on Sep 25																				Hours in Service: 720 Hours of Data: 696						
Minimum Value: 3 ppb on Sep 16 06:00 Minimum Daily Average: 11.2 ppb on Sep 10 Maximum Diurnal Average: 29.6 ppb at hour 17 Minimum Diurnal Average: 15.7 ppb at hour 4 Monthly Average: 20.90 ppb Percentiles: P ₁ = 4.4 P ₁₀ = 8.6 Q ₁ = 14.4 Median = 20.6 Q ₃ = 26.5 P ₉₀ = 33.6 P ₉₉ = 44.8																				Hours of Missing Data: 24 Hours of Calibration: 22 Percent Operational Time: 99.7						
Day	Hourly Period Ending At (MST)																							Daily Average	Daily Maximum	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	A	4	4	4	5	5	5	5	7	12	21	22	23	24	26	27	29	30	28	25	25	20	18	A	16.8	29.8
2-Sep	17	15	13	7	11	11	10	10	11	16	23	34	31	35	38	40	39	41	34	24	17	8	A	10	21.6	40.5
3-Sep	9	8	8	7	7	7	8	8	9	24	34	47	42	40	41	43	43	41	36	30	30	A	30	19	24.8	47.2
4-Sep	22	21	18	19	21	17	16	17	20	18	15	16	17	15	15	16	16	15	12	13	A	12	10	10	16.1	21.9
5-Sep	12	11	8	9	8	8	9	10	11	12	18	21	22	24	22	22	21	20	16	A	8	5	8	8	13.6	24.4
6-Sep	9	20	23	18	21	27	27	26	27	28	28	30	30	30	25	26	34	31	A	21	18	14	16	15	23.7	33.6
7-Sep	15	17	16	16	17	19	21	18	17	20	24	24	24	21	23	25	24	A	22	23	22	23	22	22	20.6	25.4
8-Sep	21	22	22	22	21	21	20	20	19	P	P	20	18	16	15	14	14	13	13	15	14	11	8	6	16.5	22.0
9-Sep	8	15	16	A	10	7	8	8	12	18	18	17	17	16	15	13	12	11	9	10	13	21	17	13	13.1	21.1
10-Sep	10	8	A	4	6	11	10	13	12	12	12	14	17	17	17	18	18	16	12	7	6	6	6	7	11.2	17.9
11-Sep	7	A	9	9	9	10	9	10	12	14	17	24	26	27	29	33	33	31	29	24	23	21	21	20	19.5	33.4
12-Sep	A	21	15	15	16	16	16	17	17	15	23	33	34	38	40	41	45	45	38	28	28	24	25	A	26.9	45.0
13-Sep	19	14	15	15	15	17	17	18	20	19	26	32	35	43	50	48	44	46	42	32	20	12	A	20	26.9	50.0
14-Sep	15	12	16	17	18	17	14	10	20	20	25	34	38	38	39	40	40	37	33	27	22	A	21	20	24.9	40.2
15-Sep	16	19	17	16	15	13	13	12	14	19	22	23	23	24	25	27	28	27	23	10	A	6	7	7	17.7	27.9
16-Sep	6	5	4	5	4	3	3	5	6	8	15	30	35	37	38	37	40	38	34	A	25	28	36	36	20.8	40.5
17-Sep	29	22	25	24	20	17	18	19	22	24	27	24	22	C	C	19	18	18	15	13	12	12	12	12	19.3	28.7
18-Sep	13	13	14	17	16	18	21	21	21	21	23	26	31	32	32	33	33	31	26	24	28	28	25	24	23.8	33.3
19-Sep	22	20	17	17	17	15	13	10	13	13	17	23	32	35	34	32	30	30	27	23	26	27	27	27	22.7	35.4
20-Sep	27	27	26	26	26	26	26	26	26	24	23	23	25	26	27	28	27	25	23	17	12	16	18	19	23.7	27.7
21-Sep	20	22	21	20	21	21	21	21	21	19	22	26	28	27	28	29	29	27	24	24	22	25	23	18	23.2	28.6
22-Sep	17	13	12	14	16	14	13	14	13	13	17	19	20	22	21	21	21	12	9	10	9	8	8	8	14.5	22.4
23-Sep	7	5	6	6	7	7	7	9	9	11	17	20	24	28	29	33	48	52	33	37	42	34	32	28	22.1	52.1
24-Sep	25	23	22	25	30	25	27	38	37	35	35	34	34	34	34	35	34	31	30	19	16	17	19	18	28.1	37.8
25-Sep	19	19	20	20	21	21	22	21	22	22	26	30	38	39	40	41	39	29	34	35	33	32	30	30	28.5	40.7
26-Sep	30	29	29	29	29	29	28	28	28	29	28	29	27	26	27	29	28	26	26	29	29	27	26	26	28.1	30.3
27-Sep	26	26	25	25	25	25	24	24	24	23	22	22	22	25	25	25	26	26	24	17	19	21	21	19	23.3	26.4
28-Sep	19	19	18	17	24	26	24	25	26	27	27	28	28	28	29	29	28	26	26	27	25	23	22	23	24.7	29.4
29-Sep	22	20	17	18	18	17	17	16	14	15	18	18	19	19	18	17	17	15	14	19	18	12	10	9	16.5	22.0
30-Sep	11	13	14	16	16	16	15	15	16	13	12	13	12	10	C	C	C	11	7	4	3	6	6	7	11.3	15.9
																									Diurnal Average	
																									Diurnal Maximum	
C - Calibration P - Power Failure A - Automated Daily Zero Span Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 82 ppb 24-hr na																										

Hourly Averages for O₃ at Portable-Kinuso September 2009

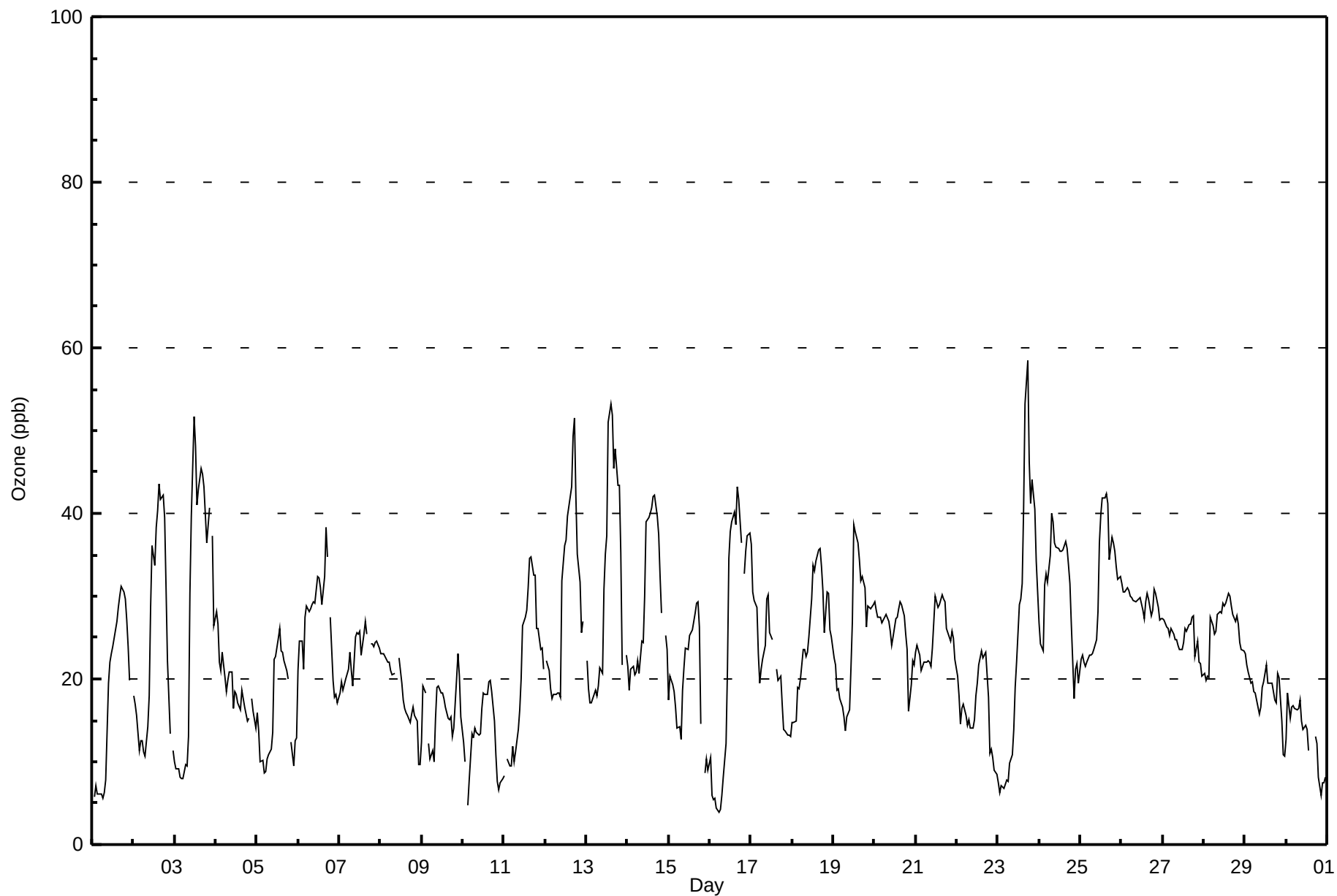


**Peace Airshed Zone Association
Summary of Hourly Maximums**

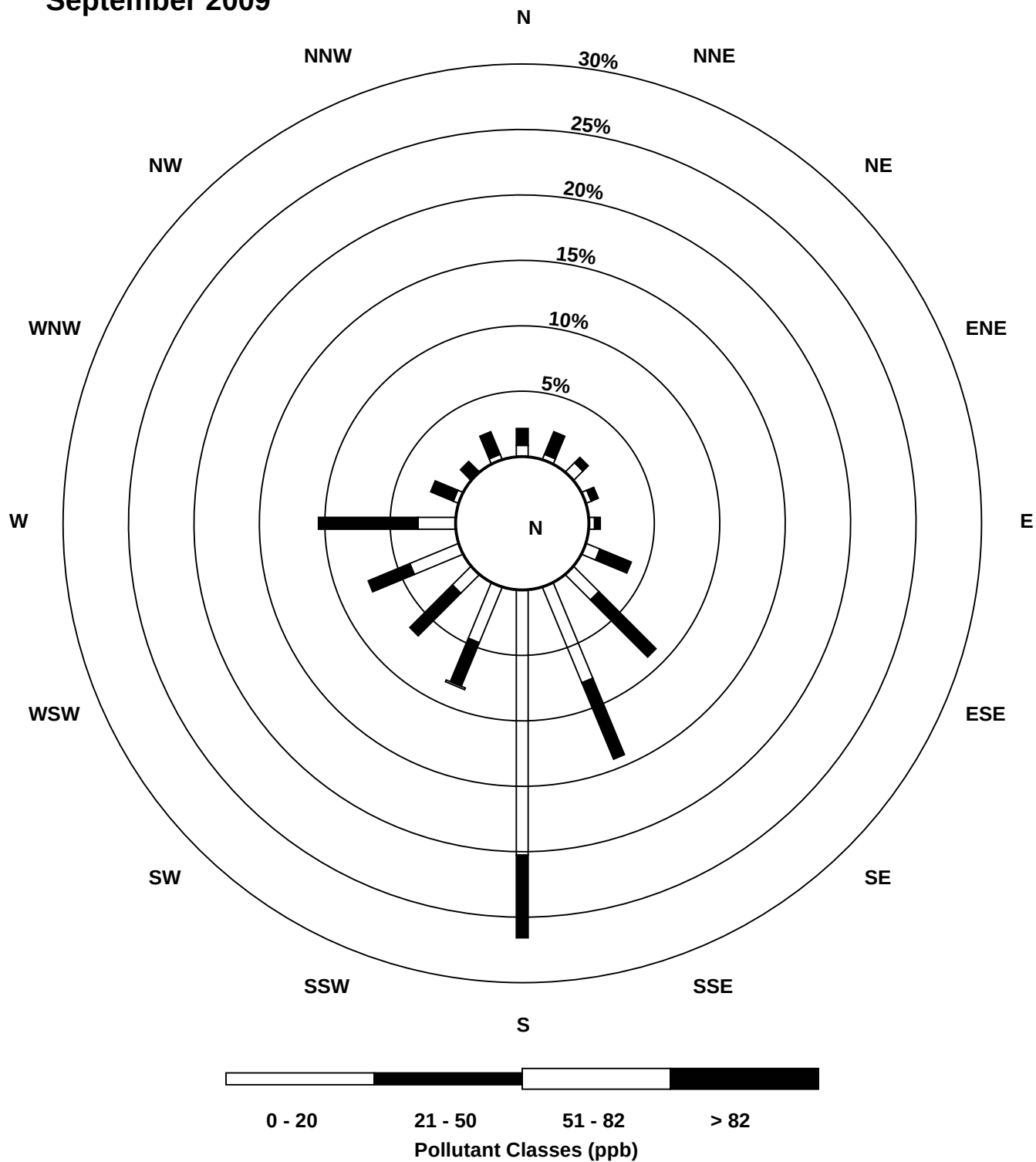
**Portable-Kinuso - Ozone (O₃) - ppb
September 1, 2009 to October 1, 2009**

Maximum Value: 58.5 ppb on Sep 23 18:00																				Maximum Daily Average: 31.0 ppb on Sep 24					Hours in Service: 720	
Minimum Value: 4 ppb on Sep 16 06:00																				Minimum Daily Average: 13.0 ppb on Sep 10					Hours of Data: 696	
Maximum Diurnal Average: 31.7 ppb at hour 17																				Minimum Diurnal Average: 17.9 ppb at hour 4					Hours of Missing Data: 24	
Monthly Average: 23.37 ppb																				Percentiles: P ₁ = 5.6 P ₁₀ = 10.7 Q ₁ = 16.8 Median = 22.8 Q ₃ = 29.1 P ₉₀ = 36.4 P ₉₉ = 50.7					Hours of Calibration: 22	
																									Percent Operational Time: 99.7	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	A	6	7	6	6	6	6	6	8	19	22	23	24	25	27	29	30	31	30	30	27	24	20	A	18.7	31.1
2-Sep	18	17	16	11	13	13	11	11	14	18	29	36	34	38	40	43	42	42	39	31	22	13	A	11	24.5	43.5
3-Sep	10	9	9	8	8	8	10	10	13	30	40	52	48	41	43	45	45	43	40	36	41	A	37	26	28.4	51.6
4-Sep	28	27	22	21	23	20	18	20	21	21	16	19	18	17	16	19	18	17	15	15	A	18	16	14	19.0	28.2
5-Sep	16	14	10	10	9	9	10	11	11	14	22	23	25	26	23	23	22	21	20	A	12	9	12	13	15.9	26.1
6-Sep	21	25	25	21	28	29	28	28	29	29	29	32	32	31	29	32	38	35	A	28	20	18	18	17	27.0	38.3
7-Sep	18	20	19	19	20	21	23	21	19	25	26	25	26	23	25	27	25	A	24	24	24	24	25	24	23.0	27.0
8-Sep	23	23	23	22	22	22	21	20	21	P	P	23	20	17	17	16	16	15	16	17	16	15	10	10	18.3	23.1
9-Sep	12	19	18	A	12	10	11	10	15	19	19	18	18	18	17	15	15	15	13	14	20	23	20	15	16.0	23.1
10-Sep	12	10	A	5	8	13	13	14	14	13	13	16	18	18	18	20	20	19	15	11	8	7	7	8	13.0	19.8
11-Sep	8	A	10	9	9	12	10	11	14	16	20	26	28	28	31	35	35	33	32	26	26	24	24	21	21.3	34.7
12-Sep	A	22	21	19	18	18	18	18	18	18	32	36	37	40	41	43	49	51	42	35	32	26	27	A	30.1	51.5
13-Sep	22	19	17	17	18	19	18	19	21	21	31	35	37	51	53	52	45	48	43	43	35	22	A	23	30.9	53.2
14-Sep	22	19	21	21	21	21	22	21	25	24	30	39	39	40	41	42	42	40	37	32	28	A	25	23	29.4	42.2
15-Sep	17	20	19	18	17	14	14	13	19	21	24	24	25	26	26	28	29	29	26	15	A	9	10	9	19.7	29.3
16-Sep	10	6	5	6	4	4	4	6	8	12	21	35	38	39	40	39	43	42	36	A	33	35	37	38	23.6	43.3
17-Sep	36	31	29	29	23	19	21	22	24	30	30	26	25	C	C	21	20	20	17	14	14	13	13	13	22.3	36.3
18-Sep	15	15	15	19	19	20	24	24	23	23	25	30	34	33	34	36	36	34	31	26	30	30	26	25	26.0	35.7
19-Sep	23	22	19	19	18	17	15	14	15	16	21	27	39	38	36	34	32	32	31	26	29	29	29	29	25.4	38.7
20-Sep	29	28	28	27	27	27	27	28	27	26	24	25	27	27	28	29	29	28	25	24	16	19	22	22	25.9	29.4
21-Sep	23	24	23	21	22	22	22	22	22	22	24	30	29	29	29	30	30	29	26	26	25	26	25	22	25.1	30.1
22-Sep	20	18	15	16	17	16	14	15	14	14	15	18	19	22	23	23	23	23	18	11	11	10	9	8	16.4	23.4
23-Sep	7	6	7	7	7	8	8	10	11	14	19	22	29	30	31	40	53	59	46	41	44	41	34	30	25.2	58.5
24-Sep	27	24	23	31	33	32	35	40	39	36	36	36	35	35	36	37	36	34	32	27	18	21	22	20	31.0	40.0
25-Sep	22	23	22	21	22	23	23	23	24	25	28	36	40	42	42	42	41	34	37	37	35	34	32	32	30.9	42.4
26-Sep	32	31	30	31	31	30	30	29	29	29	30	30	28	27	29	30	30	28	28	31	30	29	27	27	29.5	31.6
27-Sep	27	27	26	26	25	26	25	25	25	24	24	23	24	26	26	27	27	27	28	23	25	22	22	20	25.0	27.6
28-Sep	21	20	20	20	27	26	25	26	28	28	28	29	29	29	30	30	29	28	27	28	27	24	24	23	26.1	30.4
29-Sep	23	22	21	20	20	18	18	17	16	17	19	20	22	20	20	19	19	17	17	21	20	15	11	11	18.4	23.0
30-Sep	13	18	15	17	17	16	16	16	17	15	14	14	14	11	C	C	C	13	12	8	6	7	7	8	13.2	18.4
19.9 19.4 18.5 17.9 18.0 18.0 18.1 18.4 19.5 21.4 24.5 27.6 28.7 29.2 30.5 31.3 31.7 30.6 27.8 24.9 24.0 20.9 21.1 19.4																									Diurnal Average	
36.3 30.6 30.5 31.4 32.7 31.7 35.0 40.0 39.0 36.4 39.7 51.6 48.1 51.0 53.2 51.9 53.2 58.5 46.2 43.4 44.1 40.5 37.3 37.6																									Diurnal Maximum	
C - Calibration P - Power Failure A - Automated Daily Zero Span																										

Hourly Maximums for O₃ at Portable-Kinuso September 2009



Pollutant Rose for O₃ at Portable-Kinuso **September 2009**



Peace Airshed Zone Association
Summary of Eight Hour Running Averages

Portable-Kinuso - Ozone (O₃) - ppb
September 1, 2009 to October 1, 2009

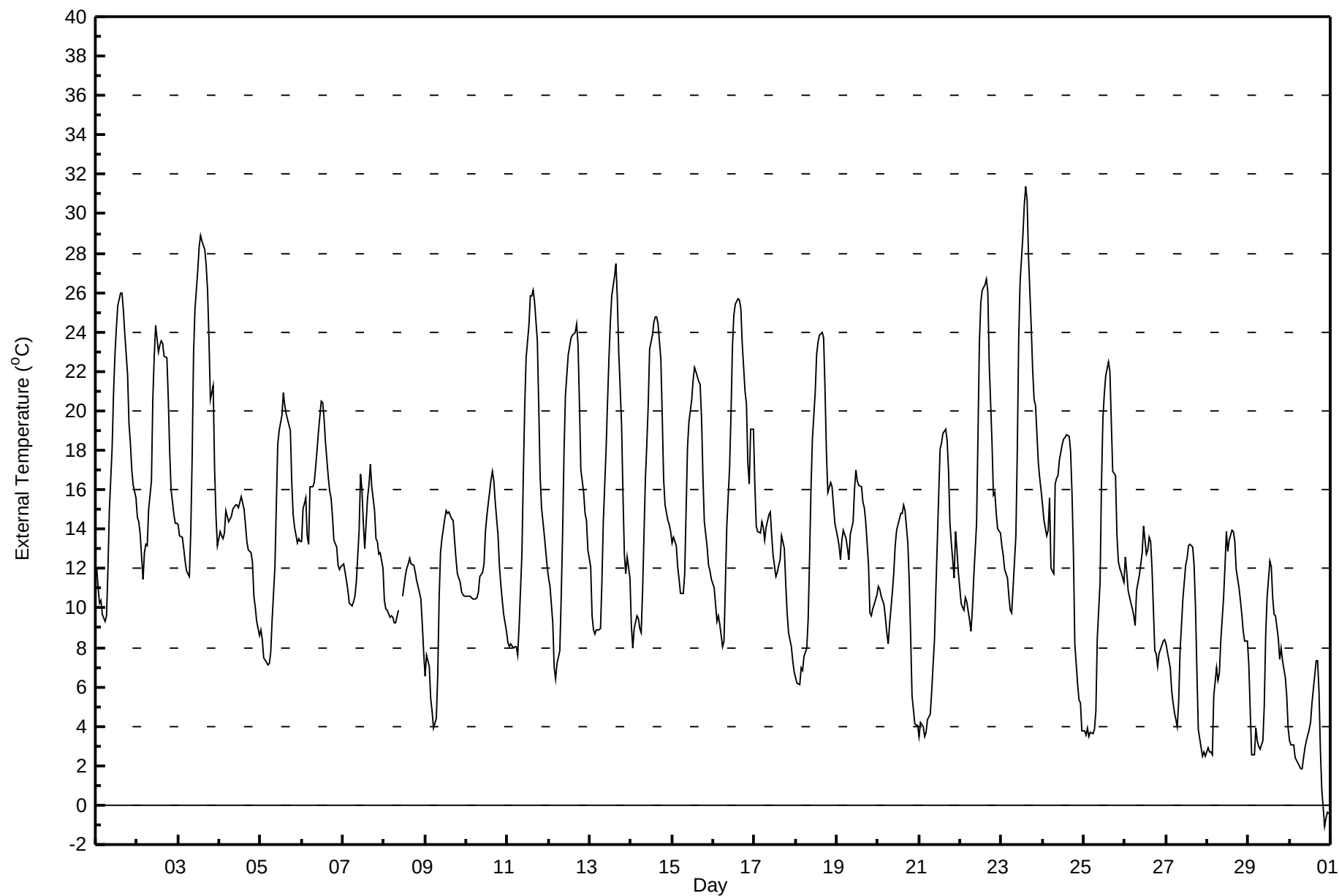
Number of Exceedences (AAAQO): 8-hr: 0 Maximum Value: 42.5 ppb on Sep 13 19:00																								Hours in Service: 720	
Minimum Value: 4.3 ppb on Sep 16 08:00																								Hours of Data: 714	
																								Hours of Missing Data: 6	
Percentiles: P ₁ = 4.9 P ₁₀ = 10.7 Q ₁ = 15.0 Median = 20.7 Q ₃ = 26.5 P ₉₀ = 31.6 P ₉₉ = 39.0																								Hours of Calibration: 6	
																								Percent Operational Time: 100.0	
Day	Hourly Period Ending At (MST)																								Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Sep	28	20	12	8	6	5	4	5	5	6	8	10	12	15	17	20	23	25	26	26	27	26	25	25	27.9
2-Sep	23	21	19	17	15	13	12	12	11	11	12	16	18	21	25	29	32	35	37	35	34	30	29	25	36.6
3-Sep	20	16	12	9	8	8	8	8	8	10	13	18	22	26	31	35	39	41	42	40	38	38	36	33	41.7
4-Sep	30	27	24	23	22	21	19	19	19	18	18	17	17	17	16	16	16	16	15	15	15	14	13	13	29.9
5-Sep	12	11	11	10	10	9	9	9	9	9	11	12	14	16	18	19	20	21	21	21	19	16	14	12	21.3
6-Sep	11	11	12	12	14	17	19	21	24	25	25	27	28	28	28	28	29	29	29	28	26	24	23	21	29.5
7-Sep	19	17	17	16	16	16	17	17	18	18	19	20	21	21	21	22	23	24	23	23	23	23	23	22	23.6
8-Sep	22	22	22	22	22	22	21	21	21	21	20	20	20	19	18	17	16	16	15	15	14	14	13	12	22.1
9-Sep	11	11	11	11	10	10	10	10	11	11	11	12	13	14	15	16	16	15	14	13	12	13	13	13	15.7
10-Sep	13	13	13	12	11	10	9	9	9	10	10	11	13	13	14	15	16	16	16	15	14	12	11	10	16.0
11-Sep	8	7	7	7	8	8	9	9	10	10	11	13	15	17	20	23	25	27	29	29	29	28	27	25	29.0
12-Sep	24	23	21	19	18	18	17	17	17	16	17	19	21	24	27	30	34	37	39	39	38	36	34	33	39.4
13-Sep	30	25	22	20	18	17	16	16	16	17	18	21	23	26	30	34	37	40	42	42	41	37	35	31	42.5
14-Sep	26	22	18	16	16	16	16	15	16	17	18	20	22	25	28	32	34	36	38	37	35	34	31	29	37.5
15-Sep	25	23	20	19	18	17	16	15	15	15	15	16	17	19	20	22	24	25	25	23	23	21	18	16	25.1
16-Sep	12	9	7	6	6	5	5	4	4	5	6	9	13	18	22	26	30	34	36	37	36	34	34	34	37.3
17-Sep	32	30	29	28	27	26	24	22	21	21	22	21	22	22	23	23	22	21	19	18	16	15	15	14	32.2
18-Sep	13	13	13	13	14	14	15	17	18	19	20	21	23	24	26	27	29	30	31	30	30	30	29	27	30.6
19-Sep	26	25	23	23	21	19	18	16	15	14	14	15	17	20	22	25	27	29	30	30	30	29	28	27	30.4
20-Sep	27	26	26	27	27	26	26	26	26	26	25	25	25	25	25	25	25	26	26	25	23	22	21	20	26.8
21-Sep	19	18	18	19	20	20	21	21	21	21	21	22	23	24	25	26	27	27	27	27	26	26	25	24	27.2
22-Sep	22	21	19	18	17	16	15	14	14	14	14	14	14	15	16	17	18	19	19	18	17	16	14	12	22.4
23-Sep	10	8	8	7	7	7	7	7	7	8	9	11	13	16	18	21	26	31	33	35	38	38	39	38	38.9
24-Sep	35	32	30	29	27	26	26	27	28	30	31	33	33	34	35	35	34	34	33	31	29	27	25	23	35.4
25-Sep	21	20	18	19	19	20	20	21	21	21	22	23	25	28	30	32	34	35	36	37	36	35	34	33	36.7
26-Sep	32	32	31	30	30	30	29	29	29	29	29	28	28	28	28	28	28	28	27	27	27	28	28	27	31.7
27-Sep	27	27	27	26	26	26	25	25	25	24	24	23	23	23	23	23	24	24	24	24	23	23	22	22	27.0
28-Sep	21	20	19	19	20	20	21	21	22	23	25	26	26	27	27	28	28	28	28	28	27	27	26	25	28.0
29-Sep	24	23	22	21	20	20	19	18	17	17	17	17	17	17	17	17	18	18	17	17	17	16	15	14	24.2
30-Sep	13	13	13	13	13	13	14	15	15	15	15	15	14	13	13	13	N	N	N	N	N	N	6	6	15.2
35.4 31.8 31.1 30.4 29.9 29.6 29.3 29.1 28.8 29.9 31.5 32.6 33.1 34.2 35.0 34.9 39.1 41.4 42.5 42.4 40.5 38.5 38.9 38.3																									
Diurnal Maximums																									
N - Not Valid																									

Peace Airshed Zone Association
Summary of Hourly Averages

Portable-Kinuso - External Temperature (ET) - °C
September 1, 2009 to October 1, 2009

Maximum Value: 31.4 °C on Sep 23 15:00																				Maximum Daily Average: 19.8 °C on Sep 3					Hours in Service: 720	
Minimum Value: -1 °C on Sep 30 21:00																				Minimum Daily Average: 2.9 °C on Sep 30					Hours of Data: 718	
Maximum Diurnal Average: 19.4 °C at hour 15																				Minimum Diurnal Average: 8.8 °C at hour 7					Hours of Missing Data: 2	
Monthly Average: 13.43 °C																				Percentiles: P ₁ = 2.1 P ₁₀ = 5.7 Q ₁ = 9.6 Median = 13.0 Q ₃ = 16.6 P ₉₀ = 22.8 P ₉₉ = 28.1					Hours of Calibration: 0	
																				Percent Operational Time: 99.7						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	12	11	10	10	10	9	10	12	15	18	21	23	24	25	26	26	25	24	22	19	18	17	16	16	17.5	26.0
2-Sep	15	14	14	11	13	13	13	15	16	21	23	24	23	23	24	23	23	23	21	18	16	15	14	14	17.9	24.3
3-Sep	14	14	14	13	12	12	12	14	18	23	25	27	28	29	29	28	27	26	24	21	21	17	15	13	19.8	28.9
4-Sep	14	14	14	14	15	14	14	15	15	15	15	15	15	16	15	14	13	13	13	12	11	10	9	9	13.5	15.7
5-Sep	9	8	7	7	7	7	8	9	12	15	18	19	20	21	20	20	20	19	16	15	14	13	14	13	13.9	20.9
6-Sep	13	15	16	14	13	16	16	16	17	18	19	20	20	20	18	17	16	16	15	13	13	12	12	12	15.8	20.5
7-Sep	12	12	11	11	10	10	10	11	11	14	17	16	14	13	16	16	17	16	15	14	13	13	13	12	13.2	17.3
8-Sep	10	10	10	10	10	10	9	9	10	P	P	11	12	12	12	13	12	12	12	11	11	10	9	8	10.6	12.5
9-Sep	7	8	7	5	5	4	4	7	10	13	14	15	15	15	15	15	14	13	13	12	11	11	11	11	10.5	15.0
10-Sep	11	11	11	11	10	10	11	11	12	12	12	14	15	15	17	17	16	15	14	12	11	10	10	9	12.3	16.9
11-Sep	8	8	8	8	8	8	8	9	13	17	20	23	24	26	26	26	26	24	20	17	15	14	13	12	15.8	26.1
12-Sep	12	11	9	7	6	7	8	11	14	18	21	23	23	24	24	24	24	23	20	17	16	15	14	13	16.0	24.4
13-Sep	12	10	9	9	9	9	9	11	14	18	20	23	25	26	27	28	26	23	19	16	13	12	13	12	16.2	27.5
14-Sep	9	8	9	10	9	9	9	11	17	18	20	23	24	24	25	25	24	23	20	17	15	14	14	14	16.3	24.8
15-Sep	13	14	13	12	11	11	11	12	15	18	19	21	22	22	22	22	21	20	17	14	13	12	12	11	15.7	22.2
16-Sep	11	10	9	10	9	8	8	11	14	17	20	23	25	25	26	26	25	23	21	20	17	16	19	19	17.3	25.7
17-Sep	16	14	14	14	14	14	13	14	15	15	14	13	12	12	12	12	14	13	11	10	9	8	7	7	12.4	16.2
18-Sep	6	6	6	7	7	8	8	9	13	16	19	21	23	23	24	24	24	21	18	16	16	16	15	14	15.0	24.0
19-Sep	14	13	12	13	14	14	13	12	14	14	16	17	16	16	16	15	15	14	12	10	10	10	10	11	13.4	17.0
20-Sep	11	11	11	10	10	9	8	9	11	12	13	14	14	15	15	15	15	13	11	9	6	4	4	4	10.6	15.2
21-Sep	4	4	4	3	4	4	5	6	7	8	11	16	18	18	19	19	18	17	14	13	12	14	13	12	11.0	19.1
22-Sep	10	10	10	11	10	9	9	10	12	14	19	23	25	26	26	27	26	22	18	16	16	15	14	14	16.4	26.7
23-Sep	13	13	12	12	11	10	10	11	14	18	24	27	29	30	31	31	28	24	22	21	20	17	17	16	19.1	31.4
24-Sep	15	14	14	14	16	12	12	16	17	17	17	18	19	19	19	19	18	16	13	8	6	5	5	4	13.8	18.8
25-Sep	4	4	4	4	4	4	4	5	8	11	16	20	21	22	22	22	19	17	17	14	12	12	12	11	12.0	22.5
26-Sep	13	12	11	10	10	10	9	11	12	12	13	14	13	13	14	13	12	8	8	7	8	8	8	8	10.7	14.2
27-Sep	8	8	7	6	5	5	4	5	8	9	10	12	13	13	13	13	12	10	7	4	3	3	3	3	7.6	13.3
28-Sep	3	3	3	3	6	7	6	7	8	11	12	14	13	13	14	14	13	12	11	10	10	9	8	8	9.0	13.9
29-Sep	7	5	3	3	4	3	3	3	3	5	9	11	12	12	11	10	10	8	7	8	7	6	6	4	6.6	12.4
30-Sep	3	3	3	2	2	2	2	2	2	3	3	4	4	5	6	7	7	6	3	1	-1	-1	0	0	2.9	7.3
10.3 9.9 9.4 9.1 9.1 8.9 8.8 10.1 12.2 14.5 16.6 18.1 18.7 19.2 19.4 19.3 18.8 17.2 15.1 13.1 12.1 11.3 11.0 10.4																									Diurnal Average	
16.2 15.0 15.6 14.0 15.6 16.1 16.1 16.3 17.6 22.8 25.1 27.1 28.9 30.5 31.4 30.7 27.8 26.1 23.6 20.5 21.3 17.4 19.1 19.1																									Diurnal Maximum	
P - Power Failure																										

Hourly Averages for External Temperature at Portable-Kinuso September 2009



Peace Airshed Zone Association
Summary of Hourly Averages

Portable-Kinuso
September 1, 2009 to October 1, 2009
WS (km/h), WD (deg)

Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1 Spd	2	2	3	2	2	3	3	4	4	2	3	2	2	3	7	10	10	5	3	4	6	4	6	5	1.7	9.6
Dir	182	182	181	183	137	155	142	162	158	66	50	31	29	10	26	31	36	52	115	135	152	189	177	173	108.6	31.2
2 Spd	5	6	4	2	5	8	6	4	4	3	3	1	1	1	2	2	2	1	0	1	1	1	1	4	1.7	8.5
Dir	174	181	192	133	175	180	164	159	142	184	32	342	334	347	327	339	339	349	77	94	185	188	185	179	172.2	179.8
3 Spd	6	5	9	8	8	8	4	3	3	4	4	8	9	9	11	9	8	4	3	3	4	2	1	0	4.5	11.1
Dir	170	191	174	172	167	163	143	158	157	129	136	162	158	117	114	111	116	65	38	310	201	163	92	50	144.9	113.6
4 Spd	2	2	2	7	4	2	3	4	4	3	4	5	5	4	4	3	3	4	3	2	3	2	3	3	2.6	6.7
Dir	222	166	195	168	191	230	194	275	265	262	255	257	256	251	252	217	178	178	181	180	147	176	193	162	213.3	167.9
5 Spd	4	5	4	5	7	10	10	9	7	5	2	4	5	6	12	12	8	5	2	1	1	1	2	1	1.9	12.0
Dir	174	176	180	184	187	172	163	168	175	183	119	31	12	17	27	33	64	119	16	148	267	247	277	360	132.5	27.0
6 Spd	1	2	3	3	3	10	10	6	9	8	10	6	8	8	4	3	2	1	2	1	1	2	2	3	3.4	10.0
Dir	243	123	65	6	127	152	129	157	138	146	137	131	130	158	183	262	300	222	210	248	199	202	209	192	150.0	136.7
7 Spd	2	3	4	2	4	3	8	10	10	7	6	4	5	3	7	7	5	5	5	5	6	5	5	5	4.8	9.6
Dir	227	212	185	179	195	203	180	180	172	179	216	228	231	187	185	200	223	205	223	221	188	216	204	227	199.3	172.4
8 Spd	7	8	7	6	5	6	4	5	6	P	P	4	5	5	5	3	4	4	3	3	2	2	2	4	4.1	7.6
Dir	196	199	212	201	214	229	239	241	241	P	P	242	248	236	231	210	221	197	214	223	233	31	174	183	219.2	199.1
9 Spd	4	2	3	2	2	2	1	4	3	2	2	2	2	5	4	4	1	1	2	2	2	4	2	3	1.0	4.6
Dir	173	199	166	177	173	157	136	177	134	53	43	76	22	359	3	354	231	198	179	173	160	165	170	180	151.4	358.6
10 Spd	2	2	3	3	2	2	2	2	3	3	3	3	2	3	3	2	2	2	3	5	7	10	9	8	2.6	9.6
Dir	177	178	182	191	184	203	196	239	243	244	252	246	257	266	256	316	359	150	149	174	164	158	164	168	191.0	158.1
11 Spd	9	9	10	10	9	9	11	11	11	9	8	9	9	11	10	8	9	7	5	5	4	4	5	7	8.2	10.8
Dir	168	168	167	169	180	178	173	171	157	163	165	162	157	159	159	158	152	147	148	153	180	181	186	190	165.8	172.6
12 Spd	8	7	4	2	2	4	6	5	4	1	1	1	3	4	6	2	2	4	5	4	7	9	8	7	2.7	8.8
Dir	193	187	194	75	137	170	165	150	148	217	232	258	333	338	357	325	25	136	142	175	171	174	173	202	173.8	174.0
13 Spd	6	2	4	4	5	7	9	7	6	1	3	4	5	4	4	4	9	5	2	2	1	2	4	2	2.3	9.3
Dir	189	142	119	174	162	163	166	154	129	48	15	356	358	345	6	113	118	108	105	83	218	208	181	185	137.4	165.7
14 Spd	2	1	5	4	5	6	3	1	2	2	2	3	9	8	5	5	3	2	1	1	1	2	2	3	2.7	8.5
Dir	81	113	180	190	190	179	160	160	163	35	19	146	158	158	145	130	126	120	140	188	189	184	174	170	158.2	157.7
15 Spd	6	7	8	3	5	6	7	5	3	2	1	2	2	3	3	4	3	0	1	1	2	1	1	2	2.1	8.4
Dir	179	181	184	191	183	179	175	175	165	265	264	272	282	274	328	352	352	350	152	171	188	172	143	157	191.6	183.9
16 Spd	4	3	2	4	2	2	3	2	3	1	2	10	13	13	12	10	9	5	5	6	2	6	9	8	5.4	13.0
Dir	188	140	139	169	170	123	141	143	164	92	35	119	123	116	118	115	115	111	129	142	151	132	152	149	130.1	115.8
17 Spd	3	1	3	3	3	3	0	3	3	3	3	3	3	4	5	4	4	5	6	6	7	9	9	8	3.5	8.9
Dir	133	196	182	212	237	263	170	244	271	274	252	243	197	179	167	181	192	176	171	175	170	178	176	182	190.8	177.9
18 Spd	9	8	8	9	9	8	9	8	4	3	1	2	3	3	3	2	2	5	5	6	8	11	8	6	5.5	11.1
Dir	184	180	181	176	185	175	172	192	172	152	151	175	200	235	233	224	144	169	156	148	148	146	146	158	171.3	145.5
19 Spd	7	6	5	5	8	4	3	2	2	3	2	2	4	3	3	3	3	3	2	2	3	2	2	2	3.0	8.2
Dir	183	190	184	184	180	199	210	167	188	169	202	261	265	251	241	233	225	248	209	196	224	211	225	214	206.1	180.2
20 Spd	3	3	4	4	4	4	4	5	6	7	5	6	6	5	5	5	4	2	2	1	1	2	3	3	3.2	6.6
Dir	254	257	252	257	256	252	257	260	270	277	274	282	297	284	292	287	278	345	193	157	138	146	163	184	263.9	277.0
21 Spd	3	4	7	9	9	10	10	10	9	4	7	5	5	6	5	6	6	5	2	3	3	4	5	2	4.4	10.3
Dir	152	165	177	173	170	167	169	175	182	167	178	202	271	270	270	270	273	259	216	225	186	243	184	152	196.4	175.2
22 Spd	2	3	4	6	8	8	8	10	10	8	6	3	5	6	6	4	2	1	2	3	7	4	8	10	4.8	9.8
Dir	167	185	189	188	175	178	184	173	173	172	181	183	257	265	265	269	281	139	179	202	191	188	188	187	191.7	187.1

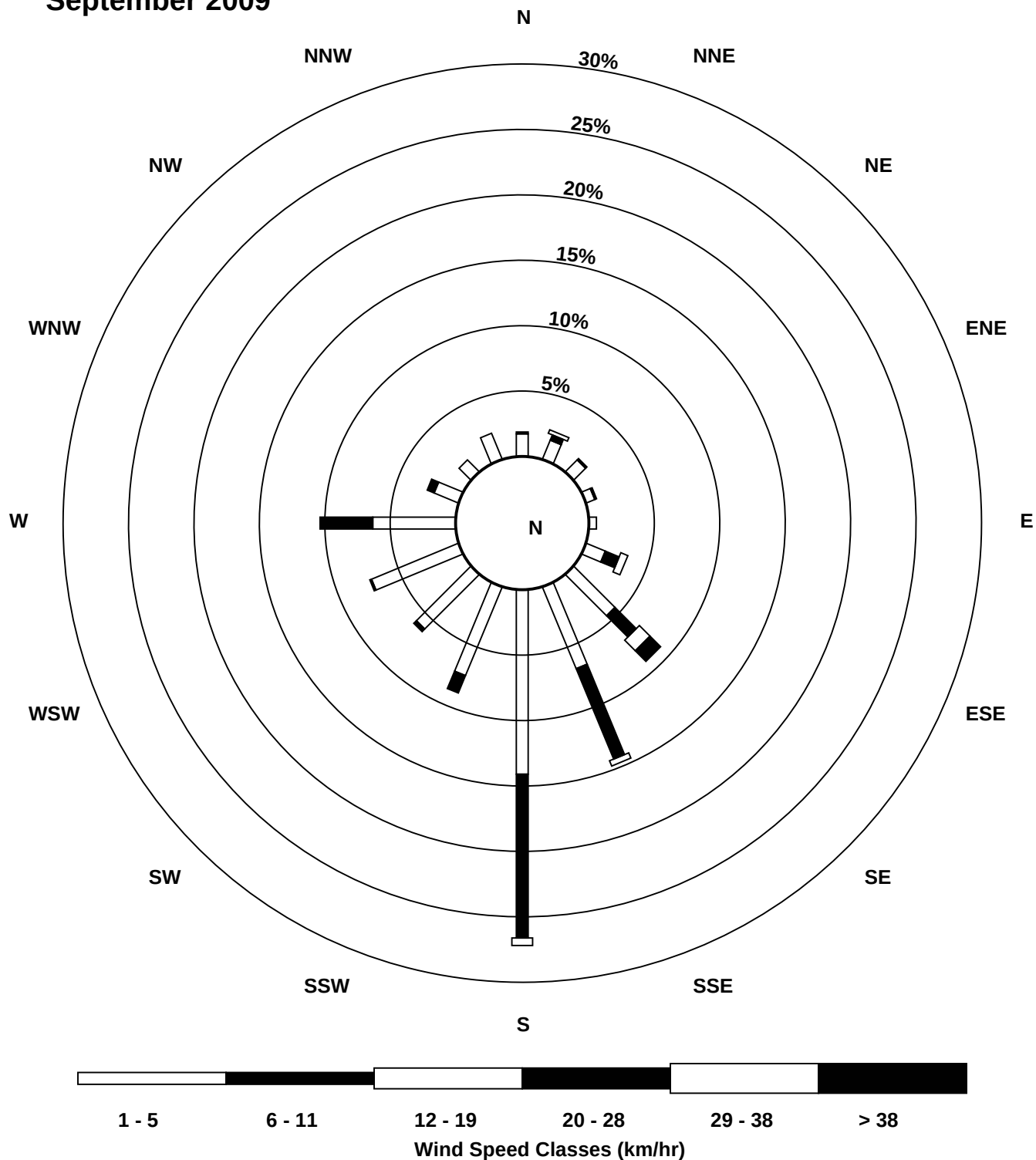
Peace Airshed Zone Association
Summary of Hourly Averages

Portable-Kinuso
 September 1, 2009 to October 1, 2009
 WS (km/h), WD (deg)

Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24								
23 Spd	12	12	12	12	7	5	8	11	9	5	6	7	7	8	8	0	1	2	7	8	10	8	8	10	7.4	12.5						
Dir	186	179	180	180	177	163	171	174	168	175	156	164	169	161	158	168	334	195	151	150	153	198	178	191	172.4	178.5						
24 Spd	10	10	7	3	2	2	3	6	7	7	6	5	6	6	6	5	4	2	2	1	2	3	4	3	3.4	10.3						
Dir	188	178	178	217	197	156	194	261	271	273	267	277	270	276	272	262	269	273	216	161	203	191	197	196	233.0	187.9						
25 Spd	3	3	6	8	10	12	12	12	9	7	8	6	4	4	4	4	2	1	4	3	4	6	5	3	5.5	12.4						
Dir	186	197	184	176	174	168	169	164	164	172	175	181	219	208	218	226	226	240	272	225	196	185	172	201	183.5	168.6						
26 Spd	4	4	3	3	4	4	3	4	4	6	6	7	7	6	6	8	8	7	7	5	6	6	7	7	5.4	8.5						
Dir	254	237	228	228	255	253	239	255	255	268	264	277	274	289	275	268	271	262	276	281	282	271	270	276	266.7	268.4						
27 Spd	6	6	4	5	5	4	3	2	2	3	4	4	5	4	5	4	3	1	3	1	3	7	7	9	2.6	8.7						
Dir	278	280	267	273	277	277	262	303	292	290	294	307	319	317	313	322	329	231	199	105	189	178	173	189	267.3	188.8						
28 Spd	10	6	4	2	8	14	15	14	17	22	26	28	21	21	26	25	21	18	16	12	13	13	11	9	15.1	28.1						
Dir	189	188	189	205	151	145	141	138	137	142	142	143	144	140	146	143	141	138	136	139	121	126	138	138	142.7	143.0						
29 Spd	6	1	2	8	6	3	5	3	5	5	5	2	3	5	4	2	1	1	2	3	4	3	3	3	1.4	7.7						
Dir	127	122	137	127	137	190	173	196	189	183	155	99	332	337	338	293	235	199	217	250	250	250	278	297	190.1	126.6						
30 Spd	5	4	4	4	4	3	4	4	4	4	4	3	3	3	3	3	4	1	1	2	2	5	11	11	2.6	11.4						
Dir	286	262	253	247	257	275	269	260	270	277	273	264	267	277	282	301	325	34	158	180	176	185	176	170	241.7	170.5						
Spd	4.2	4.0	4.3	4.1	4.5	4.9	5.1	4.6	4.1	2.8	2.3	2.2	1.8	1.5	1.1	0.9	1.1	2.0	2.2	2.5	3.3	3.7	4.5	4.4	Diurnal Average							
Dir	188.3	187.7	184.1	183.4	182.7	178.8	171.6	181.0	177.2	182.1	176.8	183.5	201.8	194.2	184.3	175.3	149.0	157.2	166.3	174.0	174.8	177.1	176.7	182.2	Diurnal Maximum							
Spd	11.7	12.5	11.7	12.2	10.0	14.1	14.9	13.7	16.7	22.2	25.6	28.1	21.4	21.5	25.5	25.3	21.3	18.4	15.9	12.5	12.7	13.2	11.3	11.4	Diurnal Maximum							
Dir	186.1	178.5	180.4	180.4	173.5	144.6	140.9	137.7	137.1	141.7	142.1	143.0	143.9	140.1	146.0	142.9	141.3	138.2	136.3	138.5	121.3	125.6	175.5	170.5								
Maximum Speed Value: 28 km/h on Sep 28 12:00																		Minimum Speed Value: 0 km/h on Sep 17 07:00												Hours in Service:		720
Maximum Daily Speed Average: 15.1 km/h on Sep 28																		Minimum Daily Speed Average: 1.0 km/h on Sep 9												Hours of Data:		718
Maximum Diurnal Speed Average: 5.1 km/h at hour 7																		Minimum Diurnal Speed Average: 0.9 km/h at hour 16												Hours of Missing Data:		2
Monthly Average Velocity: 3.14 km/h 179.53 deg																		Speed Percentiles: P ₁ = 0.7 P ₁₀ = 1.7 Q ₁ = 2.6 Median = 4.2 Q ₃ = 6.7 P ₉₀ = 9.3 P ₉₉ = 21.3												Percent Operational Time:		99.7
All monthly, daily, and diurnal averages have been calculated using vector methods																																
P - Power Failure																																
Frequency Distribution																																
		Speed Range (km/h)																														
Direction		0 to 5	5 to 11	11 to 19	19 to 28	28 to 38	> 38	Total																								
North		27	2	0	0	0	0	29																								
NorthEast		18	5	2	0	0	0	25																								
East		11	3	0	0	0	0	14																								
SouthEast		61	40	15	7	1	0	124																								
South		152	141	9	0	0	0	302																								
SouthWest		77	6	0	0	0	0	83																								
West		76	41	0	0	0	0	117																								
NorthWest		21	3	0	0	0	0	24																								
Total		443	241	26	7	1	0	718																								

Wind Rose for WS at Portable-Kinuso

September 2009



Peace Airshed Zone Association
Summary of Hourly Averages - Wind Speed (Scalar)

Portable-Kinuso - Wind Speed (WS) - km/h
September 1, 2009 to October 1, 2009

Maximum Speed: 28 km/h on Sep 28 12:00																				Maximum Daily Speed Average: 15.8 km/h on Sep 28					Hours in Service: 720	
Minimum Speed: 1 km/h on Sep 2 22:00																				Minimum Daily Speed Average: 3.0 km/h on Sep 9					Hours of Data: 718	
Maximum Diurnal Speed Average: 6.9 km/h at hour 15																				Minimum Diurnal Speed Average: 3.9 km/h at hour 19					Hours of Missing Data: 2	
Monthly Average Speed: 5.61 km/h																				Percentiles: P ₁ = 1.1 P ₁₀ = 2.4 Q ₁ = 3.4 Median = 4.8 Q ₃ = 7.3 P ₉₀ = 9.6 P ₉₉ = 21.7					Percent Operational Time: 99.7	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	2	2	3	2	2	3	3	4	4	3	4	4	5	4	7	10	10	5	4	5	6	4	6	6	4.5	9.6
2-Sep	5	6	5	3	5	9	6	4	5	4	3	2	1	1	2	2	2	2	1	1	1	1	1	5	3.2	8.6
3-Sep	7	5	9	8	8	8	5	4	3	5	5	9	10	10	11	10	8	5	4	3	6	6	3	3	6.4	11.4
4-Sep	6	3	3	7	5	3	3	4	6	4	5	6	6	5	5	4	4	4	3	2	3	2	4	4	4.2	7.2
5-Sep	5	6	5	6	8	10	10	10	8	6	4	5	6	6	12	12	8	6	4	2	2	2	2	3	6.1	12.2
6-Sep	3	5	4	4	4	10	10	7	9	8	10	7	9	8	6	4	3	2	2	3	2	2	3	3	5.4	10.3
7-Sep	3	3	4	2	4	4	8	10	10	7	7	5	6	4	7	8	6	5	5	6	6	6	6	5	5.7	9.8
8-Sep	7	8	7	7	6	7	5	6	7	P	P	6	6	5	5	4	4	4	4	4	4	3	3	4	5.3	8.1
9-Sep	4	3	3	3	2	2	2	4	3	3	3	3	3	5	4	5	2	2	2	2	2	4	2	3	3.0	4.8
10-Sep	2	2	3	3	2	3	2	3	4	4	4	4	4	4	4	4	3	2	3	5	7	10	9	9	4.1	9.7
11-Sep	9	9	10	10	9	9	11	11	11	9	8	10	10	11	10	9	9	7	5	5	4	5	6	7	8.5	11.1
12-Sep	8	8	4	3	2	5	7	5	4	3	3	3	4	5	6	3	3	4	5	4	7	9	9	7	5.1	8.9
13-Sep	7	4	5	4	5	7	9	8	7	3	4	4	5	5	4	5	9	5	3	3	2	3	4	2	4.9	9.5
14-Sep	2	2	5	4	5	6	5	2	2	3	2	3	9	8	5	5	3	2	1	1	1	2	2	3	3.6	9.1
15-Sep	6	8	9	3	6	6	7	5	3	3	2	3	3	3	3	5	3	1	1	2	3	2	2	3	3.9	8.5
16-Sep	4	4	3	5	3	3	3	2	3	2	3	11	13	13	13	11	10	6	5	7	3	7	10	9	6.3	13.3
17-Sep	4	4	4	4	3	4	2	3	4	4	4	3	3	4	5	5	4	5	6	7	7	9	9	9	4.8	9.0
18-Sep	9	8	9	10	9	8	9	9	5	4	2	3	4	4	4	3	3	5	5	6	8	11	8	7	6.3	11.2
19-Sep	7	6	5	5	9	5	4	3	2	3	2	3	5	4	4	4	3	4	2	3	3	3	3	3	3.9	8.5
20-Sep	4	4	4	5	5	5	5	6	7	7	6	7	7	6	6	5	5	3	2	2	2	3	4	3	4.8	7.4
21-Sep	3	4	7	9	10	10	10	10	9	4	7	7	7	7	6	6	7	5	3	4	3	5	5	3	6.3	10.4
22-Sep	2	3	4	6	8	8	8	10	10	8	6	4	6	7	7	5	3	2	2	3	7	5	8	10	6.0	10.0
23-Sep	12	13	12	12	8	6	8	11	9	6	7	8	8	8	8	5	2	3	7	8	10	8	8	10	8.1	12.7
24-Sep	11	10	7	5	3	3	4	7	7	7	7	6	7	6	7	6	4	3	2	3	2	3	4	3	5.3	10.5
25-Sep	4	4	6	9	10	12	13	12	9	7	8	7	5	5	5	5	2	2	4	4	5	6	6	5	6.5	12.5
26-Sep	6	5	4	4	4	5	4	5	5	7	7	8	8	7	7	9	8	8	8	6	6	7	7	8	6.4	9.2
27-Sep	7	7	5	6	5	5	4	4	4	5	5	5	6	6	6	5	4	2	3	4	4	7	7	9	5.1	8.8
28-Sep	10	6	4	3	8	14	15	14	17	23	26	28	22	22	26	26	22	19	16	13	13	14	11	9	15.8	28.5
29-Sep	6	2	3	8	6	3	5	4	5	5	6	4	4	6	4	3	2	2	2	4	5	4	4	4	4.2	7.8
30-Sep	5	5	5	5	5	4	4	5	5	5	4	4	4	4	4	4	4	2	2	3	2	5	11	11	4.7	11.5
5.6 5.3 5.3 5.5 5.7 6.2 6.4 6.3 6.2 5.6 5.7 6.1 6.5 6.5 6.9 6.3 5.4 4.3 3.9 4.1 4.5 5.2 5.6 5.6																									Diurnal Average	
11.8 12.7 11.8 12.3 10.1 14.2 15.1 13.9 16.9 22.5 26.0 28.5 21.9 21.8 25.8 25.6 21.5 18.7 16.1 12.8 13.1 13.5 11.5 11.4																									Diurnal Maximum	
P - Power Failure																										
All monthly, daily, and diurnal averages have been calculated using scalar methods																										

Peace Airshed Zone Association
Summary of Hourly Standard Deviations

Portable-Kinuso - Wind Direction (WD) - deg
September 1, 2009 to October 1, 2009

Maximum Value: 96.8 deg on Sep 4 00:00																								Hours in Service: 720	
Minimum Value: 5.5 deg on Oct 1 00:00																								Hours of Data: 718	
																								Hours of Missing Data: 2	
Percentiles: P ₁ = 6.7 P ₁₀ = 10.6 Q ₁ = 15.8 Median = 32.1 Q ₃ = 45.8 P ₉₀ = 59.6 P ₉₉ = 85.3																								Hours of Calibration: 0	
																								Percent Operational Time: 99.7	
Day	Hourly Period Ending At (MST)																								Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Sep	15	11	18	27	39	34	30	20	18	59	52	74	83	67	19	6	6	19	33	31	14	18	11	22	83.2
2-Sep	13	17	37	58	25	11	19	24	28	65	57	57	59	48	36	41	50	64	66	70	32	26	22	30	70.2
3-Sep	18	16	8	10	14	12	26	29	38	23	38	21	24	21	15	19	18	28	41	34	53	82	79	97	96.8
4-Sep	70	51	38	25	66	45	37	40	49	64	51	44	41	51	47	53	19	13	14	24	25	40	23	24	69.8
5-Sep	41	42	33	25	13	11	7	10	14	19	61	48	35	38	11	13	15	20	67	42	81	59	43	94	94.4
6-Sep	67	83	53	73	56	18	16	31	13	29	15	39	28	16	51	59	73	79	47	64	56	25	49	33	83.0
7-Sep	41	54	21	28	29	30	11	9	12	35	41	42	46	44	18	25	45	32	41	45	35	38	39	31	53.6
8-Sep	22	23	34	29	38	37	49	41	41	P	P	45	41	39	40	44	43	24	47	39	60	59	29	14	59.6
9-Sep	11	39	17	43	22	35	51	22	26	73	77	57	65	23	29	30	54	40	13	11	17	19	26	17	77.0
10-Sep	28	23	18	17	17	22	44	48	64	47	48	52	64	51	57	63	81	35	22	10	12	7	9	8	81.5
11-Sep	9	9	8	9	13	10	11	10	9	14	15	14	18	14	13	14	12	10	16	16	17	16	14	11	17.5
12-Sep	8	8	32	41	49	26	17	27	40	76	73	86	45	38	24	62	53	15	10	12	21	9	18	8	86.2
13-Sep	25	73	19	25	28	15	10	18	18	79	40	43	27	34	42	53	12	15	39	25	32	25	13	48	79.3
14-Sep	59	71	14	11	11	11	65	86	29	46	42	72	20	22	25	22	17	13	19	23	14	9	10	9	85.9
15-Sep	12	12	12	33	20	15	11	25	25	62	71	52	75	48	34	39	53	88	51	39	50	54	54	44	87.6
16-Sep	31	33	26	24	29	40	37	26	34	71	49	27	16	13	18	16	16	22	32	22	55	27	11	25	71.5
17-Sep	71	80	39	52	45	50	89	47	47	61	49	52	28	19	16	24	29	16	11	21	13	11	11	11	89.4
18-Sep	9	10	11	15	8	12	12	19	38	31	72	79	47	48	48	55	41	12	11	10	8	7	14	22	79.0
19-Sep	11	24	24	21	17	53	62	55	38	16	55	59	37	45	47	43	38	41	33	20	35	47	62	53	62.4
20-Sep	50	42	44	50	43	48	40	36	36	36	44	38	46	49	46	44	45	88	27	47	55	28	27	16	88.0
21-Sep	21	23	12	10	12	9	12	9	16	19	14	41	45	39	45	37	36	37	36	40	32	39	16	34	45.4
22-Sep	22	26	12	13	12	9	9	10	12	13	15	56	41	40	40	57	74	55	43	27	20	43	18	11	74.3
23-Sep	7	11	7	8	20	19	13	7	8	16	19	19	20	18	16	90	73	38	12	6	15	12	16	15	90.3
24-Sep	14	12	10	51	66	50	41	37	28	31	35	46	38	32	36	43	48	54	45	55	23	33	26	20	66.1
25-Sep	32	30	19	9	7	6	7	11	12	15	15	36	47	45	40	43	57	69	41	36	36	14	18	55	68.6
26-Sep	52	58	58	52	43	33	42	39	43	40	38	32	36	37	37	30	33	30	34	37	38	36	27	36	58.2
27-Sep	32	33	38	29	43	52	61	66	67	51	50	47	37	54	47	43	52	73	7	82	38	11	10	9	81.8
28-Sep	9	10	18	42	12	7	8	10	10	9	10	9	12	11	9	9	9	10	10	14	14	13	11	15	42.1
29-Sep	14	76	59	11	20	14	24	27	19	21	32	78	70	33	29	66	50	37	41	45	41	39	56	38	77.7
30-Sep	33	46	41	45	48	42	44	44	41	50	39	53	49	61	59	60	40	72	36	44	28	21	9	5	72.0
71.2 83.0 58.9 73.0 66.1 53.3 89.4 85.9 67.3 79.3 77.0 86.2 83.2 67.3 58.9 90.3 81.5 88.0 66.9 81.8 81.1 81.5 78.8 96.8																									
P - Power Failure																									

PASZA

Valleyview Station

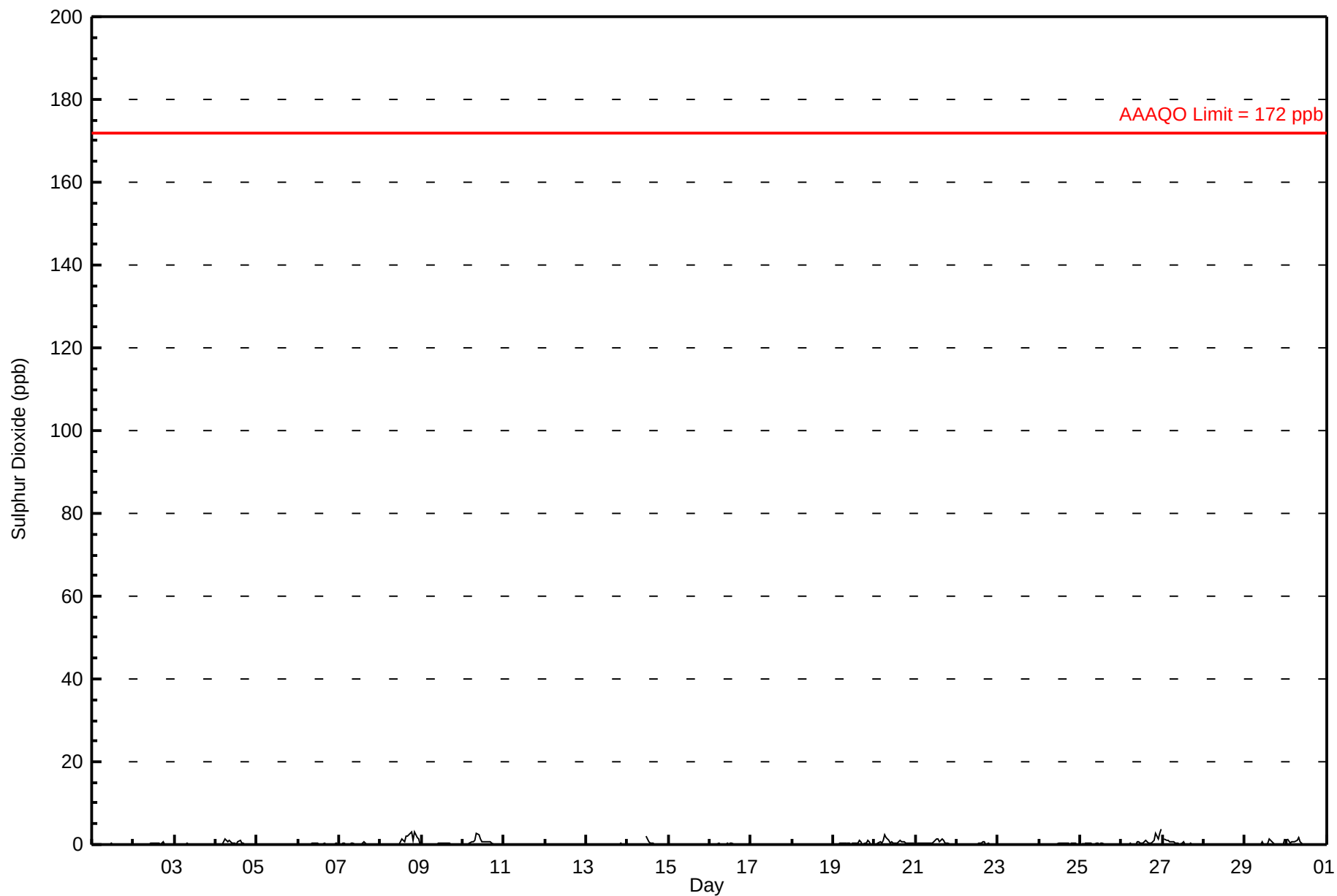
Monthly Summary Tables, Graphs and Roses

Peace Airshed Zone Association
Summary of Hourly Averages

Valleyview - Sulphur Dioxide (SO₂) - ppb
September 1, 2009 to October 1, 2009

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0 Maximum Value: 3.8 ppb on Sep 27 00:00 Maximum Daily Average: 0.9 ppb on Sep 8																				Hours in Service: 720 Hours of Data: 684 Hours of Missing Data: 36 Hours of Calibration: 36 Percent Operational Time: 100.0						
Minimum Value: 0 ppb on Sep 1 02:00 Maximum Diurnal Average: 0.3 ppb at hour 16 Monthly Average: 0.22 ppb										Minimum Daily Average: 0.0 ppb on Sep 11 Minimum Diurnal Average: 0.1 ppb at hour 3 Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.1 Q ₃ = 0.2 P ₉₀ = 0.6 P ₉₉ = 2.5																
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	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	0.2
2-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.1	0.6
3-Sep	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	0.2
4-Sep	A	0	0	0	0	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.3	1.2
5-Sep	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
6-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
7-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.1	0.6
8-Sep	A	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	3	3	1	3	2	1	0	0.9	3.2
9-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
10-Sep	A	0	0	0	0	1	1	1	3	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0.6	2.9
11-Sep	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
12-Sep	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
13-Sep	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
14-Sep	A	0	0	0	0	0	0	0	0	C	C	2	1	0	0	0	0	0	0	0	0	0	0	0	0.2	2.0
15-Sep	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
16-Sep	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
17-Sep	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
18-Sep	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
19-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0.3	0.9
20-Sep	A	0	0	1	0	1	2	2	1	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0.6	2.3
21-Sep	A	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	1	0	0	0	0	0	0	0	0.5	1.5
22-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.1	0.7
23-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
24-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
25-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
26-Sep	A	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0	1	1	3	2	3	4	0.8	3.8
27-Sep	A	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.4	1.5
28-Sep	A	0	0	0	0	0	0	0	0	0	0	C	C	C	0	A	0	0	0	0	0	0	0	0	0.0	0.1
29-Sep	A	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	2	0.3	1.5
30-Sep	A	2	0	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.7
-- 0.2 0.1 0.1 0.1 0.2 0.3 0.3 0.3 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.1 0.3 0.2 0.2 0.2																									Diurnal Average	
-- 1.5 1.0 0.9 0.6 1.2 2.3 1.7 2.9 2.4 1.3 2.0 1.5 1.5 1.4 2.1 2.0 2.7 3.2 1.0 2.9 1.7 2.6 3.8																									Diurnal Maximum	
C - Calibration A - Automated Daily Zero Span																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 57 ppb																										

Hourly Averages for SO₂ at Valleyview September 2009



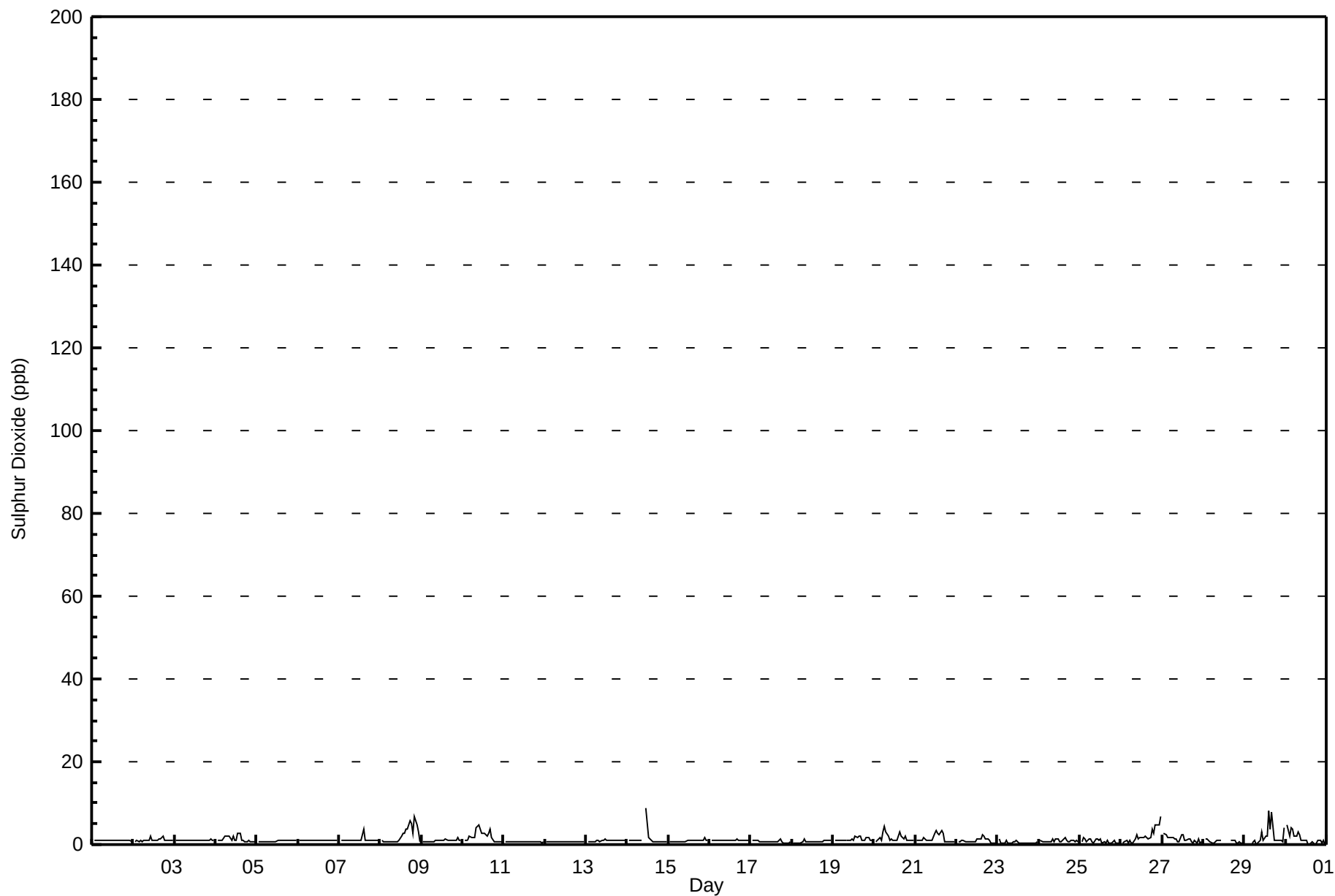
Peace Airshed Zone Association
Summary of Hourly Maximums

Valleyview - Sulphur Dioxide (SO₂) - ppb
September 1, 2009 to October 1, 2009

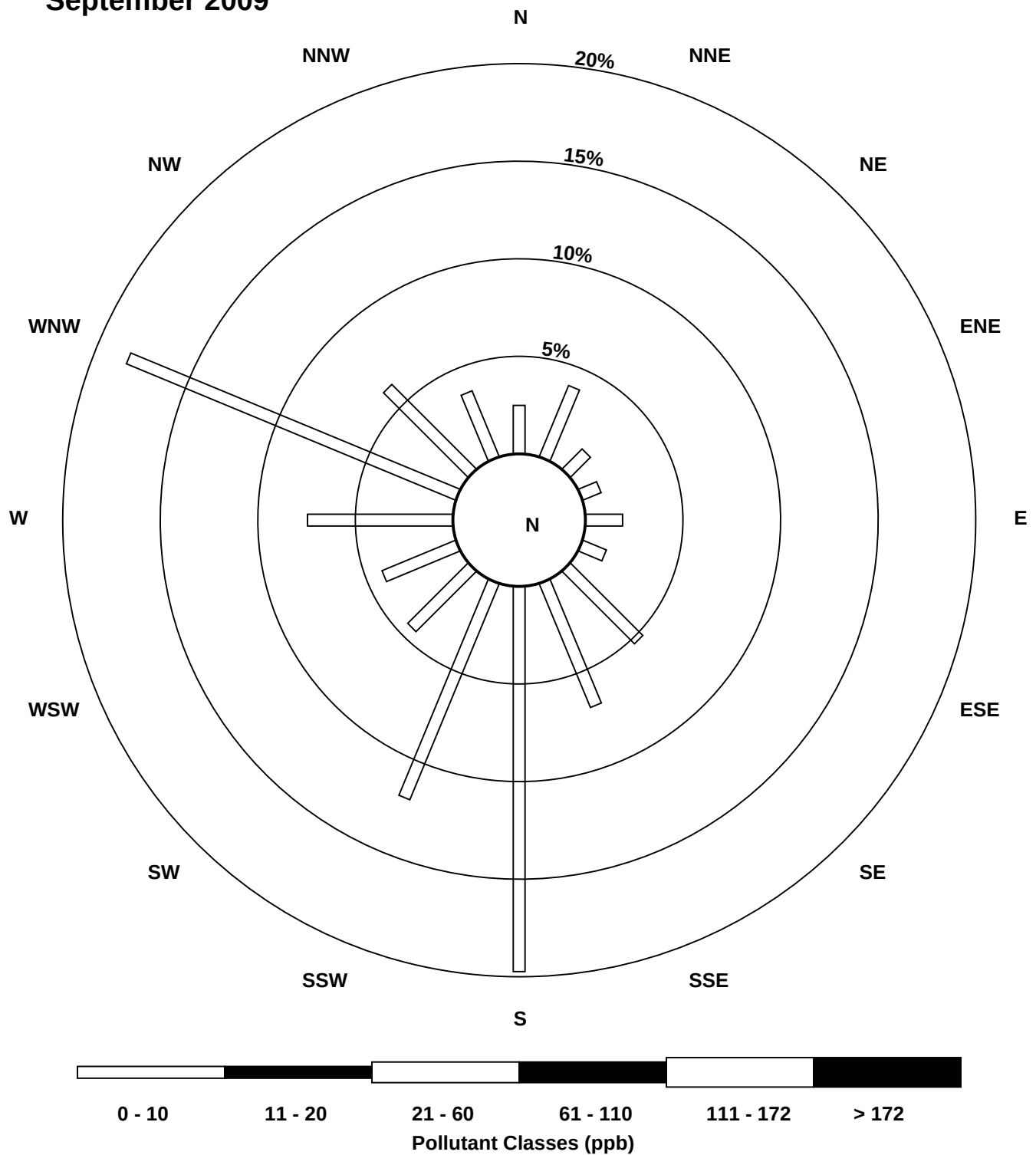
Maximum Value: 8.8 ppb on Sep 14 12:00																				Maximum Daily Average: 2.3 ppb on Sep 8					Hours in Service: 720	
Minimum Value: 0 ppb on Sep 30 15:00																				Minimum Daily Average: 0.6 ppb on Sep 23					Hours of Data: 684	
Maximum Diurnal Average: 1.5 ppb at hour 15																				Minimum Diurnal Average: 0.9 ppb at hour 3					Hours of Missing Data: 36	
Monthly Average: 1.14 ppb																				Percentiles: P ₁ = 0.1 P ₁₀ = 0.5 Q ₁ = 0.8 Median = 0.9 Q ₃ = 1.1 P ₉₀ = 1.9 P ₉₉ = 4.9					Hours of Calibration: 36	
																				Percent Operational Time: 100.0						
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.0
2-Sep	A	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1.1	2.0
3-Sep	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	1.3
4-Sep	A	1	1	1	1	2	2	2	2	1	2	1	1	3	3	1	1	1	1	1	1	1	1	1	1.3	2.9
5-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.0
6-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.1
7-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1.1	3.7
8-Sep	A	1	1	1	1	1	1	1	1	1	1	1	2	3	3	4	4	6	5	3	7	5	3	1	2.3	6.8
9-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1	0.9	1.6
10-Sep	A	1	1	1	2	2	2	2	4	5	4	3	3	3	2	3	4	2	1	1	1	1	1	1	2.0	4.8
11-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0.6	0.6
12-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
13-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
14-Sep	A	1	1	1	1	1	1	1	1	C	C	9	2	1	1	1	1	1	1	1	1	1	1	1	1.3	8.8
15-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	0.9	1.6
16-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3
17-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0.7	1.2
18-Sep	A	0	0	0	0	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.5
19-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	2	2	2	1	1	1.2	1.9
20-Sep	A	1	1	2	1	3	5	3	2	1	1	1	1	1	2	3	2	1	2	1	1	1	1	1	1.6	4.6
21-Sep	A	1	1	1	1	2	1	1	1	1	1	3	3	3	2	3	3	1	1	1	1	1	1	1	1.4	3.4
22-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	1	1	1	0	0	0	0	0.9	2.5
23-Sep	A	1	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.6	1.4
24-Sep	A	1	1	1	1	1	1	1	1	1	2	2	1	1	1	2	1	1	1	1	1	1	1	1	0.8	1.5
25-Sep	A	1	2	2	1	1	1	1	0	1	1	1	1	0	1	0	1	0	0	1	1	0	0	0	0.9	1.5
26-Sep	A	0	1	1	0	1	0	0	1	2	2	2	2	2	2	2	1	2	4	3	5	5	5	7	2.1	6.7
27-Sep	A	3	2	2	2	2	2	1	1	1	1	2	2	1	1	1	1	1	0	1	0	1	0	1	1.3	2.7
28-Sep	A	1	1	1	1	0	0	1	1	1	1	C	C	C	1	A	1	1	1	0	0	1	0	0	0.8	1.2
29-Sep	A	0	0	0	0	1	1	0	1	1	3	1	2	2	8	4	8	1	1	1	1	1	1	4	1.8	8.1
30-Sep	A	5	2	4	4	2	2	3	2	1	1	1	1	0	0	1	0	0	0	1	1	0	1	0	1.4	4.6
--																								Diurnal Average		
--																								Diurnal Maximum		
C - Calibration																								A - Automated Daily Zero Span		

Hourly Maximums for SO₂ at Valleyview

September 2009



Pollutant Rose for SO₂ at Valleyview **September 2009**

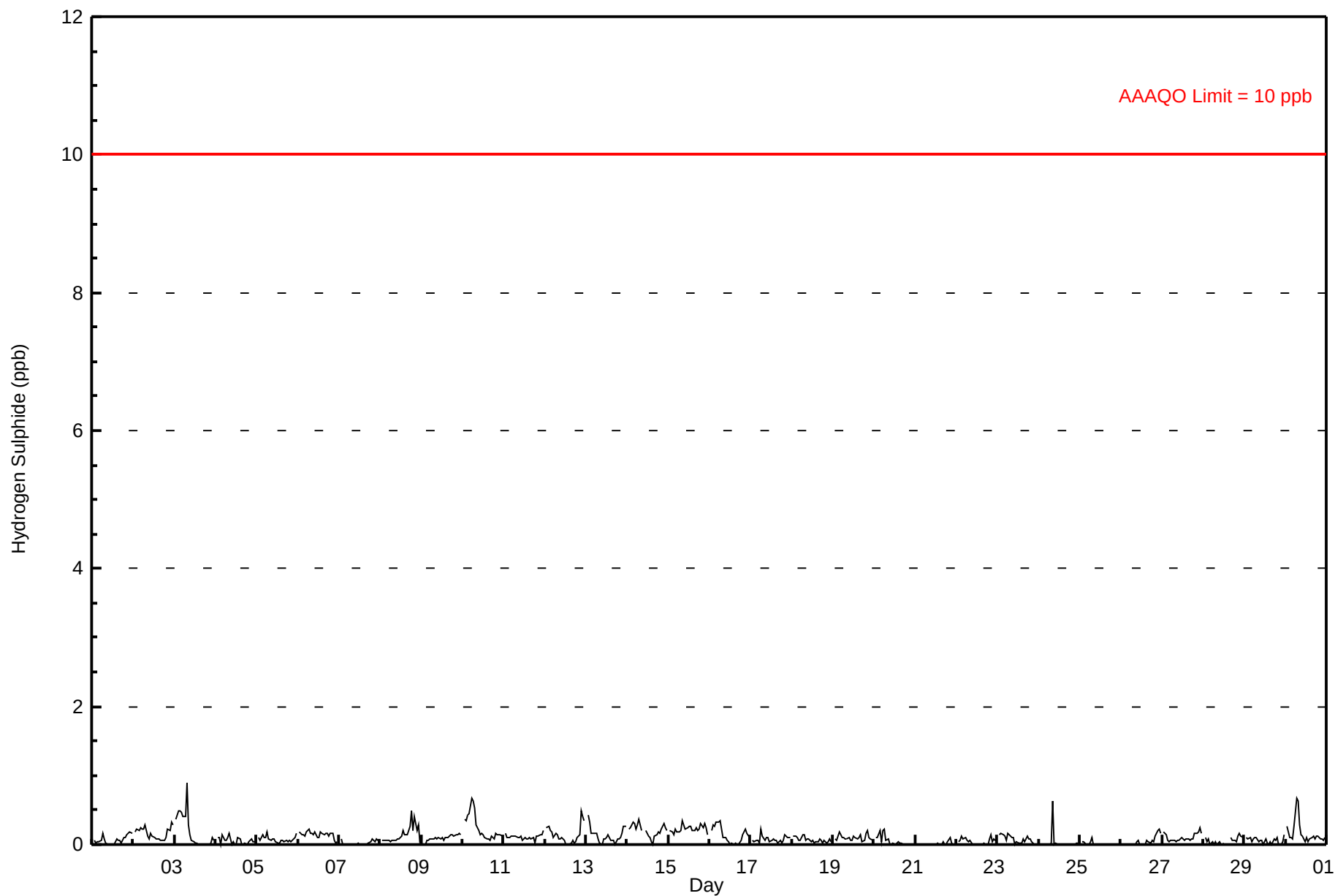


**Peace Airshed Zone Association
Summary of Hourly Averages**

**Valleyview - Hydrogen Sulphide (H₂S) - ppb
September 1, 2009 to October 1, 2009**

Number of Exceedences (AAAQO): 1-hr: 0 24-hr: 0																			Hours in Service: 720							
Maximum Value: 0.9 ppb on Sep 3 08:00 Maximum Daily Average: 0.2 ppb on Sep 10																			Hours of Data: 685							
Minimum Value: 0 ppb on Sep 1 11:00 Minimum Daily Average: 0.0 ppb on Sep 21																			Hours of Missing Data: 35							
Maximum Diurnal Average: 0.2 ppb at hour 7 Minimum Diurnal Average: 0.1 ppb at hour 15																			Hours of Calibration: 35							
Monthly Average: 0.10 ppb Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.1 Q ₃ = 0.1 P ₉₀ = 0.2 P ₉₉ = 0.5																			Percent Operational Time: 100.0							
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	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	0.2
2-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
3-Sep	A	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.9
4-Sep	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	0.2
5-Sep	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	0.2
6-Sep	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	0.2
7-Sep	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
8-Sep	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	0.5
9-Sep	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	0.2
10-Sep	A	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
11-Sep	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	0.2
12-Sep	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	0.5
13-Sep	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
14-Sep	A	0	0	0	0	0	0	0	0	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
15-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
16-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
17-Sep	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	0.2
18-Sep	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	0.1
19-Sep	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	0.2
20-Sep	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
21-Sep	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
22-Sep	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
23-Sep	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	0.2
24-Sep	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	0.6
25-Sep	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
26-Sep	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
27-Sep	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	0.2
28-Sep	A	0	0	0	0	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	0	0	0.1	0.2
29-Sep	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	0.1
30-Sep	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
--		0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Diurnal Average	
--		0.4	0.5	0.5	0.5	0.7	0.7	0.9	0.6	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.5	0.3	0.4	0.5	0.4	0.3	Diurnal Maximum	
C - Calibration		A - Automated Daily Zero Span																								
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 10 ppb 24-hr 3 ppb																										

Hourly Averages for H₂S at Valleyview September 2009

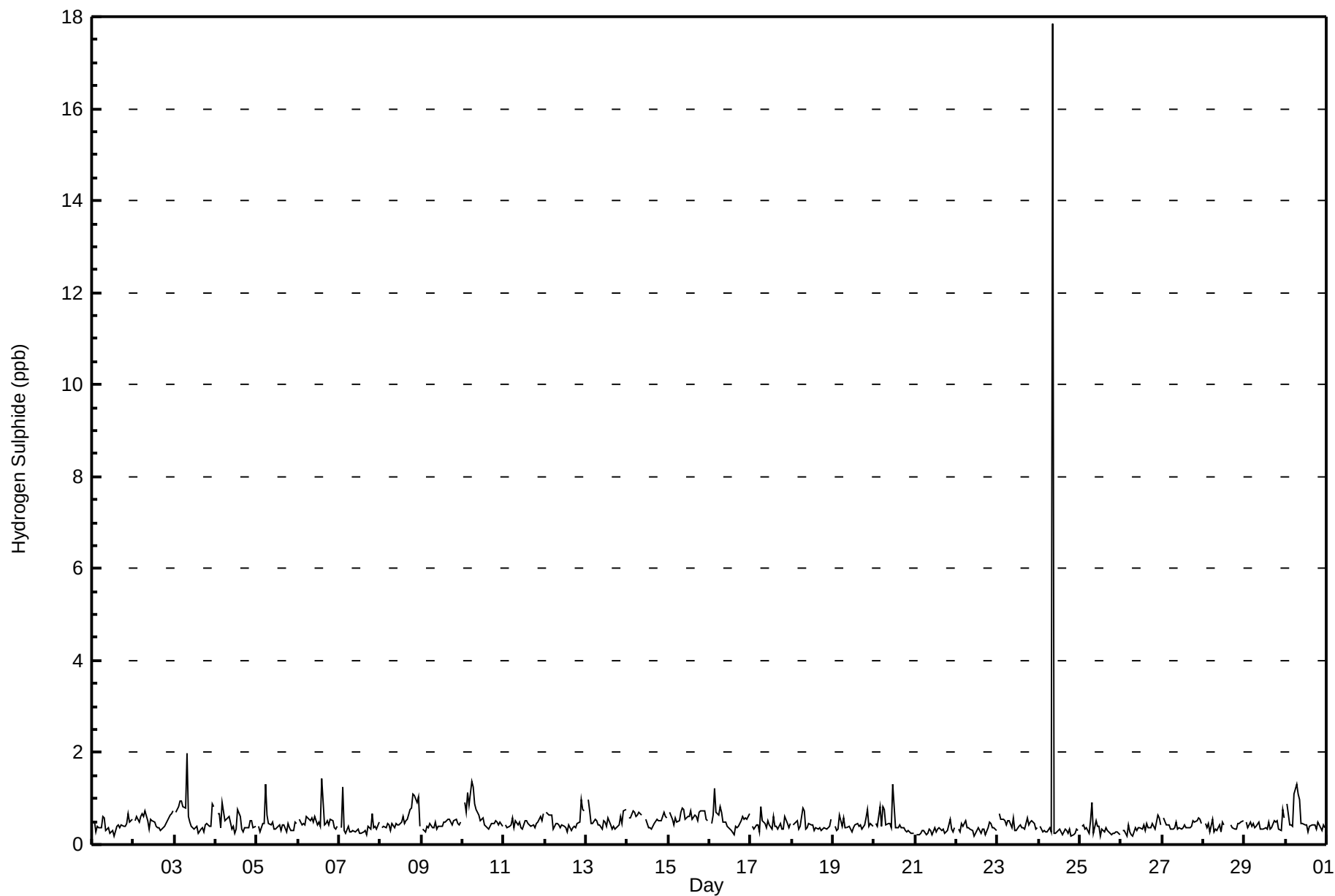


**Peace Airshed Zone Association
Summary of Hourly Maximums**

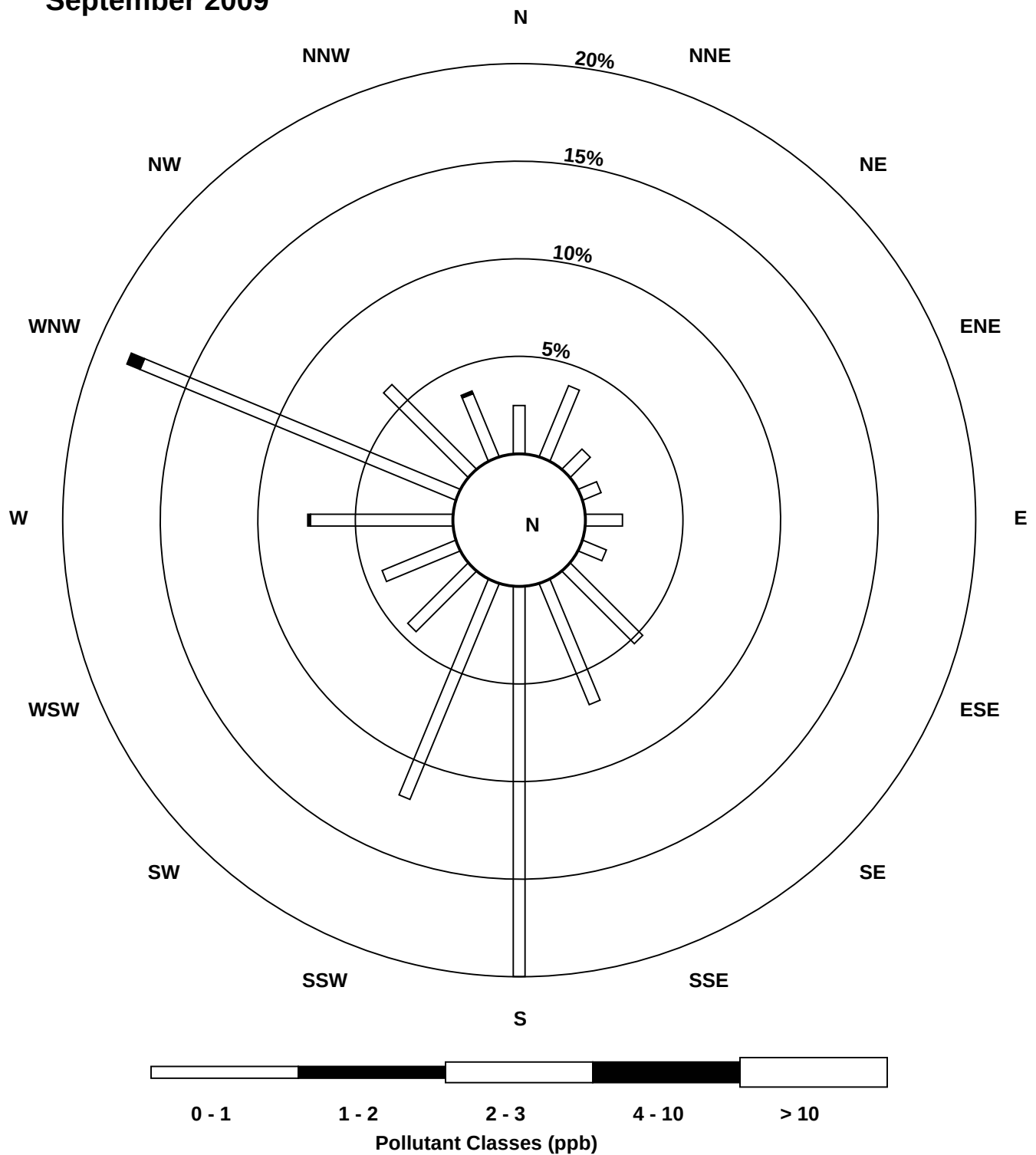
**Valleyview - Hydrogen Sulphide (H₂S) - ppb
September 1, 2009 to October 1, 2009**

Maximum Value: 17.9 ppb on Sep 24 09:00																				Maximum Daily Average: 1.1 ppb on Sep 24					Hours in Service: 720		
Minimum Value: 0 ppb on Sep 26 08:00																				Minimum Daily Average: 0.3 ppb on Sep 21					Hours of Data: 685		
Maximum Diurnal Average: 1.1 ppb at hour 9																				Minimum Diurnal Average: 0.4 ppb at hour 17					Hours of Missing Data: 35		
Monthly Average: 0.49 ppb																				Percentiles: P ₁ = 0.2 P ₁₀ = 0.3 Q ₁ = 0.3 Median = 0.4 Q ₃ = 0.5 P ₉₀ = 0.7 P ₉₉ = 1.3					Hours of Calibration: 35		
																				Percent Operational Time: 100.0							
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1-Sep	A	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.4	0.7	
2-Sep	A	1	1	0	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0.5	0.7
3-Sep	A	1	1	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.6	2.0	
4-Sep	A	1	1	0	1	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0.5	0.9
5-Sep	A	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.3	
6-Sep	A	1	0	0	0	1	1	1	1	0	1	0	0	0	1	0	0	1	0	1	1	0	0	0	0.5	1.4	
7-Sep	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.4	1.3	
8-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	0.6	1.1	
9-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0.4	0.5	
10-Sep	A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0.6	1.4	
11-Sep	A	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	0.5	0.7	
12-Sep	A	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.5	1.0	
13-Sep	A	1	1	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	0.5	1.0	
14-Sep	A	1	1	1	1	1	1	1	1	C	C	1	0	0	0	0	0	1	1	1	1	1	1	1	0.6	0.7	
15-Sep	A	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8	
16-Sep	A	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0.5	1.2	
17-Sep	A	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0.4	0.8	
18-Sep	A	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4	0.8	
19-Sep	A	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0.4	0.7	
20-Sep	A	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.3	
21-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.3	0.5	
22-Sep	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5	
23-Sep	A	1	1	1	1	0	1	1	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0.5	0.7	
24-Sep	A	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	17.9	
25-Sep	A	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9	
26-Sep	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.4	0.6	
27-Sep	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0.4	0.6	
28-Sep	A	0	0	0	0	1	0	0	0	0	0	0	0	C	C	C	0	0	0	0	0	0	0	1	0.4	0.6	
29-Sep	A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	0.4	0.8	
30-Sep	A	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	1.3	
--																								Diurnal Average			
--																								Diurnal Maximum			
C - Calibration																								A - Automated Daily Zero Span			

Hourly Maximums for H₂S at Valleyview September 2009



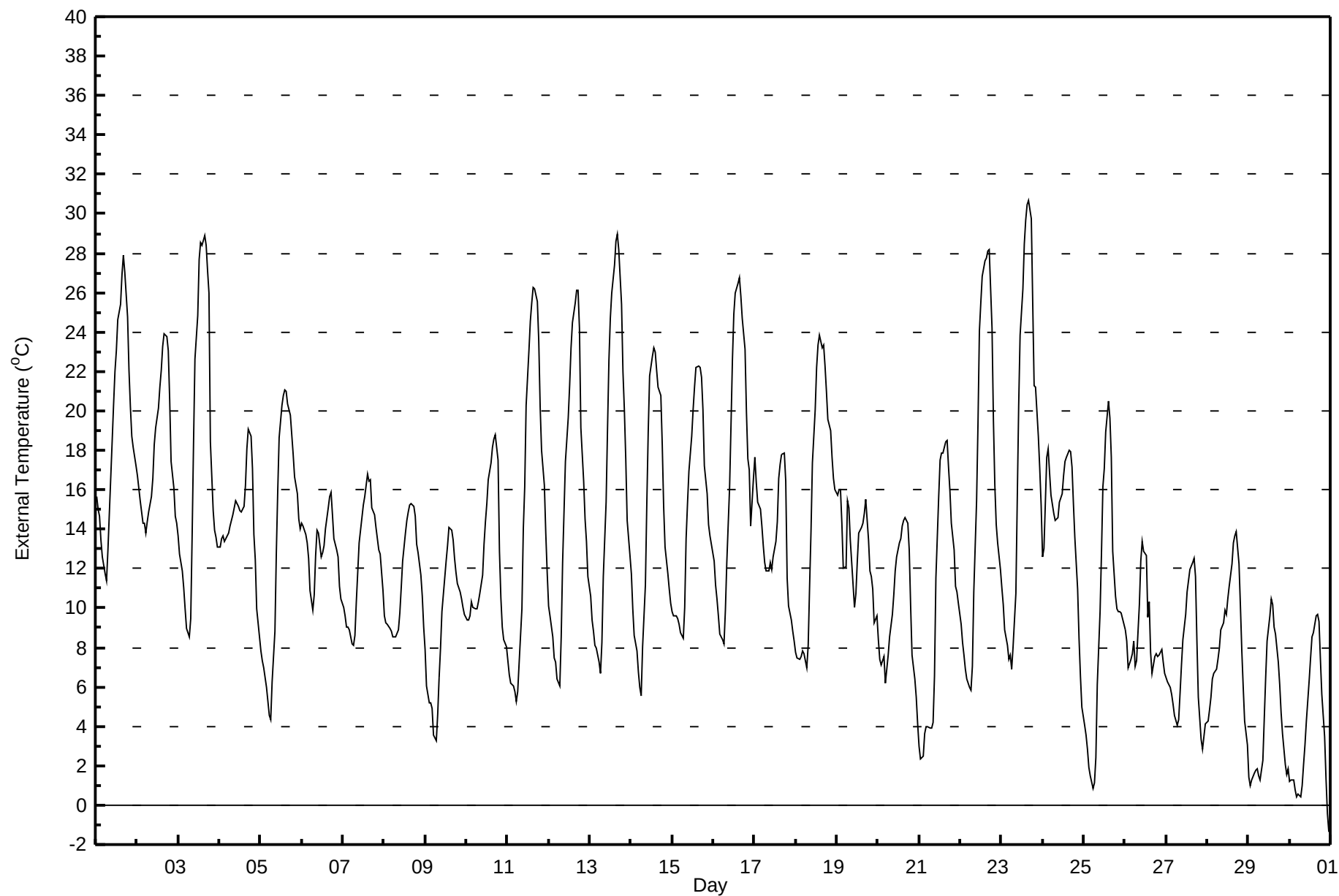
Pollutant Rose for H₂S at Valleyview **September 2009**



Valleyview - External Temperature (ET) - °C
September 1, 2009 to October 1, 2009

Prepared by FOCUS

Hourly Averages for External Temperature at Valleyview September 2009

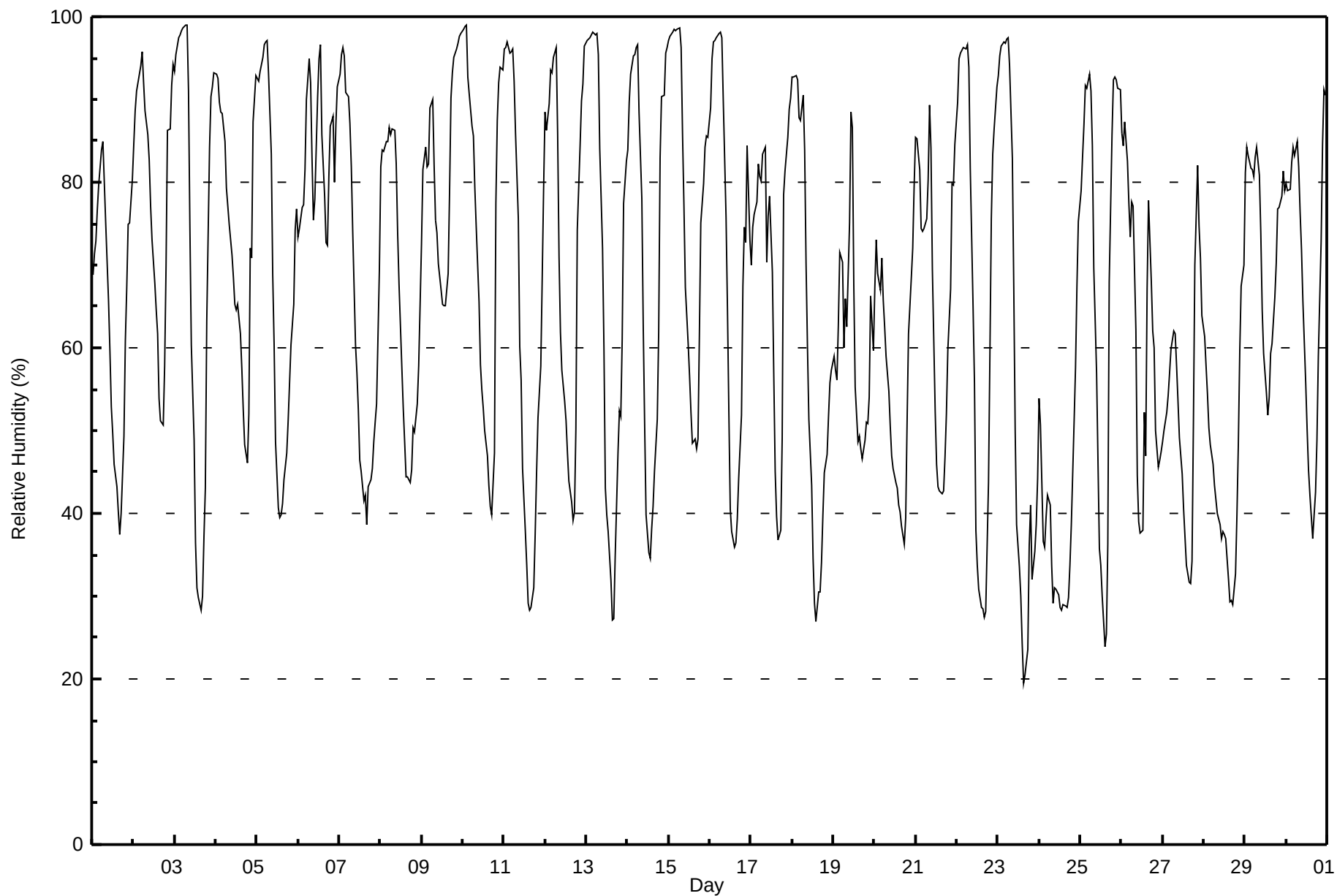


Peace Airshed Zone Association
Summary of Hourly Averages

Valleyview - Relative Humidity (RH) - %
September 1, 2009 to October 1, 2009

Maximum Value: 99.0 % on Sep 10 03:00																				Maximum Daily Average: 83.4 % on Sep 6					Hours in Service: 720	
Minimum Value: 19 % on Sep 23 16:00																				Minimum Daily Average: 39.7 % on Sep 24					Hours of Data: 720	
Maximum Diurnal Average: 84.5 % at hour 6																				Minimum Diurnal Average: 41.7 % at hour 16					Hours of Missing Data: 0	
Monthly Average: 66.53 %																				Percentiles: P ₁ = 27.1 P ₁₀ = 36.9 Q ₁ = 47.4 Median = 68.8 Q ₃ = 85.8 P ₉₀ = 95.0 P ₉₉ = 98.4					Hours of Calibration: 0	
																									Percent Operational Time: 100.0	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	69	71	73	77	80	84	85	80	75	66	60	53	50	46	43	40	37	40	49	61	67	75	75	80	64.0	84.9
2-Sep	84	89	91	93	94	96	92	89	86	83	77	73	68	65	62	54	51	51	58	70	86	86	92	94	78.4	95.7
3-Sep	93	95	97	98	98	99	99	99	91	74	60	49	37	31	30	28	30	37	43	63	84	90	91	93	71.3	99.0
4-Sep	93	93	90	88	88	85	79	77	75	71	69	65	65	65	62	58	53	48	46	52	72	71	87	93	72.7	93.0
5-Sep	93	92	93	95	97	97	97	93	83	69	60	49	41	39	40	41	44	47	51	56	60	65	74	77	68.9	97.1
6-Sep	73	74	77	77	82	90	95	92	83	75	78	90	95	97	86	78	73	72	81	87	88	80	87	91	83.4	96.6
7-Sep	93	95	96	95	91	90	87	82	74	60	57	53	46	45	41	42	39	43	44	45	49	51	53	70	64.3	96.3
8-Sep	82	84	84	85	85	87	86	86	86	82	74	68	58	53	49	44	44	44	45	50	50	53	58	65	66.7	86.7
9-Sep	73	82	84	82	82	89	90	82	76	74	70	67	65	65	65	69	79	90	93	95	96	97	98	98	81.7	98.0
10-Sep	98	99	99	93	91	87	86	79	75	66	58	55	53	50	47	43	41	40	47	78	88	92	94	94	72.9	99.0
11-Sep	96	96	97	96	96	96	92	86	76	60	56	45	38	34	29	28	29	31	38	45	52	58	68	79	63.3	96.9
12-Sep	88	86	90	94	93	95	96	86	71	62	57	54	51	47	44	41	39	40	50	74	84	90	92	96	71.8	96.4
13-Sep	97	97	98	98	98	98	98	95	84	72	60	43	40	38	32	27	27	35	47	52	52	61	77	83	67.0	98.1
14-Sep	84	90	93	95	95	96	97	89	78	63	51	40	35	35	38	41	45	51	62	83	90	90	96	96	72.2	96.6
15-Sep	97	98	98	98	98	99	99	96	86	77	67	61	57	52	48	49	48	49	61	75	80	84	86	85	77.0	98.7
16-Sep	89	95	97	97	98	98	98	97	90	76	65	52	40	38	36	36	39	44	52	68	75	73	84	73	71.3	98.2
17-Sep	70	75	76	78	82	81	80	83	84	70	76	78	69	57	45	40	37	38	49	78	81	85	89	90	70.5	90.2
18-Sep	93	93	93	92	88	88	91	84	70	60	51	43	35	29	27	31	31	34	40	45	47	52	56	57	59.5	92.9
19-Sep	59	57	56	63	72	70	60	66	62	75	89	87	68	55	49	49	48	47	49	51	51	54	66	60	60.9	88.6
20-Sep	67	73	69	67	71	66	63	59	55	50	47	45	44	43	41	40	38	36	39	51	62	69	72	79	56.1	79.4
21-Sep	85	85	82	74	74	74	76	80	89	84	69	52	46	43	43	42	43	47	52	60	67	80	80	85	67.2	89.3
22-Sep	90	95	96	96	96	96	97	94	82	65	56	38	34	31	29	28	28	28	44	59	76	83	86	92	67.3	96.6
23-Sep	93	95	96	97	97	97	97	94	83	67	50	39	34	30	24	19	20	23	36	41	32	35	39	44	57.7	97.5
24-Sep	54	51	37	36	39	42	41	34	29	31	31	30	29	28	29	29	29	30	34	39	51	58	68	75	39.7	75.2
25-Sep	79	83	87	92	91	93	91	84	70	57	46	36	34	30	24	25	36	68	86	92	93	92	91	91	69.7	93.0
26-Sep	86	84	87	83	77	73	78	77	62	45	39	38	38	52	47	67	78	68	62	60	50	46	46	48	62.1	87.3
27-Sep	49	50	52	54	57	60	62	62	58	53	49	45	40	37	34	32	32	34	51	70	82	75	71	64	53.0	82.1
28-Sep	61	58	54	50	48	46	43	42	40	39	37	38	37	37	32	29	29	29	33	40	48	59	67	70	44.5	70.0
29-Sep	81	84	83	82	81	81	83	84	81	74	64	59	54	52	54	59	61	66	70	77	77	78	81	79	72.8	84.3
30-Sep	80	79	79	82	84	83	85	82	76	72	66	56	50	45	42	37	40	43	49	59	73	85	91	90	67.8	91.1
81.7 83.3 83.5 83.6 84.1 84.5 84.1 81.2 74.3 65.8 59.6 53.3 48.3 45.6 42.4 41.7 42.2 45.1 52.0 62.5 68.7 72.3 77.2 79.7																									Diurnal Average	
98.4 98.9 99.0 98.4 98.4 98.7 99.0 98.9 91.0 84.0 88.6 90.4 94.9 96.6 85.8 78.3 78.8 90.1 93.2 95.2 96.1 96.7 97.6 98.0																									Diurnal Maximum	

Hourly Averages for Relative Humidity at Valleyview September 2009



Peace Airshed Zone Association
Summary of Hourly Averages

Valleyview
September 1, 2009 to October 1, 2009
WS (km/h), WD (deg)

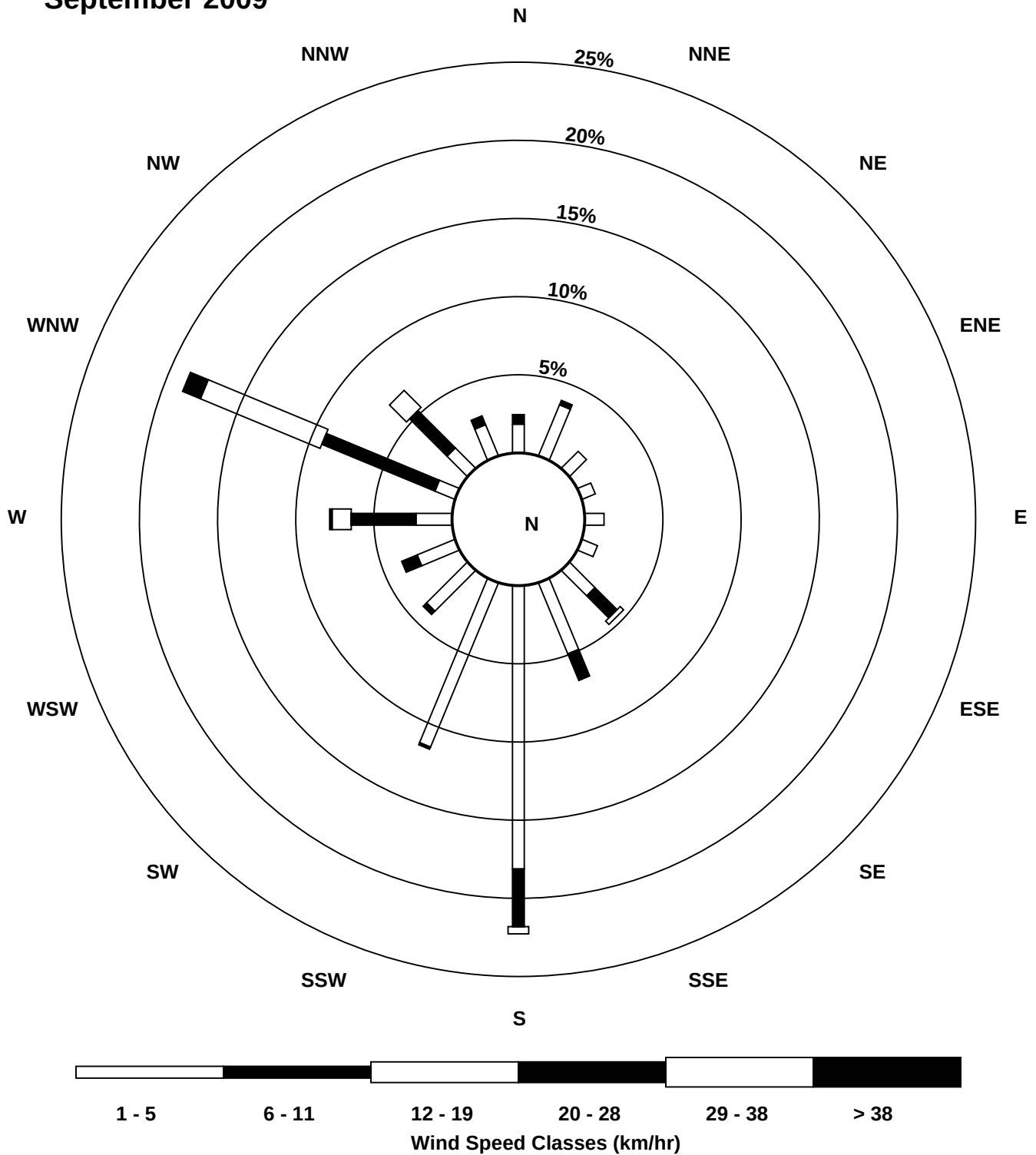
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1 Spd	5	7	5	3	3	2	2	1	2	2	2	3	3	3	4	2	1	3	3	3	3	2	1	1	1.3	6.5
Dir	19	20	22	1	15	45	27	142	102	160	173	153	147	143	148	148	252	15	16	23	25	32	100	209	54.1	20.4
2 Spd	2	1	2	2	1	2	1	1	2	3	5	11	11	9	6	8	5	6	2	1	1	0	1	1	2.2	11.3
Dir	189	161	352	351	207	164	174	339	178	204	288	303	310	330	330	309	320	4	79	121	335	245	205	60	313.7	310.0
3 Spd	2	1	1	1	1	1	0	1	1	2	2	6	6	10	12	11	11	7	3	11	9	2	4	3	2.7	11.7
Dir	317	301	302	186	228	165	284	332	239	144	142	134	141	139	134	132	134	130	111	242	183	308	280	233	157.1	133.7
4 Spd	3	6	8	8	6	5	4	3	10	11	17	15	13	10	10	10	9	7	6	2	2	2	3	3	6.6	17.4
Dir	280	285	285	300	291	273	290	290	289	298	294	301	300	291	292	312	328	313	304	291	193	248	176	176	294.2	294.5
5 Spd	3	1	2	1	1	1	1	2	1	1	2	2	5	8	8	8	8	7	6	5	4	3	6	6	2.3	8.3
Dir	176	206	188	197	199	198	323	183	143	142	47	92	130	134	140	156	145	143	139	109	84	24	354	354	130.7	140.0
6 Spd	5	6	4	4	2	0	0	1	2	4	2	2	2	1	4	3	2	2	1	1	8	5	1	2	0.5	7.8
Dir	14	18	13	42	52	336	233	166	189	176	207	239	187	73	339	108	99	116	194	204	303	307	175	189	359.5	303.3
7 Spd	1	2	2	2	4	4	4	5	6	5	4	6	10	13	14	12	14	13	7	7	6	5	6	10	5.7	13.6
Dir	172	189	184	189	190	191	191	191	192	200	217	249	263	271	271	270	260	267	239	239	227	210	231	269	243.5	270.5
8 Spd	10	8	8	7	11	10	12	9	8	9	11	11	16	15	14	16	11	12	10	9	11	11	8	4	10.2	16.2
Dir	261	249	249	252	264	261	263	266	267	270	270	275	286	289	292	286	289	287	284	274	281	280	275	251	274.5	285.6
9 Spd	3	3	3	4	3	2	3	3	2	3	2	2	2	2	1	2	1	2	2	4	3	2	1	1	1.1	3.9
Dir	216	174	145	183	193	192	188	183	179	187	177	130	134	128	152	153	346	47	5	5	18	23	330	230	166.2	183.3
10 Spd	1	1	2	7	4	6	6	9	8	11	12	10	8	9	8	8	9	6	1	2	2	2	3	2	5.0	12.1
Dir	193	227	228	289	280	289	283	286	280	291	294	307	300	294	287	277	301	296	267	180	200	187	183	198	284.3	294.3
11 Spd	1	1	2	3	1	2	2	4	4	5	5	6	8	7	7	5	5	4	3	5	3	1	1	0	3.5	8.0
Dir	197	194	187	195	192	191	198	190	187	189	194	188	188	180	188	184	175	172	151	163	171	222	199	201	183.6	187.6
12 Spd	0	1	2	1	1	1	1	3	3	4	3	3	3	2	2	2	2	2	1	1	0	3	1	1	1.0	4.0
Dir	289	237	206	197	231	182	146	158	183	188	188	174	141	161	161	79	122	94	69	23	174	354	26	335	161.0	188.0
13 Spd	1	1	1	2	1	0	1	1	2	1	1	2	2	3	3	4	4	3	2	3	2	1	0	2	0.3	4.5
Dir	220	202	224	188	199	163	154	226	188	183	207	184	157	12	34	24	19	56	75	167	208	279	98	347	122.7	18.5
14 Spd	2	1	2	0	1	0	0	0	2	0	4	8	9	8	4	5	2	1	0	2	2	1	2	2	2.0	9.3
Dir	329	300	180	19	340	12	136	229	258	221	184	185	174	170	168	158	169	327	345	148	194	208	171	192	180.3	173.9
15 Spd	2	2	2	2	2	2	2	2	3	5	6	5	5	4	2	4	2	2	0	2	1	2	3	4	1.1	5.6
Dir	189	189	183	169	203	176	156	159	276	298	326	341	315	358	334	36	20	39	129	33	338	19	348	1	335.9	325.9
16 Spd	1	1	1	0	0	0	2	2	2	1	2	3	9	10	9	9	9	5	2	1	1	1	0	9	1.8	9.9
Dir	6	189	89	114	98	346	356	49	25	331	305	163	149	147	151	147	149	148	162	147	58	103	270	287	148.1	146.5
17 Spd	14	6	5	4	3	7	6	2	2	5	1	3	3	5	7	9	10	6	1	2	2	3	3	3	3.3	14.4
Dir	324	349	320	305	353	302	292	264	258	294	262	190	236	265	290	298	296	283	221	180	177	181	175	184	290.1	323.9
18 Spd	1	1	0	2	5	3	3	3	4	5	4	6	3	3	4	5	6	6	6	6	7	6	5	5	4.0	7.4
Dir	131	141	281	180	184	189	191	194	187	183	179	180	213	239	224	173	177	172	180	186	184	183	186	175	185.3	183.7
19 Spd	6	6	5	1	1	2	8	13	10	3	3	3	8	12	10	7	3	3	4	5	6	6	2	3	4.1	13.3
Dir	184	184	185	216	249	311	325	307	294	257	190	196	278	289	290	282	260	249	256	280	275	271	183	252	271.2	307.3
20 Spd	3	2	4	3	5	8	11	13	15	19	19	20	17	16	13	13	12	14	7	3	3	4	3	3	8.4	19.8
Dir	180	200	248	258	263	281	283	282	290	297	303	303	314	301	296	290	289	294	294	230	196	192	194	190	288.2	302.8
21 Spd	3	3	4	6	4	4	2	2	3	3	3	14	19	20	19	17	16	9	3	2	2	2	2	2	5.1	20.3
Dir	175	194	191	187	188	189	215	224	183	194	209	287	288	287	288	286	289	304	329	244	224	182	198	193	267.5	287.2
22 Spd	1	1	1	1	1	1	2	2	3	4	5	9	11	10	12	12	7	2	1	2	2	2	2	2	2.9	12.0
Dir	203	188	221	178	233	199	196	195	184	188	184	261	276	277	288	285	290	301	172	199	178	187	192	201	253.5	288.1

Summary of Hourly Averages

WS (km/h), WD (deg)

Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
23 Spd	1	0	0	1	2	2	2	1	1	2	4	4	4	3	2	4	4	2	1	3	5	4	3	2	2.0	5.0
Dir	214	158	91	231	189	194	185	191	190	179	190	190	193	197	162	146	132	99	63	190	194	189	192	200	180.5	194.3
24 Spd	2	3	11	13	8	9	10	13	18	20	19	17	17	16	14	13	15	14	9	5	2	2	2	2	10.0	20.1
Dir	212	215	310	317	320	315	301	311	302	294	294	294	298	300	312	303	301	311	316	321	202	210	204	208	301.3	294.1
25 Spd	3	4	3	2	2	2	2	2	5	5	6	6	7	5	4	2	5	6	2	2	5	5	4	2	3.2	7.0
Dir	197	195	194	195	196	207	199	197	187	189	188	190	183	181	193	202	269	300	251	203	189	190	196	175	200.6	183.2
26 Spd	3	3	3	3	4	2	2	2	3	18	21	26	27	25	22	20	12	18	13	15	19	19	17	16	12.3	27.1
Dir	187	227	218	230	247	222	195	169	254	285	286	294	288	278	283	294	278	296	293	276	284	288	286	284	282.8	287.8
27 Spd	16	17	15	14	13	12	14	13	16	16	14	12	9	9	7	6	4	2	2	1	0	1	2	3	8.3	17.1
Dir	285	290	290	291	292	295	294	298	299	301	304	293	305	307	314	317	296	2	139	128	33	328	168	158	296.1	289.8
28 Spd	3	4	5	7	10	12	8	7	7	13	16	15	9	6	10	10	8	8	4	2	3	1	1	1	6.4	15.8
Dir	157	163	150	154	141	140	146	156	176	178	178	179	178	170	151	158	155	149	135	85	20	80	3	279	159.0	178.0
29 Spd	3	3	3	3	3	3	2	2	2	2	6	7	8	8	11	14	13	11	8	4	10	8	6	10	4.7	13.7
Dir	165	174	185	188	184	178	206	198	177	182	300	315	307	299	289	293	300	301	299	299	303	300	293	284	287.1	293.1
30 Spd	8	11	8	9	4	6	7	11	13	8	9	11	15	14	11	11	8	4	2	0	1	3	3	4	6.4	14.7
Dir	280	281	268	274	263	286	277	282	292	297	305	313	320	326	306	321	339	319	331	355	193	165	191	191	296.9	320.2
Spd	1.6	1.6	1.8	2.0	1.8	1.9	2.4	2.6	3.4	3.9	4.4	4.9	5.3	5.0	4.6	4.1	3.4	2.9	1.5	1.7	2.0	1.8	1.7	2.0	Diurnal Average	
Dir	259.5	250.4	255.3	260.0	249.3	253.6	266.3	264.7	263.7	262.9	268.6	271.5	275.4	278.9	277.4	279.2	279.9	293.6	276.4	244.7	245.9	259.5	242.6	252.6	Diurnal Maximum	
Spd	15.8	17.1	14.8	14.2	13.2	12.2	13.8	13.3	17.7	20.1	20.7	26.2	27.1	24.8	21.9	20.5	16.0	17.5	13.4	15.3	19.4	18.8	17.3	15.7	Diurnal Maximum	
Dir	284.7	289.8	289.7	291.2	292.0	294.6	294.4	311.2	302.4	294.1	286.5	293.6	287.8	277.9	283.5	294.5	289.3	295.7	293.5	276.2	284.0	287.6	286.2	284.2		
Maximum Speed Value: 27 km/h on Sep 26 13:00								Minimum Speed Value: 0 km/h on Sep 14 04:00												Hours in Service:				720		
Maximum Daily Speed Average: 12.3 km/h on Sep 26								Minimum Daily Speed Average: 0.3 km/h on Sep 13												Hours of Data:				720		
Maximum Diurnal Speed Average: 5.3 km/h at hour 13								Minimum Diurnal Speed Average: 1.5 km/h at hour 19												Hours of Missing Data:				0		
Monthly Average Velocity: 2.78 km/h 267.54 deg								Speed Percentiles: P ₁ = 0.2 P ₁₀ = 1.0 Q ₁ = 1.9 Median = 3.4 Q ₃ = 7.7 P ₉₀ = 12.8 P ₉₉ = 20.1												Percent Operational Time:				100.0		
All monthly, daily, and diurnal averages have been calculated using vector methods																										
Frequency Distribution																										
Speed Range (km/h)																										
Direction	0 to 5		5 to 11		11 to 19		19 to 28		28 to 38		> 38		Total													
North	36		10		0		0		0		0		46													
NorthEast	25		0		0		0		0		0		25													
East	22		0		0		0		0		0		22													
SouthEast	39		26		2		0		0		0		67													
South	200		32		3		0		0		0		235													
SouthWest	62		5		0		0		0		0		67													
West	35		55		40		7		0		0		137													
NorthWest	28		49		39		5		0		0		121													
Total	447		177		84		12		0		0		720													

Wind Rose for WS at Valleyview September 2009



Peace Airshed Zone Association
Summary of Hourly Averages - Wind Speed (Scalar)

Valleyview - Wind Speed (WS) - km/h
September 1, 2009 to October 1, 2009

Maximum Speed: 27 km/h on Sep 26 13:00																				Maximum Daily Speed Average: 13.5 km/h on Sep 26					Hours in Service: 720	
Minimum Speed: 1 km/h on Sep 12 01:00																				Minimum Daily Speed Average: 2.2 km/h on Sep 13					Hours of Data: 720	
Maximum Diurnal Speed Average: 9.5 km/h at hour 13																				Minimum Diurnal Speed Average: 3.6 km/h at hour 23					Hours of Missing Data: 0	
Monthly Average Speed: 5.70 km/h																				Percentiles: P ₁ = 0.9 P ₁₀ = 1.5 Q ₁ = 2.2 Median = 3.9 Q ₃ = 8.1 P ₉₀ = 13.1 P ₉₉ = 20.1					Percent Operational Time: 100.0	
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Sep	5	7	5	3	3	2	2	2	3	2	3	3	4	3	5	3	2	3	3	4	3	2	2	1	3.1	6.6
2-Sep	2	1	2	3	1	2	1	2	2	3	6	11	12	10	7	9	6	6	2	1	2	2	2	2	4.0	11.7
3-Sep	2	2	1	1	2	1	1	1	1	2	3	6	6	10	12	11	11	7	4	13	9	7	5	4	5.2	12.7
4-Sep	3	7	8	8	6	5	6	4	10	11	18	16	13	10	10	10	9	8	7	2	2	3	3	3	7.6	17.6
5-Sep	3	1	2	1	1	1	2	3	2	2	3	3	6	8	9	8	8	7	7	5	4	4	6	6	4.2	8.8
6-Sep	5	6	5	4	2	2	1	2	3	4	2	3	2	2	4	3	3	3	1	1	8	7	2	2	3.2	8.0
7-Sep	1	2	2	2	4	4	4	5	6	5	4	7	11	14	14	12	14	13	7	7	6	5	6	10	6.9	14.2
8-Sep	10	8	8	7	12	10	12	9	8	9	11	11	16	15	15	16	12	12	10	9	11	11	8	4	10.6	16.3
9-Sep	4	4	4	4	3	2	3	4	2	3	2	2	2	2	2	2	1	2	2	4	3	2	1	1	2.5	4.0
10-Sep	1	3	3	7	4	7	6	9	8	12	13	10	9	10	8	8	9	6	2	2	2	2	3	2	6.1	12.5
11-Sep	1	1	2	3	1	2	2	4	4	5	5	7	8	7	7	5	5	4	4	5	4	1	1	1	3.8	8.1
12-Sep	1	1	2	2	2	1	2	3	3	4	3	3	4	3	2	3	3	2	2	2	1	3	2	1	2.2	4.2
13-Sep	2	1	1	2	1	1	1	1	2	2	2	2	2	3	4	4	5	3	2	4	2	1	1	2	2.2	4.7
14-Sep	2	1	2	1	1	1	1	1	2	2	5	9	10	8	5	5	2	2	1	2	2	2	2	2	2.9	9.6
15-Sep	2	2	3	2	2	2	2	2	4	6	6	5	6	5	4	5	2	3	1	2	2	2	3	4	3.3	6.1
16-Sep	3	2	1	1	1	1	2	2	2	1	2	4	10	10	9	9	9	5	2	1	2	2	2	9	3.9	10.2
17-Sep	16	6	5	4	4	7	6	2	2	5	2	3	4	5	8	10	10	7	2	2	2	3	3	3	5.0	15.6
18-Sep	1	2	2	2	5	3	3	3	4	5	5	6	5	5	5	5	7	6	6	6	8	6	5	5	4.6	7.5
19-Sep	6	6	5	2	2	4	8	14	10	4	3	3	9	12	11	7	5	3	4	5	6	6	2	3	5.9	13.6
20-Sep	3	2	4	4	5	8	11	13	16	19	19	20	18	17	14	13	12	14	7	3	3	4	3	3	9.8	20.3
21-Sep	4	3	4	6	4	4	3	2	3	4	5	14	20	21	19	17	16	9	3	2	2	3	2	2	7.2	20.5
22-Sep	1	1	1	1	2	1	2	2	3	4	5	10	12	11	12	12	7	3	2	2	3	2	2	2	4.3	12.5
23-Sep	1	1	1	1	2	2	2	1	2	2	4	4	4	3	3	4	4	3	3	3	5	4	3	3	2.7	5.1
24-Sep	2	3	12	14	8	10	10	14	18	20	20	18	18	17	14	14	15	14	9	5	3	2	3	2	11.0	20.4
25-Sep	3	4	3	2	2	2	2	2	5	5	6	6	7	5	4	2	6	7	4	3	5	5	4	3	4.0	7.1
26-Sep	4	3	3	4	4	4	2	2	5	18	21	27	27	25	22	22	12	18	14	15	20	19	17	16	13.5	27.4
27-Sep	16	17	15	14	13	12	14	13	16	16	14	12	10	10	9	7	4	3	2	1	1	1	2	3	9.4	17.2
28-Sep	3	4	6	7	11	12	8	7	8	13	16	15	10	6	10	10	8	9	4	3	3	2	3	2	7.5	16.1
29-Sep	3	4	3	3	3	3	2	2	3	3	7	7	9	8	11	14	13	12	8	5	10	8	6	10	6.5	14.1
30-Sep	8	11	8	9	5	6	7	11	13	9	10	12	15	14	11	11	9	4	2	1	2	3	3	4	7.8	15.3
3.9 3.9 4.1 4.2 3.9 4.1 4.3 4.8 5.7 6.6 7.4 8.6 9.5 9.3 9.0 8.7 7.6 6.5 4.3 4.1 4.4 4.1 3.6 3.9																									Diurnal Average	
15.9 17.2 14.9 14.3 13.3 12.3 13.9 13.6 18.0 20.4 21.1 26.6 27.4 25.0 22.2 21.5 16.2 17.7 13.8 15.4 19.6 18.9 17.4 15.9																									Diurnal Maximum	
All monthly, daily, and diurnal averages have been calculated using scalar methods																										

Peace Airshed Zone Association
Summary of Hourly Standard Deviations

Valleyview - Wind Direction (WD) - deg
September 1, 2009 to October 1, 2009

Maximum Value: 97.3 deg on Sep 14 04:00																								Hours in Service: 720	
Minimum Value: 4.5 deg on Oct 1 00:00																								Hours of Data: 720	
																								Hours of Missing Data: 0	
																								Hours of Calibration: 0	
																								Percent Operational Time: 100.0	
Percentiles: P ₁ = 6.5 P ₁₀ = 9.2 Q ₁ = 13.0 Median = 21.7 Q ₃ = 40.6 P ₉₀ = 64.9 P ₉₉ = 87.6																									
Day	Hourly Period Ending At (MST)																								Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1-Sep	7	6	9	33	15	33	15	59	49	49	39	54	42	34	29	57	83	19	32	43	23	45	70	44	83.2
2-Sep	34	80	81	86	34	29	30	96	25	27	40	13	16	19	31	35	37	20	32	49	77	95	79	62	96.0
3-Sep	30	92	79	36	57	69	81	59	65	41	47	17	29	15	9	9	8	12	43	33	13	79	45	37	91.9
4-Sep	48	36	24	18	25	24	67	71	12	17	9	11	12	11	13	17	19	19	12	29	35	42	19	16	71.3
5-Sep	19	27	14	42	27	45	70	48	81	56	73	54	27	16	19	16	14	13	8	19	20	26	11	8	81.2
6-Sep	11	10	29	25	30	79	89	33	56	18	30	42	39	72	29	39	43	46	24	80	12	60	64	39	89.0
7-Sep	43	32	12	12	7	8	9	7	6	17	25	27	21	11	22	12	15	13	21	23	24	19	27	18	43.3
8-Sep	19	16	16	14	10	9	7	9	9	8	9	10	11	9	10	9	13	9	8	8	9	7	17	13	19.1
9-Sep	41	24	35	14	18	9	9	13	28	15	33	37	26	35	54	26	79	41	28	14	24	36	63	49	78.7
10-Sep	48	58	31	15	22	19	13	11	10	13	15	17	27	24	20	23	18	20	65	19	21	22	12	24	65.0
11-Sep	51	31	12	22	40	17	36	7	9	11	8	11	12	15	12	16	17	16	13	11	15	49	59	82	82.5
12-Sep	74	37	24	60	61	32	58	15	13	21	29	38	29	52	62	50	39	29	43	83	79	44	39	39	83.0
13-Sep	51	27	20	18	23	88	73	53	33	56	64	32	58	46	39	26	22	26	37	47	42	55	91	52	91.0
14-Sep	34	66	46	97	33	86	66	82	56	86	39	14	15	17	24	13	20	63	81	37	27	58	28	17	97.3
15-Sep	26	15	13	26	25	13	26	23	62	31	26	35	41	45	84	45	39	35	87	27	51	44	21	15	86.9
16-Sep	79	64	62	81	89	83	48	23	29	42	57	61	14	14	18	14	14	13	34	73	65	86	85	42	88.7
17-Sep	23	11	10	28	70	13	15	51	41	14	68	17	39	27	39	24	16	13	47	21	11	8	13	13	69.6
18-Sep	78	83	80	14	7	39	29	43	11	13	19	16	45	55	42	17	14	12	9	7	7	9	7	13	82.9
19-Sep	7	8	11	47	64	84	27	12	20	45	11	26	13	13	15	18	43	33	24	31	12	12	24	20	83.9
20-Sep	17	13	32	48	19	8	8	9	10	10	13	12	14	15	17	14	13	9	11	27	15	16	19	11	47.6
21-Sep	14	7	7	6	14	39	41	31	20	22	39	13	14	9	11	10	11	9	39	33	37	23	14	22	40.9
22-Sep	47	33	23	73	47	63	9	14	18	12	10	31	17	16	17	14	14	76	43	69	39	12	18	32	75.6
23-Sep	46	92	76	78	32	31	12	43	73	42	11	14	16	28	43	32	14	37	79	13	12	9	12	35	92.1
24-Sep	33	24	18	7	12	14	12	11	11	10	11	13	14	14	16	16	11	9	9	18	25	17	20	15	33.4
25-Sep	16	12	15	20	15	30	19	37	9	11	12	13	11	19	22	33	27	20	60	25	7	14	22	58	60.0
26-Sep	44	33	30	28	31	61	60	62	69	10	11	10	9	8	9	18	9	10	14	7	7	7	6	8	69.1
27-Sep	6	6	6	7	7	7	7	8	7	9	13	21	26	26	38	40	26	56	21	69	81	83	36	13	82.6
28-Sep	26	16	12	14	9	9	15	17	14	14	12	12	12	21	14	14	15	15	19	43	22	44	78	66	78.0
29-Sep	23	33	12	22	19	34	40	30	43	66	27	26	28	22	16	14	15	12	10	25	11	12	16	12	66.0
30-Sep	12	13	12	10	24	13	10	8	10	15	16	19	16	16	15	16	16	17	15	78	63	26	8	4	77.6
78.8 92.1 80.7 97.3 88.7 87.7 89.0 96.0 81.2 86.0 73.1 61.4 58.0 71.6 83.6 56.7 83.2 75.6 86.9 83.0 81.1 94.6 91.0 82.5																									

PASZA

Monthly Passive Data Summary

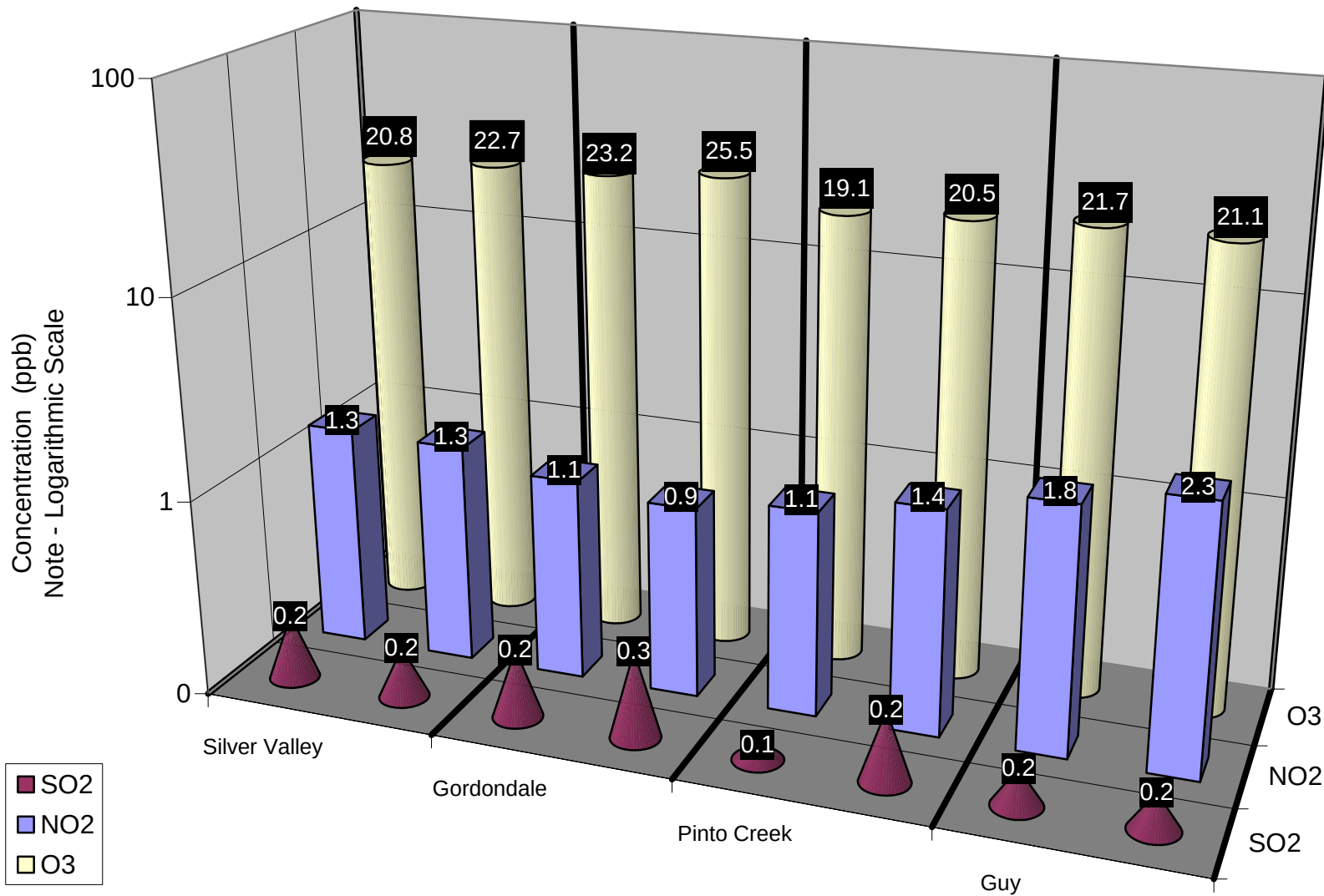
PASZA Passive Results for September 2009

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
1a	Silver Valley	0.2	20.8	1.3	
1b	Silver Valley	0.2	22.7	1.3	
4a	Gordondale	0.2	23.2	1.1	
4b	Gordondale	0.3	25.5	0.9	
25a	Pinto Creek	0.1	19.1	1.1	
25b	Pinto Creek	0.2	20.5	1.4	
36a	Guy	0.2	21.7	1.8	
36b	Guy	0.2	21.1	2.3	
1	Silver Valley	0.2	21.7	1.3	08-27-081-11 W6M
2	Bay Tree	0.1	17.8	0.9	13-16-078-13 W6M
3	Forth Creek	0.3	25.8	1.1	04-13-082-07 W6M
4	Gordondale	0.3	24.3	1.0	04-34-078-10 W6M
5	Boone Creek	0.2	17.8	1.4	01-23-076-11 W6M
7	Steeprock Creek	0.1	21.4	0.7	09-35-072-13 W6M
9	Spirit River	0.2	19.5	1.8	08-12-079-07 W6M
10	Woking	0.4	20.1	1.2	01-13-076-07 W6M
11	Webber Creek	0.3	20.1	1.1	09-36-074-09 W6M
12	Hythe	0.2	18.6	1.5	14-36-072-11 W6M
14	Sylvester	0.1	17.8	0.7	08-06-069-12 W6M
16	Beaverlodge	0.2	26.9	1.6	15-36-071-10 W6M
17	Poplar	0.3	20.5	1.6	13-06-073-08 W6M
18	Saddle Hills	0.2	23.0	0.8	04-25-074-07 W6M
19	Wanham	0.2	24.1	1.2	16-22-077-03 W6M
20	Shaftesbury	0.2	22.3	1.0	04-03-082-23 W5M
21	Eaglesham	0.1	18.6	1.1	16-21-079-25 W5M
23	Bear Lake	0.2	22.0	2.3	15-31-072-06 W6M

PASZA Passive Results for September 2009 (Continued)

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
24	Wembley	0.2	18.4	2.0	12-31-070-08 W6M
25	Pinto Creek	0.2	19.8	1.3	04-24-069-11 W6M
26	Flyingshot	0.2	19.6	1.7	15-36-070-07 W6M
27	Grande Prairie I	0.2	22.2	5.6	08-15-071-06 W6M
28	Clairmont Lake	0.2	23.8	1.5	09-06-073-04 W6M
29	Smoky Heights	0.1	25.7	1.6	04-06-075-02 W6M
30	Fitzsimmons	0.2	19.6	1.3	15-36-072-03 W6M
32	Gold Creek	0.2	16.8	1.2	06-33-067-05 W6M
33	Wapiti	0.1	20.0	1.7	02-25-071-03 W6M
34	Puskwaskau	0.1	18.2	0.5	15-35-074-25 W5M
35	Jean Cote	0.2	22.1	1.8	12-35-079-21 W5M
36	Guy	0.2	21.4	2.0	03-04-076-22 W5M
37	Crooked Creek	0.2	21.2	1.5	16-01-071-26 W5M
38	Karr Creek	0.1	15.9	0.4	10-16-065-02 W6M
39	Clouston Creek	0.2	21.2	1.4	12-01-073-22 W5M
40	McLennan	0.4	22.0	1.3	03-29-077-19 W5M
41	Valleyview	0.3	24.3	1.3	09-30-069-22 W5M
42	Sunset House	0.3	30.8	1.0	05-32-070-19 W5M
43	High Prairie	0.2	19.9	1.5	16-13-074-17 W5M
44	Peavine	0.1	18.3	0.5	03-05-079-15 W5M
45	Gift Lake	0.1	15.9	0.7	10-07-079-12 W5M
46	Little Smoky	0.2	22.4	2.2	12-01-065-21 W5M
47	Kinuso	0.1	16.0	0.4	12-10-073-10 W5M
48	Deer Mountain	0.2	19.0	0.7	15-22-068-09 W5M
49	Grande Prairie HP	0.2	23.0	5.1	17-26-071-06 W6M

*BDL = Below Detection Level



Duplicate Summary Chart

Passive Summary for September 2009

Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂
	ppb	ppb	ppb

Passive Summary for September 2009 (PASZA Zone)			
Mean	0.2	20.9	1.5
Standard Deviation	0.1	3.1	1.0
Minimum	0.1	15.9	0.4
Minimum At	Puskwaskau (#34)	Karr Creek (#38)	Kinuso (#47)
Maximum	0.4	30.8	5.6
Maximum At	McLennan (#40)	Sunset House (#42)	Grande Prairie I (#27)

Comparison between Continuous and Passive monitoring at Beaverlodge (passive #16 Beaverlodge)

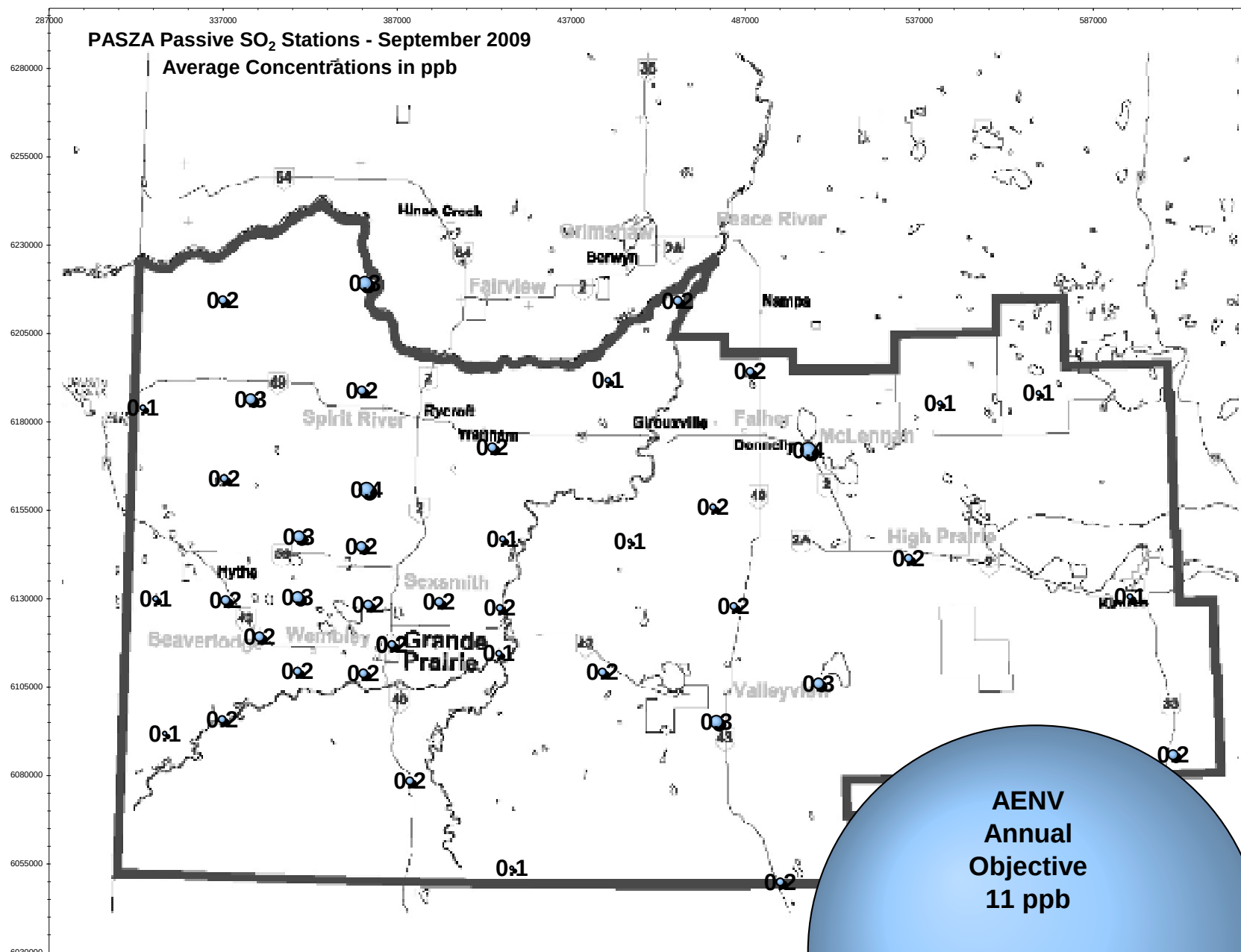
	SO ₂	O ₃	NO ₂
PASZA Beaverlodge station	0.4	23.9	2.2
PASZA Beaverlodge passive	0.2	26.9	1.6

Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)

	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.2	21.6	5.9
PASZA Grande Prairie passive	0.2	23.0	5.1

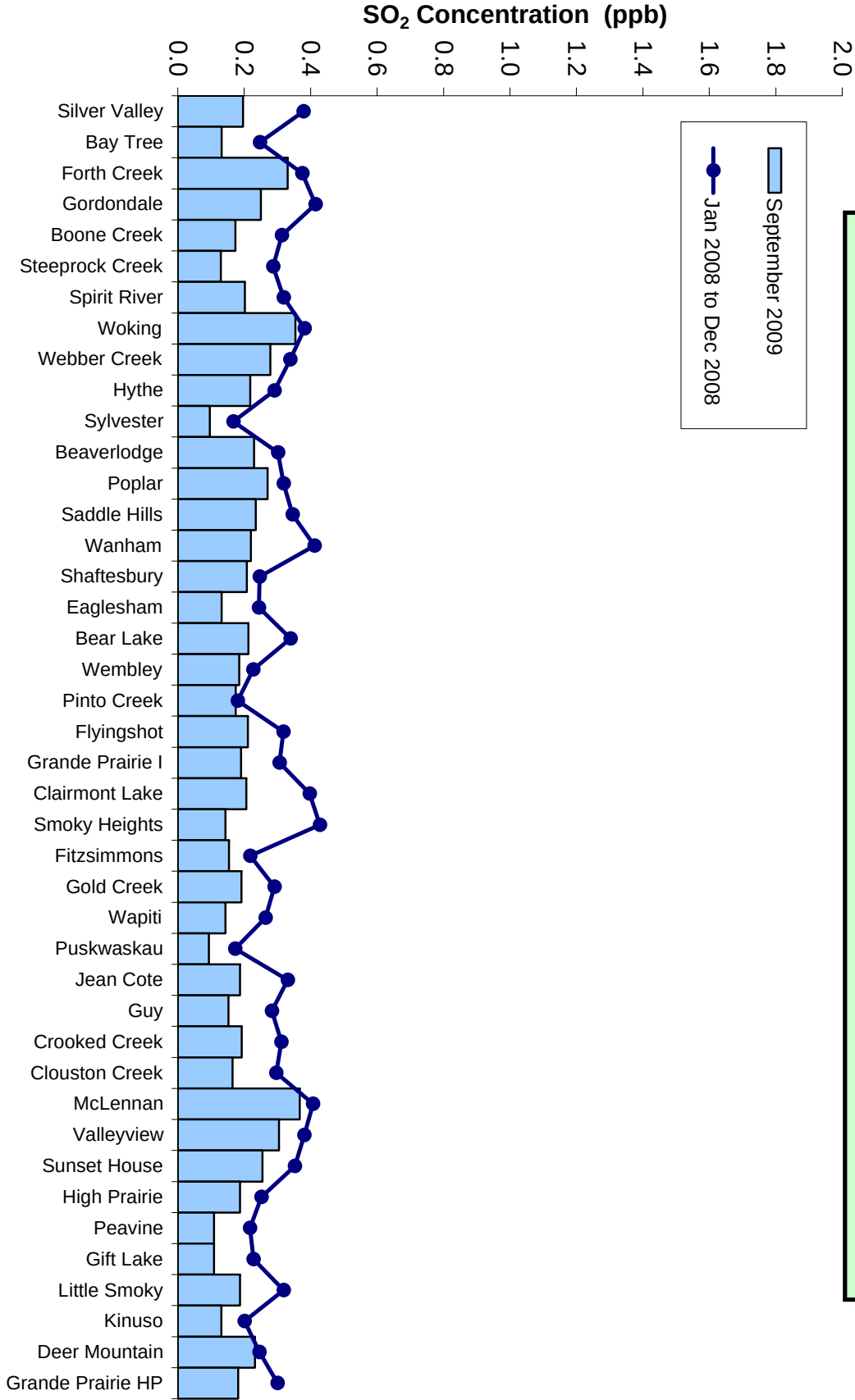
Comparison between Continuous and Passive monitoring at Kinuso (passive #47 Kinuso)

	SO ₂	O ₃	NO ₂
PASZA Portable Kinuso station	0.2	20.9	1.7
PASZA Kinuso passive	0.1	16.0	0.4

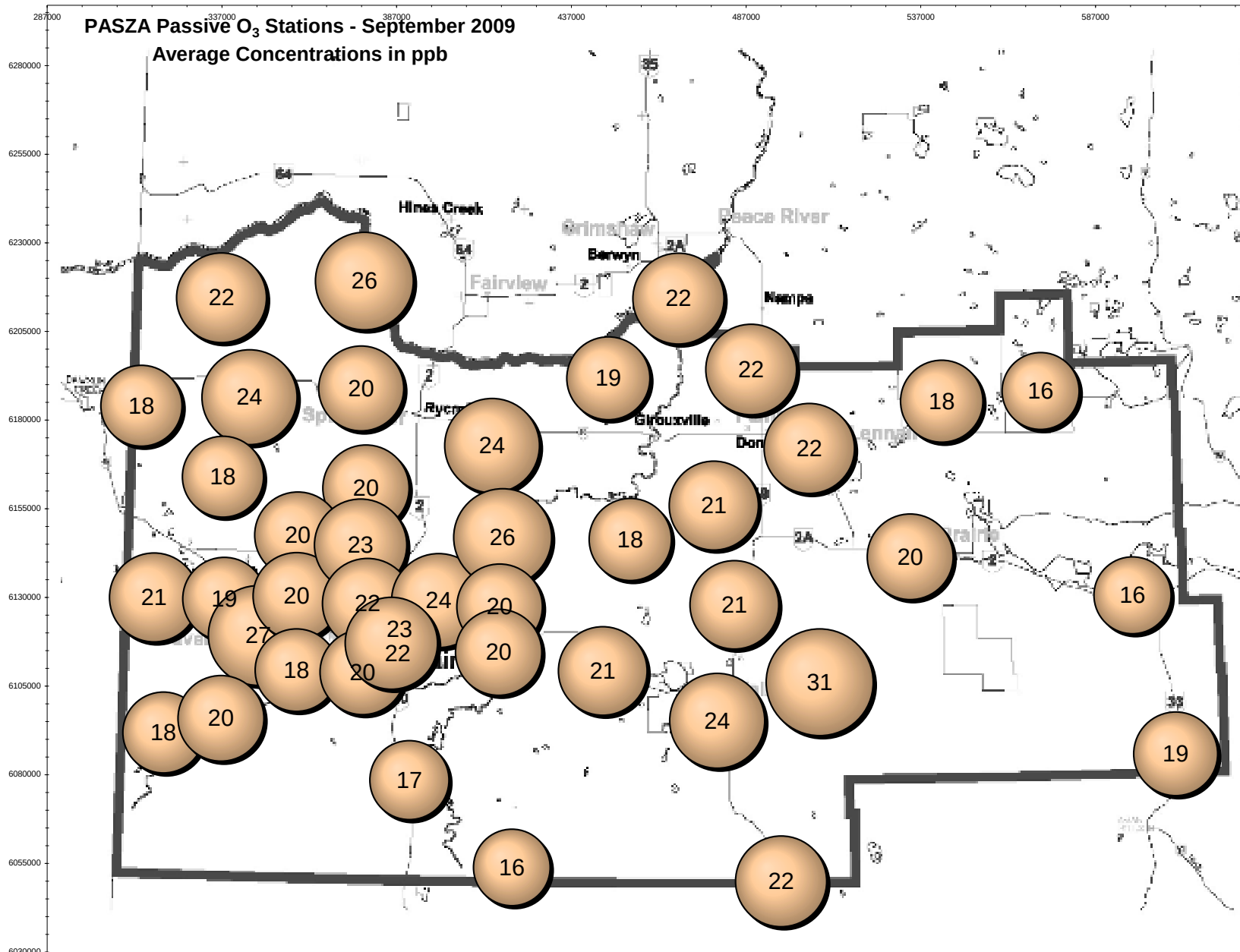


SO₂ Bubble Chart

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

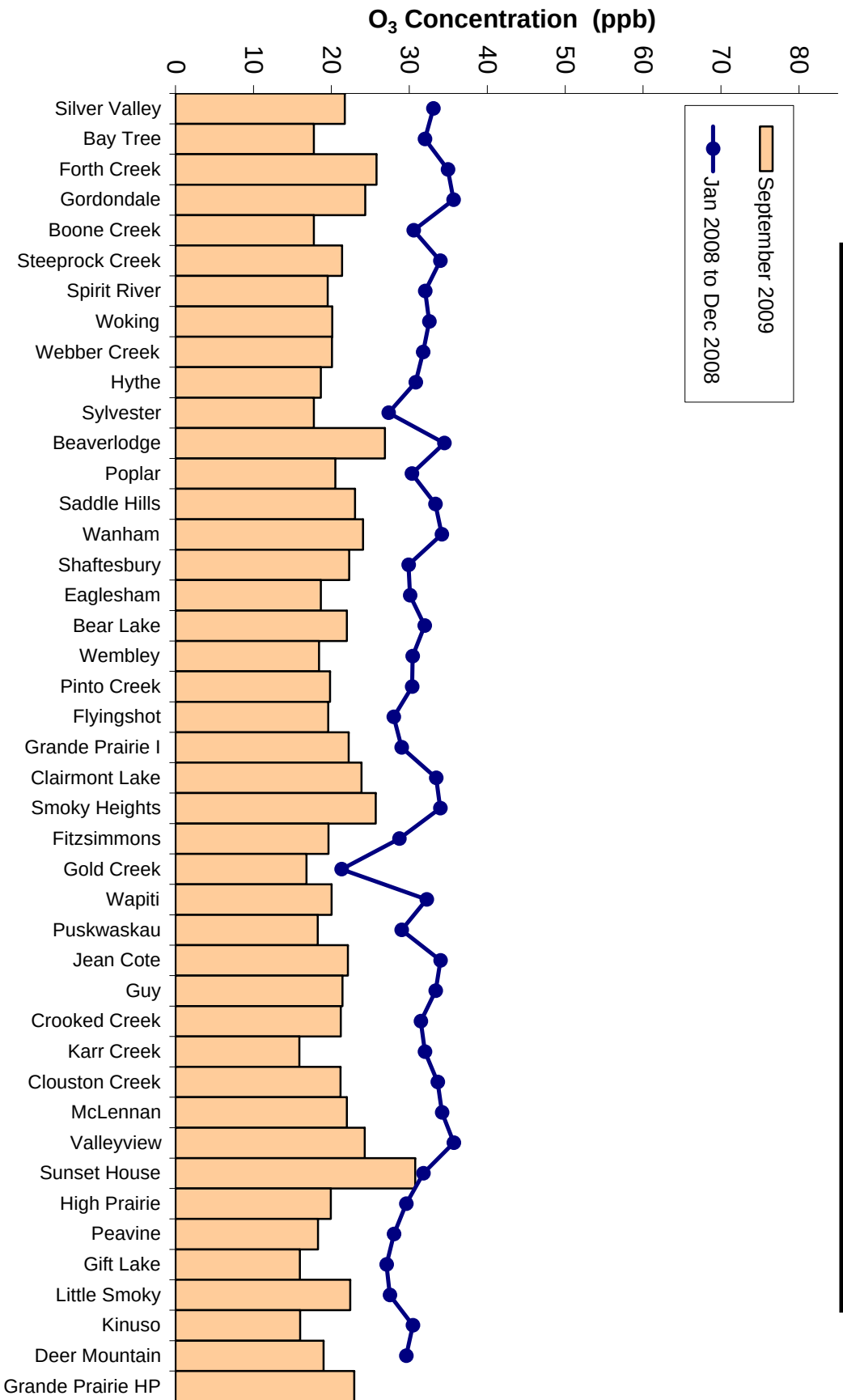


SO₂ Summary Chart

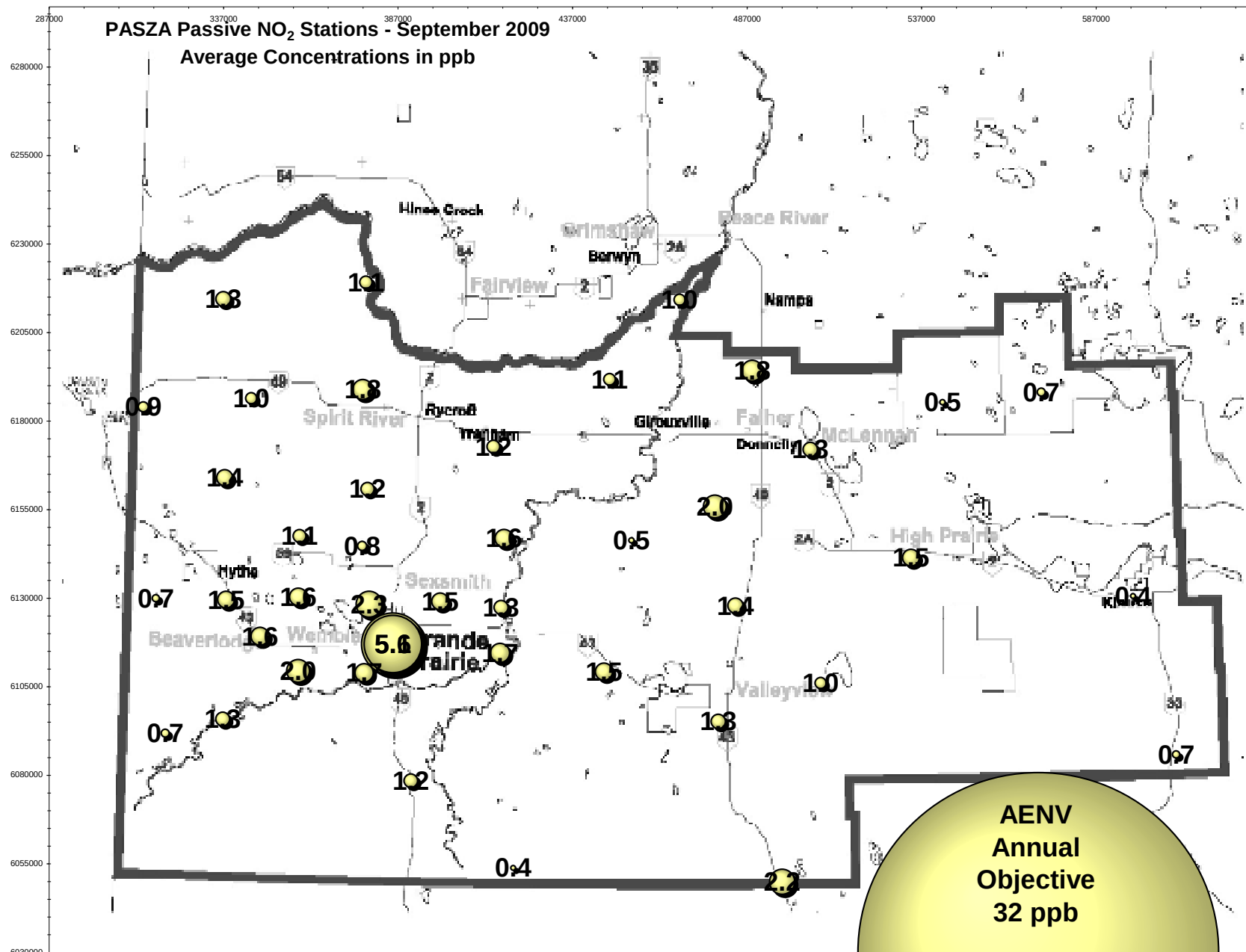


O₃ Bubble Chart

Alberta Ambient Air Quality Objective - No Annual O₃ Objective

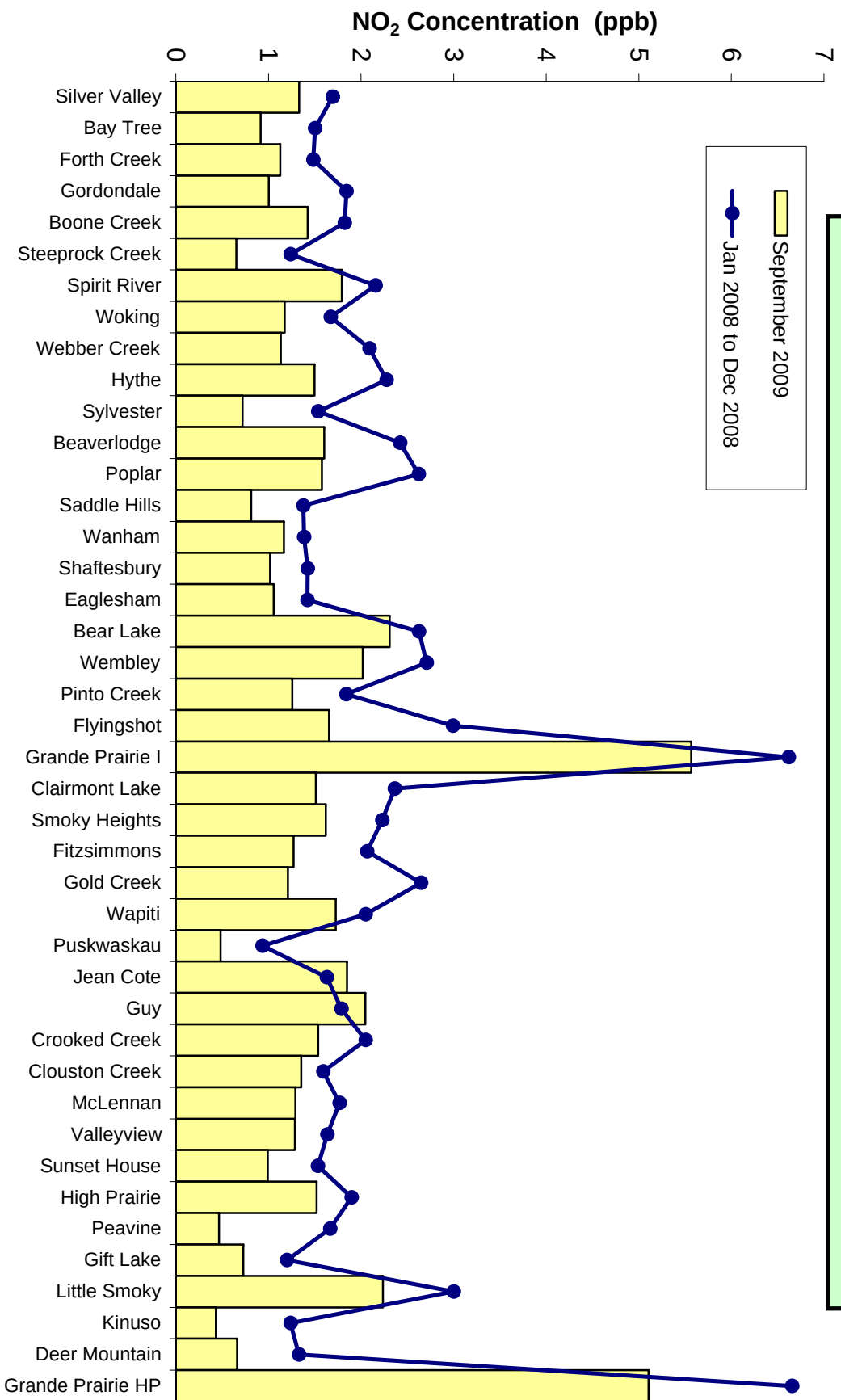


O₃ Summary Chart



NO₂ Bubble Chart

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



NO₂ Summary Chart

September 2009 Calibration Reports

PASZA - Henry Pirker Station with the following calibrations:

SO₂, NO, NO₂, NO_x, O₃, CO, THC, TRS

PASZA – Evergreen Park Station with the following calibrations:

SO₂, TRS

PASZA – Smoky Heights Station with the following calibrations:

SO₂, TRS

PASZA – Beaverlodge Station with the following calibrations:

SO₂, NO, NO₂, NO_x, O₃

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

SO₂, TRS, NO, NO₂, NO_x & O₃,

PASZA – Valleyview Station with the following calibrations:

SO₂ & H₂S

Calibration Report

Parameter SO2

Air Monitoring Network PASZA



Station Information

Calibration Date	September 24, 2009	Previous Calibration	August 11, 2009
Station Number	1	Station Location	Henry Pirker
Reason:	☒ Routine	☐ Install	☐ Removal
			☐ Other:
Start Time (MST)	11:00	End Time (MST)	13:40
Barometric Pressure	0.934 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Conc	50.6 ppb	Cal Gas Cert Date	13/3/2009
		Cal Gas Cylinder #	AAL 15377
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	10
	Before		After
Calculated slope	1.004824	Calculated slope	0.997706
Calculated intercept	-1.569079	Calculated intercept	-1.970481
Analyzer make	TEI 43C	Analyzer serial #	610816292

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	8.6		8.6	
Coefficient	.843		.843	
Pressure	649.8	mm Hg	648.9	mm Hg
Flow	0.497	lpm	0.504	lpm
Lamp Voltage	44075	Hz	44097	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)
4989	0.00	0.0	0.6	N/A
4991	39.85	400.8	403.0	0.9946
4991	19.91	201.1	204.2	0.9848
4991	9.95	100.7	104.3	0.9653
4989	0.00	0.0	0.0	As Found Zero
4991	39.85	400.8	403.6	As Found Span
Average Correction Factor				0.9815

Calculated value of As Found Response: 403.9 ppb Percent Change of As Found: -0.8%

	before calibration		after calibration	
Auto zero	0.1	ppb	0.1	ppb
Auto span	311.6	ppb	288.0	ppb

Notes:

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter SO2

Air Monitoring Network PASZA



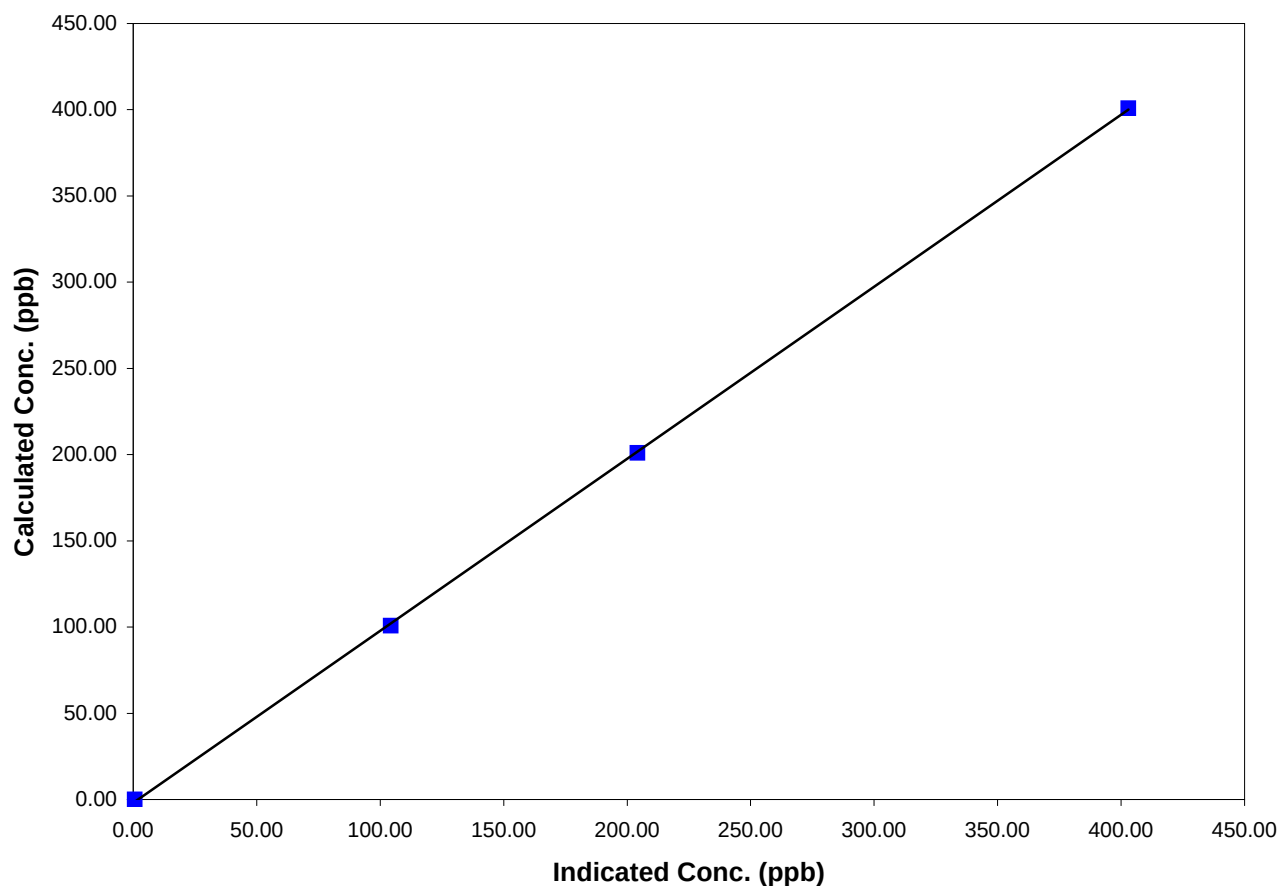
Station Information

Calibration Date	September 24, 2009	Previous Calibration	August 11, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	11:00	End Time (MST)	13:40
Analyzer make/model	TEI 43C	Analyzer serial #	610816292

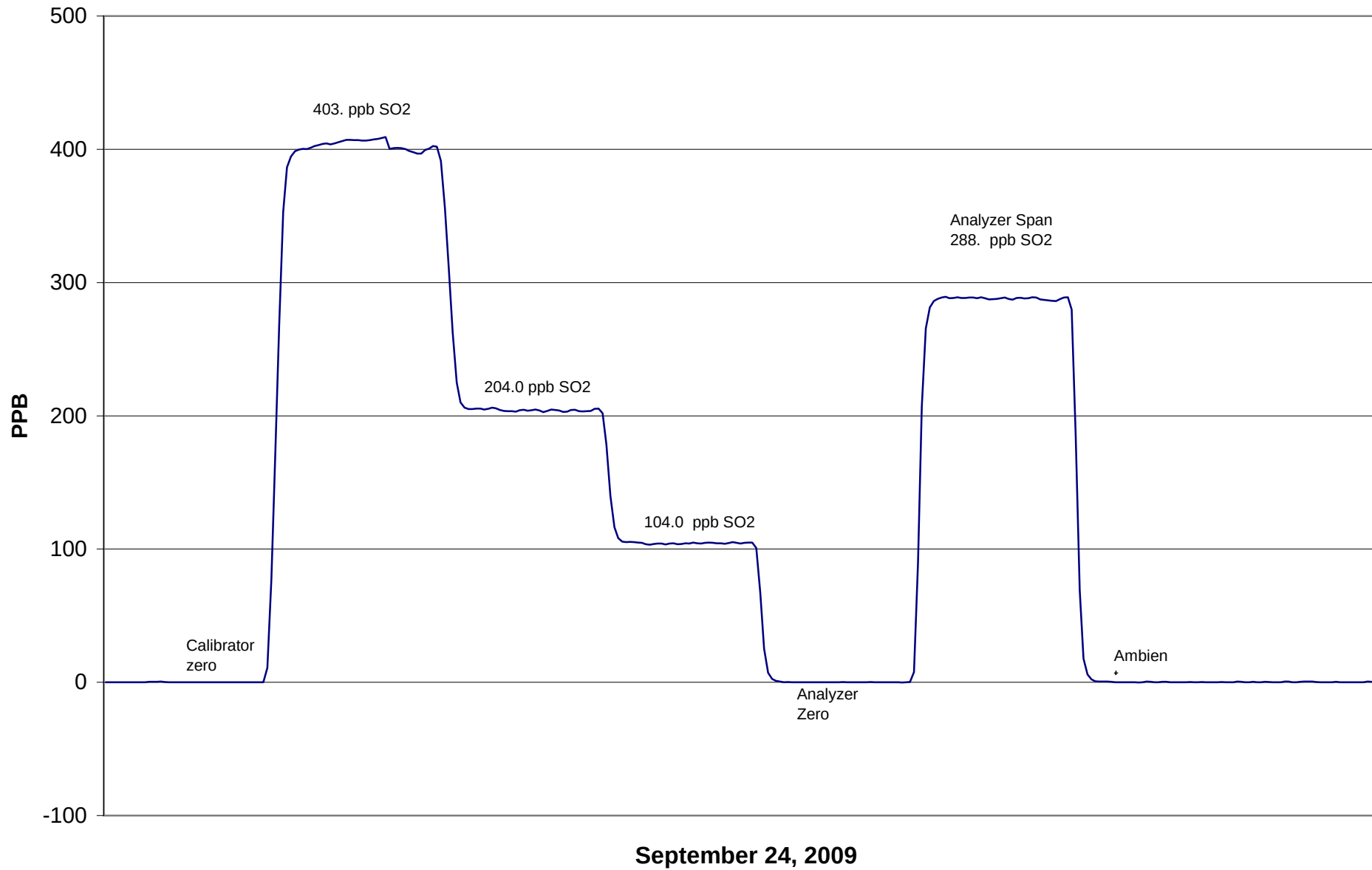
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.6	N/A	Correlation Coefficient	0.999945
400.8	403.0	0.9946		
201.1	204.2	0.9848		
100.7	104.3	0.9653	Slope	0.997706
			Intercept	-1.970481

SO2 Calibration Curve



PASZA Henry Pirker SO2 Calibration



Calibration Report

Parameter TR5

Air Monitoring Network PASZA



Station Information

Calibration Date	September 24, 2009	Previous Calibration	August 12, 2009
Station Number	1	Station Location	Henry Pirker
Reason:	☒ Routine	☐ Install	☐ Removal
		☐ Other:	
Start Time (MST)	12:20	End Time (MST)	14:51
Barometric Pressure	0.934 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Conc	5.1 ppb	Cal Gas Expiry Date	7/31/2008
		Cal Gas Cylinder #	ALM013295
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.008238	Calculated slope	1.005513
Calculated intercept	-0.429141	Calculated intercept	-0.136416
Analyzer make	TEI 45C	Analyzer serial #	630718528

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Coefficient	0.827		.827	
Background	16.1		16.2	
Pressure	662.5	mm Hg	660.4	mm Hg
Flow	468	ccm	466	ccm
Lamp Voltage	840	v	840	v

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)
4988	0.00	0.00	-0.03	N/A
4988	79.83	80.34	80.02	1.0039
4988	39.81	40.38	40.26	1.0031
4988	9.92	10.12	10.41	0.9721
4988	0.00	0.00	0.29	As Found Zero
4988	79.77	80.28	73.55	As Found Span
Average Correction Factor				0.9930

Calculated value of As Found Response: 73.4 ppb Percent Change of As Found: 8.5%

	before calibration		after calibration	
Auto zero	-0.29	ppb	0.16	ppb
Auto span	27.12	ppb	28.00	ppb

Notes:

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter TRS

Air Monitoring Network PASZA



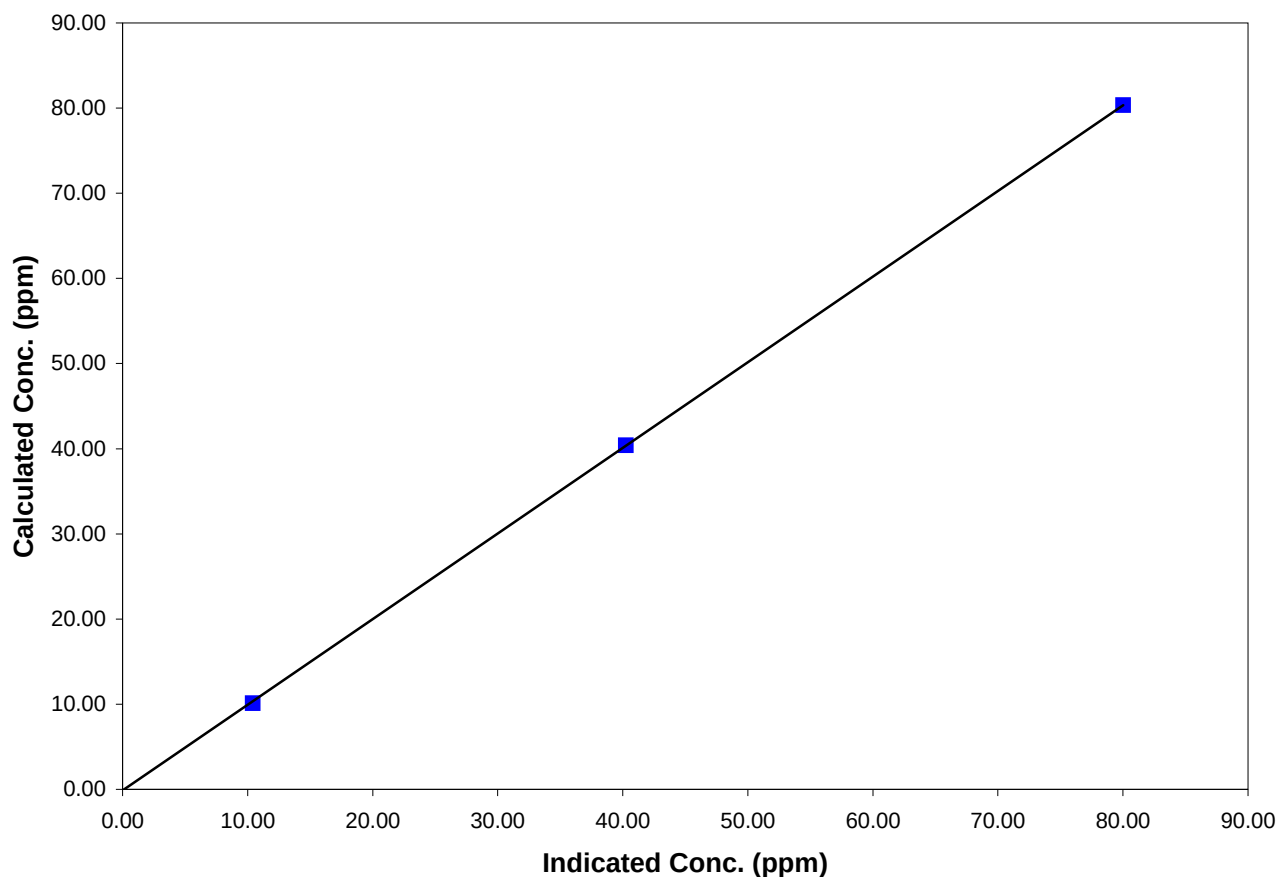
Station Information

Calibration Date	September 24, 2009	Previous Calibration	August 12, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	12:20	End Time (MST)	14:51
Analyzer make/model	TEI 45C	Analyzer serial #	630718528

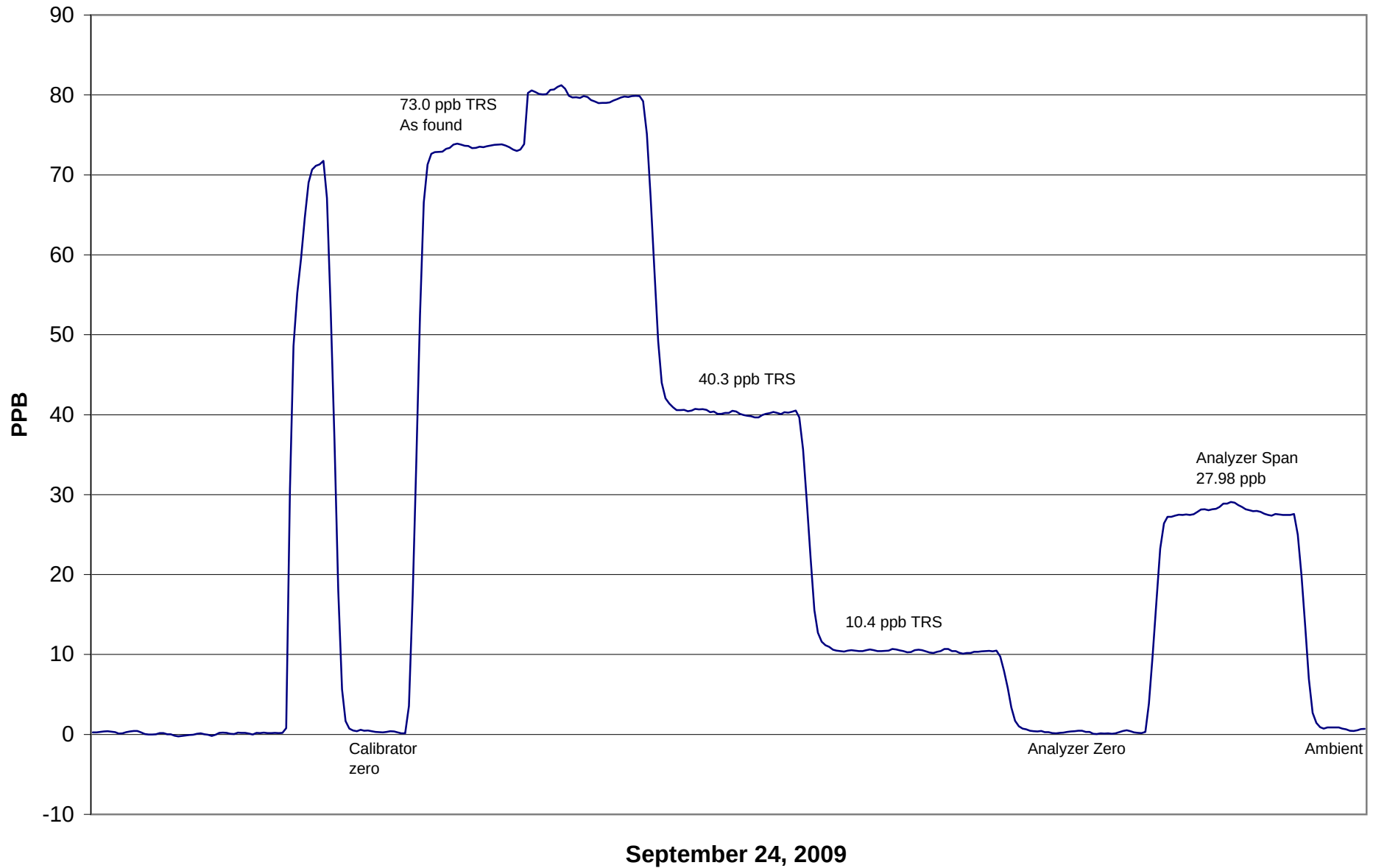
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.027	N/A	Correlation Coefficient	0.999981
80.337	80.025	1.0039		
40.382	40.256	1.0031		
10.123	10.413	0.9721	Slope	1.005513
			Intercept	-0.136416

TRS Calibration Curve



PASZA Henry Pirker TRS Calibration



Calibration Report

Parameter

NO_x-NO-NO₂

Air Monitoring Network

PASZA



Station Information

Calibration Date	September 26, 2009	Previous Calibration	August 11, 2009
Station Number	1	Station Location	Henry Pirker
Reason:	☒ Routine	☐ Installation	☐ Removal
Start Time (MST)	10:00	End Time (MST)	15:25
Barometric Pressure	0.928	Station Temperature	25.0
Calibrator	EnviroNics	Serial Number	3474
NO Cal Gas Conc	49.6	Cal Gas Expiry Date	June 8, 2008
NOx Cal Gas Conc	49.6	Cal Gas Serial #	AAL 15377

DACS Information

DACS make	Focus AP1000	DACS serial No.	
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Parameter		NO2	NOx	NO
Before	Data Slope	0.995832	1.005755	1.005341
	Data Offset	-0.522085	-3.016668	-2.849411
After	Data Slope	0.999391	1.004443	1.003292
	Data Offset	0.147470	-2.923286	-2.925231
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model	TEI 42C	Analyzer serial #	508011073
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Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO offset	11.6	mV	11.6	mV
NOx bkgnd	12.3	mV	12.3	mV
NO coefficient	0.916		0.916	
NOx coefficient	1.001		1.001	
NO2 conv temp	318.0	Deg C	319.0	Deg C
PMT Temp	-2.5	Deg C	-2.4	Deg C
PMT Volt	-786.0	mV	-787.0	mV
R Cell Press	273.5	in Hg	212.0	in Hg
Sample Flow	0.763	ccm	0.668	ccm

Notes:

Calibration Report

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



Station Information

Calibration Date: September 26, 2009 Station Location: Henry Pirker

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4989	0.00	0.0	0.0	0.0	0.1	0.0	0.0	N/A	N/A
1	4991	39.85	392.9	392.9	0.0	392.5	392.8	-0.3	1.0010	1.0001
2	4991	19.87	196.7	196.7	0.0	200.5	200.9	-0.2	0.9810	0.9792
3	4991	9.91	98.3	98.3	0.0	103.3	103.5	-0.2	0.9511	0.9496
AFZ	4991	0.00	0.0	0.0	0.0	0.3	0.0	0.1	0.0000	0.0000
AFS	4991	39.84	392.8	392.8	0.0	392.5	392.8	-0.3	1.0008	0.9999
Average Correction Factor									0.9777	0.9763

As Found Concentrations: NO_x= 389.1 NO= 390.0 As Found Percent Change NO_x= -0.9% NO= -0.7%

GPT Calibration Data

Dilution Flow 4989 ccm Source Gas Flow 39.84 ccm

O3 Setpoint (ppb)	Indicated NO high point (ppb)	Indicated NO drop 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	0.1	0.0	0.0	N/A	N/A	N/A	N/A
NO point	393.7	393.7	0.0	392.8	393.7	-0.9	1.0023	1.0000	N/A	N/A
300	393.7	111.8	282.0	393.5	111.8	281.9	1.0006	1.0000	1.0004	100.0%
200	393.7	198.2	195.5	393.9	198.2	195.9	0.9996	1.0000	0.9978	100.2%
100	393.7	282.0	111.7	392.8	282.0	111.2	1.0022	1.0000	1.0050	99.5%
Average Correction Factor							1.0008	1.0000	1.0011	99.9%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	-0.1	0.0	0.0	ppb	0.1	0.1	0.0	ppb
Auto span	154.9	153.6	1.2	ppb	154.9	153.7	1.2	ppb

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter NO₂

Air Monitoring Network PASZA



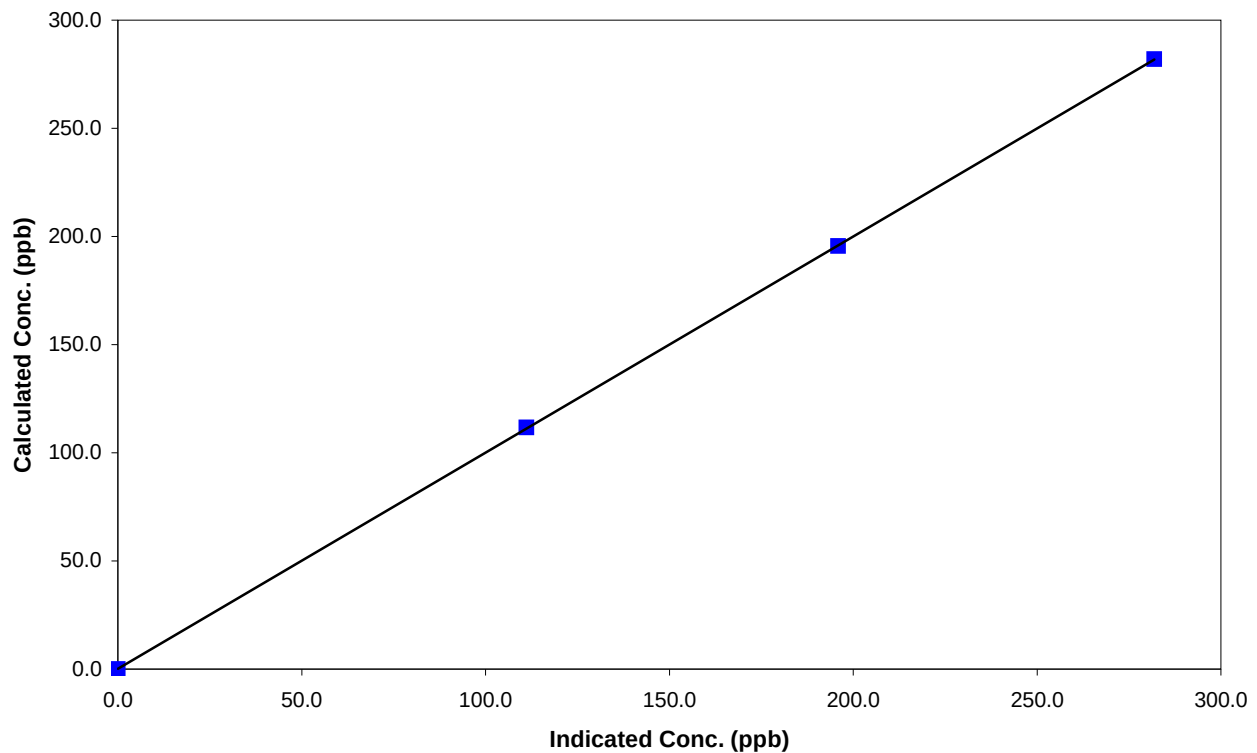
Station Information

Calibration Date	September 26, 2009	Previous Calibration	August 11, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:00	End Time (MST)	15:25
Analyzer make	TEI 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	Correlation Coefficient	0.999989
282.0	281.9	1.0004		
195.5	195.9	0.9978		
111.7	111.2	1.0050	Slope	0.999391
			Intercept	0.147470

NO₂ Calibration Curve



Calibration Summary

Parameter NO_x

Air Monitoring Network PASZA



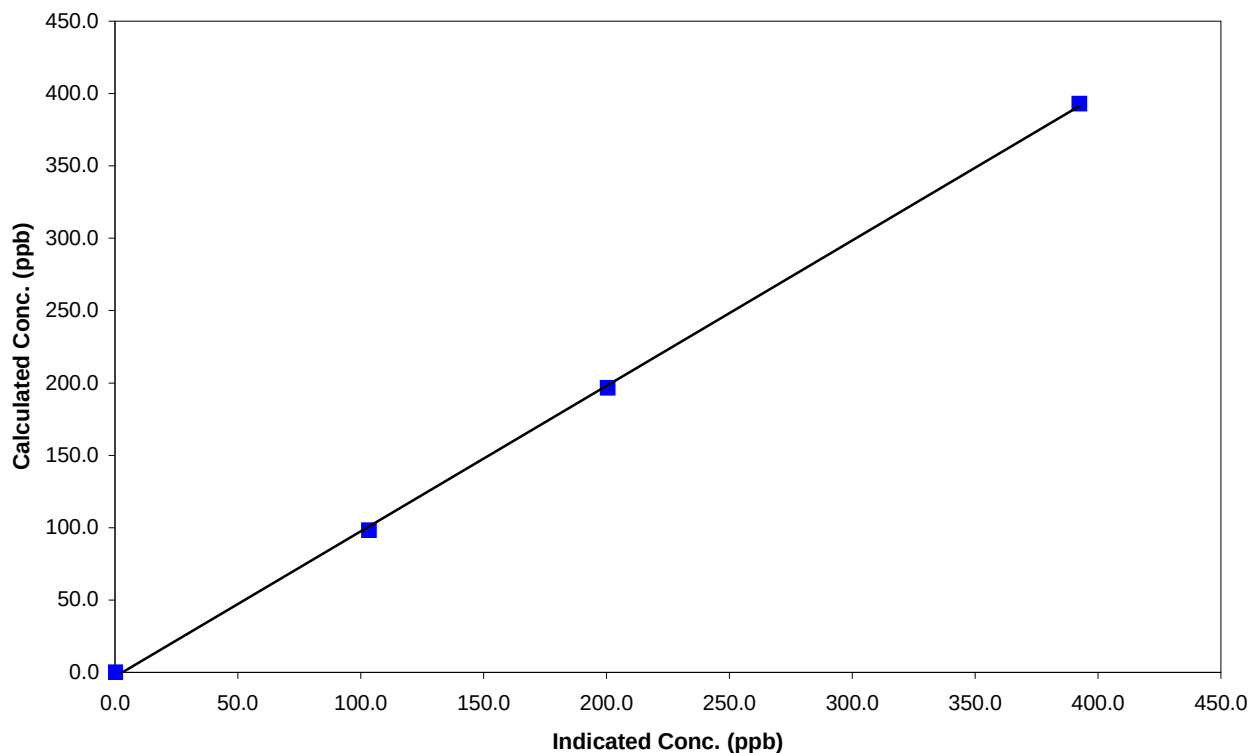
Station Information

Calibration Date	September 26, 2009	Previous Calibration	August 11, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:00	End Time (MST)	15:25
Analyzer make	TEI 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	N/A	Correlation Coefficient	0.999762
392.9	392.5	1.0010		
196.7	200.5	0.9810		
98.3	103.3	0.9511	Slope	1.004443
			Intercept	-2.923286

NO_x Calibration Curve



Calibration Summary

Parameter NO

Air Monitoring Network PASZA



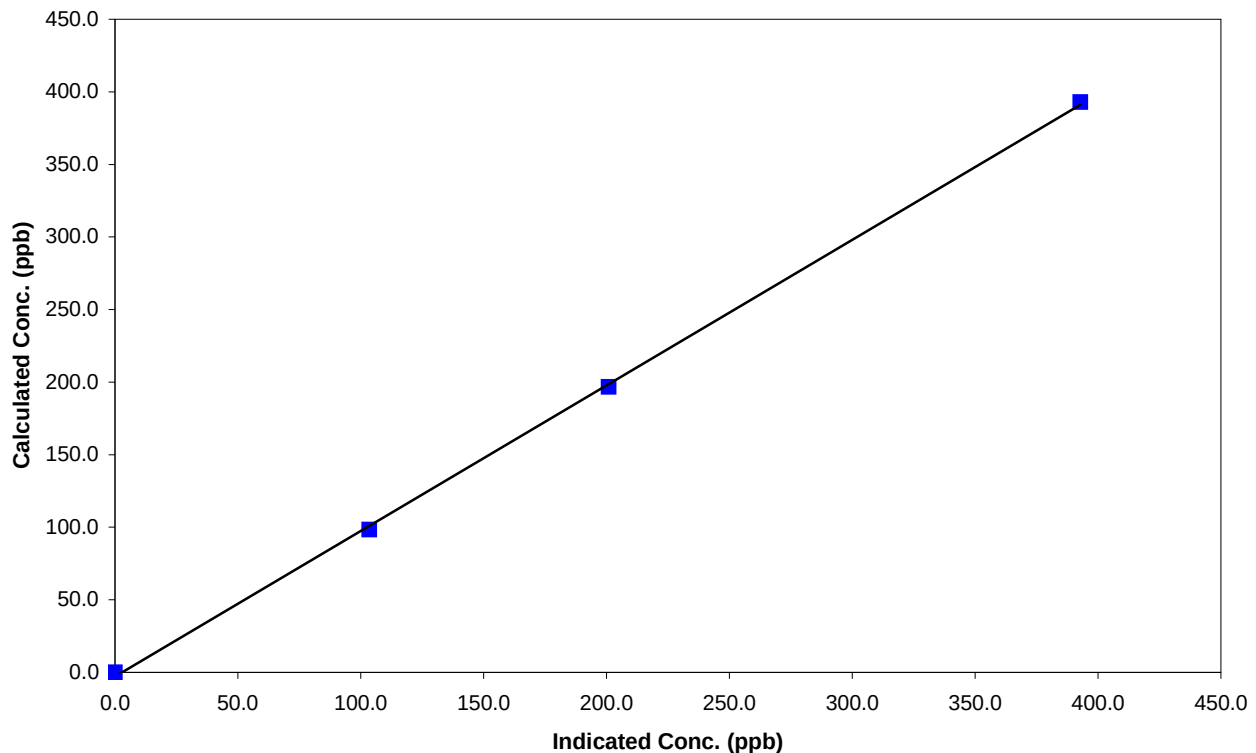
Station Information

Calibration Date	September 26, 2009	Previous Calibration	August 11, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	10:00	End Time (MST)	15:25
Analyzer make	TEI 42C	Analyzer serial #	508011073

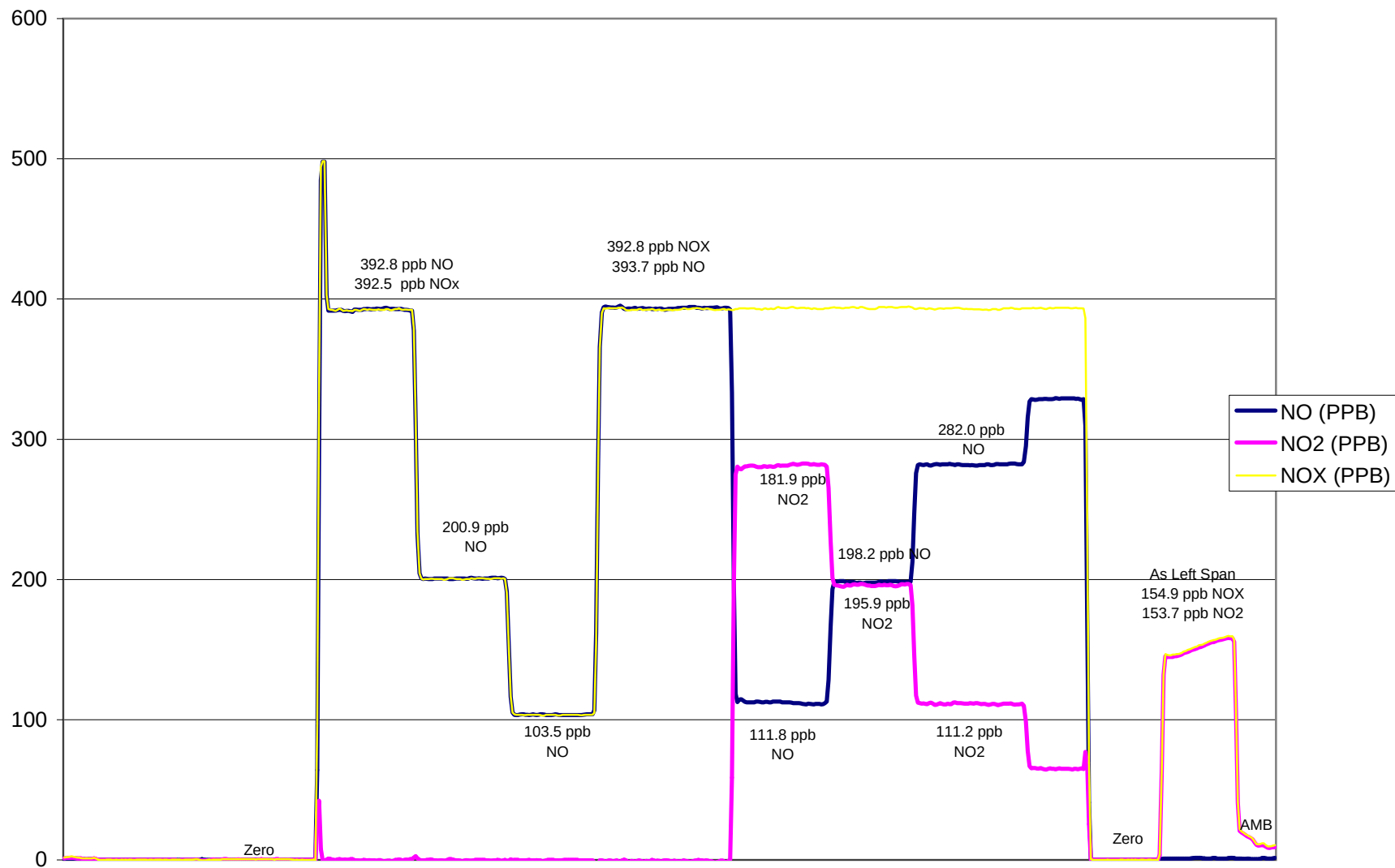
Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A	Correlation Coefficient	0.999743
392.9	392.8	1.0001		
196.7	200.9	0.9792		
98.3	103.5	0.9496	Slope	1.003292
			Intercept	-2.925231

NO Calibration Curve



PASZA Henry Pirker NO_x Calibration



September 26, 2009

Calibration Report



Parameter 03

Air Monitoring Network PASZA

Station Information

Calibration Date	September 26, 2009	Previous Calibration	August 11, 2009
Station Number	1	Station Location	Henry Pirker
Reason:	☒ Routine	☐ Install	☐ Removal
		☐ Other:	

Start Time (MST)	14:40:00 PM	End Time (MST)	16:59
Barometric Pressure	0.931 atm	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA

DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	5
	Before		After
Calculated slope	0.993640	Calculated slope	1.003709
Calculated intercept	0.114008	Calculated intercept	-0.291419

Analyzer make	TECO 49C	Analyzer serial #	607415761
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	before		after	
Concentration range	500	ppb	500	ppb
offset	-1.1	ppb	-1.3	ppb
slope	1.014		1.014	
O3 Lamp temp	71	Deg C	71	Deg C
Intensities	91280/76034	mV	90903/75527	mV
Pressure	697.4	inches Hg	661.2	inches Hg
Flow A	0.710	ccm	0.716	ccm
Flow B	0.730	Deg C	0.727	Deg C

Calibration Data

Referenced concentration (ppb)	Dilution air flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
0	4991	0.0	0.1	N/A
300	4991	282.0	280.9	1.0039
200	4991	195.5	195.5	0.9999
100	4991	111.7	111.7	1.0003
0	4991	0.0	0.1	As found zero
300	4991	254.0	281.0	As found span
Average Correction Factor				1.0014

Calculated value of As Found Response: 279.2 ppm Percent Change of As Found: 9.9%

	before calibration		after calibration	
Auto zero	0.3	ppb	0.3	ppb
Auto span	155.6	ppb	155.6	ppb

Notes:

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter O3

Air Monitoring Network PASZA



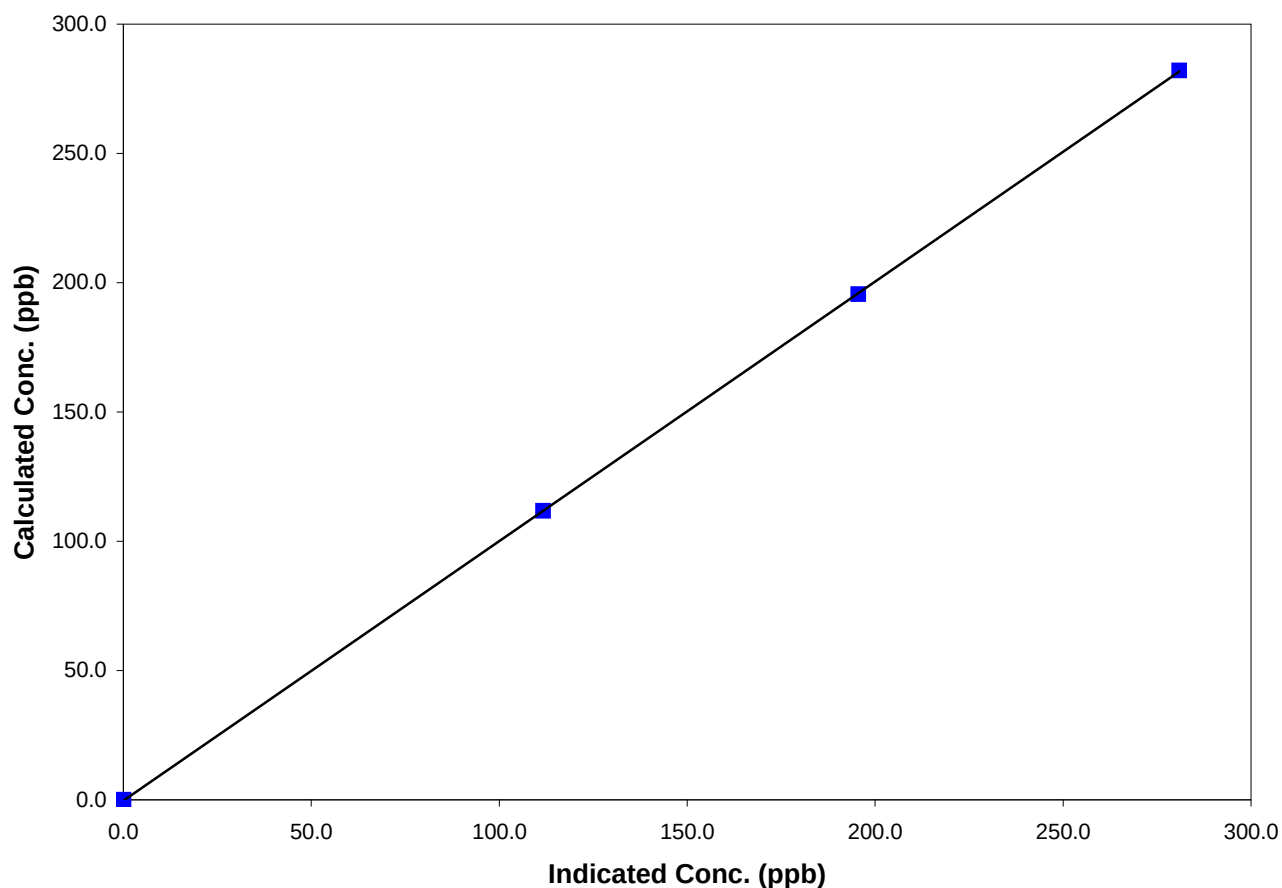
Station Information

Calibration Date	September 26, 2009	Previous Calibration	August 11, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	14:40:00 PM	End Time (MST)	16:59:00 PM
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

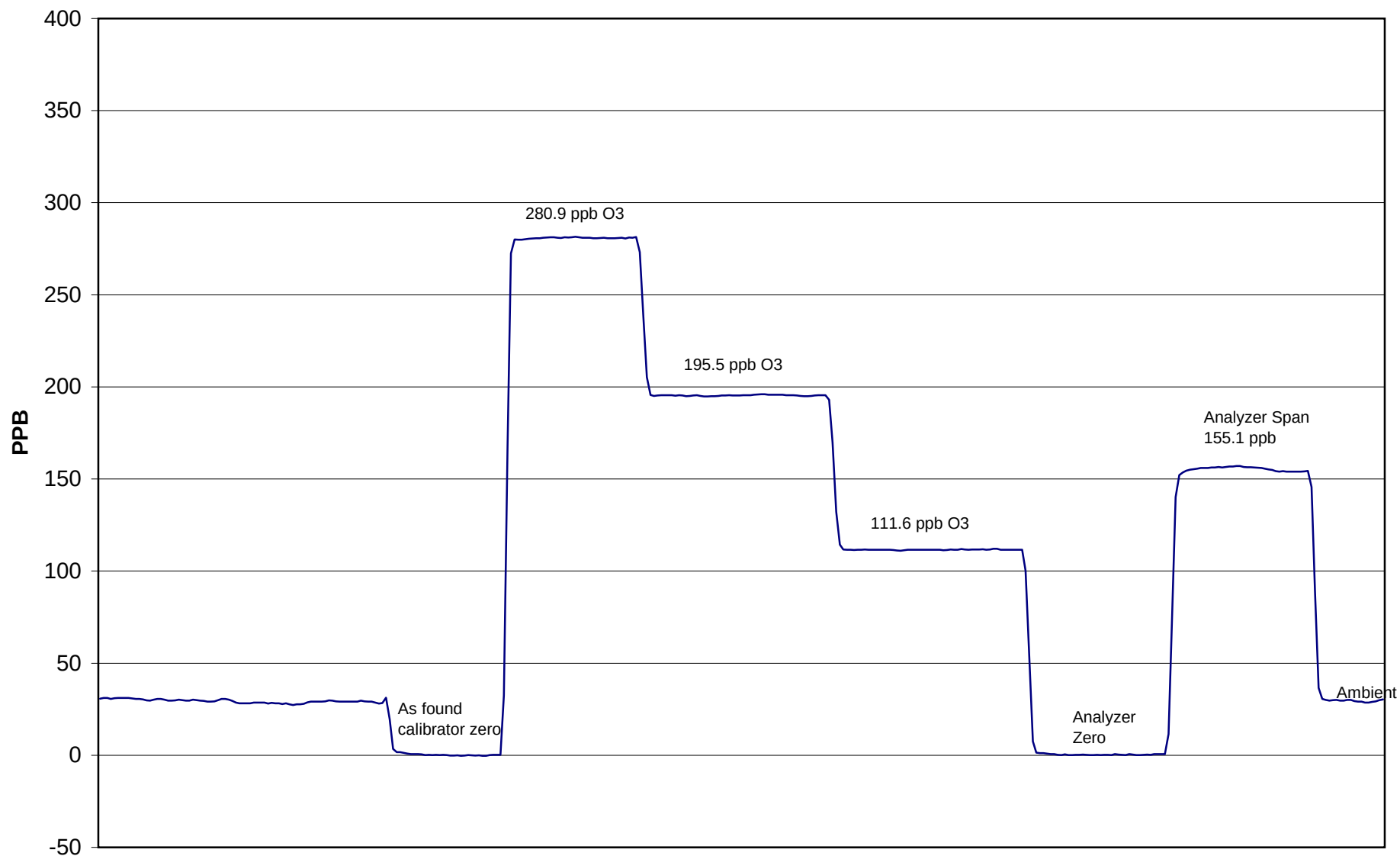
Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	NA	Correlation Coefficient	0.999991
282.0	280.9	1.0039		
195.5	195.5	0.9999		
111.7	111.7	1.0003	Slope	1.003709
			Intercept	-0.291419

O3 Calibration Curve



PASZA Henry Pirker O3 Calibration



September 26, 2009

Calibration Report

Parameter CO

Air Monitoring Network PASZA



Station Information

Calibration Date	September 24, 2009	Previous Calibration	August 12, 2009
Station Number	1	Station Location	Henry Pirker
Reason:	☒ Routine	☐ Install	☐ Removal
		☐ Other:	
Start Time (MST)	9:45	End Time (MST)	
Barometric Pressure	0.934 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	AUG 28/05
		Cal Gas Cylinder #	AAL20565
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	1.005418	Calculated slope	1.026300
Calculated intercept	-0.357910	Calculated intercept	-0.345155
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO span setting	1.044		1.044	
CO zero setting	6.229		6.730	
Sample pressure	694.8	mm Hg	681.2	mm Hg
Sample Flow	0.544	LPM	1.123	LPM

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4991	0.00	0.00	0.37	N/A
4991	39.85	23.76	23.51	1.0108
4991	19.88	11.90	11.91	0.9993
4991	9.94	5.96	6.11	0.9748
4990	0.00	0.00	0.21	As Found Zero
4991	39.85	23.76	23.51	As Found Span
Average Correction Factor				0.9950

Calculated value of As Found Response: 23.065 ppm Percent Change of As Found: 2.9%

	before calibration		after calibration	
Auto zero	0.03	ppm	0.03	ppm
Auto span	19.34	ppm	19.30	ppm

Notes: **Internal sample pump diaphragm has failed. Replace, rebuild and allow stabilize.**

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter CO

Air Monitoring Network PASZA



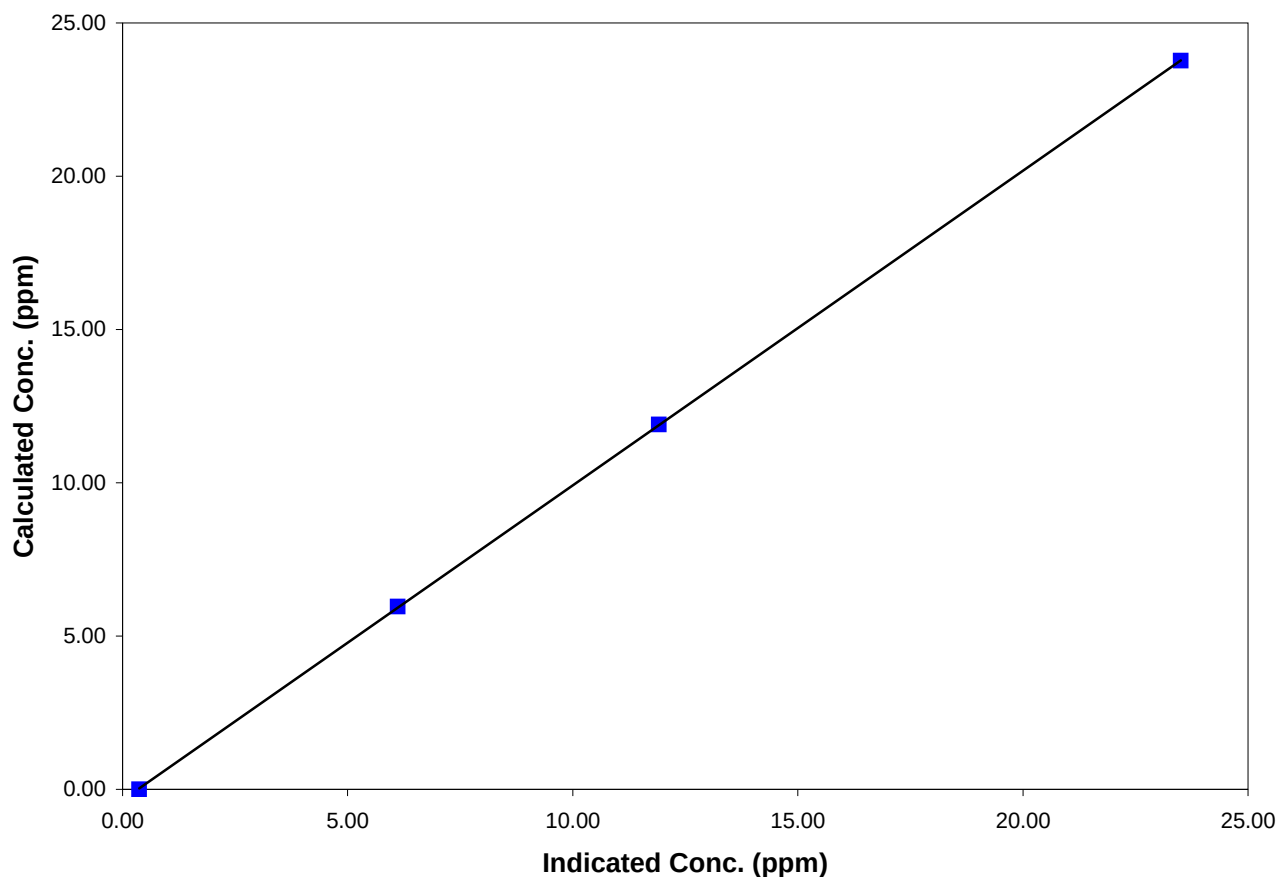
Station Information

Calibration Date	September 24, 2009	Previous Calibration	August 12, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:45	End Time (MST)	12:03
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

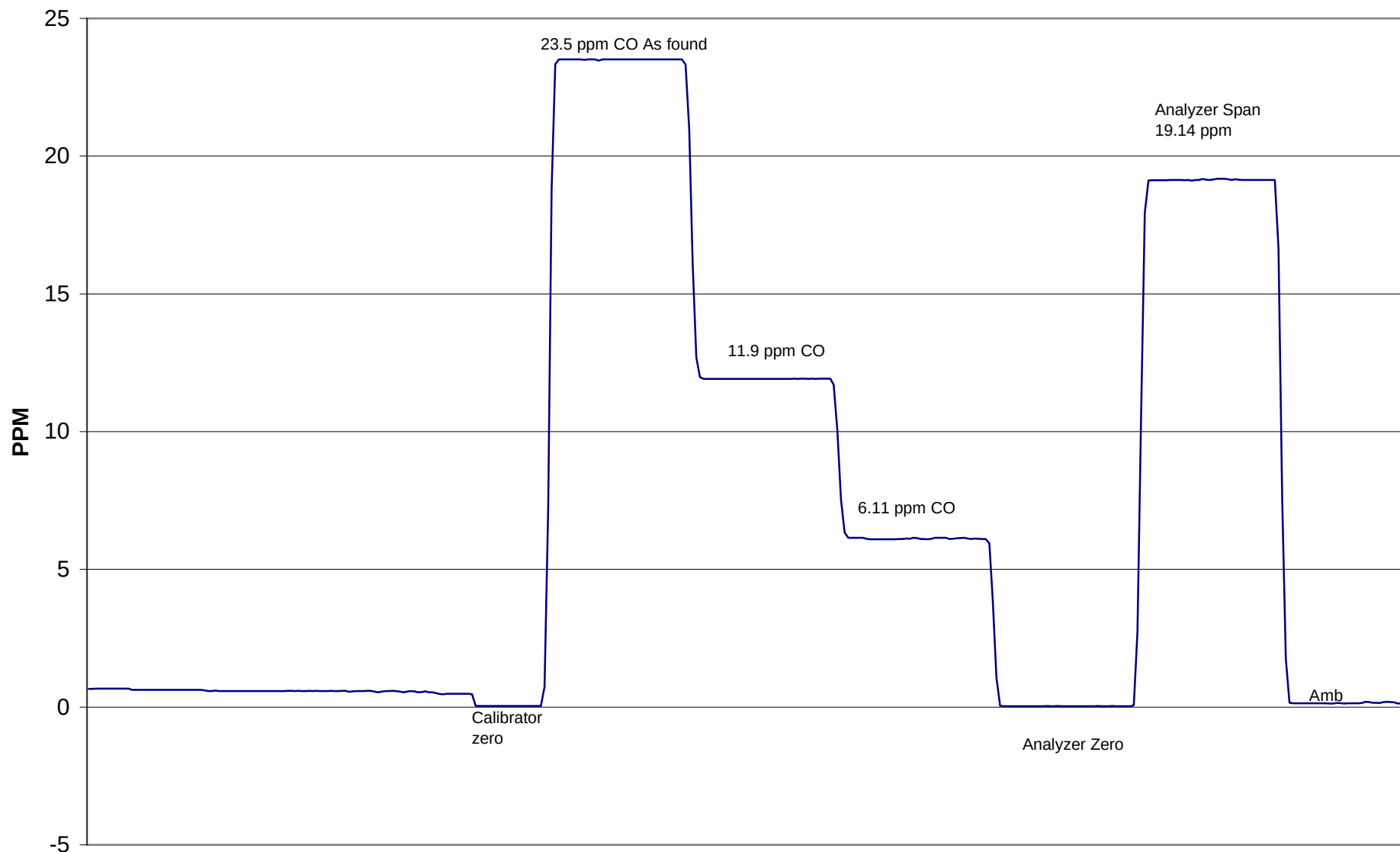
Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.370	N/A	Correlation Coefficient	0.999990
23.763	23.509	1.0108		
11.902	11.911	0.9993		
5.960	6.114	0.9748	Slope	1.026300
			Intercept	-0.345155

CO Calibration Curve



PASZA Henry Pirker CO Calibration



September 24, 2009

Calibration Report



Parameter THC

Air Monitoring Network PASZA

Station Information

Calibration Date	September 24, 2009	Previous Calibration	August 12, 2009
Station Number	1	Station Location	Henry Pirker
Reason:	☒ Routine	☐ Install	☐ Removal
		☐ Other:	
Start Time (MST)	8:00	End Time (MST)	10:00
Barometric Pressure	0.930 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	701 ppm CH4/ 299 ppm C3H8	Cal Gas Expiry Date	2/4/2010
Cal Gas CH4 equiv	1523.25 ppm	Cal Gas Cylinder #	ALM 005412
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
Calculated slope	1.017777	Calculated slope	1.017935
Calculated intercept	-0.070244	Calculated intercept	-0.086117
Analyzer make	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

	before		after	
Concentration range	0 - 25	ppm	0 - 25	ppm
THC sample pressure	6.50	psi	6.50	psi
THC span counts	7205	capture	7205	capture
THC zero counts	1131	capture	1166	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)
4988	0.00	0.00	0.07	N/A
4990	69.80	21.01	20.74	1.0131
4989	29.88	9.07	8.94	1.0139
4988	9.92	3.02	3.10	0.9750
4988	0.00	0.00	0.04	As Found Zero
4988	69.82	21.03	20.84	As Found Span
Average Correction Factor				1.0007

Calculated value of As Found Response: 21.104 ppm Percent Change of As Found: -0.4%

	before calibration		after calibration	
Auto zero	-0.02	ppm	-0.05	ppm
Auto span	22.85	ppm	21.13	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter THC

Air Monitoring Network PASZA



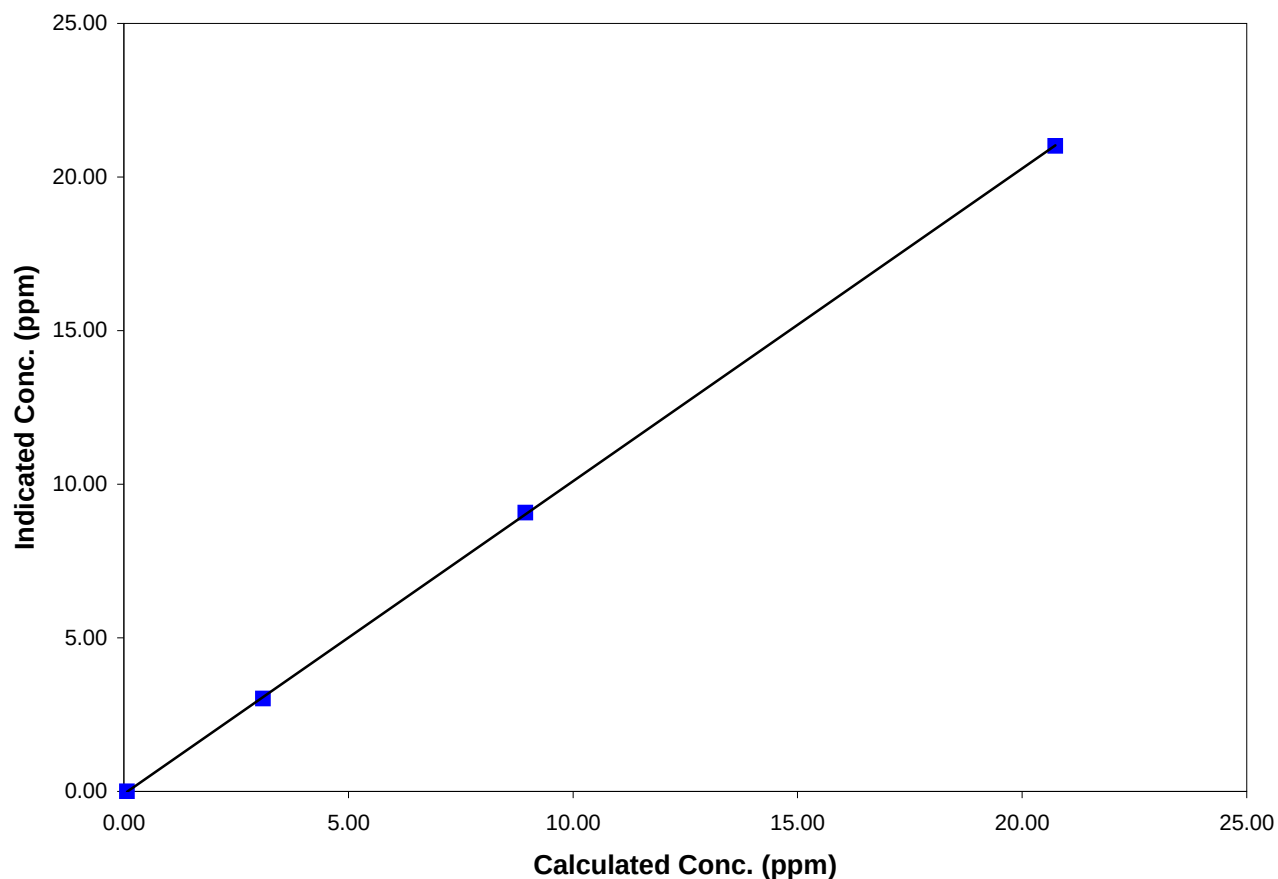
Station Information

Calibration Date	September 24, 2009	Previous Calibration	March 24, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	8:00	End Time (MST)	10:00
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

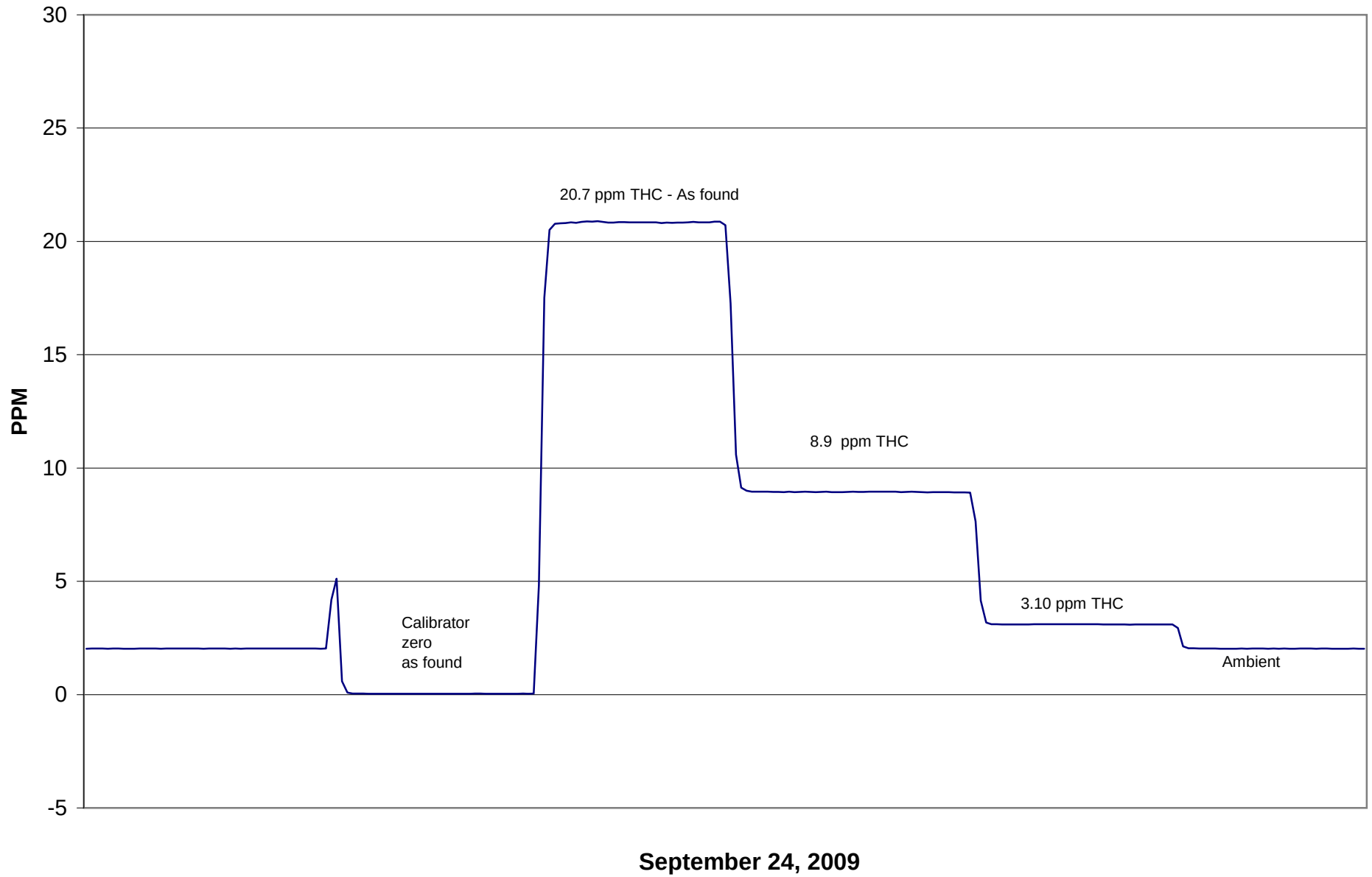
Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.073	N/A		
21.013	20.742	1.0131	Correlation Coefficient	0.999980
9.069	8.944	1.0139		
3.023	3.101	0.9750	Slope	1.017935
			Intercept	-0.086117

THC Calibration Curve



PASZA Henry Pirker THC Calibration



Calibration Report



Parameter SO₂

Air Monitoring Network PASZA

Station Information

Calibration Date	September 11, 2009	Previous Calibration	August 18, 2009
Station Number	2	Station Location	Evergreen Park
Reason:	☒ Routine	☐ Install	☐ Removal
		☐ Other:	
Start Time (MST)	11:14	End Time (MST)	14:27
Barometric Pressure	0.938 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.6 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031885	Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	6
	<u>Before</u>		<u>After</u>
Calculated slope	1.002548	Calculated slope	0.999772
Calculated intercept	-1.737454	Calculated intercept	-1.593223
Analyzer make	Teco 43i	Analyzer serial #	701120008

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	10.1		10.2	
coefficient	1.015		1.018	
Lamp Voltage	826	volts	826	volts
Chamber Temp	45.2	Deg C	45.3	Deg C
Perm Gas Temp	45	Deg C	44.99	Deg C
Pressure	675.3	mm Hg	675.3	mm Hg
Sample Flow	453	ccm	453	ccm
Lamp Intensity	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)
4990	0.0	0.00	0.0	N/A
4989	39.85	400.97	402.0	0.9974
4989	19.88	200.83	202.8	0.9904
4989	9.93	100.51	104.0	0.9662
4990	0.0	0.00	0.8	As Found Zero
4988	39.82	400.75	397.8	As Found Span
Average Correction Factor				0.9847

Calculated value of As Found Response: 396.349 ppm Percent Change of As Found: 1.1%

	before calibration		after calibration	
Auto zero	0.7	ppm	0.7	ppm
Auto span	272.0	ppm	269.0	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter SO2

Air Monitoring Network PASZA



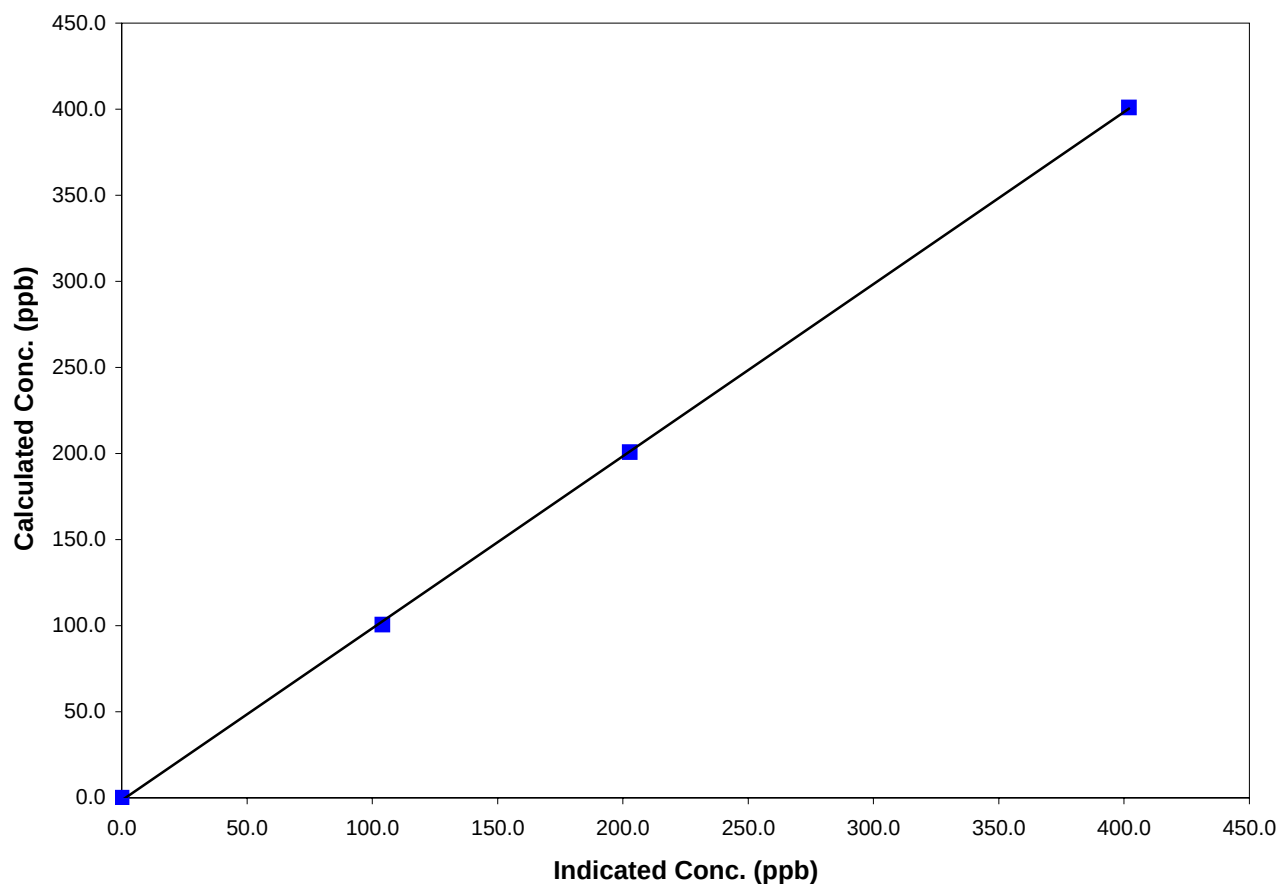
Station Information

Calibration Date	September 11, 2009	Previous Calibration	August 18, 2009
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	11:14	End Time (MST)	14:27
Analyzer make/model	Teco 43i	Analyzer serial #	701120008

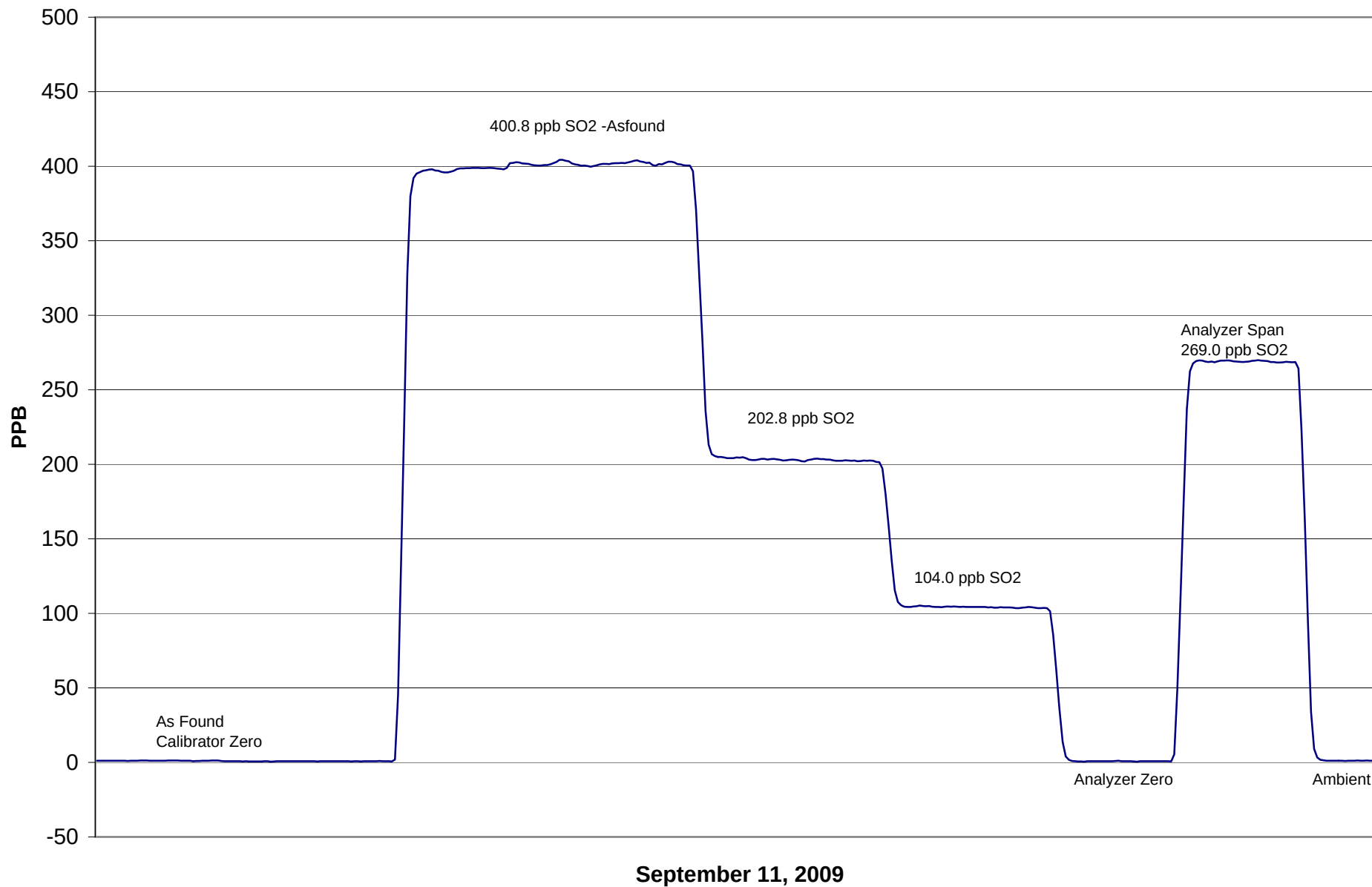
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A	Correlation Coefficient	0.999926
401.0	402.0	0.9974		
200.8	202.8	0.9904		
100.5	104.0	0.9662	Slope	0.999772
			Intercept	-1.593223

SO2 Calibration Curve



Evergreen Park SO₂ Calibration



Calibration Report



Parameter TRS

Air Monitoring Network PASZA

Station Information

Calibration Date	September 11, 2009	Previous Calibration	August 18, 2009
Station Number	2	Station Location	Evergreen Park
Reason:	☒ Routine	☐ Install	☐ Removal
		☐ Other:	
Start Time (MST)	8:15	End Time (MST)	12:15
Barometric Pressure	0.938 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Conc	5.1 ppm	Cal Gas Expiry Date	4/2/2009
Correction factor	0.031885	Cal Gas Cylinder #	ALM 013295
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	<u>Before</u>		<u>After</u>
Calculated slope	1.005653	Calculated slope	1.001992
Calculated intercept	-0.277709	Calculated intercept	-0.179832

Analyzer make TEI Model 43C Analyzer serial # 436610005

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	18.7	ppb	15.9	ppb
coefficient	0.614		0.877	
Lamp Voltage	811	volts	812	volts
Chamber Temp	44.2	Deg C	44.3	Deg C
Perm Gas Temp	45.3	Deg C	45.35	Deg C
Pressure	636.5	mm Hg	636.8	mm Hg
Sample Flow	0.453	ccm	0.483	ccm
Lamp Intensity	45,411	mv	45,455	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)
4990	0.00	0.0	0.2	N/A
4991	79.78	80.2	80.3	0.9987
4991	39.87	40.4	40.3	1.0027
4990	9.89	10.1	10.4	0.9702
4990	0.00	0.0	-0.1	As Found Zero
4987	79.91	80.4	78.2	As Found Span
Average Correction Factor				0.9905

Calculated value of As Found Response: 78.54 ppm Percent Change of As Found: 2.4%

	before calibration		after calibration	
Auto zero	-0.5	ppm	0.1	ppm
Auto span	67.0	ppm	67.0	ppm

Notes:

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter TRS

Air Monitoring Network PASZA



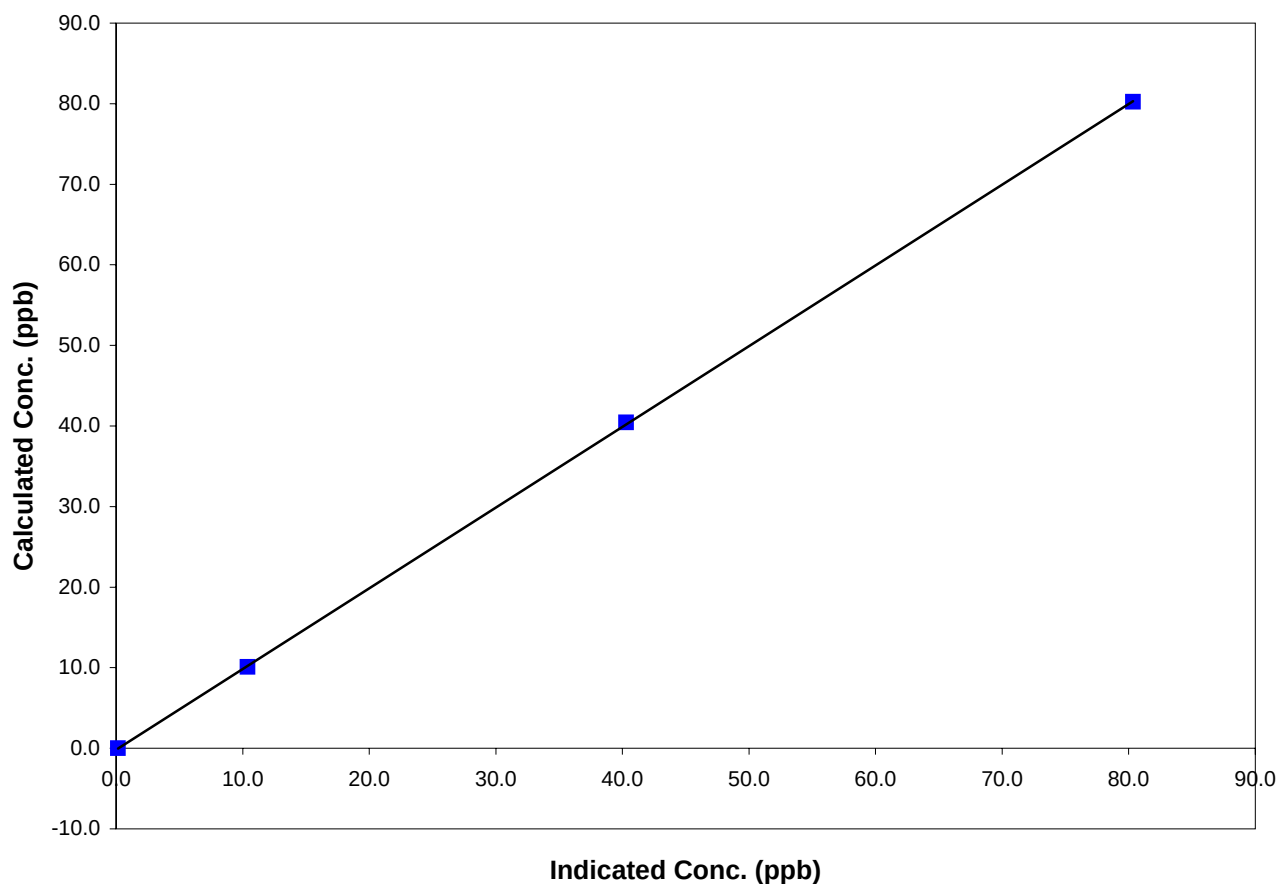
Station Information

Calibration Date	September 11, 2009	Previous Calibration	August 18, 2009
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	8:15	End Time (MST)	12:15
Analyzer make/model	TEI Model 43C	Analyzer serial #	436610005

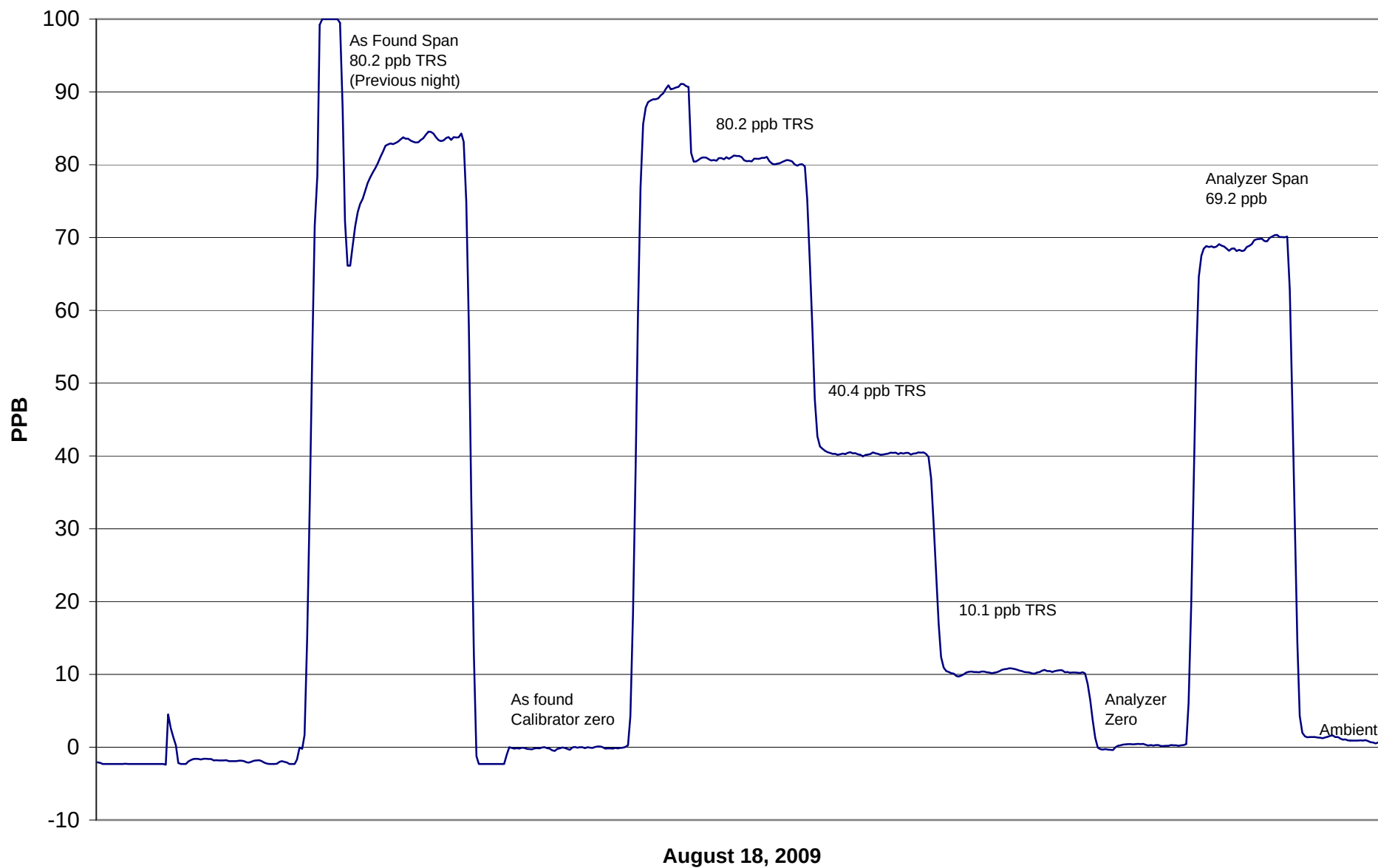
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A	Correlation Coefficient	0.999981
80.2	80.3	0.9987		
40.4	40.3	1.0027		
10.1	10.4	0.9702	Slope	1.001992
			Intercept	-0.179832

TRS Calibration Curve



Evergreen Park TRS Calibration



Calibration Report



Parameter SO₂

Air Monitoring Network PASZA

Station Information

Calibration Date	September 27, 2009	Previous Calibration	August 26, 2009
Station Number	3	Station Location	Smoky Heights
Reason:	☒ Routine	☐ Install	☐ Removal
		☐ Other:	
Start Time (MST)	8:00	End Time (MST)	10:29
Barometric Pressure	0.932 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.6 ppm	Cal Gas Cert Date	6/8/2008
Correction factor	0.031681	Cal Gas Cylinder #	AAL 15377
DACS make	Focus AP1000	DACS serial No.	45272
DACS voltage range	0 - 10 volt	DACS channel #	6
	<u>Before</u>		<u>After</u>
Calculated slope	1.003717	Calculated slope	0.999545
Calculated intercept	-1.744805	Calculated intercept	-2.360518
Analyzer make	Teco 43i	Analyzer serial #	701120009

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	7.6		7.6	
coefficient	0.703		0.701	
Lamp Voltage	917	volts	919	volts
Chamber Temp	45.1	Deg C	45	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	664.1	mm Hg	666.1	mm Hg
Sample Flow	440	ccm	440	ccm
Lamp Intensity	88	%	88	%

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)
4990	0.0	0.00	0.2	N/A
4990	39.85	400.89	402.3	0.9965
4990	19.95	201.49	205.0	0.9829
4990	9.95	100.70	105.3	0.9560
4990	0.0	0.00	0.6	As Found Zero
4990	39.85	400.89	403.2	As Found Span
Average Correction Factor				0.9785

Calculated value of As Found Response: 402.335 ppm Percent Change of As Found: -0.4%

	before calibration		after calibration	
Auto zero	-0.9	ppb	0.7	ppb
Auto span	305.5	ppb	306.4	ppb

Notes:

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter SO2

Air Monitoring Network PASZA



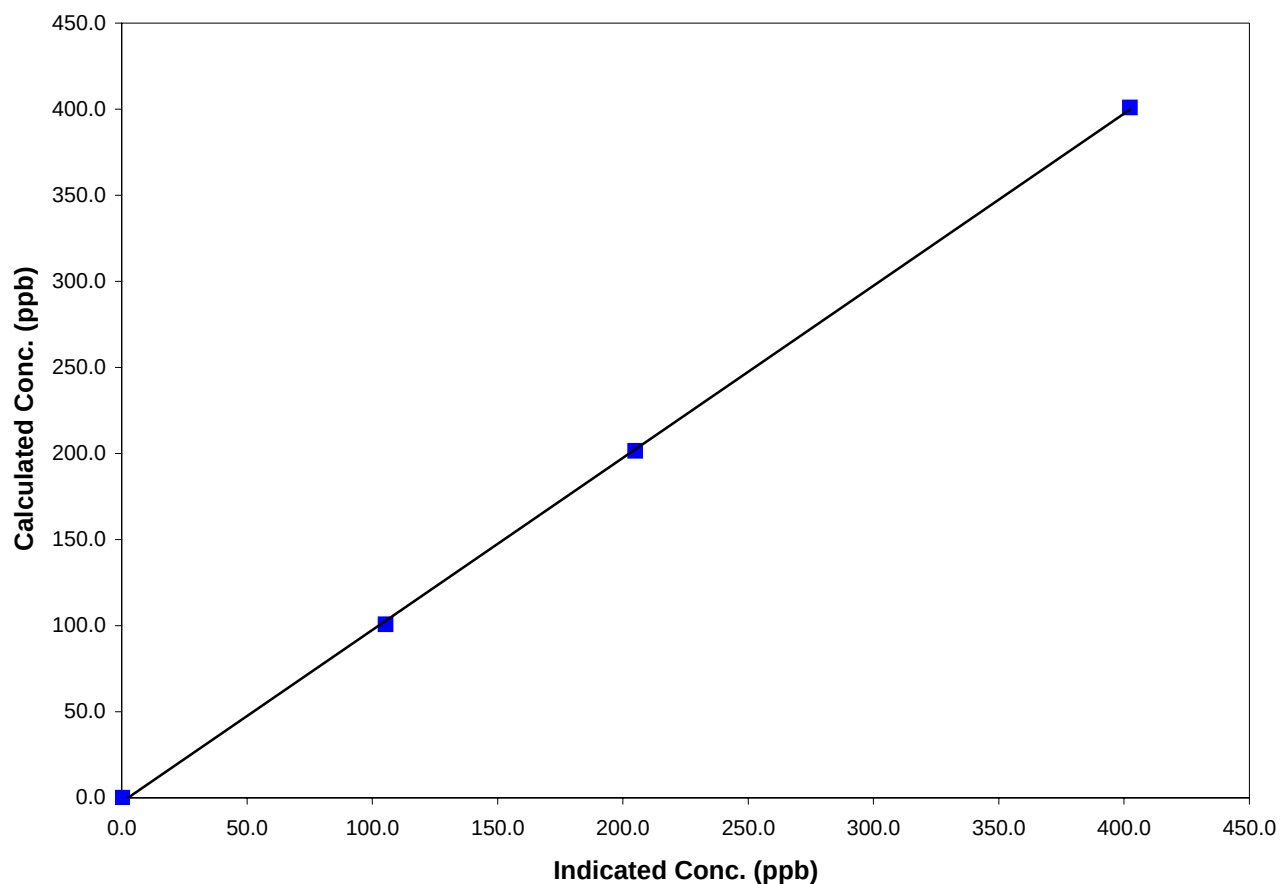
Station Information

Calibration Date	September 27, 2009	Previous Calibration	August 26, 2009
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	8:00	End Time (MST)	10:29
Analyzer make/model	Teco 43i	Analyzer serial #	701120009

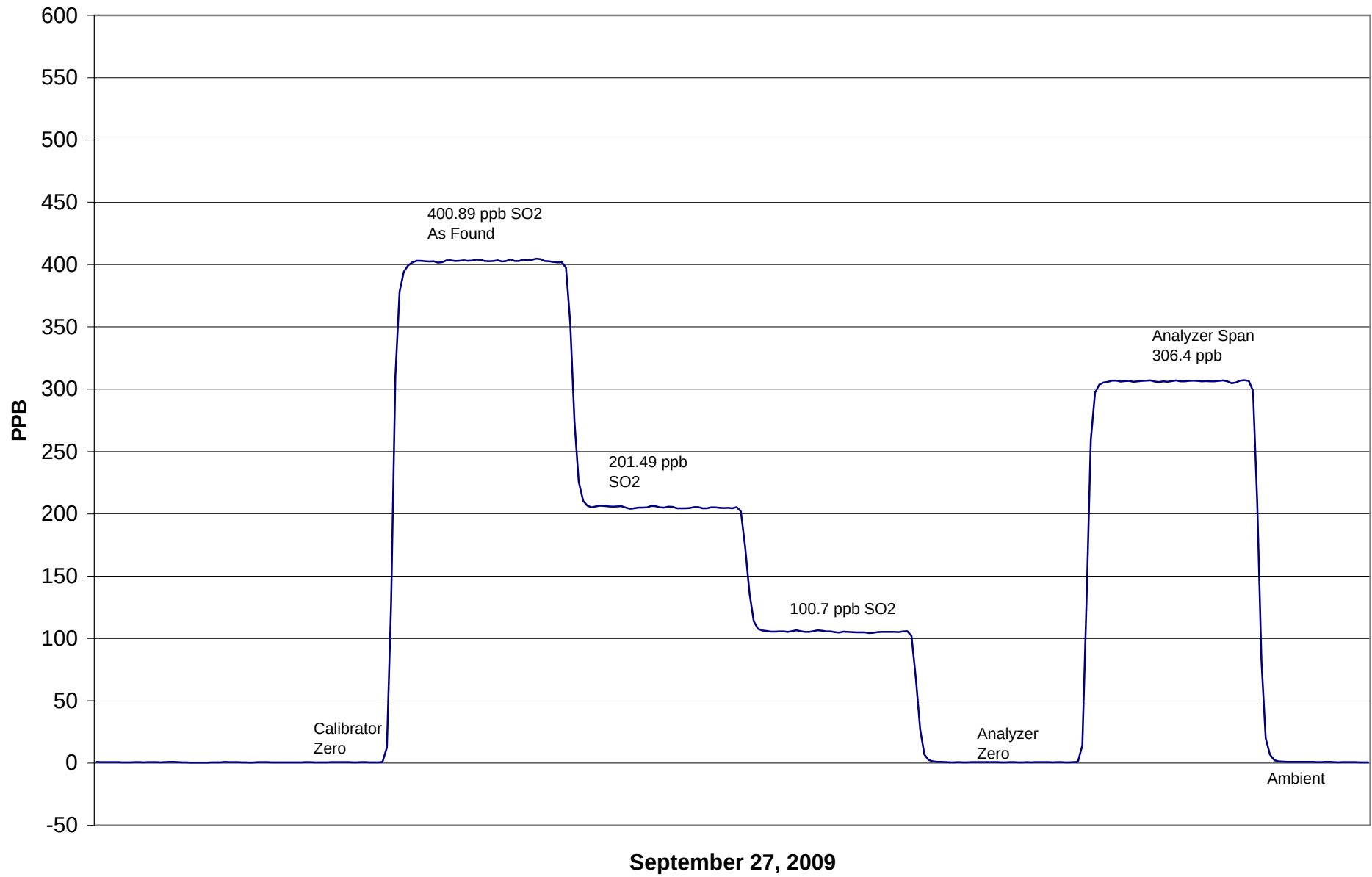
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A	Correlation Coefficient	0.999864
400.9	402.3	0.9965		
201.5	205.0	0.9829		
100.7	105.3	0.9560	Slope	0.999545
			Intercept	-2.360518

SO2 Calibration Curve



Smoky Heights SO₂ Calibration



Calibration Report



Parameter TRS

Air Monitoring Network PASZA

Station Information

Calibration Date	September 27, 2009	Previous Calibration	August 26, 2009
Station Number	3	Station Location	Smoky Heights
Reason:	☒ Routine	☐ Install	☐ Removal
			☐ Other:
Start Time (MST)	9:30	End Time (MST)	11:59
Barometric Pressure	0.926 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Conc	5.1 ppm	Cal Gas Expiry Date	4/2/2009
Correction factor	0.031477	Cal Gas Cylinder #	ALM013295
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	<u>Before</u>		<u>After</u>
Calculated slope	1.005705	Calculated slope	0.996435
Calculated intercept	-0.299149	Calculated intercept	-0.391020

Analyzer make TEI Model 43C Analyzer serial # 0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background	13.6	ppb	13.4	ppb
coefficient	1.043		1.043	
Lamp Voltage	762	volts	762	volts
Chamber Temp	44	Deg C	43.8	Deg C
Perm Gas Temp	44.9	Deg C	44.9	Deg C
Pressure	492.5	mm Hg	494	mm Hg
Sample Flow	761	ccm	744	ccm
Lamp Intensity	32,341	mv	32,291	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)
4990	0.0	0.00	0.3	N/A
4990	79.76	80.24	81.0	0.9905
4990	39.85	40.41	40.7	0.9928
4990	9.93	10.13	10.8	0.9371
4990	0.0	0.00	0.1	As Found Zero
4990	79.71	80.19	79.0	As Found Span
Average Correction Factor				0.9735

Calculated value of As Found Response: 79.08 ppm Percent Change of As Found: 1.4%

	before calibration		after calibration	
Auto zero	-0.4	ppm	0.0	ppm
Auto span	41.7	ppm	41.8	ppm

Notes:

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter TRS

Air Monitoring Network PASZA



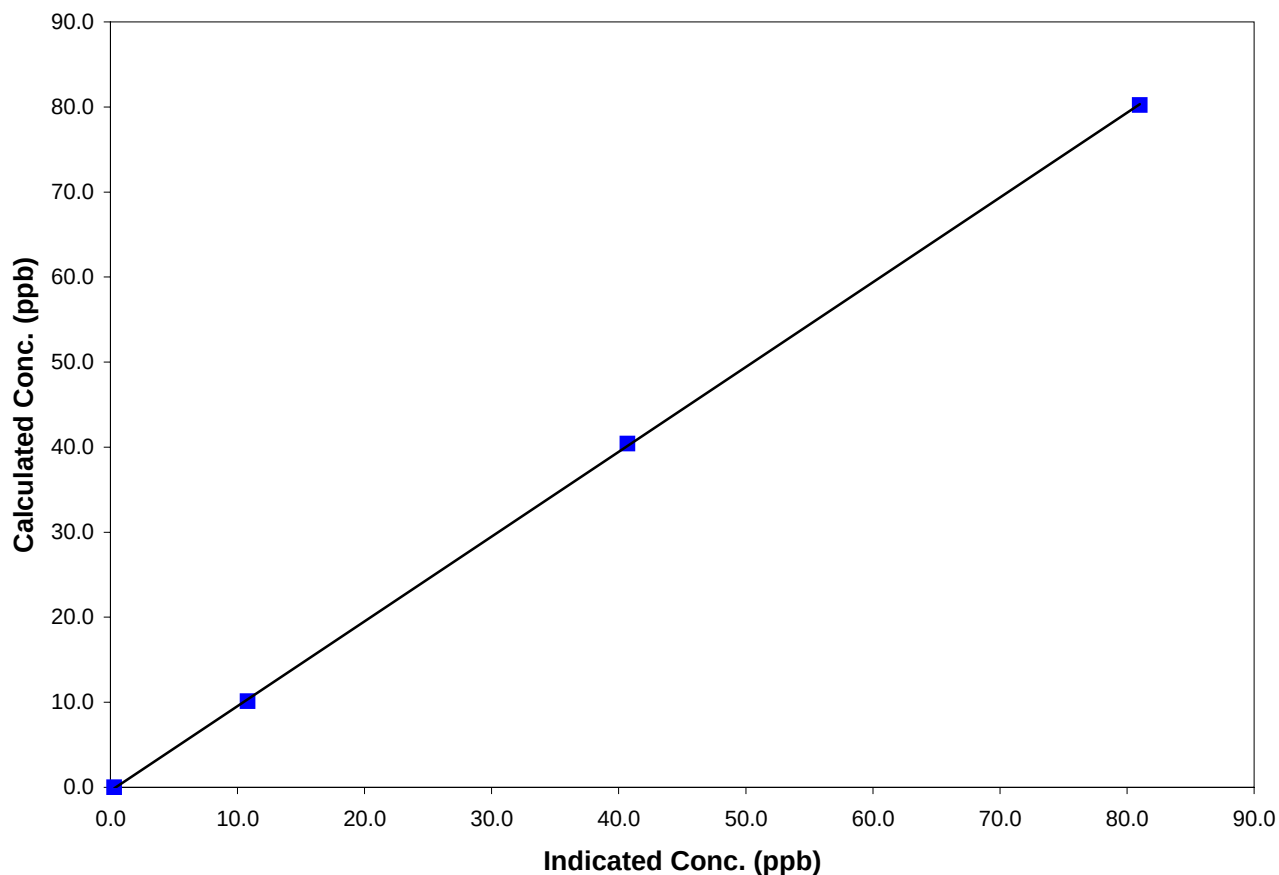
Station Information

Calibration Date	September 27, 2009	Previous Calibration	August 26, 2009
Station Number	3	Station Location	Smoky Heights
Start Time (MST)	9:30	End Time (MST)	11:59
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

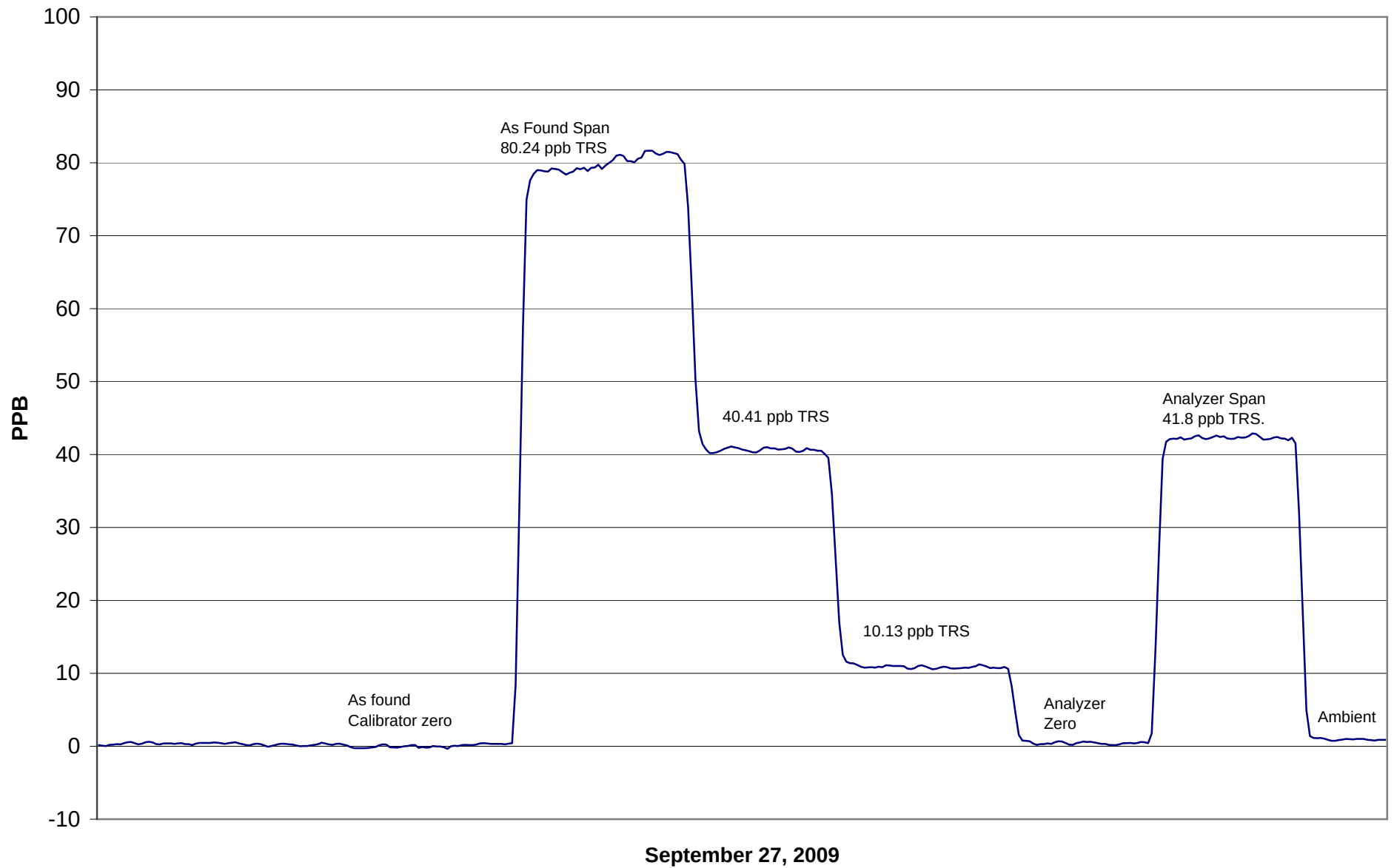
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A	Correlation Coefficient	0.999964
80.2	81.0	0.9905		
40.4	40.7	0.9928		
10.1	10.8	0.9371	Slope	0.996435
			Intercept	-0.391020

TRS Calibration Curve



Smoky Heights TRS Calibration



Calibration Report

Parameter SO2

Air Monitoring Network PASZA



Station Information

Calibration Date	September 7, 2009	Previous Calibration	August 13, 2009
Station Number	4	Station Location	Beaverlodge
Reason:	☒ Routine	☐ Install	☐ Removal
		☐ Other:	
Start Time (MST)	10:15	End Time (MST)	12:57
Barometric Pressure	0.900 atm	Station Temperature	23.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	10.06 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	CC 114395		
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 10 volt	DACS channel #	5
	<u>Before</u>		<u>After</u>
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.002767	Calculated slope	1.000090
Calculated intercept	-0.332922	Calculated intercept	-0.454321
Analyzer make	TEI Model 43i-TLE	Analyzer serial #	713021137

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.35		2.35	
Coefficient	0.877		0.877	
PMT	-813	V	-813	V
UV Lamp Voltage	1055	V	1054	V
Chamber Temp	45.1	Deg C	45.1	Deg C
Pressure	655.6	mm Hg	655.5	mm Hg
Sample Flow	0.471	LPM	0.471	LPM
Lamp Intesity	85%	%	85%	%

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)
4988	0.00	0.0	0.0	N/A
4989	39.84	79.7	79.9	0.9978
4988	19.87	39.9	40.7	0.9816
4988	9.91	19.9	20.9	0.9557
4988	0.00	0.0	0.1	As found zero
4988	39.90	79.8	79.9	As found span
Average Correction Factor				0.9784

Calculated value of As Found Response: 79.702 ppm Percent Change of As Found: 0.2%

	before calibration		after calibration	
Auto zero	-0.3	ppb	-0.4	ppb
Auto span	57.8	ppb	56.3	ppb

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter SO2

Air Monitoring Network PASZA



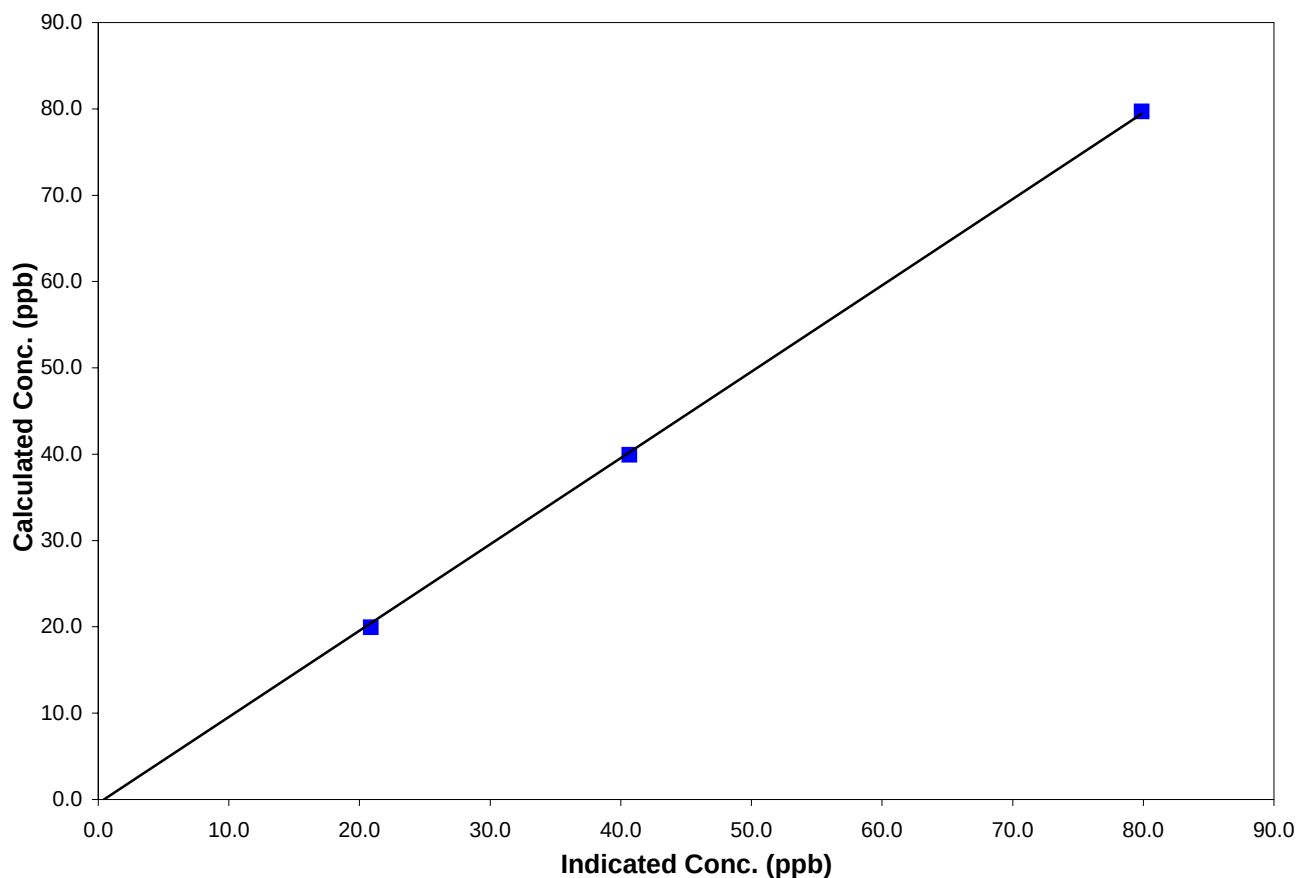
Station Information

Calibration Date	September 7, 2009	Previous Calibration	August 13, 2009
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	10:15	End Time (MST)	12:57
Analyzer make/model	TEI Model 43i-TLE	Analyzer serial #	713021137

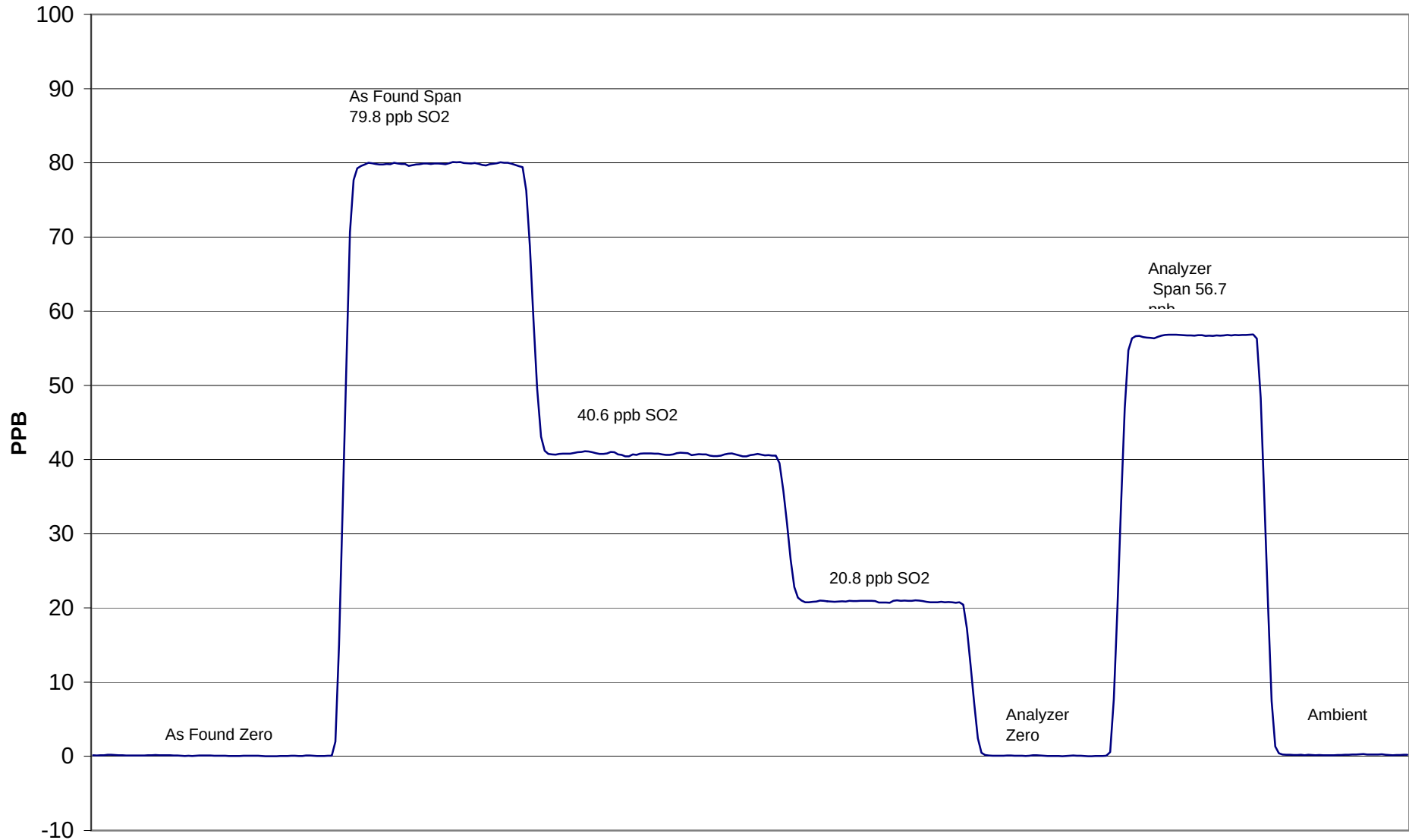
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A	Correlation Coefficient	0.999818
79.7	79.9	0.9978		
39.9	40.7	0.9816		
19.9	20.9	0.9557	Slope	1.000090
			Intercept	-0.454321

SO2 Calibration Curve



Beaverlodge SO₂ Calibration



September 7, 2009

Calibration Report

Parameter

NO_x-NO-NO₂

Air Monitoring Network

PASZA



Station Information

Calibration Date	September 7, 2009	Previous Calibration	August 13, 2009
Station Number	4	Station Location	BeaverLodge
Reason:	☒ Routine	☐ Installation	☐ Removal
Start Time (MST)	10:00	End Time (MST)	16:00
Barometric Pressure	0.900	Station Temperature	20.0
Calibrator	Envionics	Serial Number	2844
NO Cal Gas Conc	50.1	Cal Gas Expiry Date	
NOx Cal Gas Conc	50.2	Cal Gas Serial #	CC-114395

DACS Information

DACS make	AP1000	DACS serial No.	
Parameter	NO2	NOx	NO
Before	Data Slope	0.994249	1.014682
	Data Offset	-0.214364	-2.433413
After	Data Slope	0.991523	1.003777
	Data Offset	-0.690035	-2.032202
Channel #	8	6	7
Voltage Range	0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model	TEI 42i	Analyzer serial #	906535068
Test Point	before	after	
Concentration range	0 - 1000	ppb	0 - 1000
NO offset	2.7	mV	2.7
NOx bkgnd	3.2	mV	3.2
NO coefficient	1.070		1.560
NOx coefficient	0.992		0.991
NO2 conv temp	323.9	Deg C	323.9
PMT Temp	-3.0	Deg C	-3.1
PMT Volt	-676.4	mV	-676.6
R Cell Press	185.5	in Hg	185.5
Sample Flow	0.730	ccm	0.730

Notes:

Calibration Report

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



Station Information

Calibration Date: September 7, 2009 Station Location: BeaverLodge

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor
zero	4989	0.00	0.0	0.0	0.0	0.0	-0.1	-0.1	N/A	N/A
1	4989	39.84	397.7	396.9	0.8	397.2	396.7	-0.9	1.0013	1.0006
2	4989	19.87	199.1	198.7	0.4	201.4	199.5	1.4	0.9890	0.9962
3	4989	9.91	99.5	99.3	0.2	103.3	101.6	1.3	0.9635	0.9780
AFZ	4988	0.00	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0000	0.0000
AFS	4988	39.84	397.8	397.0	0.8	282.1	281.3	0.0	1.4099	1.4114
Average Correction Factor									0.9846	0.9916

As Found Concentrations: NO_x= 279.7 NO= 279.7 As Found Percent Change NO_x= -29.7% NO= -29.6%

GPT Calibration Data

Dilution Flow 4989 ccm Source Gas Flow 39.84 ccm

O3 Setpoint (ppb)	Indicated NO high point (ppb)	Indicated NO drop 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	-0.1	-0.1	0.0	0.0	-0.1	-0.1	N/A	N/A	N/A	N/A
NO point	394.8	394.8	0.0	396.4	394.8	-0.4	0.9958	1.0000	N/A	N/A
400	394.8	102.8	291.9	398.0	102.8	294.2	0.9918	1.0000	0.9925	100.8%
200	394.8	193.4	201.4	398.8	193.4	204.7	0.9899	1.0000	0.9839	101.6%
100	394.8	282.1	112.6	398.1	282.1	115.3	0.9916	1.0000	0.9773	102.3%
Average Correction Factor							0.9911	1.0000	0.9846	101.6%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	-0.2	-0.3	-0.2	ppb	0.1	0.0	-0.1	ppb
Auto span	175.3	173.3	2.1	ppb	181.0	179.0	2.0	ppb

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter NO₂

Air Monitoring Network PASZA



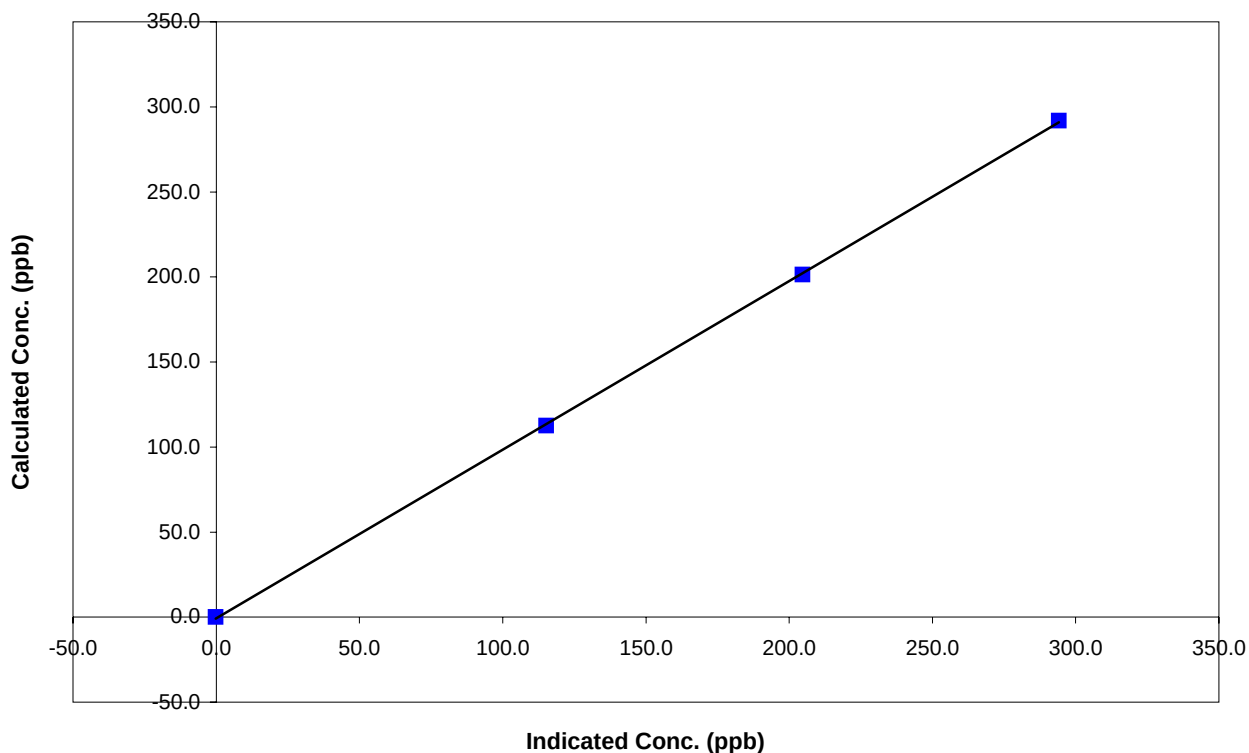
Station Information

Calibration Date	September 7, 2009	Previous Calibration	August 13, 2009
Station Number	4	Station Location	BeaverLodge
Start Time (MST)	10:00	End Time (MST)	16:00
Analyzer make	TEI 42i	Analyzer serial #	906535068

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A	Correlation Coefficient	0.999930
291.9	294.2	0.9925		
201.4	204.7	0.9839		
112.6	115.3	0.9773	Slope	0.991523
			Intercept	-0.690035

NO₂ Calibration Curve



Calibration Summary

Parameter NO_x

Air Monitoring Network PASZA



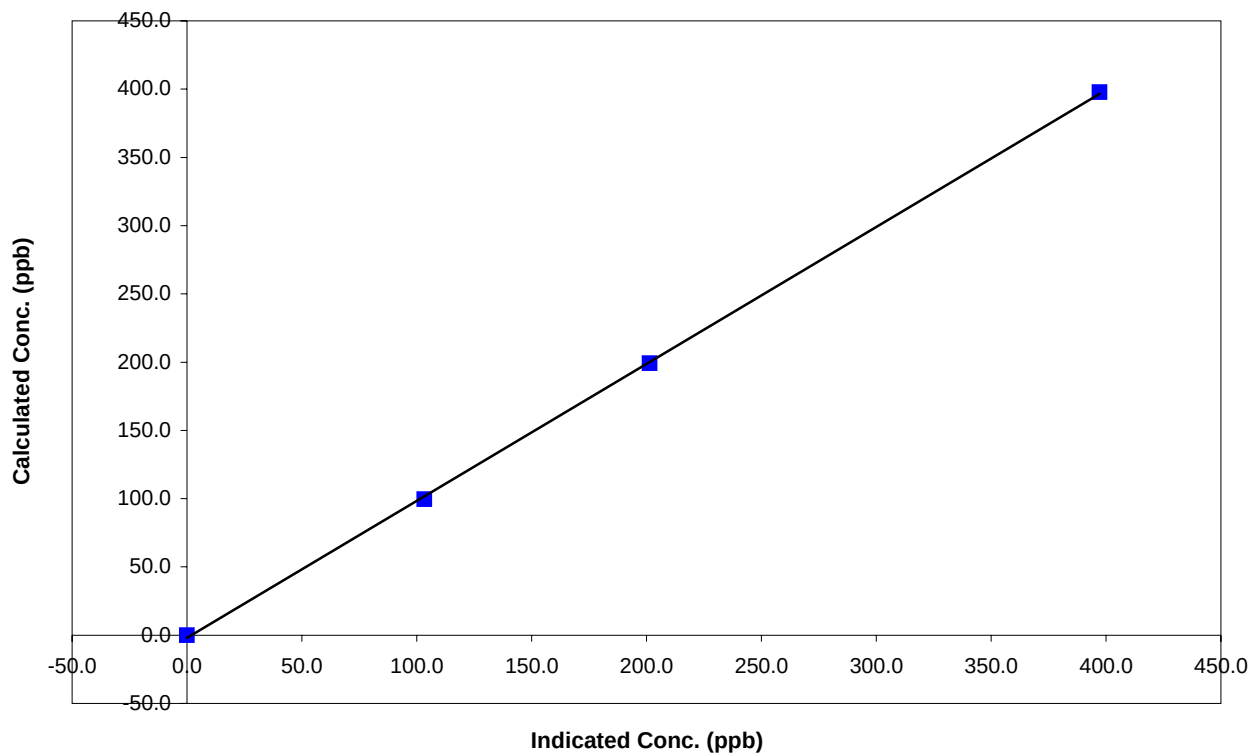
Station Information

Calibration Date	September 7, 2009	Previous Calibration	August 13, 2009
Station Number	4	Station Location	BeaverLodge
Start Time (MST)	10:00	End Time (MST)	16:00
Analyzer make	TEI 42i	Analyzer serial #	906535068

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A	Correlation Coefficient	0.999877
397.7	397.2	1.0013		
199.1	201.4	0.9890		
99.5	103.3	0.9635	Slope	1.003777
			Intercept	-2.032202

NO_x Calibration Curve



Calibration Summary

Parameter NO

Air Monitoring Network PASZA



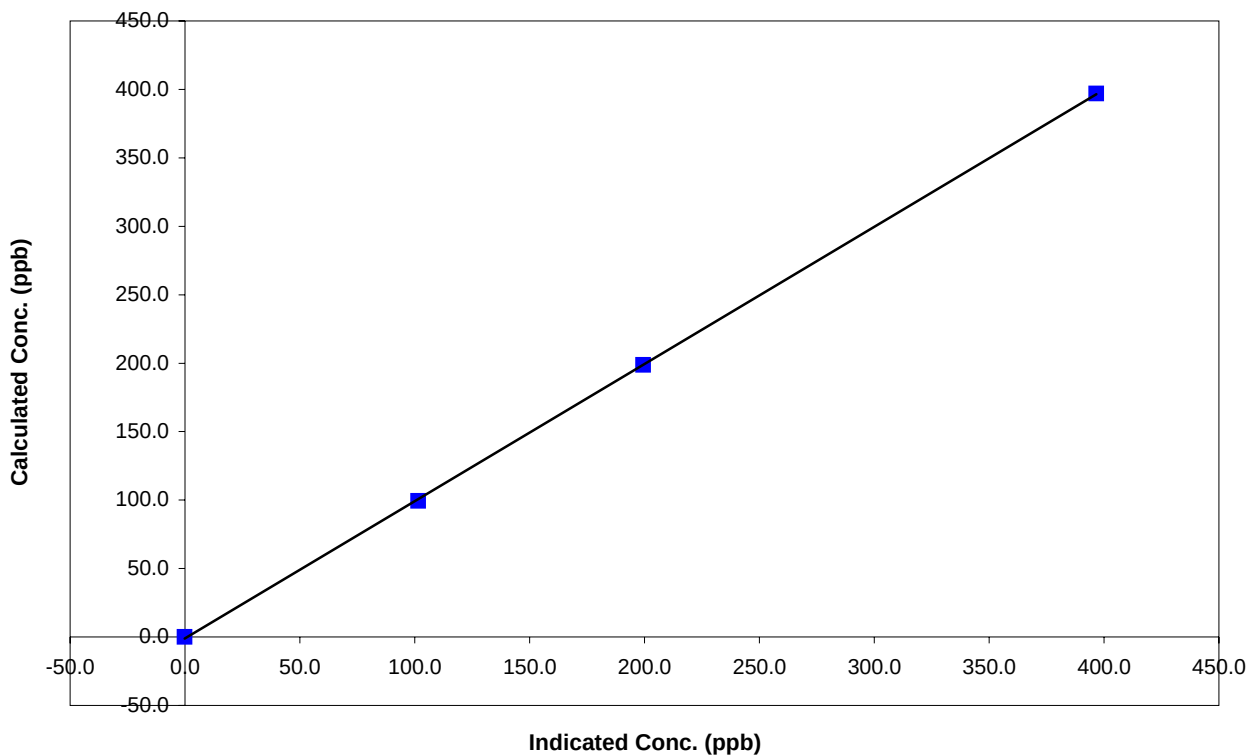
Station Information

Calibration Date	September 7, 2009	Previous Calibration	August 13, 2009
Station Number	4	Station Location	BeaverLodge
Start Time (MST)	10:00	End Time (MST)	16:00
Analyzer make	TEI 42i	Analyzer serial #	906535068

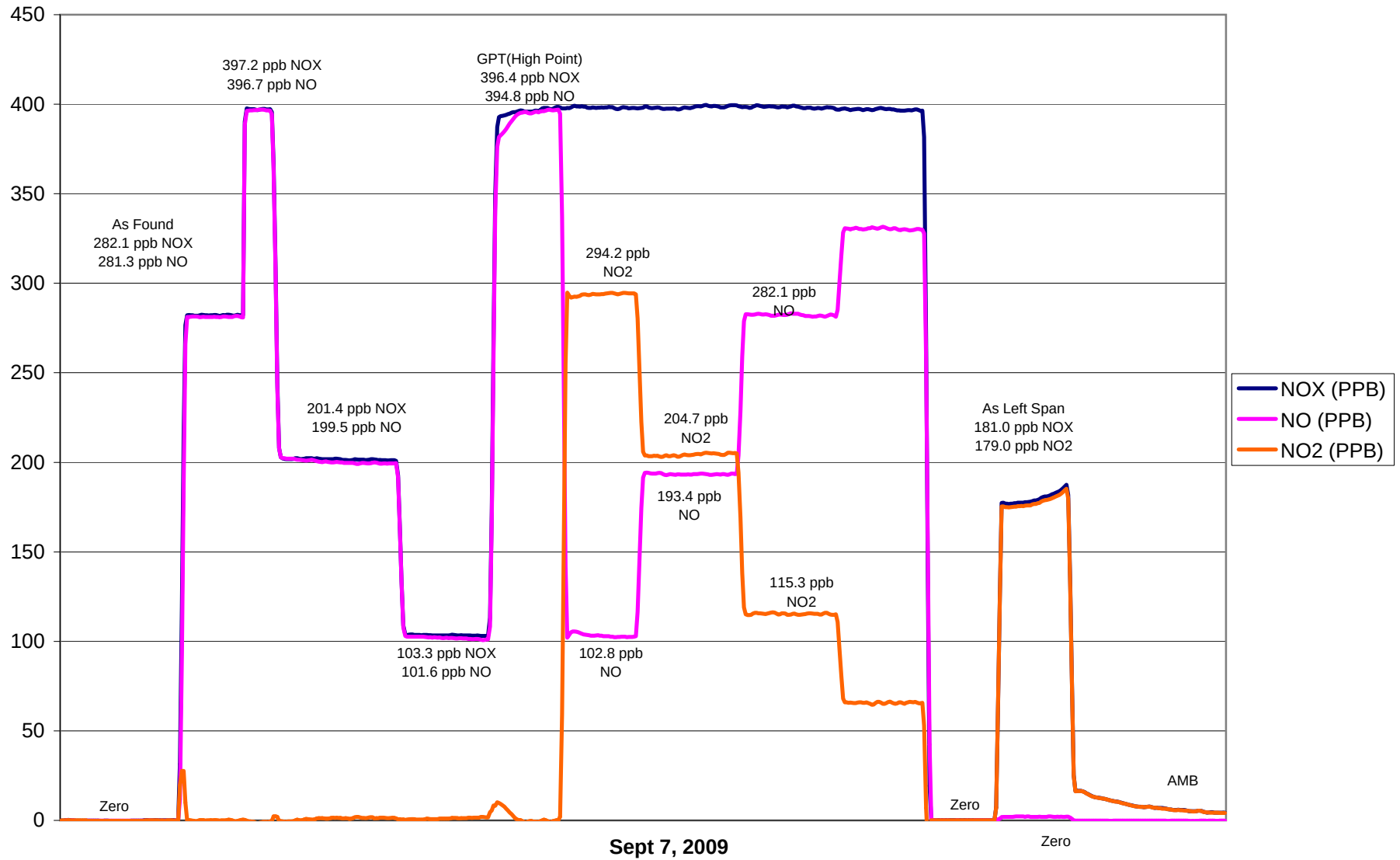
Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A	Correlation Coefficient	0.999960
396.9	396.7	1.0006		
198.7	199.5	0.9962		
99.3	101.6	0.9780	Slope	1.002086
			Intercept	-1.034788

NO Calibration Curve



Beaverlodge NO_x Calibration



Calibration Report



Parameter 03

Air Monitoring Network PASZA

Station Information

Calibration Date	September 7, 2009	Previous Calibration	August 13, 2009
Station Number	4	Station Location	Beaverlodge
Reason:	☒ Routine	☐ Install	☐ Removal
			Other:

Start Time (MST)	14:00	End Time (MST)	16:06
Barometric Pressure	0.900 atm	Station Temperature	21.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	NA	Cal Gas Expiry Date	NA

DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 1 volt	DACS channel #	9
	Before		After
Calculated slope	0.998586	Calculated slope	0.984118
Calculated intercept	0.520843	Calculated intercept	0.185567

Analyzer make	Teco 49C	Analyzer serial #	49C-76443-383
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	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
offset	-1.00	ppb	-1.00	ppb
slope	1.027		1.027	
Lamp temp	56.4	mV	56.2	mV
Lamp Intensity A/B	70546 / 70480	mV	71405 / 70750	mV
Pressure	668	mm Hg	668	mm Hg
Flow A	689	ccm	689	ccm
Flow B	639	ccm	639	ccm

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.00	0.0	-0.4	N/A
4990	0.00	291.9	296.3	0.9853
4990	0.00	201.4	204.5	0.9847
4990	0.00	112.6	114.6	0.9828
4990	0.00	0.0	0.1	As found zero
4990	0.00	291.9	296.3	As found span
Average Correction Factor				0.9843

Calculated value of As Found Response: 296.3 ppm Percent Change of As Found: 1.5%

	before calibration		after calibration	
Auto zero	-0.2	ppb	0.1	ppb
Auto span	122.8	ppb	114.3	ppb

Notes:

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter O3

Air Monitoring Network PASZA



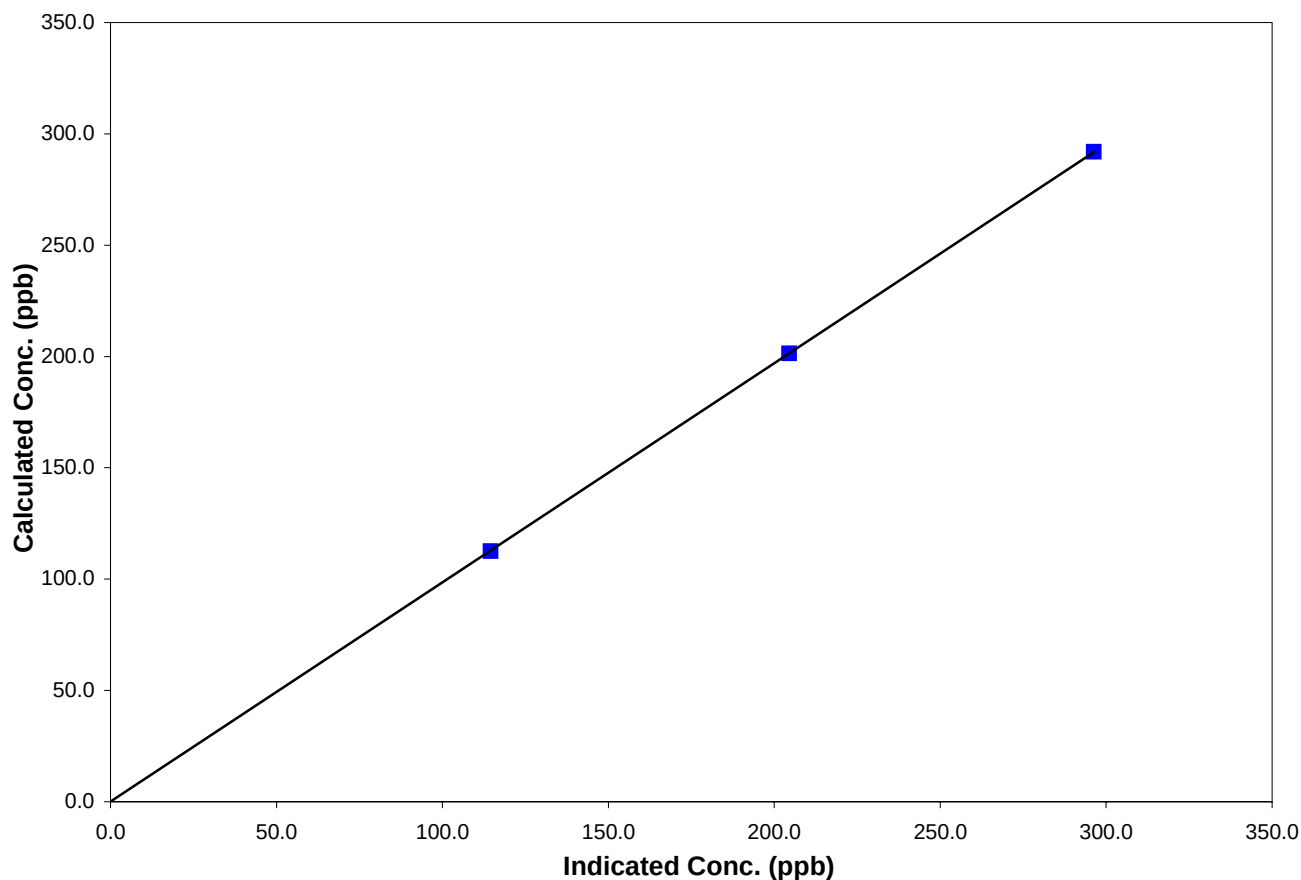
Station Information

Calibration Date	September 7, 2009	Previous Calibration	August 13, 2009
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	14:00	End Time (MST)	16:06
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

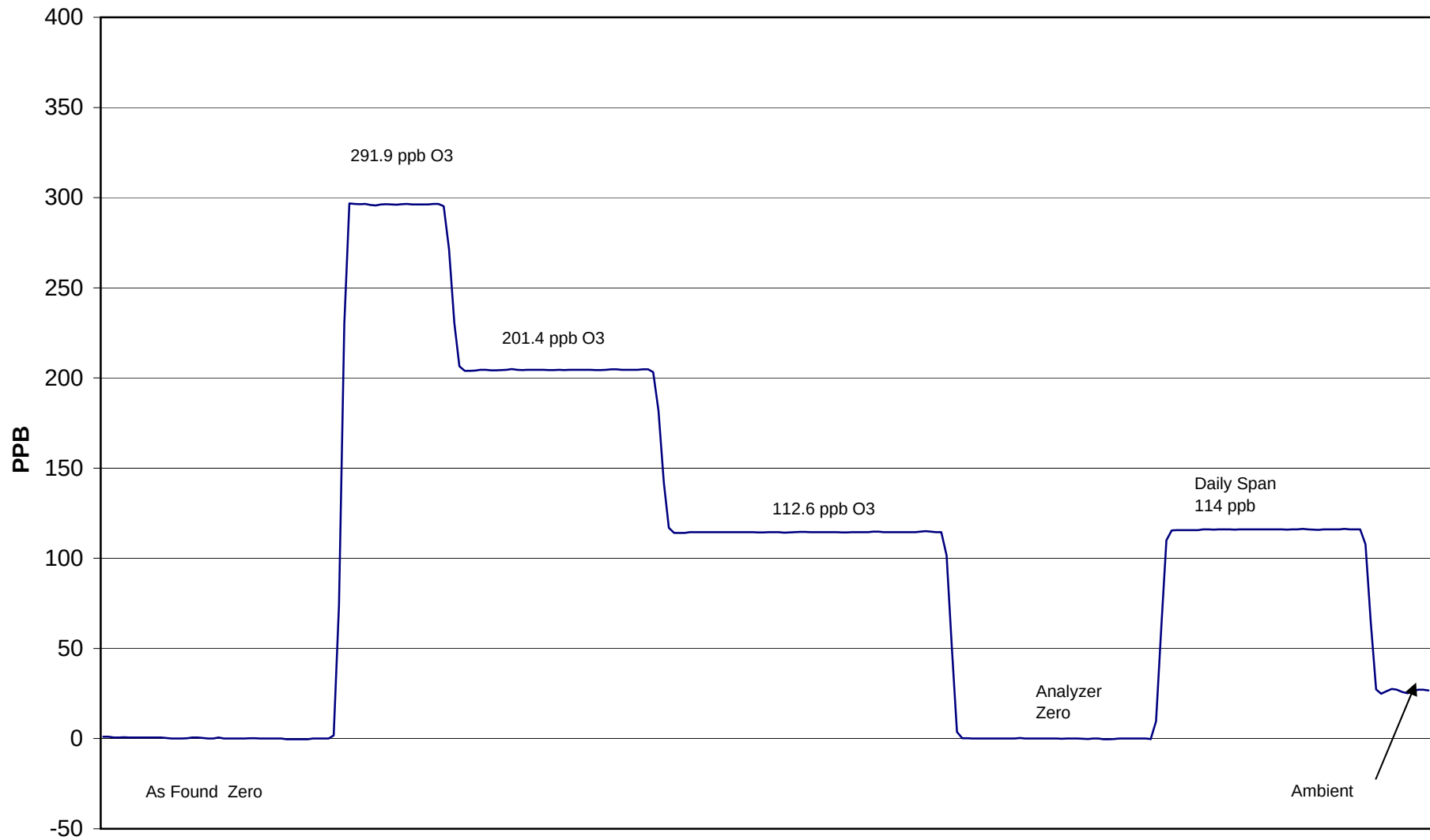
Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	NA	Correlation Coefficient	0.999996
291.9	296.3	0.9853		
201.4	204.5	0.9847		
112.6	114.6	0.9828	Slope	0.984118
			Intercept	0.185567

O3 Calibration Curve



Beaverlodge O₃ Calibration



September 7, 2009

Calibration Report

Parameter SO2
Air Monitoring Network PASZA



Station Information

Calibration Date	September 30, 2009	Previous Calibration	August 28, 2009
Station Number	9	Station Location	Rover - Kinuso
Reason:	☒ Routine	☐ Install	☐ Removal
			☐ Other:
Start Time (MST)	8:30	End Time (MST)	11:21
Barometric Pressure	27.66 inches Hg	Station Temperature	22.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.6 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	LL 16161		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 10 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.003309	Calculated slope	1.003179
Calculated intercept	-1.799225	Calculated intercept	-1.243188
Analyzer make	TEI 43C	Analyzer serial #	609716238

	<u>before</u>		<u>after</u>	
Concentration range	0-500	ppb	0-500	ppb
Background	8.9		8.9	
Coefficient	0.872		0.872	
UV Lamp Voltage	799	V	799	V
Chamber Temp	44.5	C	44.6	C
Perm Gas Temp	45	C	45	C
Pressure	679.6	mm Hg	687	mm Hg
Sample Flow	0.491	LPM	0.492	LPM
Lamp Intesity	47488	Hz	476486	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4988	0.00	0.0	0.4	N/A
4989	39.83	400.8	400.4	1.0009
4989	19.88	200.8	201.5	0.9969
4989	9.92	100.4	102.5	0.9797
4988	0.00	0.0	-0.2	As found zero
4990	39.89	401.3	399.1	As found span
Average Correction Factor				0.9925

Calculated value of As Found Response: 398.846 ppm Percent Change of As Found: 0.6%

	<u>before calibration</u>		<u>after calibration</u>	
Auto zero	0.3	ppm	0.3	ppm
Auto span	254.1	ppm	258.2	ppm

Notes: Internal Pump Replaced

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter SO2

Air Monitoring Network PASZA



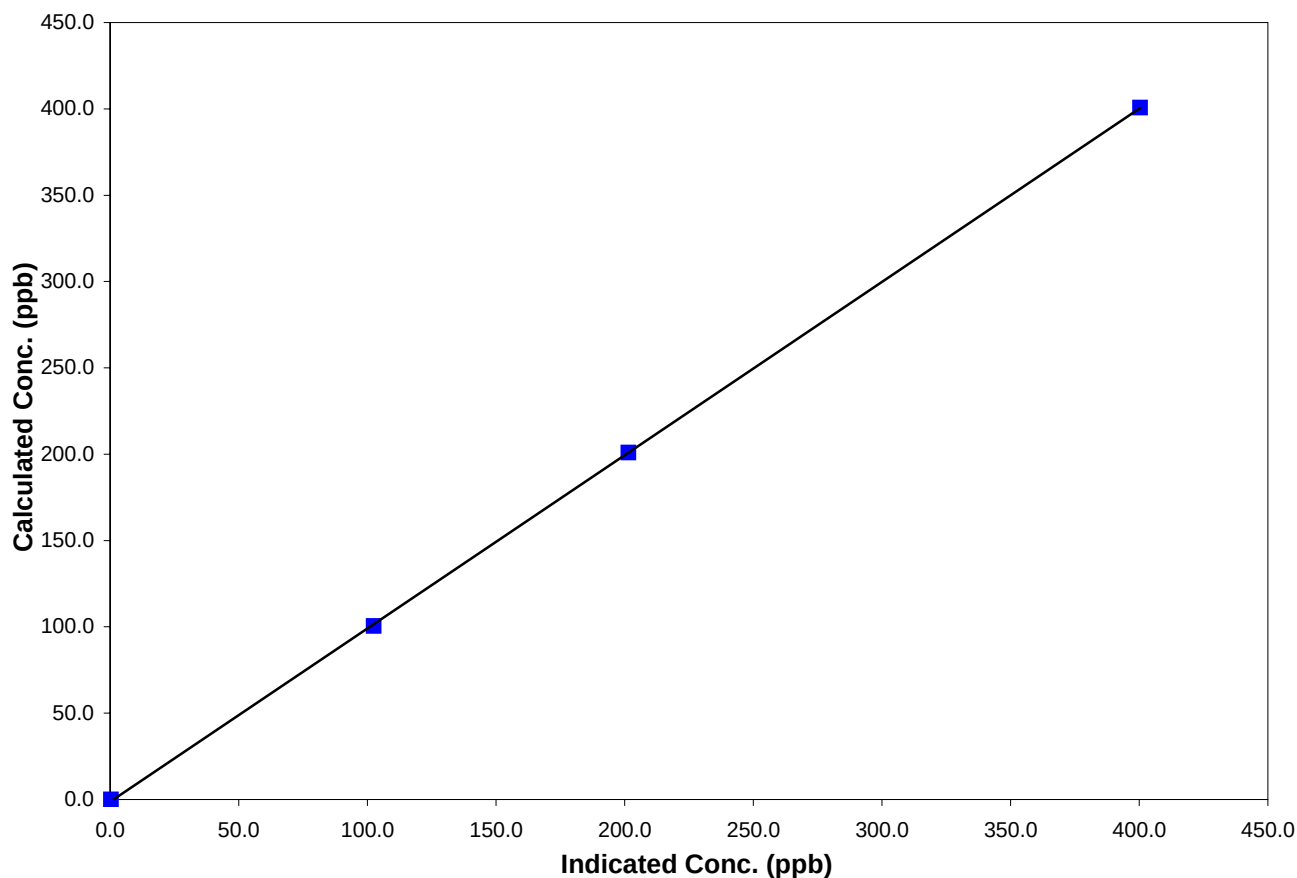
Station Information

Calibration Date	September 30, 2009	Previous Calibration	August 28, 2009
Station Number	9	Station Location	Rover - Kinuso
Start Time (MST)	8:30	End Time (MST)	11:21
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

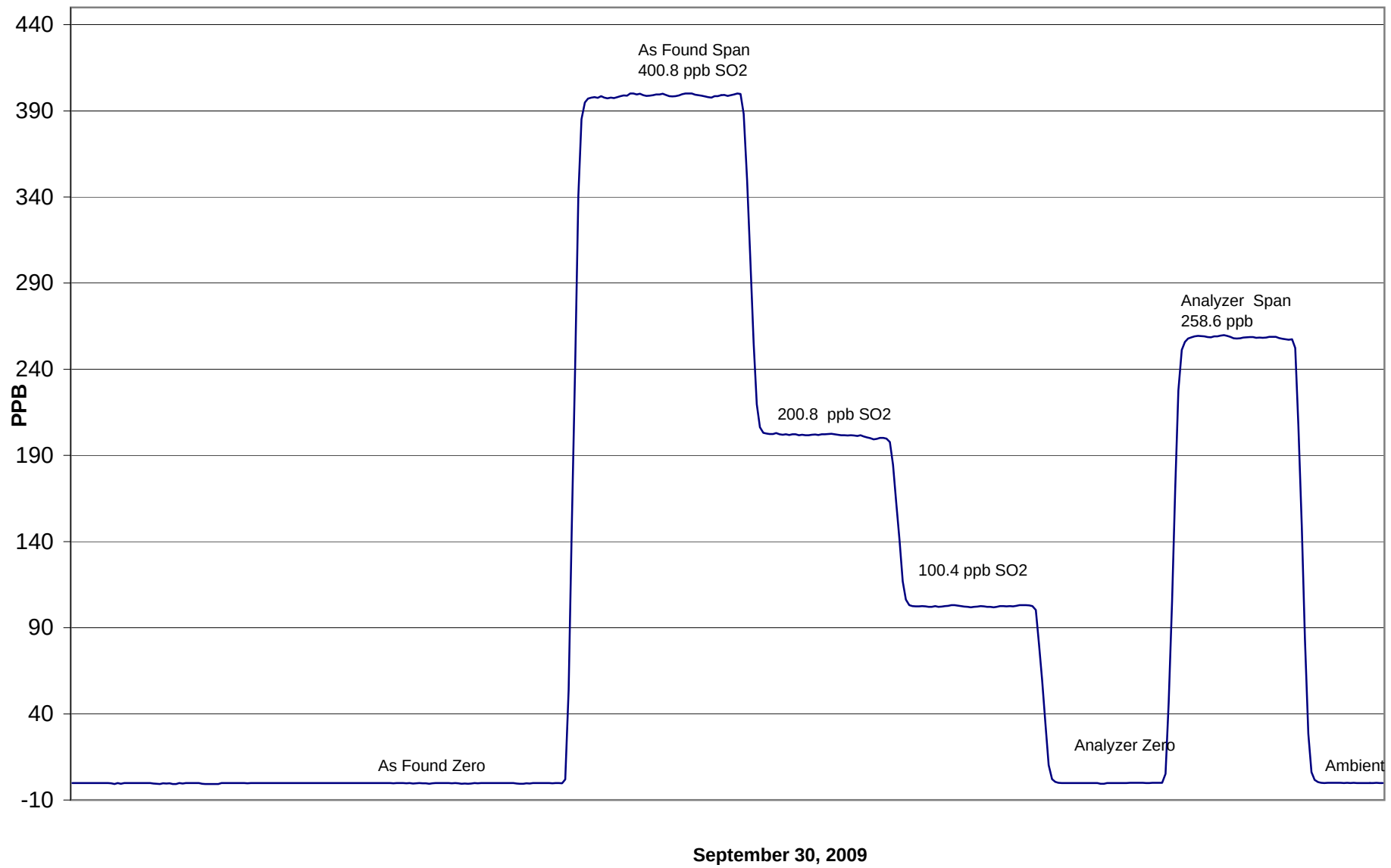
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.4	N/A	Correlation Coefficient	0.999975
400.8	400.4	1.0009		
200.8	201.5	0.9969		
100.4	102.5	0.9797	Slope	1.003179
			Intercept	-1.243188

SO2 Calibration Curve



Kinuso SO₂ Calibration



Calibration Report

Parameter **TRS**
Air Monitoring Network

PASZA



Station Information

Calibration Date	September 30, 2009	Previous Calibration	August 28, 2009
Station Number	9	Station Location	Rover-Kinuso
Reason:	☒ Routine	☐ Install	☐ Removal
		☐ Other:	
Start Time (MST)	15:22:00 PM	End Time (MST)	17:40
Barometric Pressure	27.5 inches Hg	Station Temperature	21.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	5.1 ppm	Cal Gas Expiry Date	11/15/2005
Gas Cert Reference	ALM013295		
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0 - 5 volt	DACS channel #	8
	<u>Before</u>		<u>After</u>
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.997999	Calculated slope	0.996384
Calculated intercept	-0.042904	Calculated intercept	0.273999
Analyzer make	TEI 43C	Analyzer serial #	609716238

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	10.1	ppb	10.4	ppb
Coefficient	1.466		1.448	
Lamp Voltage	790	V	798	V
Chamber Temp	43.9	C	44.0	C
Perm gas Temp	45.	C	45	C
Pressure	665	mmHg	664	mmHg
Sample Flow	431	ccm	436	ccm
Lamp Intensity	39053.0	Hz	38687.0	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4988	0.0	0.0	0.3	N/A
4988	79.88	80.4	80.8	0.9953
4988	39.85	40.4	39.6	1.0207
4988	9.92	10.1	9.6	1.0502
4988	0.00	0.0	-0.2	As found zero
4988	79.88	80.4	80.0	As found span
Average Correction Factor				1.0221

Calculated value of As Found Response: 80.01 ppm Percent Change of As Found: 0.5%

	before calibration		after calibration	
Auto zero	-0.4	ppm	-0.5	ppm
Auto span	66.6	ppm	68.0	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter TRS

Air Monitoring Network PASZA



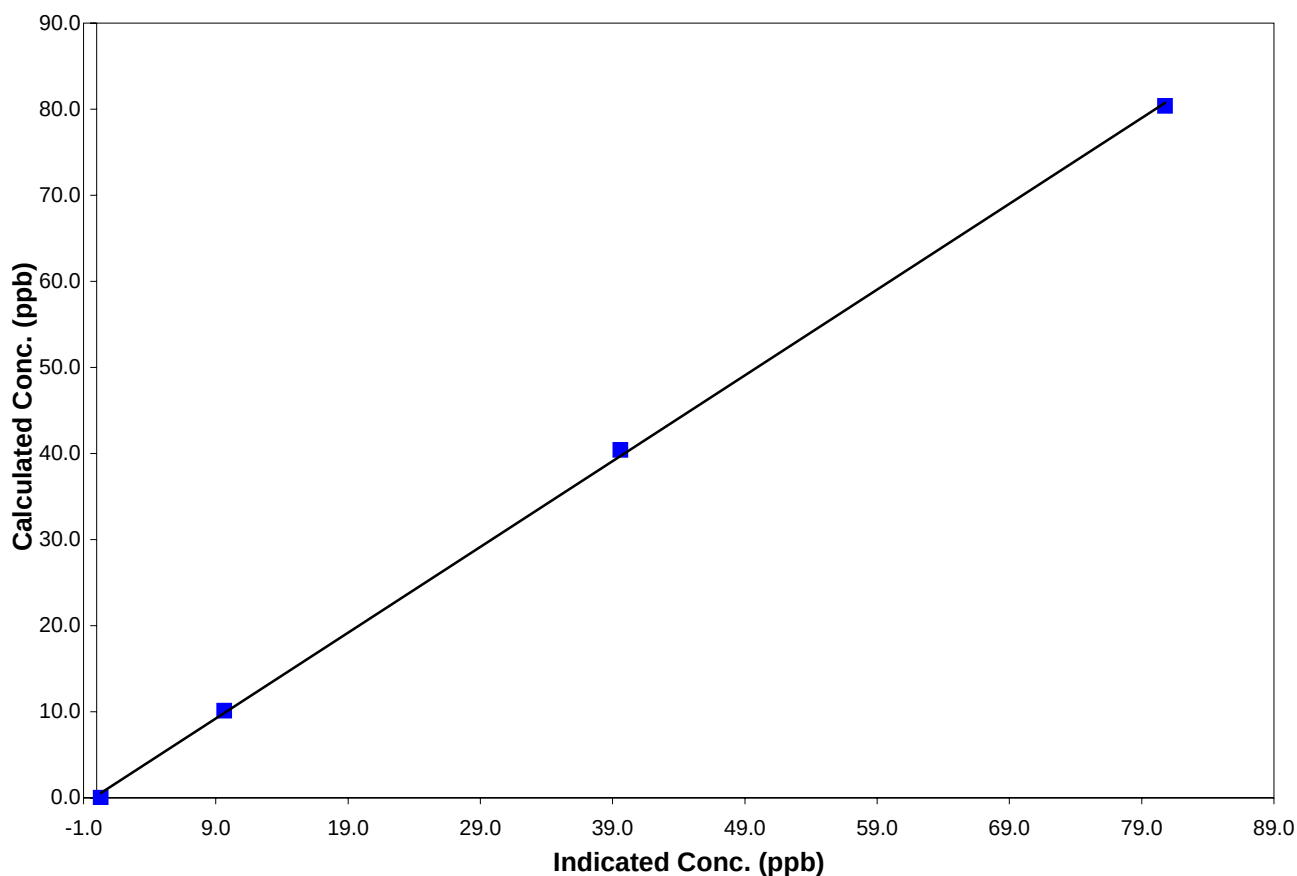
Station Information

Calibration Date	September 30, 2009	Previous Calibration	August 28, 2009
Station Number	9	Station Location	Rover-Kinuso
Start Time (MST)	15:22:00 PM	End Time (MST)	17:40
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

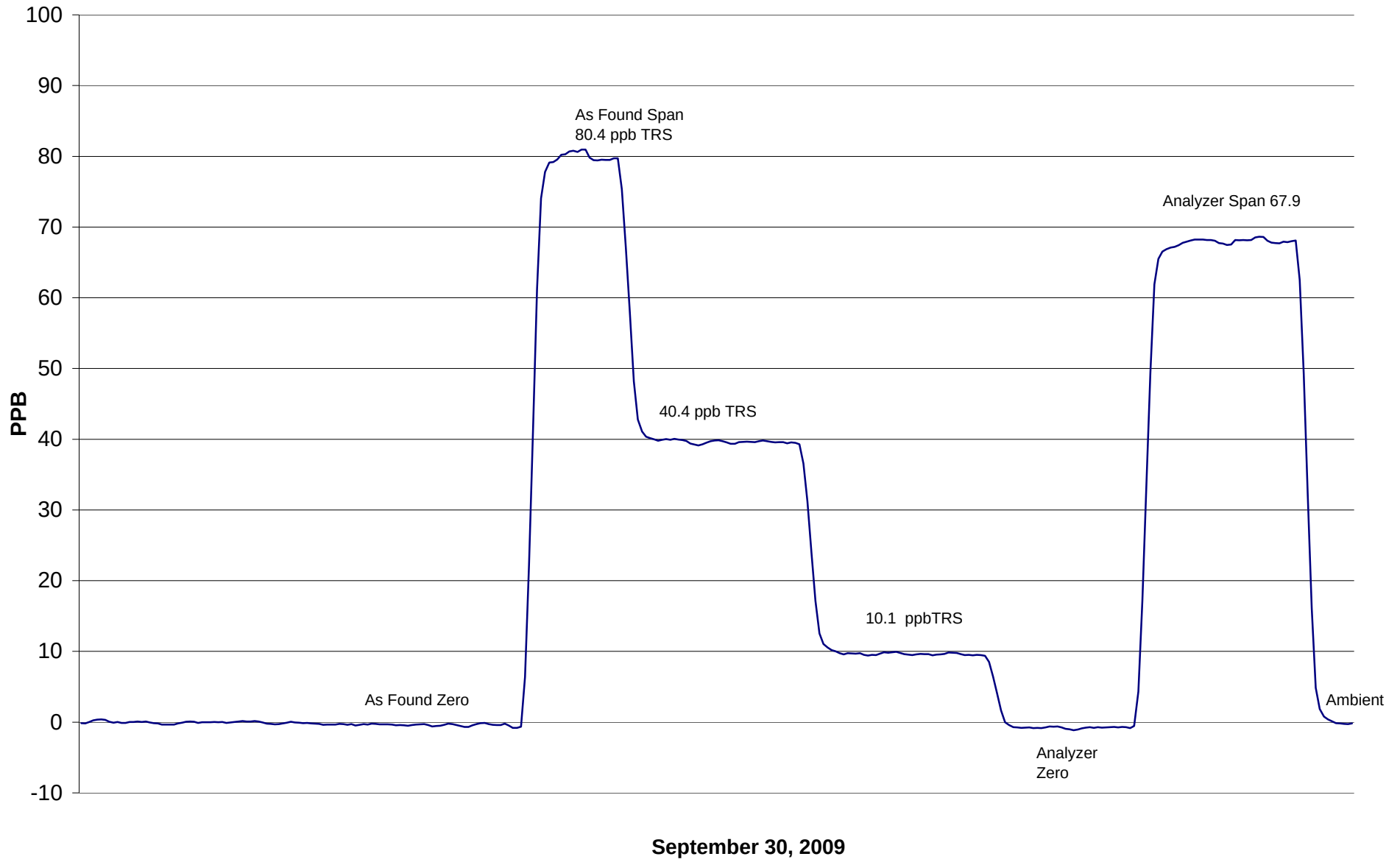
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A	Correlation Coefficient	0.999747
80.4	80.8	0.9953		
40.4	39.6	1.0207		
10.1	9.6	1.0502	Slope	0.996384
			Intercept	0.273999

TRS Calibration Curve



Kinuso TRS Calibration



Calibration Report

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



Station Information

Calibration Date	September 30, 2009	Previous Calibration	August 28, 2009
Station Number	9	Station Location	Rover Kinuso
Reason:	Routine	Installation	Removal
Other:			
Start Time (MST)	8:30	End Time (MST)	19:00
Barometric Pressure	0.916 Atm	Station Temperature	25.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
NO Cal Gas Conc	49.6 ppm	Cal Gas Expiry Date	July 2, 2007
NO _x Cal Gas Conc	49.6 ppm	Cal Gas Serial #	CC114395

DACS Information

DACS make	Focus AP1000	DACS serial No.	52662
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Parameter		NO ₂	NO _x	NO
Before	Data Slope	1.009742	0.999867	1.006432
	Data Offset	1.831090	-2.816954	-3.744356
After	Data Slope	0.996011	1.001539	1.008049
	Data Offset	1.571318	-2.716151	-3.107281
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model	TEI 42i	Analyzer serial #	701120011
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Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO offset	4.7	mV	4.6	mV
NO _x bkgnd	5.5	mV	5.2	mV
NO coefficient	0.908		0.835	
NO _x coefficient	1.000		0.999	
NO ₂ conv temp	323.4	Deg C	325.8	Deg C
PMT Temp	-3.1	Deg C	-3.1	Deg C
PMT Volt	-829.9	mV	-829.5	mV
R Cell Press	167.5	in Hg	152.1	in Hg

Calibration Report

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



Station Information

Calibration Date: September 30, 2009 Station Location: Rover Kinuso

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NOx Correction factor	NO Correction factor
zero	4990	0.00	0.0	0.0	0.0	0.2	0.5	-0.7	N/A	N/A
1	4990	39.85	393.0	393.0	0.0	393.6	391.5	-0.7	0.9985	1.0037
2	4990	19.87	196.7	196.7	0.0	201.0	199.7	-0.4	0.9789	0.9852
3	4990	9.91	98.3	98.3	0.0	103.1	103.2	-0.8	0.9540	0.9530
AFZ	4990	0.00	0.0	0.0	0.0	0.1	0.5	-0.9	0.0000	0.0000
AFS	4990	39.84	392.9	392.9	0.0	374.6	371.6	0.2	1.0489	1.0571
Average Correction Factor									0.9771	0.9807

As Found Concentrations: NO_x= 371.6 NO= 367.4 As Found Percent Change NO_x= -5.4% NO= -6.5%

GPT Calibration Data

Dilution Flow 4988 ccm Source Gas Flow 39.84 ccm

O ₃ Setpoint (ppb)	Indicated NO high point (ppb)	Indicated NO drop conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NOx Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	0.5	0.5	0.0	0.2	0.5	-0.7	N/A	N/A	N/A	N/A
NO point	392.6	392.6	0.0	394.7	392.6	-0.6	0.9947	1.0000	N/A	N/A
300	392.6	169.2	223.3	394.8	169.2	223.6	0.9942	1.0000	0.9990	100.1%
200	392.6	242.1	150.5	393.2	242.1	148.6	0.9983	1.0000	1.0123	98.8%
100	392.6	308.6	84.0	392.8	308.6	81.8	0.9994	1.0000	1.0266	97.4%
Average Correction Factor							0.9973	1.0000	1.0126	98.8%

AIC Data

	Previous calibration				Current calibration			
Parameter	NOx	NO ₂	NO		NOx	NO ₂	NO	
Auto zero	0.1	-1.0	0.6	ppb	0.3	-0.8	0.6	ppb
Auto span	305.0	300.2	3.0	ppb	303.3	297.5	3.7	ppb

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter NO₂

Air Monitoring Network PASZA



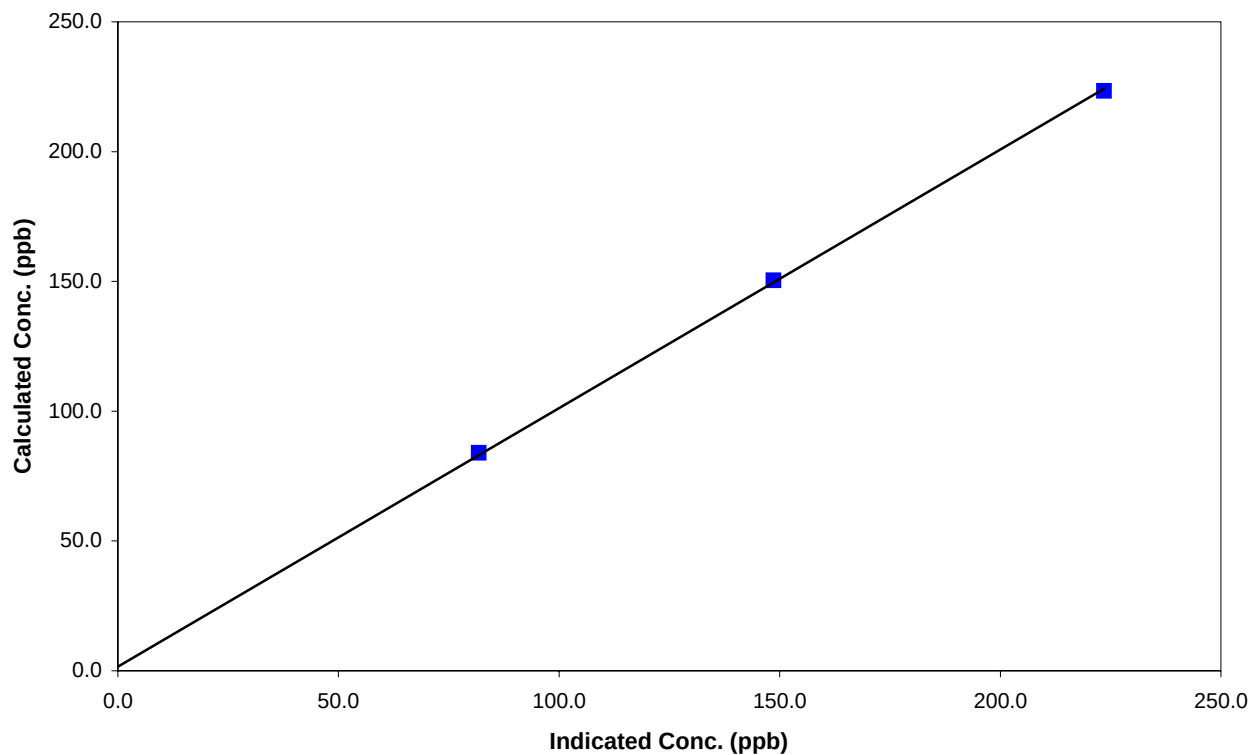
Station Information

Calibration Date	September 30, 2009	Previous Calibration	August 28, 2009
Station Number	9	Station Location	Rover Kinuso
Start Time (MST)	8:30	End Time (MST)	19:00:00 PM
Analyzer make	TEI 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.7	N/A	Correlation Coefficient	0.999883
223.3	223.6	0.9990		
150.5	148.6	1.0123		
84.0	81.8	1.0266	Slope	0.996011
			Intercept	1.571318

NO₂ Calibration Curve



Calibration Summary

Parameter NO_x

Air Monitoring Network PASZA



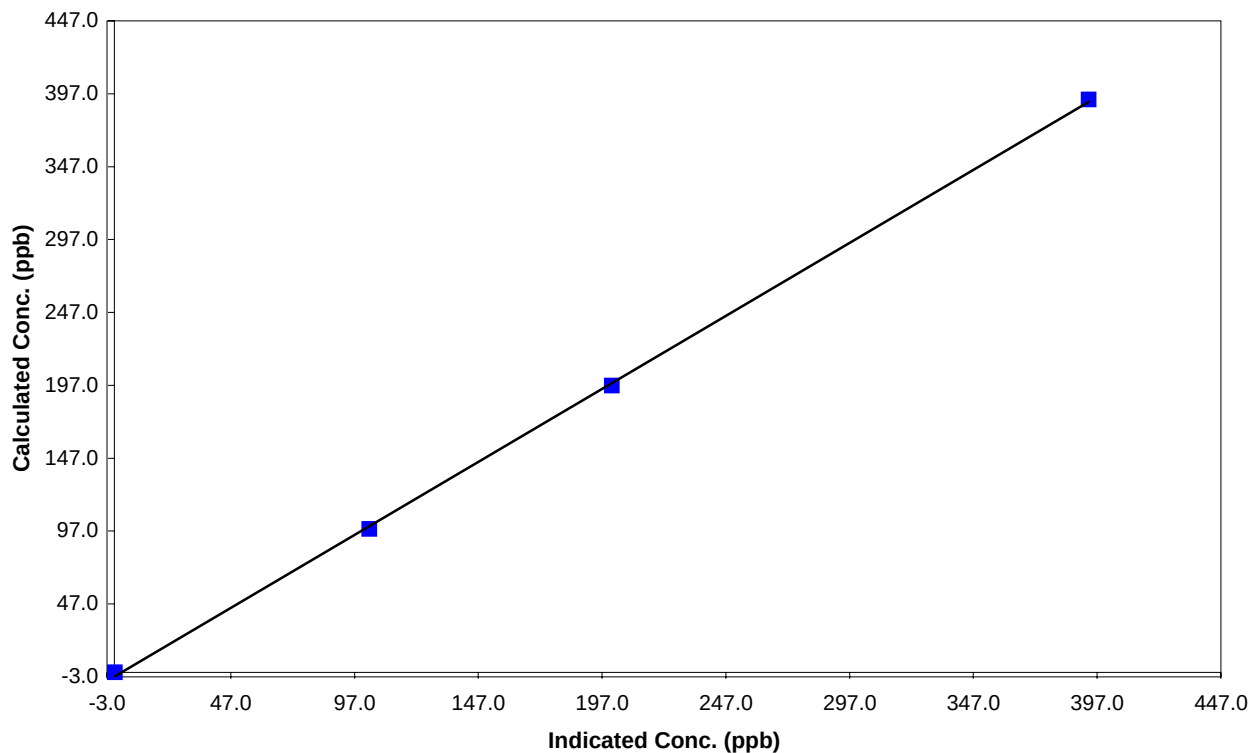
Station Information

Calibration Date	September 30, 2009	Previous Calibration	August 28, 2009
Station Number	9	Station Location	Rover Kinuso
Start Time (MST)	8:30	End Time (MST)	19:00:00 PM
Analyzer make	TEI 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A	Correlation Coefficient	0.999801
393.0	393.6	0.9985		
196.7	201.0	0.9789		
98.3	103.1	0.9540	Slope	1.001539
			Intercept	-2.716151

NO_x Calibration Curve



Calibration Summary

Parameter NO

Air Monitoring Network PASZA



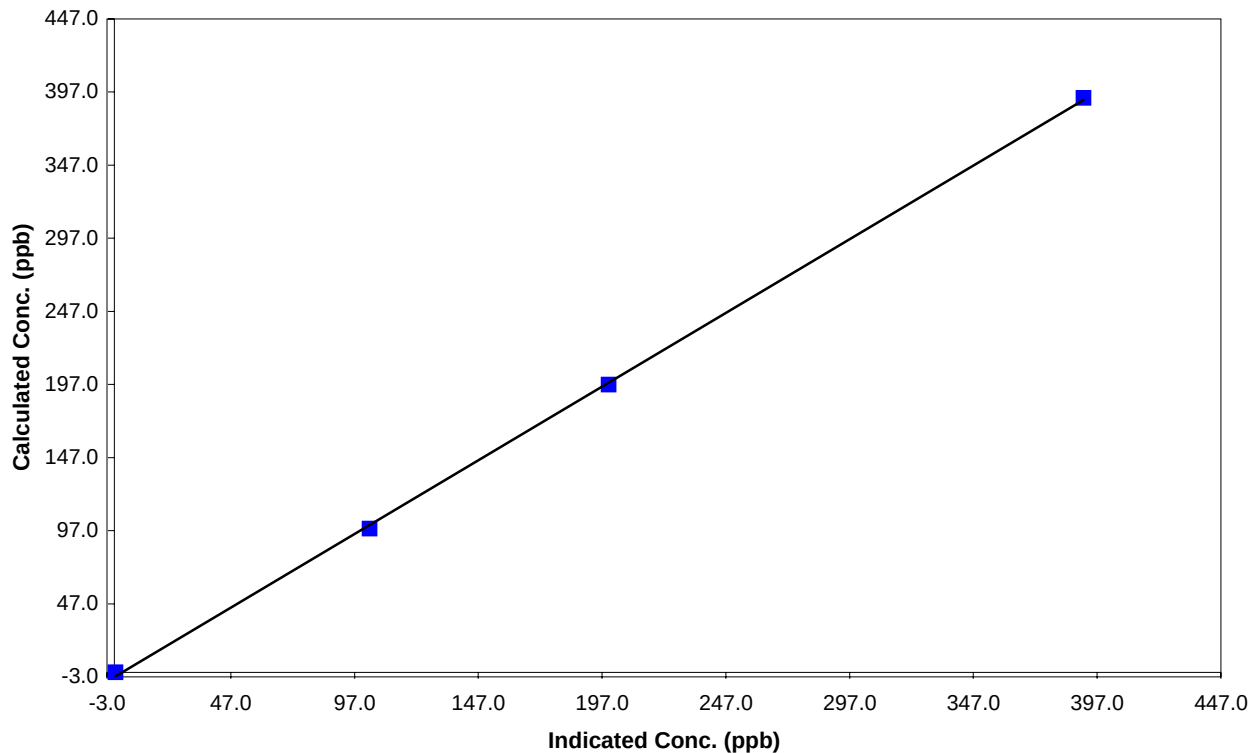
Station Information

Calibration Date	September 30, 2009	Previous Calibration	August 28, 2009
Station Number	9	Station Location	Rover Kinuso
Start Time (MST)	8:30	End Time (MST)	19:00:00 PM
Analyzer make	TEI 42i	Analyzer serial #	701120011

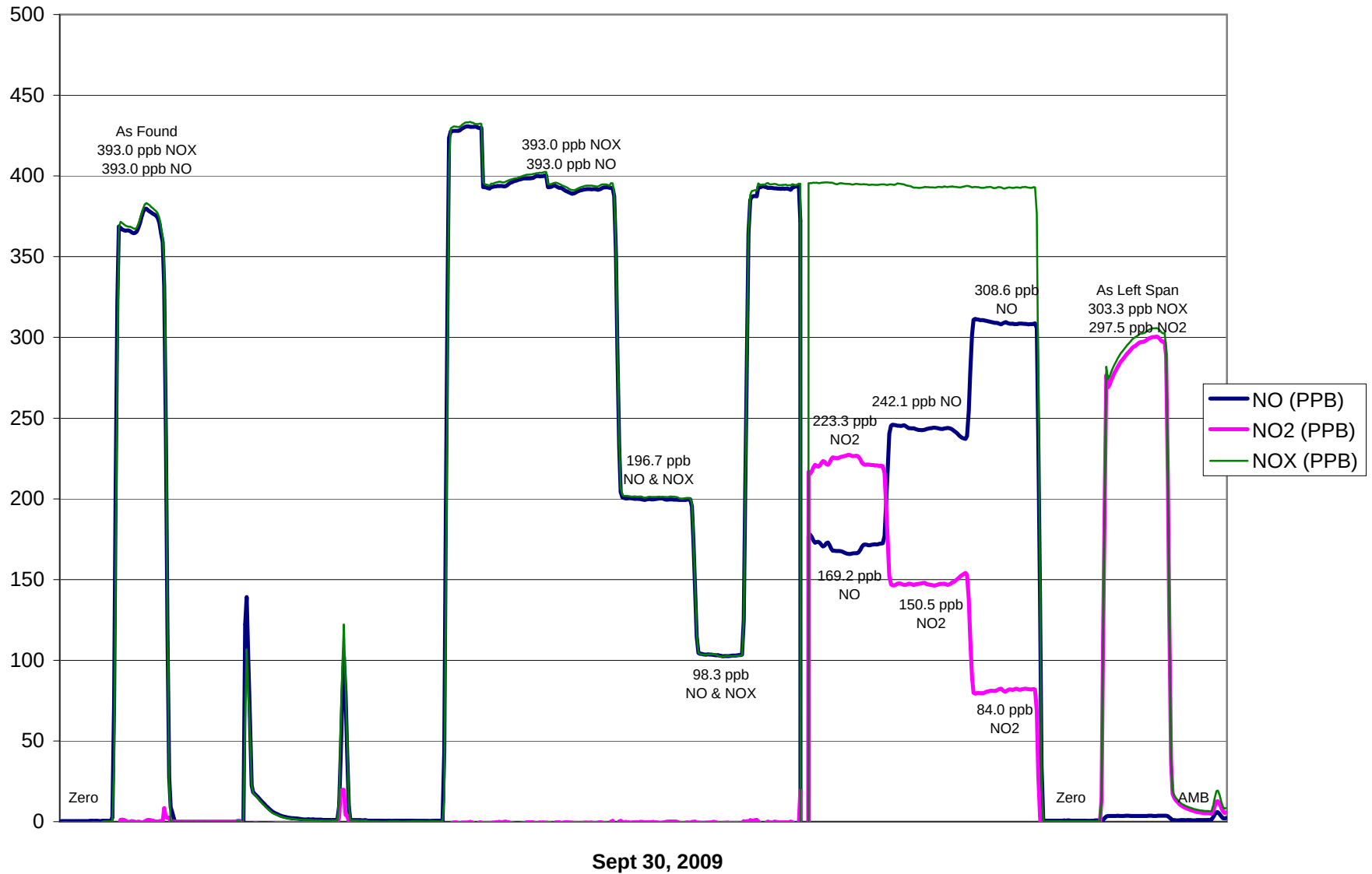
Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	N/A	Correlation Coefficient	0.999793
393.0	391.5	1.0037		
196.7	199.7	0.9852		
98.3	103.2	0.9530	Slope	1.008049
			Intercept	-3.107281

NO Calibration Curve



Kinuso NO_x Calibration



Calibration Report



Parameter 03

Air Monitoring Network PASZA

Station Information

Calibration Date	September 30, 2009	Previous Calibration	August 28, 2009
Station Number	9	Station Location	Rover - Kinuso
Reason:	☒ Routine	☐ Install	☐ Removal
			Other:

Start Time (MST)	13:42:00 PM	End Time (MST)	17:09
Barometric Pressure	0.935 atm	Station Temperature	21.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474

DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0-5	DACS channel #	7
	Before		After

Calculated slope	1.014157	Calculated slope	0.966534
Calculated intercept	1.681280	Calculated intercept	5.245033

Analyzer make	TEI Model 49C	Analyzer serial #	609-716240
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	before		after	
Concentration range	0-500	ppb	0-500	ppb
Offset	-2.5	ppb	-2.5	ppb
Span	1.425		1.425	
Cell A	95244	Hz	95244	Hz
Cell B	107378	Hz	107378	Hz
Pressure	694	in Hg	694	in Hg
CellA Flow	719	ccm	719	ccm
Cell B Flow	712	cmm	712	cmm

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.00	0.0	0.0	N/A
4990	0.00	223.3	228.8	0.9760
4990	0.00	150.5	149.7	1.0054
4990	0.00	84.0	73.7	1.1390
4990	0.00	0.0	0.3	As found zero
4990	0.00	223.3	217.7	As found span
Average Correction Factor				1.0401

Calculated value of As Found Response: 222.1 ppm Percent Change of As Found: -0.5%

	before calibration		after calibration	
Auto zero	1.2	ppb	5.3	ppb
Auto span	275.5	ppb	299.7	ppb

Notes:

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter O3

Air Monitoring Network PASZA



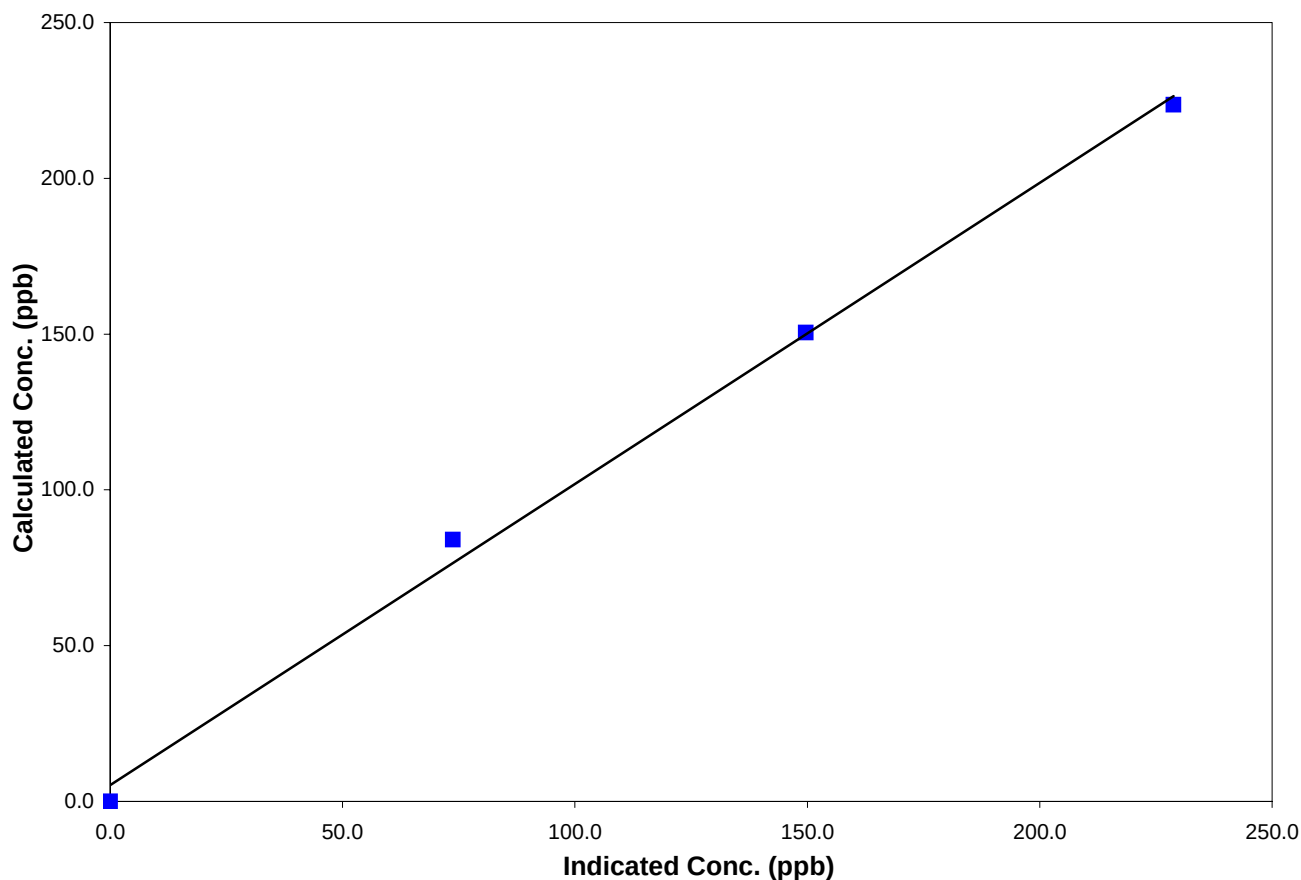
Station Information

Calibration Date	September 30, 2009	Previous Calibration	August 28, 2009
Station Number	9	Station Location	Rover - Kinuso
Start Time (MST)	13:42:00 PM	End Time (MST)	17:09
Analyzer make/model	TEI Model 49C	Analyzer serial #	609-716240

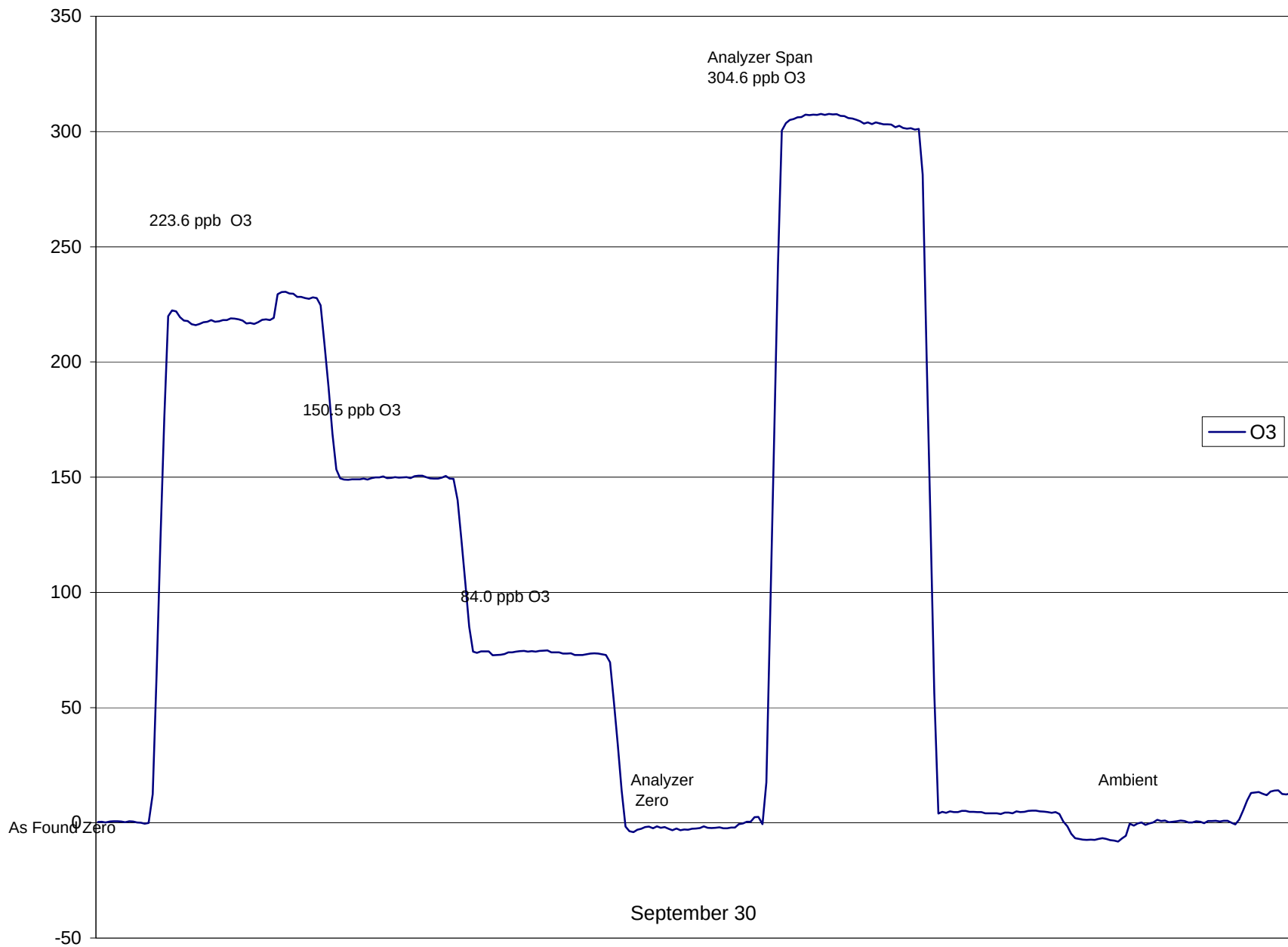
Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	NA	Correlation Coefficient	0.996632
223.6	228.8	0.9773		
150.5	149.7	1.0054		
84.0	73.7	1.1390	Slope	0.966534
			Intercept	5.245033

O3 Calibration Curve



Kinuso O₃ Calibration



Calibration Report

Parameter SO2

Air Monitoring Network PASZA



Station Information

Calibration Date	September 28, 2009	Previous Calibration	August 24, 2009
Station Number	6	Station Location	Valleyview
Reason:	☒ Routine	☐ Install	☐ Removal
		☐ Other:	
Start Time (MST)	11:15	End Time (MST)	14:09
Barometric Pressure	29.90 inches Hg	Station Temperature	25.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.6 ppm	Cal Gas Cert Date	12/3/2009
Gas Cert Reference	AAL 56996		
DACS make	Focus AP1000	DACS serial No.	45274
DACS voltage range	0 - 10 volt	DACS channel #	4
	<u>Before</u>		<u>After</u>
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	1.000891	Calculated slope	0.996394
Calculated intercept	-1.520747	Calculated intercept	-1.207253
Analyzer make	TEI 45C	Analyzer serial #	43C-57531-313

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	28.3		28.2	
Coefficient	0.72		0.72	
UV Lamp Voltage	699	LPM	695	LPM
Chamber Temp	44.1	V	44.2	V
Perm Gas Temp	35.1	C	35.1	C
Pressure	617.3	in Hg	618.4	in Hg
Sample Flow	0.468	LPM	0.47	LPM
Lamp Intesity	45725	Hz	45527	Hz

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.00	0.0	0.2	N/A
4990	39.85	400.9	403.2	0.9943
4990	19.92	201.2	203.2	0.9903
4990	9.90	100.2	103.2	0.9712
4990	0.00	0.0	-0.2	As found zero
4990	39.88	401.2	403.2	As found span
Average Correction Factor				0.9853

Calculated value of As Found Response: 402.223 ppm Percent Change of As Found: -0.3%

	before calibration		after calibration	
Auto zero	0.0	ppm	0.0	ppm
Auto span	167.3	ppm	168.6	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter SO2

Air Monitoring Network PASZA



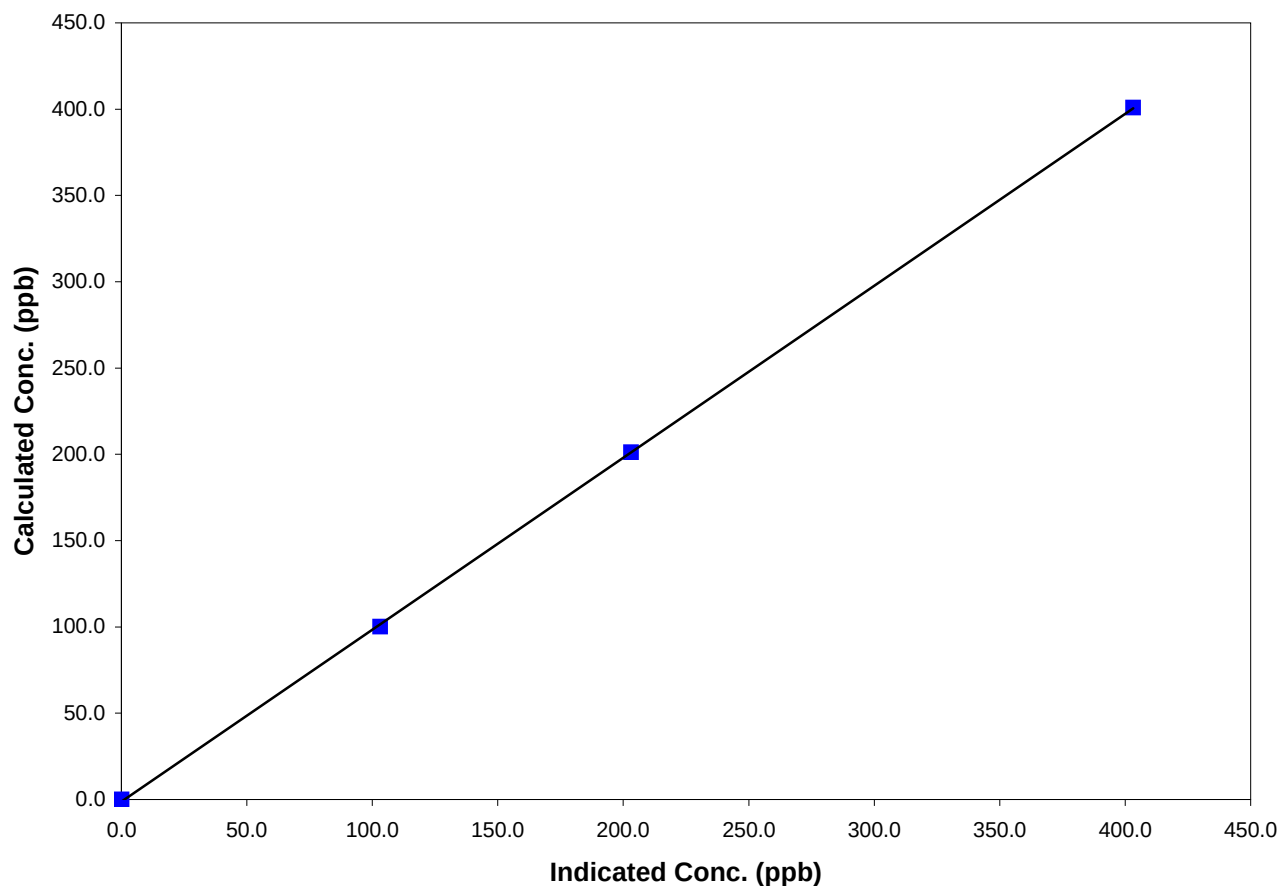
Station Information

Calibration Date	September 28, 2009	Previous Calibration	August 24, 2009
Station Number	6	Station Location	Valleyview
Start Time (MST)	11:15	End Time (MST)	14:09
Analyzer make/model	TEI 45C	Analyzer serial #	43C-57531-313

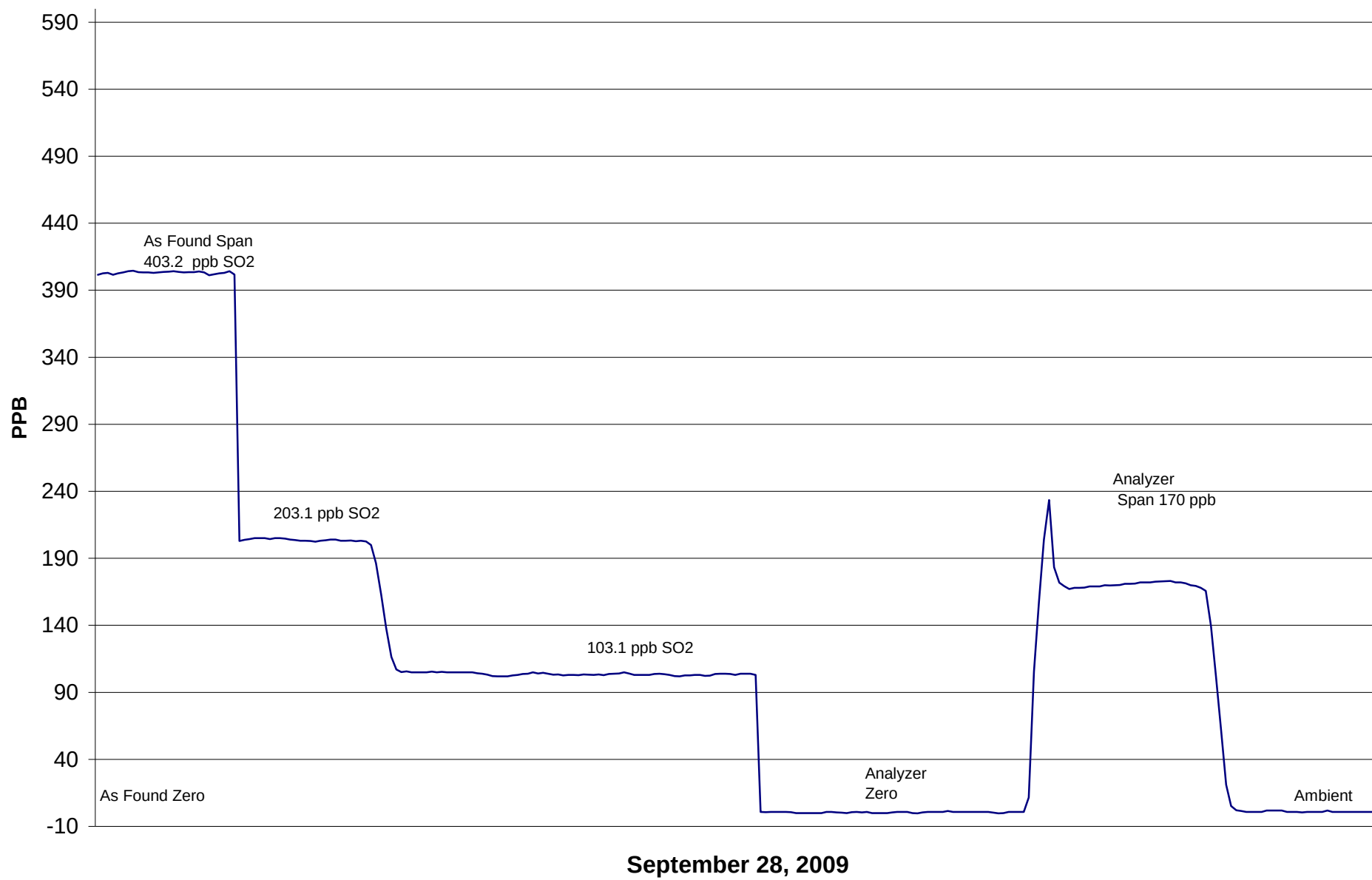
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A	Correlation Coefficient	0.999964
400.9	403.2	0.9943		
201.2	203.2	0.9903		
100.2	103.2	0.9712	Slope	0.996394
			Intercept	-1.207253

SO2 Calibration Curve



PASZA Valleyview SO₂ Calibration



Calibration Report

Parameter H2S
Air Monitoring Network

PASZA



Station Information

Calibration Date	September 28, 2009	Previous Calibration	August 24, 2009
Station Number	5	Station Location	Valleyview
Reason:	☒ Routine	☐ Install	☐ Removal
			☐ Other:
Start Time (MST)	12:01	End Time (MST)	15:33
Barometric Pressure	27.16 inches Hg	Station Temperature	23.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	5.1 ppm	Cal Gas Expiry Date	4/4/2009
Gas Cert Reference	ALM013295		
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 10 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
DACS Scale High	100	DACS slope	100
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.996731	Calculated slope	0.997713
Calculated intercept	-0.118350	Calculated intercept	-0.119052
Analyzer make	TEI Model 43A	Analyzer serial #	43A-25575-221

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Back Ground	5.0	ppb	5.0	ppb
Coefficient	1.091		1.091	
Lamp Voltage	790	v	791	v
Chamber Temp	45.1	c	45	c
Perm Oven Temp	45.01	c	45	c
Pressure	630	mm Hg	638	mm Hg
Sample Flow	422	ccm	425	ccm
Lamp Intensity	92.0	%	92.0	%

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4988	0.00	0.0	0.2	N/A
4989	79.75	80.2	80.7	0.9944
4989	39.88	40.4	40.3	1.0023
4989	9.93	10.1	10.3	0.9799
4989	0.00	0.0	0.0	As found zero
4989	79.81	80.3	80.0	As found span
Average Correction Factor				0.9922

Calculated value of As Found Response: 79.62 ppm Percent Change of As Found: 0.8%

	before calibration		after calibration	
Auto zero	0.1	ppm	0.0	ppm
Auto span	67.4	ppm	63.5	ppm

Notes:

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter H2S

Air Monitoring Network PASZA



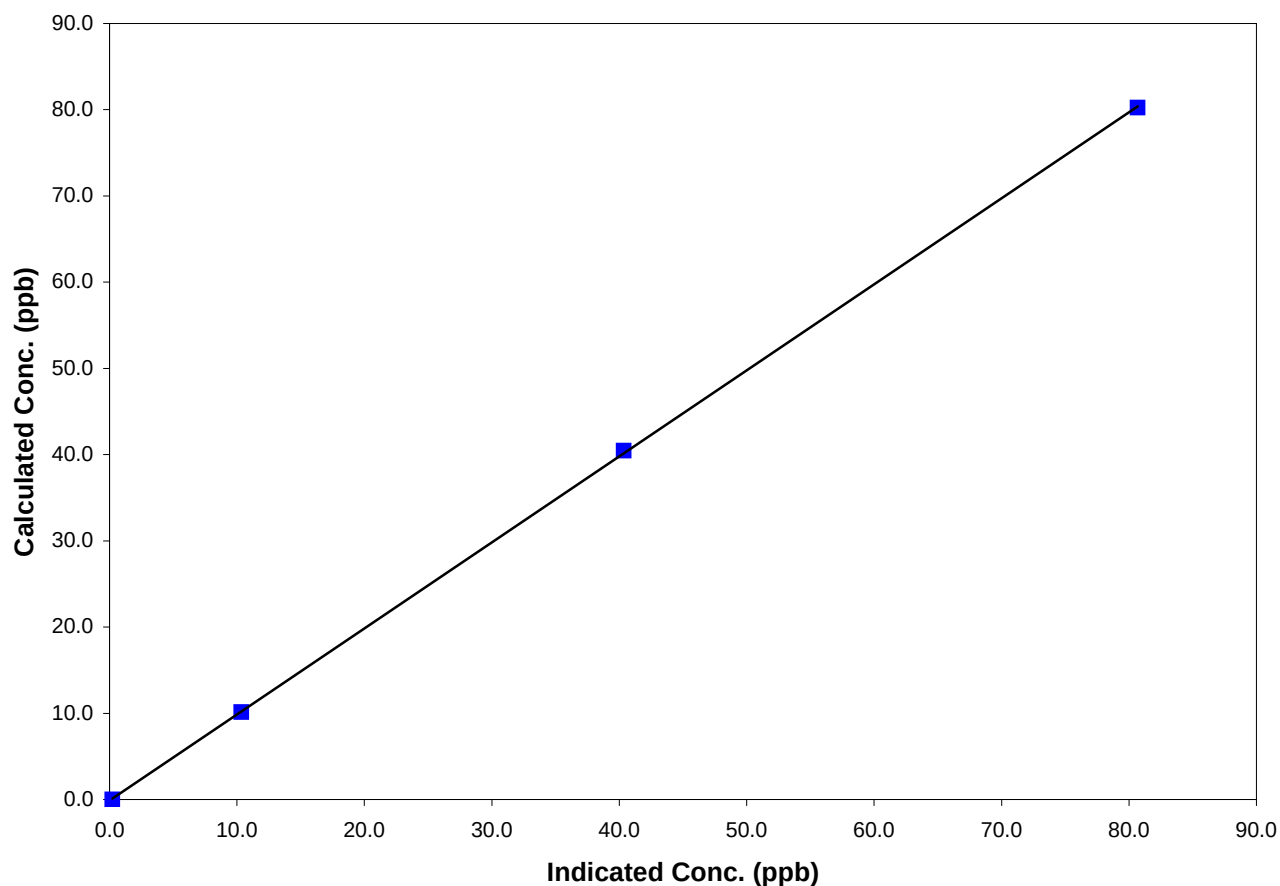
Station Information

Calibration Date	September 28, 2009	Previous Calibration	August 24, 2009
Station Number	5	Station Location	Valleyview
Start Time (MST)	12:01	End Time (MST)	15:33
Analyzer make/model	TEI Model 43A	Analyzer serial #	43A-25575-221

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A	Correlation Coefficient	0.999967
80.2	80.7	0.9944		
40.4	40.3	1.0023		
10.1	10.3	0.9799	Slope	0.997713
			Intercept	-0.119052

H2S Calibration Curve



Valleyview H₂S Calibration

