



Peace AirShed Zone Association

Ambient Air Monitoring Network Summary

**Continuous Ambient Air Quality Monitoring Program
Monthly Report
March 2009**

Operations and Reporting
FOCUS
AIR QUALITY MONITORING



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April 28th, 2009

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

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

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

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

During the month of March 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.
- ◆ The SO₂, NO_x, O₃, CO, TRS, THC, solar radiation, wind speed and wind direction analyzers and sensors at the Henry Pirker station had an operational uptime greater than 90% for the month of March.
- ◆ The temperature and relative humidity sensors have been out of service since November 6th - **Alberta Environment reference #209512.**

Evergreen Park Station:

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

Smoky Heights Station:

- ◆ The measured ambient air quality was within the AAAQO for the Smoky Heights station for SO₂, however, on March 1st and 2nd the PM_{2.5} exceeded the 1-hour guideline with a reading of 87.4 µg/m³ and 96.3 µg/m³, respectively - **Alberta Environment reference #211117.**
- ◆ All analyzers / sensors at the Smoky Heights station had an operational uptime greater than 90% for the month of March.

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 March.
- ◆ Calibrations for the month of March were completed in April.

Portable – Spirit River Station:

- ◆ Removal calibrations were performed on March 30th. Station was decommissioned from Spirit River and moved to a new location (Kinuso) in April.
- ◆ The measured ambient air quality was within the AAAQO for the Spirit River station.
- ◆ The SO₂, NO_x, TRS, external temperature and relative humidity parameters at the Spirit River station had an operational uptime greater than 90% for the month of March. The O₃ analyzer began to fail on March 13th, a total of one hundred and eighty-three (183) hours were flagged invalid, a new cell flow sensor was ordered and installed March 20th – **Alberta Environment reference # 212820**. On March 15th the translator & power supply to the wind speed and wind direction was hit with a power bump, a total of one hundred and thirty-one (131) hours were flagged invalid – **Alberta Environment reference # 212820**.
- ◆ On March 26th the DACS stopped collecting data, and for reasons unknown began to overwrite the previous data – a total of fifty-five (55) hours of data was flagged invalid for all parameters.

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 greater than 90% for the month of March.

Passive Monitoring - 43 Stations throughout the PASZA zone:

There were seven duplicate sites sampled in the month of March: Boone Creek, Spirit River, Woking, Webber Creek, Eaglesham, Jean Cote and Grande Prairie HP. The passive sample analyses were performed by MAXXAM Analytics Inc.

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

- Monthly average concentrations for SO₂ passives ranged from 0.3 ppb to 0.7 ppb, with a mean of 0.5 ppb.
- Monthly average concentrations for NO₂ passives ranged from 0.6 ppb to 8.2 ppb, with a mean of 1.8 ppb.
- Monthly average concentrations for O₃ passives ranged from 34.6 ppb to 54.7 ppb, with a mean of 43.3 ppb.

If you have any questions, please contact the Focus Intec office at 1.403.255.9440 (Kelly Baragar or Sharon Whiteley).

On Behalf of the,
Peace Airshed Zone Association



Michael Bisaga
PASZA Program Manager



Sharon Whiteley, B.Sc..
AQM Data Specialist

PASZA Monthly Continuous Data Summary

Mar-2009 Peace Airshed Zone Association							Maximum Recorded Values				Operational Time (%)	
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		Conc	1-hr		24-hr / 8-hr		
	1-hr	24-hr			1-hr	24-hr		Day	Conc	Day		
SO ₂ (ppb)	172	57	Henry Pirker	0.7	0	0	6.2	Mar-02 14:00	3.0	Mar-02	100.0%	
SO ₂ (ppb)	172	57	Evergreen Park	0.4	0	0	4.2	Mar-02 17:00	1.7	Mar-02	100.0%	
SO ₂ (ppb)	172	57	Smoky Heights	1.0	0	0	24.5	Mar-11 17:00	3.7	Mar-02	100.0%	
SO ₂ (ppb)	172	57	Beaverlodge	0.6	0	0	5.4	Mar-02 15:00	3.1	Mar-02	100.0%	
SO ₂ (ppb)	172	57	Portable-Spirit River	0.8	0	0	24.0	Mar-12 09:00	5.7	Mar-12	92.3%	
SO ₂ (ppb)	172	57	Valleyview	0.6	0	0	9.1	Mar-13 15:00	3.6	Mar-02	99.7%	
NO (ppb)			Henry Pirker	7.4	-	-	139.9	Mar-04 11:00	32.9	Mar-11	100.0%	
NO ₂ (ppb)	212	106	Henry Pirker	14.5	0	0	53.4	Mar-05 22:00	30.1	Mar-06	100.0%	
NO _x (ppb)			Henry Pirker	21.9	-	-	189.1	Mar-11 11:00	59.5	Mar-11	100.0%	
NO (ppb)			Beaverlodge	0.8	-	-	24.2	Mar-01 10:00	4.2	Mar-02	100.0%	
NO ₂ (ppb)	212	106	Beaverlodge	5.6	0	0	28.7	Mar-10 20:00	15.4	Mar-02	100.0%	
NO _x (ppb)			Beaverlodge	6.4	-	-	47.6	Mar-01 10:00	19.4	Mar-02	100.0%	
NO (ppb)			Portable-Spirit River	0.7	-	-	24.4	Mar-16 08:00	2.5	Mar-11	92.3%	
NO ₂ (ppb)	212	106	Portable-Spirit River	3.0	0	0	26.4	Mar-16 08:00	7.3	Mar-11	92.3%	
NO _x (ppb)			Portable-Spirit River	3.7	-	-	50.7	Mar-16 08:00	9.8	Mar-11	92.3%	
O ₃ (ppb)	82		Henry Pirker	28.3	0	-	56.1	Mar-26 21:00	44.7	Mar-27	100.0%	
O ₃ (ppb) - 8-hr		65	Henry Pirker			0			51.1	Mar-31		
O ₃ (ppb)	82		Beaverlodge	35.6	0	-	55.4	Mar-26 22:00	44.6	Mar-27	100.0%	
O ₃ (ppb) - 8-hr		65	Beaverlodge			0			50.6	Mar-27		
O ₃ (ppb)	82		Portable-Spirit River	32.7	0	-	48.1	Mar-24 17:00	40.1	Mar-24	65.7%	
O ₃ (ppb) - 8-hr		65	Portable-Spirit River			0			46.4	Mar-24		
CO (ppm)	13		Henry Pirker	0.29	0	-	1.2	Mar-11 08:00	0.4	Mar-11	100.0%	
CO (ppm) - 8-hr		5	Henry Pirker			0			0.7	Mar-11		
THC (ppm)			Henry Pirker	2.25	-	-	3.1	Mar-11 11:00	2.6	Mar-01	100.0%	
TRS (ppb)			Henry Pirker	0.3	-	-	1.0	Mar-04 11:00	0.5	Mar-03	100.0%	
TRS (ppb)			Evergreen Park	0.6	-	-	2.0	Mar-02 10:00	1.1	Mar-02	100.0%	
TRS (ppb)			Smoky Heights	0.4	-	-	0.6	Mar-02 19:00	0.5	Mar-03	100.0%	
TRS (ppb)			Portable-Spirit River	0.6	-	-	1.1	Mar-23 03:00	0.7	Mar-03	91.6%	
H ₂ S (ppb)	10	3	Valleyview	0.1	0	0	1.7	Mar-23 07:00	0.3	Mar-26	99.7%	
PM _{2.5} (µg/m ³)	80	30	Henry Pirker	3.5	0	0	26.4	Mar-04 11:00	8.4	Mar-03	99.6%	
PM _{2.5} (µg/m ³)	80	30	Evergreen Park	3.3	0	0	20.6	Mar-11 11:00	9.3	Mar-03	99.7%	
PM _{2.5} (µg/m ³)	80	30	Smoky Heights	3.9	1	0	95.9	Mar-02 04:00	13.9	Mar-02	99.3%	
PM _{2.5} (µg/m ³)	80	30	Beaverlodge	2.8	0	0	50.3	Mar-01 23:00	9.5	Mar-01	98.9%	

PASZA Monthly Continuous Data Summary - continued

Mar-2009 Peace Airshed Zone Association							Maximum Recorded Values				
							1-hr		24-hr / 8-hr		
RH (%)			Henry Pirker	-	-	-	-	-	-	-	-
RH (%)			Beaverlodge	64.7	-	-	94.1	Mar-19 08:00	86.6	Mar-03	100.0%
RH (%)			Portable-Spirit River	68.4	-	-	95.2	Mar-24 22:00	84.3	Mar-15	91.4%
RH (%)			Valleyview	62.9	-	-	96	Mar-19 22:00	85.6	Mar-15	99.9%
SR (W/m ²)			Henry Pirker	115.8	-	-	583.2	Mar-31 14:00	177.3	Mar-29	100.0%
Temp (°C)			Henry Pirker	-	-	-	-	-	-	-	-
Temp (°C)			Evergreen Park	-7.6	-	-	7.0	Mar-18 17:00	3.9	Mar-13	100.0%
Temp (°C)			Smoky Heights	-8.6	-	-	6.1	Mar-31 13:00	2.2	Mar-13	100.0%
Temp (°C)			Beaverlodge	-7.1	-	-	7.8	Mar-23 16:00	3.9	Mar-13	100.0%
Temp (°C)			Portable-Spirit River	-10.5	-	-	5.9	Mar-13 15:00	3.1	Mar-13	91.4%
Temp (°C)			Valleyview	-7.0	-	-	8.2	Mar-26 18:00	3.4	Mar-13	99.9%
WSPD s (km/hr)			Henry Pirker	9.2	-	-	34.0	Mar-25 03:00	22.2	Mar-27	99.9%
WSPD s (km/hr)			Evergreen Park	6.5	-	-	27.0	Mar-27 11:00	20.9	Mar-27	99.7%
WSPD s (km/hr)			Smoky Heights	13.3	-	-	41.0	Mar-07 09:00	28.0	Mar-27	100.0%
WSPD s (km/hr)			Beaverlodge	8.6	-	-	35.0	Mar-27 16:00	25.9	Mar-27	100.0%
WSPD s (km/hr)			Portable-Spirit River	7.2	-	-	30.0	Mar-04 16:00	13.9	Mar-07	73.6%
WSPD s (km/hr)			Valleyview	1.5	-	-	26.0	Mar-04 18:00	13.6	Mar-07	99.9%
WSPD v (km/hr)			Henry Pirker	7.4	-	-	33.0	Mar-25 03:00	21.8	Mar-27	99.9%
WSPD v (km/hr)			Evergreen Park	3.0	-	-	26.0	Mar-27 11:00	20.6	Mar-27	99.7%
WSPD v (km/hr)			Smoky Heights	4.6	-	-	41.0	Mar-07 09:00	27.7	Mar-27	100.0%
WSPD v (km/hr)			Beaverlodge	3.3	-	-	35.0	Mar-27 16:00	25.5	Mar-27	100.0%
WSPD v (km/hr)			Portable-Spirit River	2.5	-	-	30.0	Mar-04 16:00	0.0	Mar-11	73.6%
WSPD v (km/hr)			Valleyview	7.6	-	-	26.0	Mar-04 18:00	15.8	Mar-07	99.9%
WDIR			Henry Pirker	WNW	-	-	-	-	-	-	99.9%
WDIR			Evergreen Park	NW	-	-	-	-	-	-	99.7%
WDIR			Smoky Heights	WNW	-	-	-	-	-	-	100.0%
WDIR			Beaverlodge	Nw	-	-	-	-	-	-	100.0%
WDIR			Portable-Spirit River	W	-	-	-	-	-	-	99.0%
WDIR			Valleyview	WNW	-	-	-	-	-	-	99.9%

Continuous Network Equipment Summary

PASZA – Henry Pirker Station

General Station Issues

Routine monthly calibrations were performed on March 18th (SO₂, NO_x, O₃ & TRS) and March 24th (CO & THC).

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NO _x /NO/NO ₂	TEI	42C	No operational issues observed.
O ₃	TEI	49C	Spans from March 1 to 18 th were outside the target range – reason under investigation.
CO	TEI	48C	No operational issues observed.
THC	TEI	51-CLT	No operational issues observed.
TRS	TEI	43C	Spans on March 8, 9 & 10 were outside target range.
PM _{2.5}	R&P	1400AB	No operational issues observed.
RH	Met One	083D	The relative humidity sensor has been out of service since November 6 th - Alberta Environment reference #209512 . The gauge was sent back to factory for repair.
ET	Met One	083D	The temperature sensor has been out of service since November 6 th - Alberta Environment reference #209512 . The gauge was sent back to factory for repair.
SR	Met One	096-1	No operational issues observed.
WS	Met One	010C	One (1) hour was flagged invalid – due to intermittent spiking (fog &/or snow).
WD	Met One	020C	One (1) hour was flagged invalid – due to intermittent spiking (fog &/or snow).

PASZA – Evergreen Park Station

General Station Issues

Routine monthly calibrations were performed on March 25th (SO₂ & TRS).

Parameter	Make	Model	Notes
SO ₂	TEI	43i	No operational issues observed.
TRS	TEI	43C	Spans were outside target range – reason under investigation.
PM _{2.5}	R&P	1400AB	One (1) hour was flagged invalid due to instrument error.
ET	Met One/Gill	083D	No operational issues observed.
WS	Met One/ Gill	010C	Two (2) hour was flagged invalid – due to intermittent spiking (fog &/or snow).
WD	Met One/ Gill	020C	Two (2) hour was flagged invalid – due to intermittent spiking (fog &/or snow).

PASZA – Smoky Heights Station

General Station Issues

Routine monthly calibrations were performed on March 27th (TRS & SO₂).

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
TRS	TEI	43C	No operational issues observed.
PM _{2.5}	R&P	1400AB	Five (5) hours were flagged invalid due to baseline drift. On March 1 st and 2 nd the PM _{2.5} exceeded the 1-hour guideline with a reading of 87.4 µg/m ³ and 96.3 µg/m ³ , respectively - Alberta Environment reference #211117.
ET	Met One	083D	No operational issues observed.
WS	Met One	010C	No operational issues observed.
WD	Met One	020C	No operational issues observed.

PASZA – Beaverlodge Station

General Station Issues

Routine monthly calibrations were performed on April 8 (SO₂, O₃ & NO_x).

Parameter	Make	Model	Notes
SO ₂	TEI	43CTL	No operational issues observed.
NO _x /NO/NO ₂	TEI	42C	No operational issues observed.
O ₃	TEI	49C	No operational issues observed.
PM _{2.5}	R&P	1400AB	A total of eight (8) hours were flagged invalid due to baseline drift. No other operational issues observed.
ET	n/a	n/a	No operational issues observed.
RH	n/a	n/a	No operational issues observed.
WS	Blue Sky	857	No operational issues observed.
WD	Blue Sky	857	No operational issues observed.

PASZA – Spirit River (Portable) Station

General Station Issues

Removal calibrations were performed on March 30th (SO₂, O₃, TRS & NO_x). Station was decommissioned on March 30th and preparation was made to move station to a new location for April start-up in Kinuso. On March 26th the DACS stopped collecting data, and for reasons unknown began to overwrite the previous data – a total of fifty-five (55) hours of data was flagged invalid for all parameters.

Parameter	Make	Model	Notes
SO ₂	TEI	43C	No operational issues observed.
NO _x /NO/NO ₂	TEI	42i	No operational issues observed.
TRS	TEI	43C	No operational issues observed.
O ₃	TEI	49C	The O ₃ analyzer began to fail on March 13 th , a total of one hundred and eighty-three (183) hours were flagged invalid, a new cell flow sensor was ordered and installed March 20 th – Alberta Environment reference # 212820 .
ET	Gill	Met Pak 3	No operational issues observed.
RH	Gill	Met Pak 3	No operational issues observed.
WS	Met One		On March 15 th the translator & power supply to the wind speed and wind direction was hit with a power bump, a total of one hundred and thirty-one (131) hours were flagged invalid – Alberta Environment reference # 212820 .
WD	Met One		On March 15 th the translator & power supply to the wind speed and wind direction was hit with a power bump, a total of one hundred and thirty-one (131) hours were flagged invalid – Alberta Environment reference # 212820 .

PASZA – Valleyview Station

General Station Issues

Routine monthly calibrations were performed on March 19th (SO₂ & H₂S). A power failure on March 25th resulted in two (2) hours of invalid data for the SO₂ and H₂S analyzers and one (1) hour for all other sensors.

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**

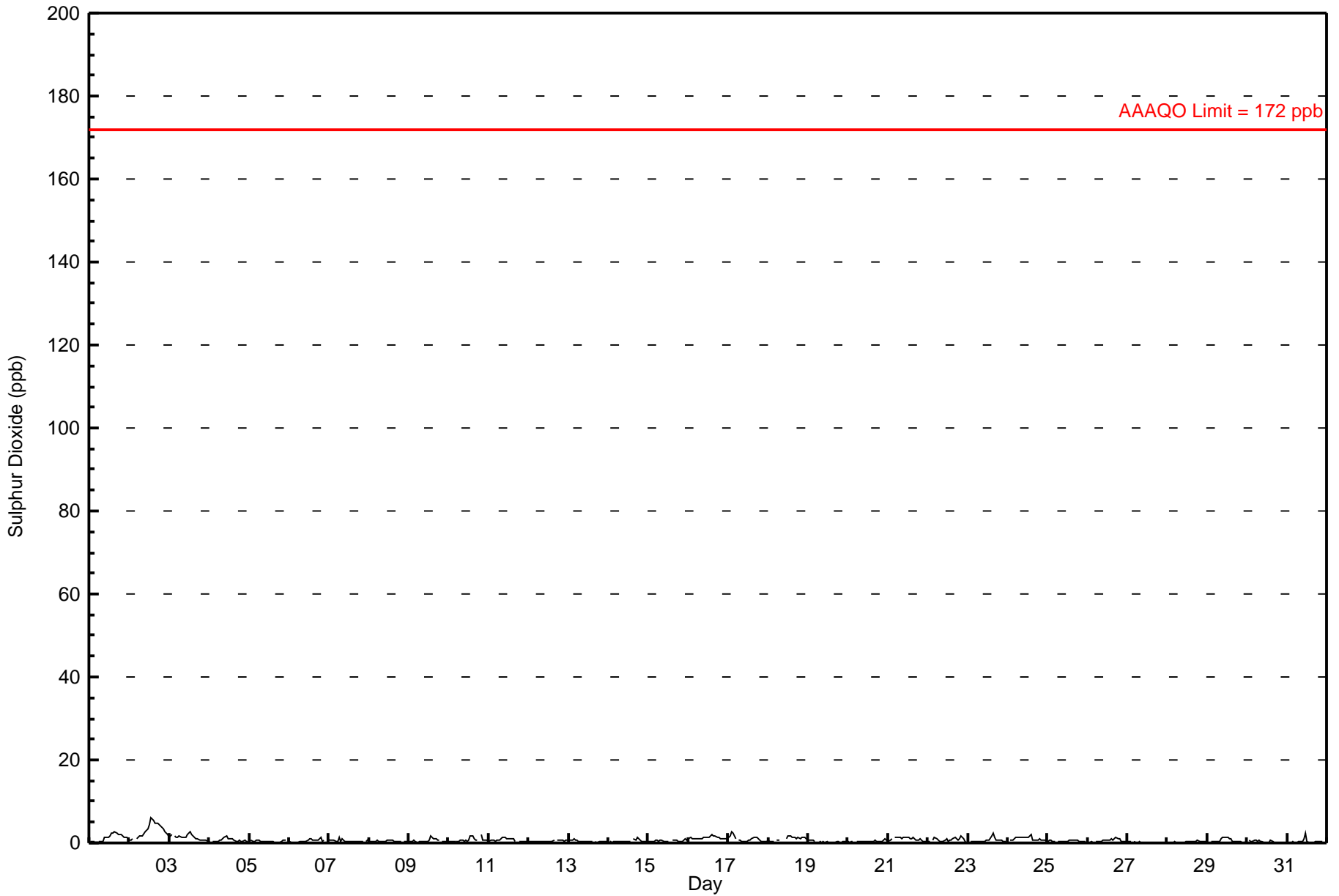
**Henry Pirker - Sulphur Dioxide (SO₂) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 6.2 ppb on Mar 2 14:00	Maximum Daily Average: 3.0 ppb on Mar 2
Minimum Value: 0 ppb on Mar 30 21:00	Hours of Data: 709
Maximum Diurnal Average: 1.0 ppb at hour 15	Hours of Missing Data: 35
Monthly Average: 0.71 ppb	Hours of Calibration: 35
Minimum Daily Average: 0.1 ppb on Mar 27	Percent Operational Time: 100.0
Minimum Diurnal Average: 0.5 ppb at hour 1	
Percentiles: P ₁ = 0.0 P ₁₀ = 0.2 Q ₁ = 0.3 Median = 0.5 Q ₃ = 0.9 P ₉₀ = 1.4 P ₉₉ = 4.2	

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-Mar	0	0	0	0	A	0	0	0	0	1	1	1	2	2	2	3	2	2	2	2	2	1	1	1	1.3	2.7
2-Mar	1	1	1	A	1	1	2	2	2	3	3	4	4	6	5	5	5	5	4	4	3	3	2	2	3.0	6.2
3-Mar	1	2	A	2	1	1	2	2	1	1	1	2	3	2	2	1	1	1	1	1	1	1	1	0	1.3	2.7
4-Mar	0	A	0	0	0	0	1	1	1	1	2	1	1	1	1	1	0	0	1	0	0	1	0	0	0.7	1.6
5-Mar	A	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	A	0.4	0.8
6-Mar	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	A	1	0.5	1.3
7-Mar	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	A	0	1	0.5	1.2
8-Mar	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	A	0	0	0	0.4	0.8
9-Mar	0	0	0	1	0	0	0	0	0	1	0	0	1	2	1	1	1	1	1	A	0	0	0	0	0.6	1.7
10-Mar	0	0	0	0	0	0	0	1	1	0	1	0	1	2	2	1	1	1	A	2	1	1	1	1	0.7	2.1
11-Mar	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	A	0	0	0	0	0	0	0	0.7	1.4
12-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	1	1	1	1	0	1	1	0.5	0.8
13-Mar	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.4	0.8
14-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	1	1	1	1	0	0	0	0.5	1.2
15-Mar	0	0	0	0	1	1	1	1	1	0	0	0	A	1	1	1	1	1	0	0	0	1	1	1	0.5	0.9
16-Mar	1	1	1	1	1	1	1	1	1	1	2	1	1	2	2	2	2	1	1	1	1	1	1	1	1.2	1.9
17-Mar	1	2	3	2	1	A	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	1	0.9	2.8
18-Mar	1	0	0	0	A	1	1	1	C	C	C	1	2	2	1	1	1	1	1	1	1	1	1	1	1.0	1.6
19-Mar	1	1	1	1	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.8
20-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0.4	1.2
21-Mar	1	1	1	A	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1.0	1.5
22-Mar	1	0	A	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	1	1	2	1	0	0.7	1.6
23-Mar	0	A	0	0	0	0	0	0	0	0	0	1	1	1	2	2	1	1	1	1	1	0	0	0	0.7	2.2
24-Mar	A	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	0	1.1	2.0
25-Mar	0	1	1	0	0	A	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0.4	0.8
26-Mar	0	0	0	0	A	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0.5	1.3
27-Mar	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
28-Mar	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.2	0.5
29-Mar	0	A	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.6	1.5
30-Mar	A	1	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	A	0.3	0.6
31-Mar	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	A	0	0.3	2.4
	0.5	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.9	0.9	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7	0.6	0.6	0.6		Diurnal Average
	1.5	2.1	2.8	2.3	1.4	1.5	1.7	1.6	1.8	2.5	3.0	3.5	4.3	6.2	5.3	4.9	4.9	4.9	4.5	4.1	3.2	2.8	2.4	1.9		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 March 2009



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

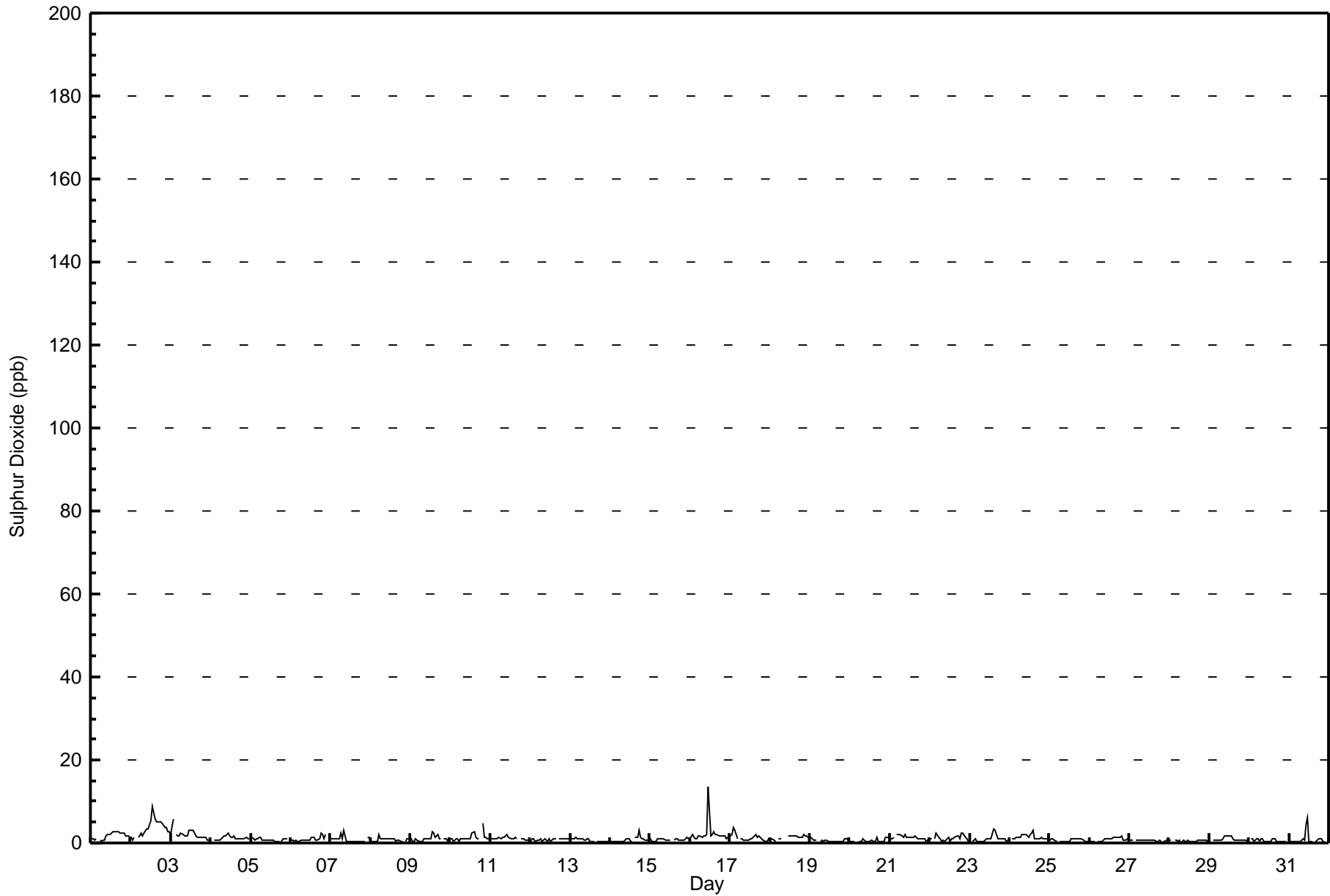
**Henry Pirker - Sulphur Dioxide (SO₂) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 13.5 ppb on Mar 16 12:00	Maximum Daily Average: 3.6 ppb on Mar 2	Hours in Service: 744
Minimum Value: 0 ppb on Mar 31 16:00	Minimum Daily Average: 0.5 ppb on Mar 28	Hours of Data: 709
Maximum Diurnal Average: 1.7 ppb at hour 12	Minimum Diurnal Average: 0.9 ppb at hour 3	Hours of Missing Data: 35
Monthly Average: 1.11 ppb	Percentiles: P ₁ = 0.2 P ₁₀ = 0.5 Q ₁ = 0.5 Median = 0.9 Q ₃ = 1.4 P ₉₀ = 2.0 P ₉₉ = 5.2	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-Mar	1	1	1	1	A	1	0	1	1	2	2	2	2	3	3	3	3	2	2	2	2	2	2	1	1.7	2.9	
2-Mar	1	1	1	A	1	2	2	2	2	3	3	4	5	9	6	5	5	5	5	5	4	4	3	3	3.6	8.8	
3-Mar	2	6	A	2	2	2	2	2	2	2	3	3	3	3	2	2	1	1	1	1	1	1	1	1	2.0	5.7	
4-Mar	1	A	1	1	1	1	1	1	2	2	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1.2	2.3	
5-Mar	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	A	0.8	1.4	
6-Mar	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	2	A	1	0.9	2.4	
7-Mar	1	1	1	1	1	1	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	0.9	3.0	
8-Mar	0	0	0	0	0	2	1	1	1	1	1	1	1	1	1	0	1	1	0	0	A	0	1	1	0.8	1.9	
9-Mar	1	0	0	1	1	0	0	0	1	1	1	1	1	3	2	1	2	1	1	A	1	1	0	1	1.0	2.7	
10-Mar	1	1	0	1	1	0	1	1	1	1	1	1	1	2	3	1	1	1	A	5	1	1	1	1	1.2	4.7	
11-Mar	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	A	1	1	1	1	1	1	1	1.0	1.9	
12-Mar	0	1	1	0	1	1	1	0	1	1	0	1	0	1	1	1	A	1	1	1	1	1	1	1	0.8	1.1	
13-Mar	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	A	0	0	0	0	0	0	0	0	0.7	1.4	
14-Mar	0	0	0	0	0	0	0	0	0	1	1	1	0	0	A	1	1	3	1	1	1	1	1	0	0.8	2.9	
15-Mar	1	0	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3	
16-Mar	1	2	1	1	1	2	2	1	2	2	2	13	2	2	3	2	2	2	2	2	2	2	2	2	2.1	13.5	
17-Mar	2	2	4	3	1	A	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	0	0	1	1.3	3.6
18-Mar	1	1	1	0	A	1	1	1	C	C	C	2	2	2	2	2	2	2	2	1	1	2	2	2	1	1.4	1.9
19-Mar	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	1	1	0	0.6	1.2	
20-Mar	0	1	0	0	A	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0.7	1.5
21-Mar	1	1	1	A	2	2	2	2	1	2	1	1	1	1	1	2	1	1	1	1	1	1	0	1	1.4	2.0	
22-Mar	1	1	A	1	2	1	1	0	1	0	1	1	0	1	1	1	2	2	1	2	2	1	1	0	1.2	2.5	
23-Mar	0	A	0	1	0	0	0	0	0	1	1	1	1	1	3	3	2	1	1	1	1	1	1	1	1.0	3.5	
24-Mar	A	1	1	1	1	1	1	2	2	2	2	2	2	2	3	1	1	1	1	1	1	1	1	1	1.5	3.0	
25-Mar	1	1	1	1	0	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0.7	1.1	
26-Mar	0	0	0	0	A	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	0.9	1.5	
27-Mar	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1	0.5	0.6	
28-Mar	1	1	A	1	1	0	1	0	1	0	0	1	0	0	0	0	0	1	1	1	1	1	1	0	0.5	0.7	
29-Mar	1	A	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	0	0.9	1.7	
30-Mar	A	1	1	0	1	1	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	A	0.6	1.0	
31-Mar	0	0	0	0	0	0	0	0	1	1	4	6	0	0	0	0	0	1	1	1	0	0	A	0	0.9	5.9	
	0.9	1.1	0.9	0.9	0.9	1.0	1.0	0.9	1.1	1.1	1.2	1.7	1.1	1.5	1.5	1.3	1.2	1.2	1.1	1.3	1.0	1.1	0.9	0.9	Diurnal Average		
	2.2	5.7	3.6	3.1	2.5	2.0	2.5	2.1	3.0	3.3	4.2	13.5	5.3	8.8	5.8	5.2	5.2	5.2	5.1	4.7	3.7	3.7	2.7	2.7	Diurnal Maximum		
C - Calibration																								A - Automated Daily Zero Span			

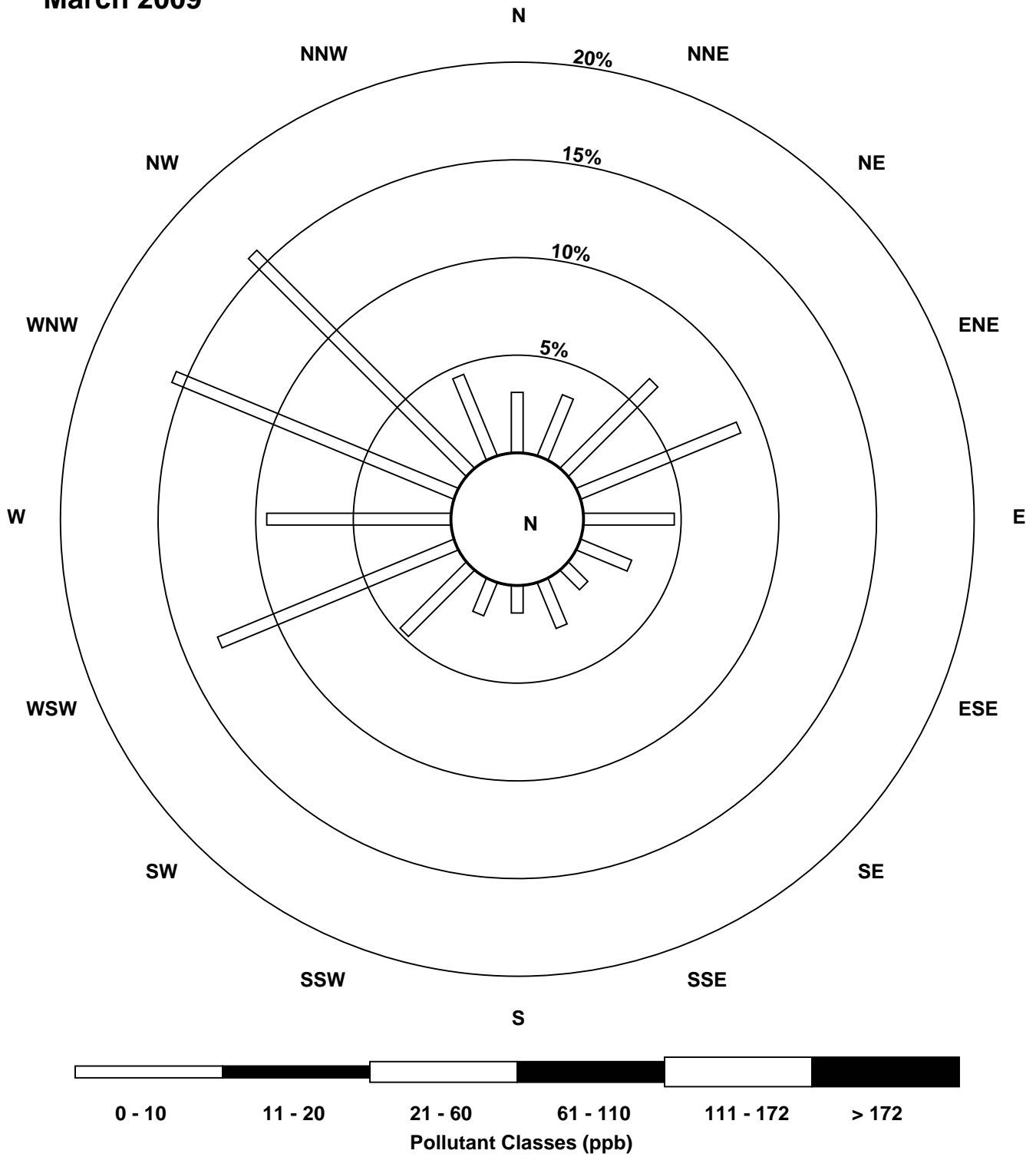
Hourly Maximums for SO₂ at Henry Pirker

March 2009



Pollutant Rose for SO₂ at Henry Pirker

March 2009



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

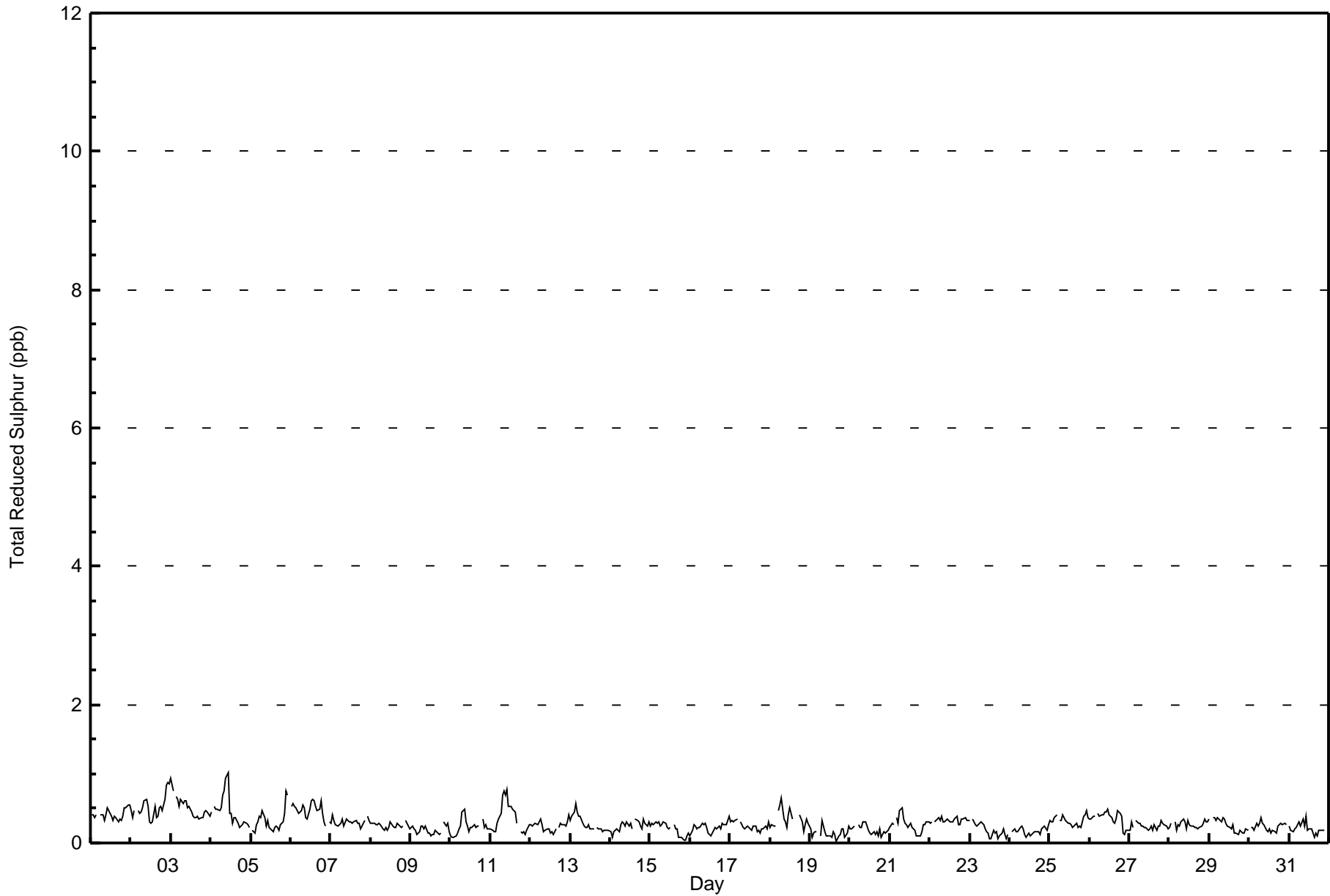
**Henry Pirker - Total Reduced Sulphur (TRS) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 1.0 ppb on Mar 4 11:00	Maximum Daily Average: 0.5 ppb on Mar 3
Minimum Value: 0 ppb on Mar 19 17:00	Hours of Data: 708
Maximum Diurnal Average: 0.4 ppb at hour 8	Hours of Missing Data: 36
Monthly Average: 0.29 ppb	Hours of Calibration: 36
Minimum Daily Average: 0.1 ppb on Mar 19	Percent Operational Time: 100.0
Minimum Diurnal Average: 0.2 ppb at hour 18	
Percentiles: P ₁ = 0.1 P ₁₀ = 0.1 Q ₁ = 0.2 Median = 0.3 Q ₃ = 0.3 P ₉₀ = 0.5 P ₉₉ = 0.7	

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-Mar	0	0	0	0	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0.4	0.5
2-Mar	0	0	0	A	0	0	0	1	1	1	1	0	0	0	1	0	0	0	1	0	1	1	1	1	0.5	0.9
3-Mar	1	1	A	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.9
4-Mar	0	A	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.0
5-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	0.3	0.7
6-Mar	1	1	1	1	0	0	0	1	1	0	0	0	1	1	1	1	0	0	1	0	0	0	A	0	0.5	0.6
7-Mar	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
8-Mar	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
9-Mar	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
10-Mar	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	0.5
11-Mar	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	A	0	0	0	0	0	0	0.4	0.8
12-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
13-Mar	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	A	A	0	0	0	0	0	0	0	0.3	0.6
14-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.2	0.4
15-Mar	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	0.3
16-Mar	0	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
17-Mar	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
18-Mar	0	0	0	0	A	0	1	1	0	0	0	0	0	0	C	C	C	A	0	0	0	0	0	0	0.3	0.6
19-Mar	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
20-Mar	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	0.3
21-Mar	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
22-Mar	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
23-Mar	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
24-Mar	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
25-Mar	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
26-Mar	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
27-Mar	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
28-Mar	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	0.3
29-Mar	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
30-Mar	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
31-Mar	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
	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	Diurnal Average
	0.9	0.8	0.5	0.7	0.6	0.5	0.6	0.7	0.8	0.9	1.0	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.8	0.9	0.9	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 March 2009



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

**Henry Pirker - Total Reduced Sulphur (TRS) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 1.4 ppb on Mar 4 11:00	Maximum Daily Average: 0.9 ppb on Mar 2	Hours in Service: 744
Minimum Value: 0 ppb on Mar 15 18:00	Minimum Daily Average: 0.5 ppb on Mar 19	Hours of Data: 708
Maximum Diurnal Average: 0.8 ppb at hour 8	Minimum Diurnal Average: 0.6 ppb at hour 18	Hours of Missing Data: 36
Monthly Average: 0.65 ppb	Percentiles: P ₁ = 0.4 P ₁₀ = 0.5 Q ₁ = 0.5 Median = 0.6 Q ₃ = 0.7 P ₉₀ = 0.9 P ₉₉ = 1.2	Hours of Calibration: 36
		Percent Operational Time: 100.0

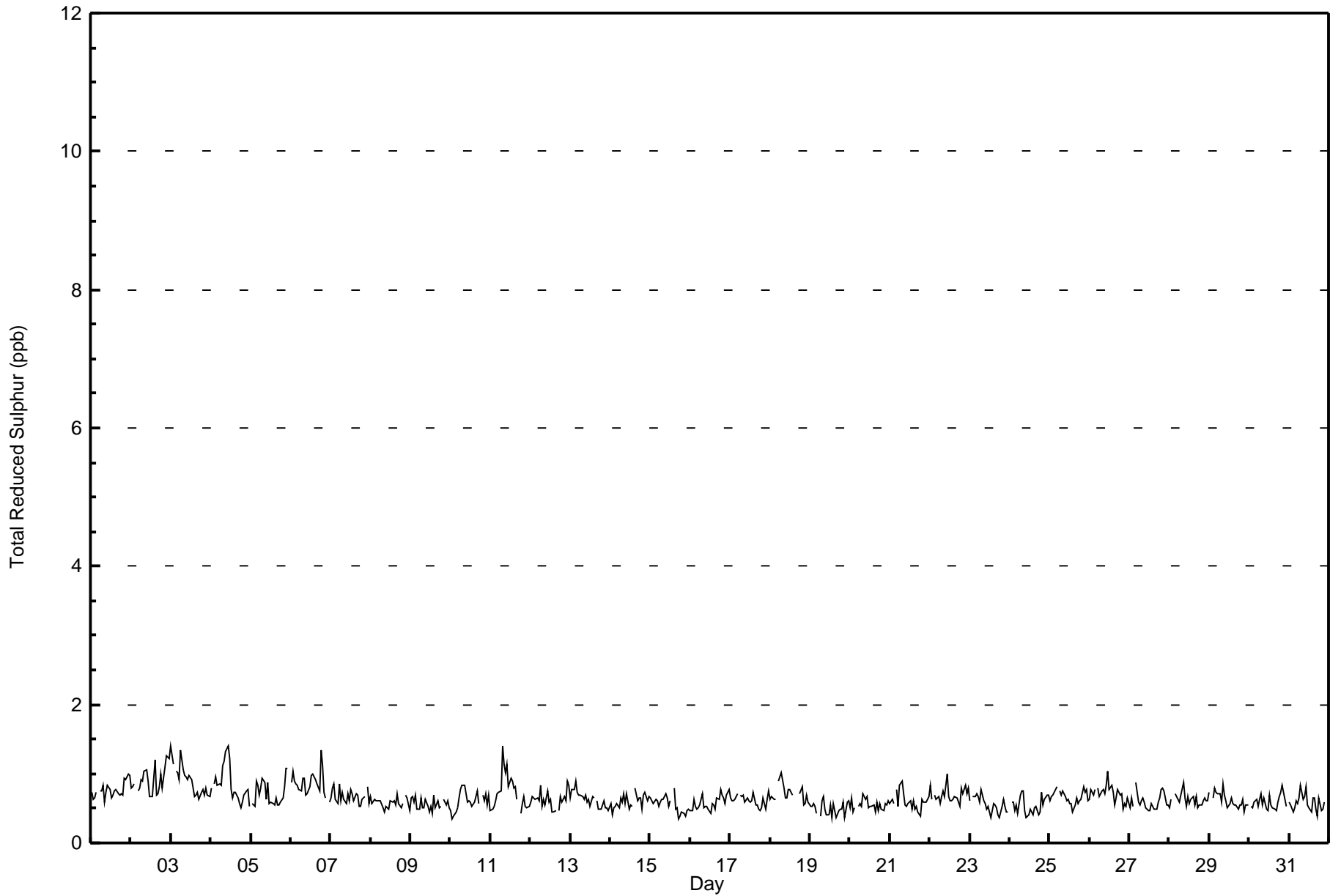
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
2-Mar	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.3
3-Mar	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4
4-Mar	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	1.4
5-Mar	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	1.1
6-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.9	1.4
7-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.7	0.9
8-Mar	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	A	1	1	0	0.6	0.7
9-Mar	1	1	1	1	0	0	1	1	1	1	0	1	0	1	1	1	1	1	1	A	1	1	1	0	0.6	0.7
10-Mar	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.6	0.8
11-Mar	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	1	1	1	1	1	1	0.7	1.4
12-Mar	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	A	1	0	1	1	1	1	1	1	0.6	0.9
13-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0	0	1	1	1	1	1	0	0.6	0.9
14-Mar	1	0	1	1	1	1	1	1	1	1	0	1	1	A	1	1	1	1	0	1	1	1	1	1	0.6	0.8
15-Mar	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0	1	0	0	0	0	0	0	0	0	0.6	0.8
16-Mar	0	0	1	1	0	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	1	1	0.6	0.8
17-Mar	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	1	0.6	0.7
18-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	C	C	C	A	1	1	1	1	1	1	0.7	1.0
19-Mar	1	1	1	1	0	A	0	1	1	0	0	0	1	0	1	0	0	0	0	0	0	1	0	1	0.5	0.7
20-Mar	1	1	0	1	A	1	1	1	1	1	1	1	1	1	0	1	0	1	0	1	0	0	1	1	0.5	0.7
21-Mar	1	1	1	A	1	1	1	1	1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	1	0.6	0.9
22-Mar	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	1.0
23-Mar	1	A	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0	0	1	1	1	1	0	0.6	0.8
24-Mar	A	1	1	0	1	0	1	1	1	0	0	0	0	0	1	1	0	0	1	1	1	1	1	1	0.5	0.8
25-Mar	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	0.8
26-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0.7	1.0
27-Mar	1	1	1	A	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1	1	1	1	1	1	0.6	0.9
28-Mar	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.9
29-Mar	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	0.6	0.9
30-Mar	A	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	1	1	1	1	1	1	A	0.6	0.8
31-Mar	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	0	0	1	A	1	0.6	0.8

0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	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	Diurnal Average	
1.4	1.1	0.9	1.0	1.0	0.9	1.3	1.4	1.2	1.3	1.4	1.2	1.0	1.0	1.2	0.9	0.9	0.8	1.4	1.1	1.1	1.3	1.2	1.2	Diurnal Maximum		

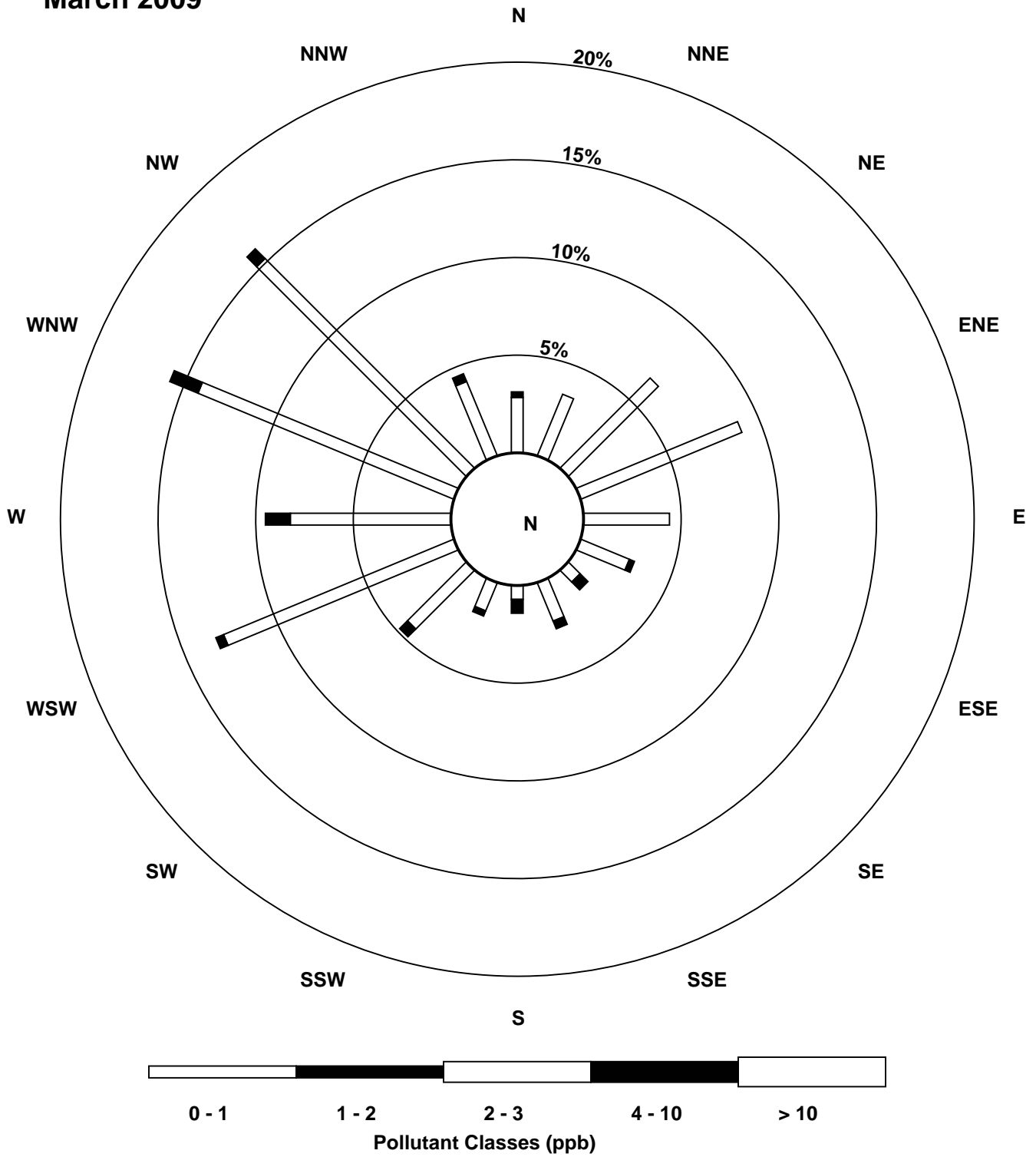
C - Calibration A - Automated Daily Zero Span

Hourly Maximums for TRS at Henry Pirker

March 2009



Pollutant Rose for TRS at Henry Pirker March 2009



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

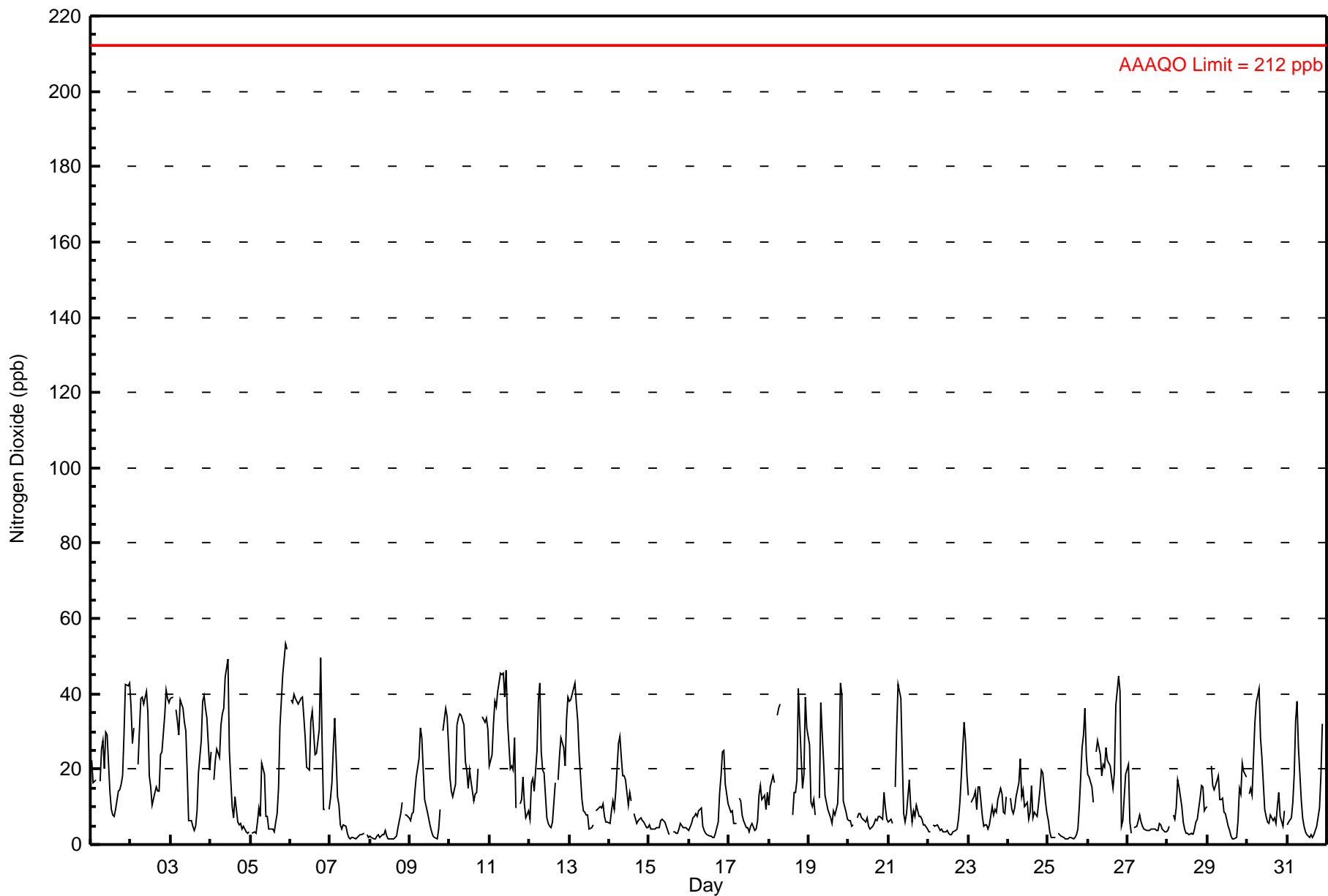
**Henry Pirker - Nitrogen Dioxide (NO₂) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO):	1-hr: 0	24-hr: 0	Hours in Service:	744
Maximum Value: 53.4 ppb on Mar 5 22:00	Maximum Daily Average: 30.1 ppb on Mar 6		Hours of Data:	706
Minimum Value: 1 ppb on Mar 8 15:00	Minimum Daily Average: 3.5 ppb on Mar 8		Hours of Missing Data:	38
Maximum Diurnal Average: 22.8 ppb at hour 7	Minimum Diurnal Average: 7.2 ppb at hour 15		Hours of Calibration:	38
Monthly Average: 14.48 ppb	Percentiles: P ₁ = 1.6 P ₁₀ = 3.0 Q ₁ = 5.1 Median = 9.7 Q ₃ = 20.9 P ₉₀ = 35.1 P ₉₉ = 45.4		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-Mar	23	16	17	17	A	17	25	28	20	30	29	14	9	8	9	14	14	16	18	29	42	42	43	21.3	42.7	
2-Mar	37	27	31	A	21	30	39	39	37	41	35	18	15	10	14	15	14	14	24	25	34	41	39	38	27.8	41.0
3-Mar	39	39	A	36	33	29	38	36	33	30	19	6	6	5	4	5	9	19	28	38	39	36	34	20	25.2	39.3
4-Mar	25	A	17	22	25	23	32	35	36	44	49	25	17	10	7	13	6	5	6	4	5	3	3	3	18.1	49.2
5-Mar	A	3	3	3	6	10	8	22	19	8	7	4	4	4	4	6	8	15	31	45	49	53	52	A	16.5	53.4
6-Mar	38	38	40	39	38	37	39	39	34	28	20	20	33	35	30	24	24	30	49	28	9	9	A	9	30.1	49.5
7-Mar	12	16	26	33	13	10	5	4	5	5	3	2	2	2	2	2	2	2	3	2	3	A	2	2	6.9	33.5
8-Mar	2	2	2	1	2	3	2	3	3	4	2	1	2	1	1	2	2	4	8	11	A	8	8	7	3.5	11.1
9-Mar	6	8	9	14	18	23	31	28	20	12	9	7	5	3	2	2	2	4	9	A	30	36	34	26	14.7	36.1
10-Mar	18	14	13	16	32	34	35	34	32	22	20	15	20	17	12	13	14	20	A	34	33	33	33	31	23.6	34.8
11-Mar	21	24	32	38	36	41	45	45	46	39	46	33	20	21	20	28	10	A	11	12	18	11	7	9	26.6	46.2
12-Mar	7	16	18	14	25	38	43	25	20	19	7	5	5	5	6	16	A	17	24	28	26	21	33	39	19.9	42.9
13-Mar	38	39	41	43	37	33	24	12	9	8	8	8	4	4	5	A	9	9	10	10	11	7	6	6	16.6	42.8
14-Mar	6	9	11	9	14	27	29	23	18	18	17	10	14	11	A	8	6	6	7	7	6	6	5	4	11.9	28.7
15-Mar	5	4	4	4	4	5	5	6	7	6	5	4	3	A	3	3	3	3	4	6	4	5	5	4	4.4	6.8
16-Mar	4	6	7	7	8	7	9	10	5	4	3	3	2	2	2	2	3	6	14	18	25	25	16	11	8.2	25.0
17-Mar	10	9	9	6	6	A	12	12	8	7	5	5	4	5	6	4	4	6	13	16	12	13	9	14	8.3	15.8
18-Mar	10	15	18	16	A	34	36	37	C	C	C	C	C	C	8	14	14	17	41	23	15	19	39	31	--	41.3
19-Mar	26	11	10	12	8	A	12	38	29	22	13	9	8	7	5	9	8	11	22	43	40	12	9	7	16.1	42.9
20-Mar	6	6	5	5	A	7	8	8	7	7	6	7	5	4	5	5	7	6	7	7	7	14	10	7	6.8	13.7
21-Mar	6	7	6	A	15	31	42	39	23	8	6	8	17	10	6	9	7	10	8	7	7	5	5	4	12.4	42.5
22-Mar	3	3	A	5	5	5	4	4	4	3	3	4	3	2	2	3	4	4	7	11	18	33	27	19	7.7	32.5
23-Mar	13	A	11	13	14	9	15	15	8	5	5	5	4	5	10	8	9	9	12	15	14	9	8	13	9.9	15.5
24-Mar	A	12	9	8	10	13	17	23	13	14	10	11	7	8	16	7	9	8	11	15	20	19	11	8	12.0	22.7
25-Mar	6	3	2	2	2	A	3	2	2	2	2	2	2	2	2	2	2	3	4	10	26	29	36	24	7.3	36.1
26-Mar	19	18	15	11	A	25	28	24	18	21	20	26	22	21	18	15	19	37	45	41	5	6	13	19	21.1	44.8
27-Mar	21	6	3	A	5	5	6	8	6	5	4	4	4	4	4	4	4	4	4	5	5	4	3	3	5.2	21.2
28-Mar	4	5	A	8	7	10	17	15	10	6	4	3	3	3	3	3	4	6	7	12	16	15	9	10	7.8	17.2
29-Mar	10	A	21	16	14	16	18	12	12	12	9	8	5	4	2	1	2	2	6	15	13	22	19	18	11.2	21.7
30-Mar	A	13	15	13	33	38	40	41	28	23	9	7	6	6	8	7	7	6	10	14	8	5	9	A	15.7	41.5
31-Mar	5	6	7	11	19	33	38	26	12	7	5	3	3	2	3	2	2	4	5	10	18	32	A	17	11.7	37.9
15.0 13.5 14.3 15.1 16.6 21.1 22.8 22.4 17.4 15.3 12.7 9.2 8.4 7.7 7.2 8.0 7.6 10.1 14.8 17.7 18.1 19.1 18.1 15.3																								Diurnal Average		
38.7 39.0 41.4 42.8 37.9 40.5 45.4 45.2 45.7 44.5 49.2 32.8 32.7 35.4 29.7 28.4 24.2 37.0 49.5 45.1 49.0 53.4 51.8 42.7																								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 March 2009



Peace Airshed Zone Association
Summary of Hourly Maximums

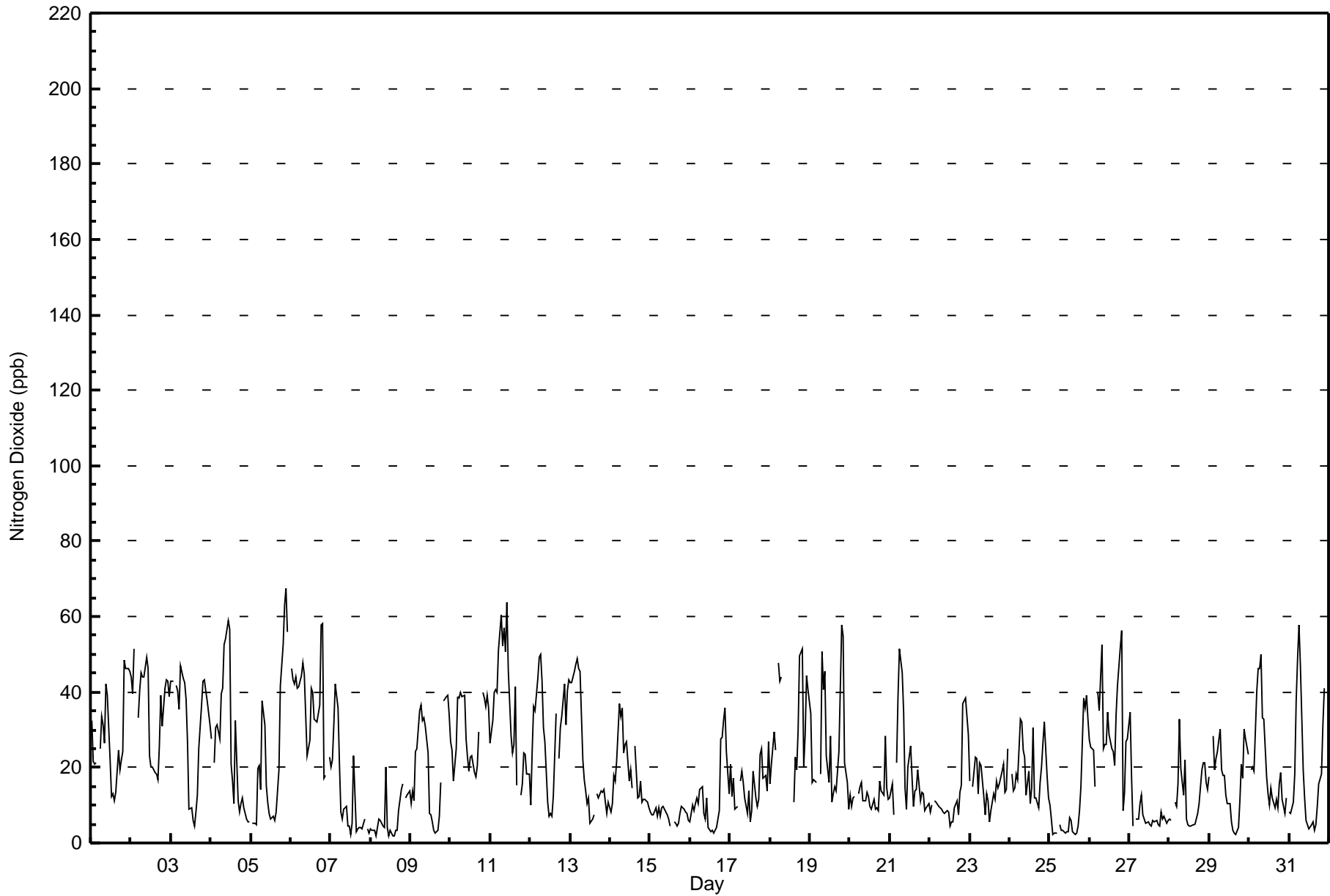
Henry Pirker - Nitrogen Dioxide (NO₂) - ppb
March 1, 2009 to April 1, 2009

Maximum Value: 67.5 ppb on Mar 5 22:00	Maximum Daily Average: 37.7 ppb on Mar 6	Hours in Service: 744 Hours of Data: 706 Hours of Missing Data: 38 Hours of Calibration: 38 Percent Operational Time: 100.0
Minimum Value: 2 ppb on Mar 8 15:00 Maximum Diurnal Average: 30.6 ppb at hour 7 Monthly Average: 20.72 ppb	Minimum Daily Average: 6.7 ppb on Mar 8 Minimum Diurnal Average: 11.5 ppb at hour 14 Percentiles: P ₁ = 2.3 P ₁₀ = 4.9 Q ₁ = 9.0 Median = 16.3 Q ₃ = 31.2 P ₉₀ = 42.9 P ₉₉ = 57.9	

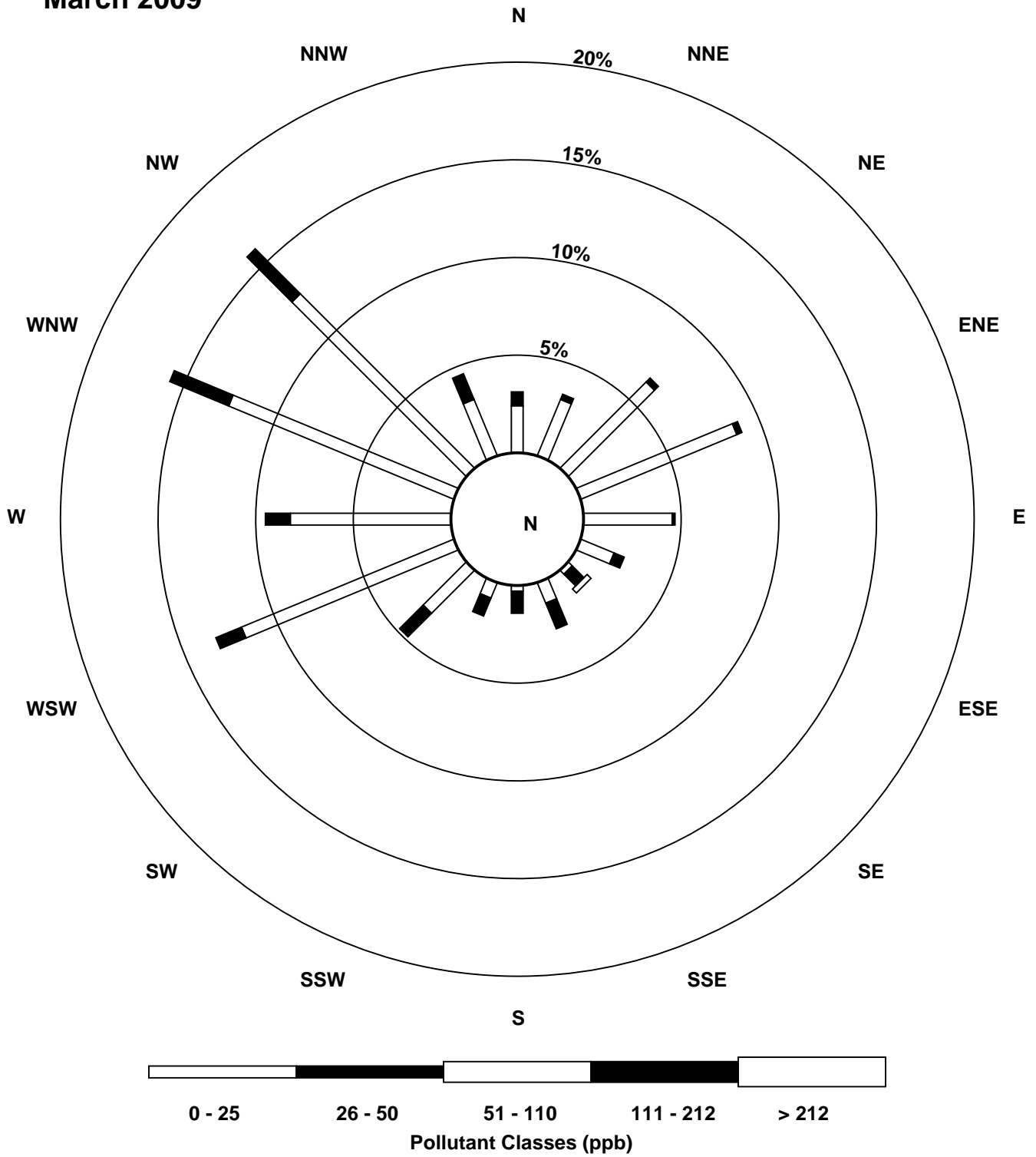
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1-Mar	32	22	21	21	A	25	34	31	27	42	39	22	12	13	11	13	24	19	22	24	49	46	46	46	27.9	48.6	
2-Mar	44	40	51	A	33	40	45	44	44	49	46	23	20	20	19	18	17	26	39	31	41	43	43	39	35.5	51.4	
3-Mar	43	43	A	42	40	36	47	44	43	38	27	9	9	6	5	8	13	25	37	43	43	40	38	31	30.8	46.9	
4-Mar	28	A	21	31	31	28	40	41	53	54	59	57	21	16	11	33	11	8	10	12	9	6	5	6	25.6	58.9	
5-Mar	A	5	5	5	20	21	14	38	31	15	11	8	6	7	6	8	14	19	42	53	63	68	56	A	23.3	67.5	
6-Mar	46	43	42	44	41	41	44	48	45	34	23	27	41	40	33	32	32	36	58	58	17	18	A	23	37.7	58.2	
7-Mar	20	22	31	42	36	21	8	6	9	10	4	4	2	5	23	3	4	4	4	4	6	A	4	3	12.1	42.3	
8-Mar	4	3	3	2	4	6	6	4	4	20	4	2	3	2	2	3	4	9	14	16	A	12	13	14	6.7	20.1	
9-Mar	10	14	11	24	25	35	37	32	33	31	24	8	8	6	3	2	4	7	16	A	38	39	39	34	20.8	39.2	
10-Mar	27	25	16	25	39	38	40	39	39	28	23	19	23	23	18	17	20	30	A	40	38	36	39	36	29.5	40.0	
11-Mar	27	32	40	41	40	51	60	52	57	51	64	46	28	24	26	41	15	A	13	16	24	23	18	18	35.1	63.6	
12-Mar	10	25	36	35	43	49	50	43	31	27	11	7	8	7	12	34	A	22	30	33	42	31	40	43	29.2	50.0	
13-Mar	43	43	46	47	49	46	46	22	17	14	10	12	5	6	7	A	13	12	14	13	14	11	8	11	22.1	48.8	
14-Mar	8	10	18	16	21	37	34	36	24	26	27	16	19	15	A	26	12	12	16	11	12	12	11	9	18.6	37.0	
15-Mar	8	8	7	9	7	9	7	9	10	8	7	6	4	A	6	5	4	5	8	10	9	8	8	6	7.4	9.6	
16-Mar	6	10	9	11	12	10	14	15	8	6	12	4	3	4	3	3	4	9	27	28	33	36	24	13	12.6	35.6	
17-Mar	21	12	17	9	10	A	16	19	16	12	8	14	6	8	19	12	10	11	24	25	17	18	14	27	15.0	27.0	
18-Mar	16	21	30	25	A	48	43	44	C	C	C	C	C	C	C	11	23	19	30	50	51	20	29	44	41	--	51.4
19-Mar	34	16	17	17	16	A	18	51	41	46	23	16	28	11	13	15	14	24	41	58	55	21	16	9	26.1	57.7	
20-Mar	13	10	12	12	A	13	15	16	11	11	14	12	10	9	12	9	9	8	16	14	13	29	14	12	12.7	28.5	
21-Mar	12	16	8	A	21	39	52	45	35	15	9	20	26	17	10	14	14	19	11	13	13	8	9	10	18.9	51.6	
22-Mar	8	10	A	11	11	10	9	9	8	8	9	8	5	6	6	9	11	8	13	15	37	38	34	29	13.5	38.3	
23-Mar	17	A	15	23	22	13	21	20	12	8	13	11	6	9	13	12	17	15	16	19	21	14	14	25	15.3	25.0	
24-Mar	A	18	14	15	18	17	33	32	25	23	13	19	11	15	31	12	12	9	16	20	27	32	18	12	19.1	32.9	
25-Mar	10	6	2	3	3	A	5	4	3	3	3	3	7	6	3	2	3	4	9	15	38	36	39	33	10.4	39.1	
26-Mar	27	25	25	15	A	40	35	53	25	26	26	35	29	25	24	21	34	42	52	56	9	13	27	27	30.0	56.4	
27-Mar	35	18	4	A	6	6	10	13	7	6	5	5	5	5	6	5	6	5	5	8	7	7	5	6	8.1	34.5	
28-Mar	6	6	A	11	10	16	33	20	13	22	6	5	5	4	5	5	6	8	10	19	21	21	16	14	12.2	32.8	
29-Mar	17	A	28	19	23	24	30	19	18	18	13	10	10	6	3	3	2	4	11	21	17	30	27	24	16.5	30.3	
30-Mar	A	20	20	19	40	46	46	50	33	33	18	13	10	15	12	9	12	9	16	19	12	8	12	A	21.4	50.1	
31-Mar	8	8	11	18	38	49	58	47	19	12	6	5	4	5	6	3	5	10	16	18	31	41	A	30	19.5	57.8	
	20.7	18.9	20.0	21.1	24.4	29.1	30.6	30.5	24.7	23.1	18.5	14.9	12.4	11.5	11.9	13.4	12.1	15.0	21.9	25.4	25.8	25.8	23.5	21.7		Diurnal Average	
	46.1	43.1	51.4	47.2	48.8	51.2	60.3	52.6	57.2	54.1	63.6	56.6	41.0	39.9	32.7	41.4	34.0	41.6	58.0	58.2	63.0	67.5	56.1	45.6		Diurnal Maximum	

C - Calibration A - Automated Daily Zero Span

Hourly Maximums for NO₂ at Henry Pirker March 2009



Pollutant Rose for NO₂ at Henry Pirker March 2009



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

**Henry Pirker - Nitrogen Oxide (NO) - ppb
March 1, 2009 to April 1, 2009**

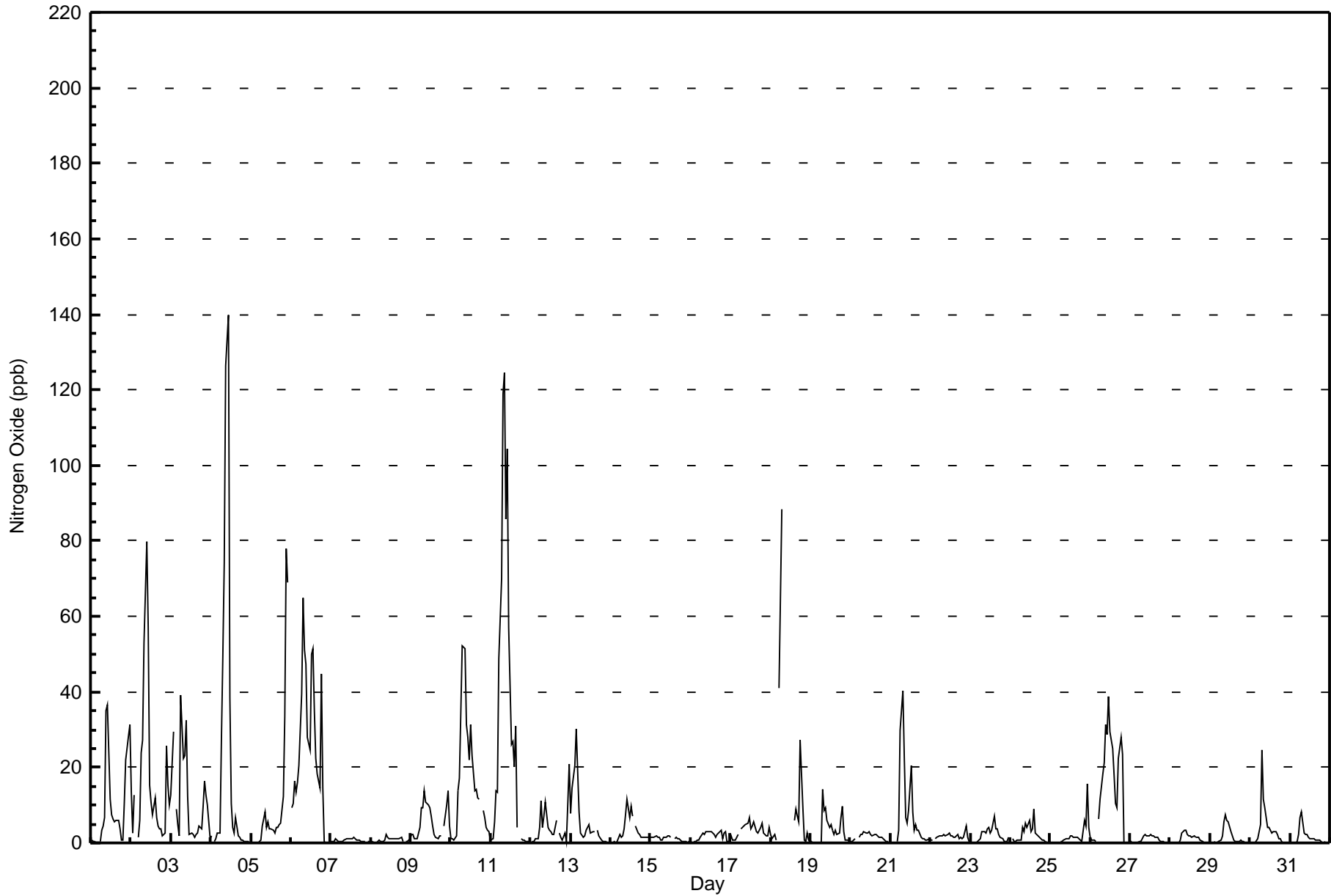
Maximum Value: 139.9 ppb on Mar 4 11:00 Minimum Value: 0 ppb on Mar 5 03:00 Maximum Diurnal Average: 19.1 ppb at hour 10 Monthly Average: 7.41 ppb	Maximum Daily Average: 32.9 ppb on Mar 11 Minimum Daily Average: 0.6 ppb on Mar 7 Minimum Diurnal Average: 2.1 ppb at hour 1 Percentiles: P ₁ = 0.0 P ₁₀ = 0.1 Q ₁ = 0.7 Median = 2.0 Q ₃ = 5.8 P ₉₀ = 21.8 P ₉₉ = 84.6	Hours in Service: 744 Hours of Data: 706 Hours of Missing Data: 38 Hours of Calibration: 38 Percent Operational Time: 100.0
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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-Mar	1	0	0	A	A	1	3	4	7	35	37	12	7	6	6	6	4	1	1	11	22	28	31	9.9	36.5		
2-Mar	13	2	13	A	1	6	24	27	53	80	57	15	11	8	12	7	4	4	4	2	3	26	15	10	17.2	79.9	
3-Mar	13	30	A	9	5	2	39	22	23	32	12	2	3	2	2	3	4	4	4	10	16	13	10	1	11.3	39.1	
4-Mar	2	A	0	1	3	3	28	50	74	126	140	38	10	4	3	7	2	1	1	1	1	0	0	0	21.5	139.9	
5-Mar	A	0	0	0	0	0	1	4	8	4	6	4	4	3	3	4	4	5	5	12	34	78	69	A	11.2	78.1	
6-Mar	9	10	16	13	16	21	40	65	51	47	28	25	50	51	35	23	18	15	45	14	0	0	A	0	25.7	65.0	
7-Mar	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	A	0	0	0.6	1.4	
8-Mar	0	0	0	0	0	1	0	0	1	2	1	1	1	1	1	1	1	1	1	1	A	0	0	1	0.8	2.4	
9-Mar	2	2	1	1	1	4	9	9	14	11	10	9	7	4	2	2	1	2	2	A	4	10	14	5	5.5	13.9	
10-Mar	1	1	1	2	14	17	34	52	52	31	28	22	31	23	14	14	12	12	A	9	7	4	3	3	16.8	52.3	
11-Mar	1	1	6	14	13	49	70	119	125	86	104	57	26	27	20	31	4	A	1	1	1	0	0	0	32.9	124.7	
12-Mar	0	0	1	1	1	4	11	4	7	11	4	3	2	2	2	6	A	3	2	1	1	3	0	10	21	4.3	20.7
13-Mar	8	14	20	30	19	8	3	1	2	3	4	5	3	3	3	A	3	2	1	0	0	0	0	0	5.8	30.3	
14-Mar	0	0	0	0	0	2	1	2	4	7	12	7	10	7	A	4	3	2	2	2	2	1	1	1	3.1	11.5	
15-Mar	1	1	1	2	2	2	1	1	1	2	2	2	1	A	1	1	1	1	1	1	0	0	0	0	1.1	2.0	
16-Mar	0	0	0	0	1	1	1	3	2	3	3	3	3	3	2	2	2	3	3	1	3	3	1	0	1.8	3.3	
17-Mar	2	1	1	1	2	A	4	4	5	5	5	7	4	5	5	3	3	3	4	5	3	2	2	4	3.4	6.6	
18-Mar	2	1	2	1	A	41	65	88	C	C	C	C	C	C	6	9	7	6	27	9	1	0	3	1	--	88.3	
19-Mar	1	0	0	0	0	A	0	14	9	9	6	4	5	3	2	3	2	3	7	10	3	1	1	0	3.6	14.2	
20-Mar	0	1	1	1	A	1	2	2	3	3	2	3	2	2	2	2	2	1	2	1	1	0	0	0	1.6	3.0	
21-Mar	0	0	0	A	0	3	30	40	22	7	5	9	20	8	3	5	3	3	1	1	1	1	1	1	7.2	40.1	
22-Mar	1	1	A	1	2	2	2	2	2	2	2	3	2	2	1	2	2	1	1	1	1	5	2	1	1.7	4.6	
23-Mar	0	A	0	0	0	1	1	3	3	3	4	4	3	3	7	4	4	2	1	1	1	0	1	1	2.0	7.0	
24-Mar	A	1	0	0	1	1	1	4	3	5	4	6	3	4	9	3	2	1	1	1	1	0	0	0	2.2	8.8	
25-Mar	0	0	0	0	0	A	1	1	1	1	1	1	1	2	2	1	1	1	1	0	6	5	16	4	2.0	15.6	
26-Mar	1	1	1	0	A	6	12	18	21	31	29	39	30	25	18	10	9	22	28	24	0	0	0	0	14.2	38.7	
27-Mar	0	0	0	A	0	0	0	1	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0.9	2.2	
28-Mar	0	0	A	0	0	0	1	3	4	3	2	2	2	1	2	1	1	1	1	0	0	0	0	0	1.1	3.5	
29-Mar	0	A	0	0	0	0	1	2	5	8	6	6	3	2	1	1	0	0	1	1	0	0	0	0	1.6	7.6	
30-Mar	A	0	0	0	1	3	5	25	12	9	4	4	3	3	3	3	2	1	1	0	0	0	0	A	3.6	24.7	
31-Mar	0	0	0	0	0	2	7	8	3	2	2	2	1	1	1	1	1	1	1	0	0	0	A	0	1.5	8.0	
	2.1	2.5	2.4	2.8	3.1	6.5	12.8	18.7	17.3	19.1	17.5	9.9	8.4	7.2	5.7	5.3	3.6	3.6	5.0	3.6	3.4	5.8	6.1	3.0	Diurnal Average		
	13.5	29.6	20.4	30.3	19.0	48.9	70.3	119.1	124.7	126.3	139.9	57.2	50.0	51.3	35.1	31.1	18.1	22.5	44.7	23.7	33.5	78.1	68.9	31.5	Diurnal Maximum		

C - Calibration A - Automated Daily Zero Span

Hourly Averages for NO at Henry Pirker

March 2009



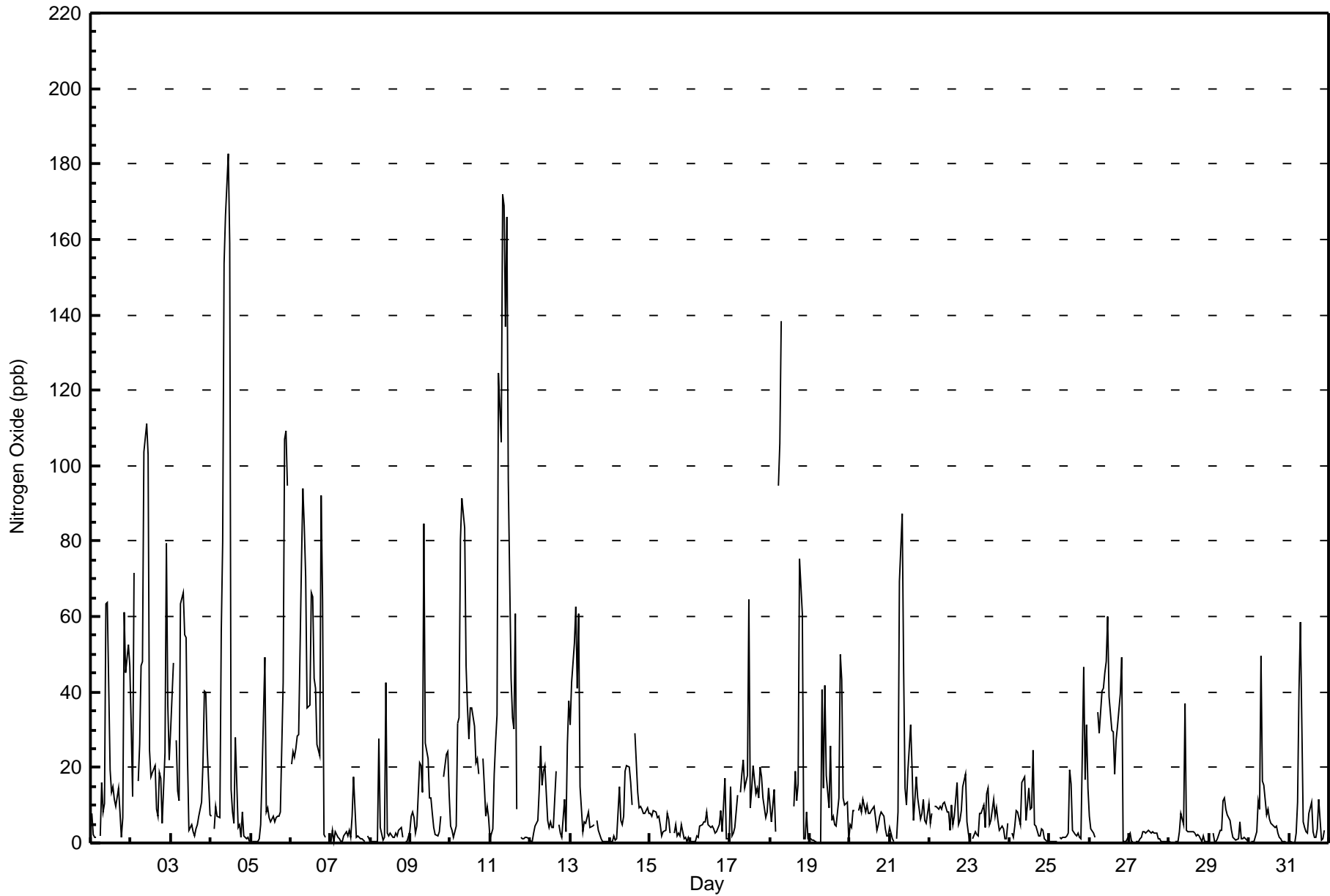
Peace Airshed Zone Association
Summary of Hourly Maximums

Henry Pirker - Nitrogen Oxide (NO) - ppb
March 1, 2009 to April 1, 2009

Maximum Value: 182.6 ppb on Mar 4 11:00		Maximum Daily Average: 53.9 ppb on Mar 11		Hours in Service: 744																							
Minimum Value: 0 ppb on Mar 31 04:00		Minimum Daily Average: 1.6 ppb on Mar 27		Hours of Data: 706																							
Maximum Diurnal Average: 35.8 ppb at hour 8		Minimum Diurnal Average: 6.7 ppb at hour 2		Hours of Missing Data: 38																							
Monthly Average: 16.03 ppb		Percentiles: P ₁ = 0.3 P ₁₀ = 0.5 Q ₁ = 2.0 Median = 6.6 Q ₃ = 17.0 P ₉₀ = 43.5 P ₉₉ = 150.6		Hours of Calibration: 38																							
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-Mar	8	2	2	1	A	2	16	8	11	63	64	20	13	15	11	10	15	8	2	7	61	45	53	47	21.0	63.9	
2-Mar	30	12	71	A	16	26	47	48	104	111	103	24	18	19	21	9	7	19	17	5	24	79	36	22	37.8	111.0	
3-Mar	30	48	A	27	14	11	63	66	55	54	23	4	5	3	2	4	5	7	11	21	40	40	25	7	24.6	66.4	
4-Mar	7	A	4	10	7	7	56	80	154	166	183	159	14	8	5	28	4	5	2	8	2	1	1	1	39.6	182.6	
5-Mar	A	0	0	0	1	1	5	18	49	8	9	7	6	7	5	7	7	7	8	43	107	109	95	A	22.7	109.3	
6-Mar	21	24	23	25	29	29	74	94	84	70	36	36	66	65	44	41	26	23	92	64	2	1	A	1	42.2	93.8	
7-Mar	1	3	1	3	2	1	1	1	2	3	2	4	2	7	18	2	2	2	1	1	1	A	2	1	2.5	17.6	
8-Mar	1	1	1	1	1	27	4	1	2	42	3	2	3	2	2	3	2	3	4	2	A	1	1	3	4.6	42.4	
9-Mar	7	8	7	3	5	21	20	14	85	27	22	12	12	8	4	2	2	3	7	A	17	23	24	13	15.1	84.8	
10-Mar	5	4	2	5	32	33	80	91	83	47	36	28	36	36	31	21	23	18	A	22	15	7	10	7	29.1	91.2	
11-Mar	1	4	18	27	34	125	106	172	169	137	166	96	44	33	30	61	9	A	2	1	1	2	2	1	53.9	171.8	
12-Mar	1	1	3	5	6	14	26	15	19	20	6	4	6	4	4	19	A	5	3	2	12	3	26	38	10.4	37.8	
13-Mar	31	42	53	62	41	61	15	3	6	5	7	8	4	4	5	A	6	4	1	1	1	1	1	1	15.7	62.5	
14-Mar	1	0	2	1	1	15	6	5	7	19	21	20	16	10	A	29	13	9	10	9	8	8	9	8	9.9	29.3	
15-Mar	8	7	8	8	7	7	5	2	3	4	8	7	3	A	3	5	2	2	2	2	5	1	2	1	2	4.3	8.5
16-Mar	1	1	1	1	2	2	4	5	6	6	8	5	4	5	4	3	3	5	9	3	10	17	1	1	4.3	17.0	
17-Mar	15	2	3	4	13	A	13	18	22	15	18	65	9	14	21	13	14	12	20	17	12	7	8	14	15.2	64.7	
18-Mar	10	6	14	3	A	95	106	138	C	C	C	C	C	C	10	19	11	16	75	61	1	1	8	1	--	138.2	
19-Mar	1	1	1	1	0	A	0	41	14	42	18	9	26	6	7	5	5	12	50	43	12	10	11	1	13.7	50.0	
20-Mar	5	4	8	8	A	8	10	8	11	8	10	8	8	9	10	7	3	5	7	8	7	4	2	2	7.0	11.4	
21-Mar	4	1	0	A	1	8	69	87	46	14	10	19	31	20	6	12	18	12	6	8	11	6	5	10	17.6	87.1	
22-Mar	5	8	A	10	10	9	10	9	10	11	8	8	3	10	5	7	16	5	6	8	15	18	6	3	8.7	18.3	
23-Mar	0	A	1	3	2	2	8	8	10	4	13	15	5	6	12	7	9	6	3	4	4	1	1	5	5.6	14.5	
24-Mar	A	3	1	4	9	8	5	16	17	17	6	15	9	9	25	5	4	2	2	4	3	1	0	0	7.2	24.6	
25-Mar	1	1	1	0	1	A	1	1	2	2	2	2	20	16	3	2	2	2	2	1	47	17	31	15	7.4	46.8	
26-Mar	7	4	2	1	A	35	29	40	41	45	48	60	39	30	29	18	27	31	39	49	1	0	0	1	25.2	60.1	
27-Mar	2	0	0	A	0	1	1	2	3	3	3	3	3	2	3	2	2	1	1	1	1	1	0	1	1.6	3.5	
28-Mar	1	0	A	0	0	0	3	8	5	37	4	3	3	3	3	3	2	2	2	1	2	0	0	0	3.6	36.9	
29-Mar	0	A	2	1	1	1	3	4	11	12	9	8	6	3	1	1	1	1	6	1	1	1	1	0	3.3	12.0	
30-Mar	A	0	1	0	3	11	9	50	17	15	8	9	6	5	5	4	4	2	2	1	0	0	0	A	7.0	49.6	
31-Mar	0	0	0	0	2	11	40	58	6	4	3	3	8	11	3	1	2	4	12	1	1	3	A	2	7.6	58.4	
7.2		6.7	8.2	7.6	8.8	20.4	27.0	35.8	35.1	33.7	28.5	22.0	14.2	12.7	11.0	11.6	8.2	7.8	13.4	13.4	14.0	13.7	12.4	7.1	Diurnal Average		
31.2		47.6	71.4	62.5	41.1	124.5	106.3	171.8	168.8	166.3	182.6	158.7	66.5	65.4	43.7	60.8	27.2	31.0	92.0	64.5	106.9	109.3	94.6	47.1	Diurnal Maximum		
C - Calibration		A - Automated Daily Zero Span																									

Hourly Maximums for NO at Henry Pirker

March 2009

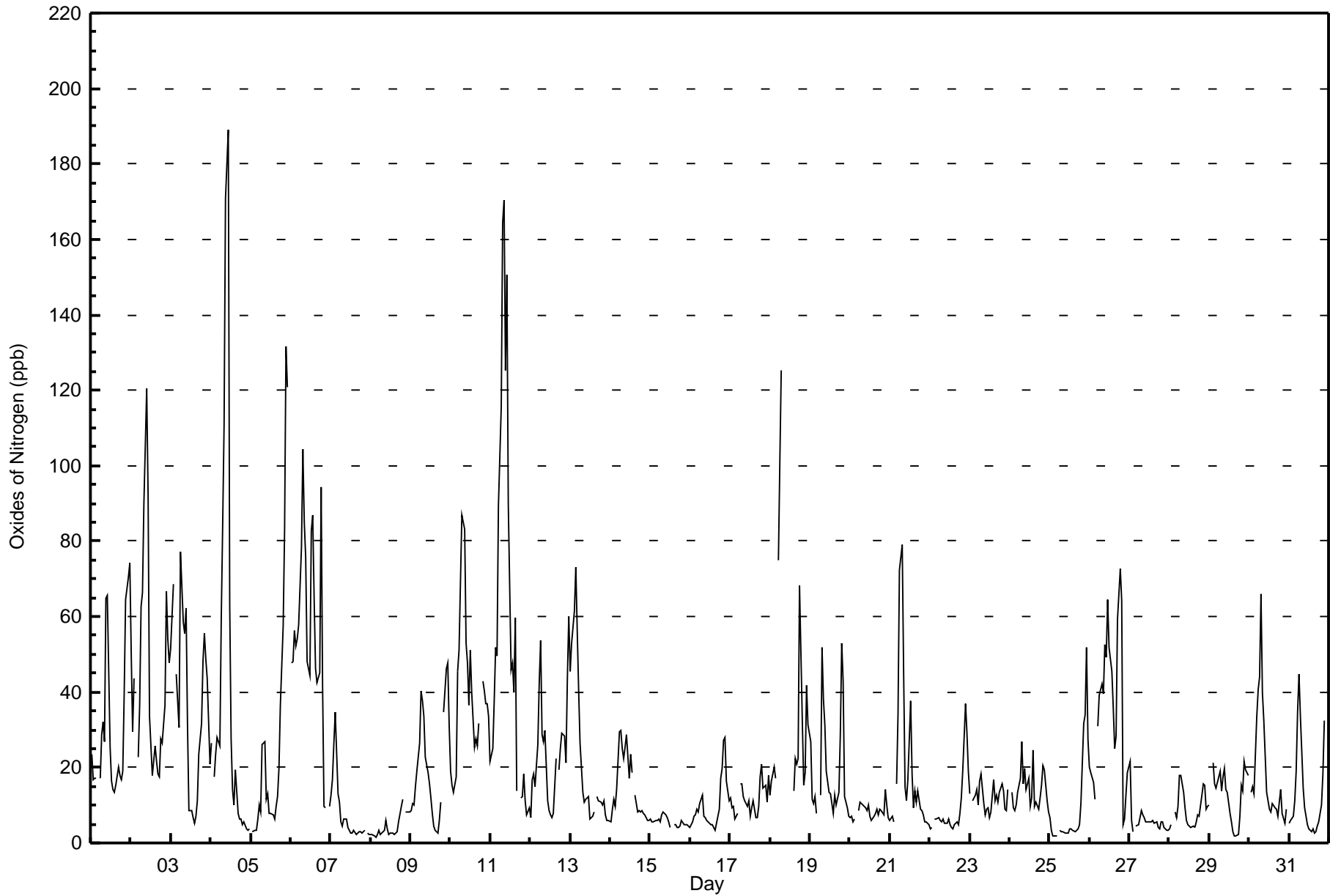


**Peace Airshed Zone Association
Summary of Hourly Averages**

**Henry Pirker - Oxides of Nitrogen (NO_x) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 189.1 ppb on Mar 4 11:00		Maximum Daily Average: 59.5 ppb on Mar 11		Hours in Service: 744																							
Minimum Value: 2 ppb on Mar 8 04:00		Minimum Daily Average: 4.3 ppb on Mar 8		Hours of Data: 706																							
Maximum Diurnal Average: 41.0 ppb at hour 8		Minimum Diurnal Average: 11.1 ppb at hour 17		Hours of Missing Data: 38																							
Monthly Average: 21.85 ppb		Percentiles: P ₁ = 2.0 P ₁₀ = 4.0 Q ₁ = 6.6 Median = 12.3 Q ₃ = 27.4 P ₉₀ = 52.1 P ₉₉ = 121.8		Hours of Calibration: 38																							
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-Mar	23	17	17	17	A	17	29	32	27	65	66	25	16	14	13	15	20	18	17	19	40	64	71	74	31.2	74.2	
2-Mar	50	29	44	A	23	36	63	66	90	120	92	33	26	18	26	22	18	18	27	27	37	67	54	48	45.0	120.4	
3-Mar	51	68	A	45	38	31	77	59	56	62	31	9	9	7	5	7	11	23	32	48	56	49	43	21	36.4	77.3	
4-Mar	26	A	18	24	28	26	60	84	111	171	189	63	28	14	10	19	8	6	6	5	5	4	3	4	39.6	189.1	
5-Mar	A	3	3	3	6	10	8	26	27	12	13	8	8	7	6	10	12	20	36	57	83	132	121	A	27.8	131.5	
6-Mar	48	48	56	52	54	58	78	104	85	76	48	44	83	87	65	46	42	45	94	42	10	10	A	10	55.9	104.3	
7-Mar	12	17	26	35	13	11	6	4	6	6	4	3	2	3	3	2	3	3	3	3	3	A	3	2	7.6	34.5	
8-Mar	2	2	2	2	2	3	2	3	3	6	4	2	3	2	2	3	3	6	10	12	A	8	8	8	4.3	11.6	
9-Mar	9	10	10	15	19	27	40	38	34	23	19	16	12	8	4	3	3	6	11	A	35	46	48	31	20.2	47.7	
10-Mar	19	15	13	18	46	51	69	87	83	53	48	37	51	40	25	28	26	32	A	43	40	37	37	33	40.4	86.7	
11-Mar	22	25	38	52	50	89	116	164	170	125	151	90	46	48	40	60	14	A	12	12	18	11	8	9	59.5	170.3	
12-Mar	7	17	18	15	26	43	54	29	27	30	11	9	8	7	8	22	A	19	25	29	28	21	44	60	24.1	60.0	
13-Mar	46	53	62	73	56	41	26	13	11	12	12	12	6	7	8	A	12	11	11	10	11	7	6	6	22.3	73.0	
14-Mar	6	9	12	10	14	29	30	25	22	25	29	17	23	18	A	13	8	9	8	9	8	7	6	6	14.9	30.0	
15-Mar	6	5	6	6	6	6	6	7	8	7	7	6	4	A	5	5	4	4	5	6	5	5	5	5	5.5	8.2	
16-Mar	4	6	7	8	9	8	10	13	7	7	6	6	5	5	4	3	5	9	17	20	27	28	16	11	10.1	28.0	
17-Mar	12	9	10	6	8	A	16	16	12	11	10	11	7	9	11	7	7	10	17	21	15	15	11	18	11.7	21.0	
18-Mar	12	16	20	17	A	75	101	125	C	C	C	C	C	C	C	14	23	21	22	68	32	15	19	42	31	--	125.3
19-Mar	27	11	10	12	8	A	13	52	38	31	19	13	13	10	8	13	10	13	29	53	43	12	9	7	19.8	52.8	
20-Mar	7	7	5	6	A	8	11	10	10	9	8	10	7	6	7	8	9	8	9	9	7	14	10	7	8.4	14.2	
21-Mar	6	7	6	A	16	34	72	79	45	15	11	17	38	18	9	14	11	14	9	9	8	6	6	5	19.7	79.0	
22-Mar	4	4	A	6	6	7	6	6	6	5	5	6	5	4	4	5	6	5	8	12	19	37	29	19	9.3	37.0	
23-Mar	13	A	11	13	14	10	16	18	11	7	9	9	7	8	17	11	13	11	13	16	14	9	9	14	11.9	18.4	
24-Mar	A	13	9	8	10	13	17	27	15	20	14	17	10	12	25	10	11	9	12	15	21	19	11	8	14.2	26.7	
25-Mar	7	3	2	2	2	A	3	3	3	3	3	3	4	4	3	3	3	4	5	10	32	34	52	28	9.3	51.7	
26-Mar	20	19	16	12	A	31	39	42	40	52	49	64	52	46	36	25	28	59	73	64	5	6	13	19	35.2	72.7	
27-Mar	21	6	3	A	5	5	7	9	7	7	6	5	6	6	6	5	5	4	4	6	6	4	3	3	6.0	21.5	
28-Mar	4	5	A	8	7	10	18	18	13	9	6	5	5	4	5	4	5	7	7	13	16	15	9	10	8.7	17.8	
29-Mar	10	A	21	16	14	16	19	14	17	20	14	14	8	6	3	2	2	2	7	15	14	22	19	18	12.7	21.8	
30-Mar	A	13	15	13	33	41	44	66	40	32	13	11	9	8	10	9	9	7	11	14	8	5	9	A	19.2	66.1	
31-Mar	5	6	7	11	19	35	45	34	14	9	7	5	4	3	4	3	3	4	5	10	18	32	A	18	13.1	44.6	
	17.1	15.9	16.7	17.9	19.7	27.5	35.5	41.0	34.7	34.4	30.1	19.1	16.7	14.8	12.9	13.3	11.1	13.6	19.7	21.3	21.5	24.9	24.2	18.3	Diurnal Average		
	51.4	68.5	61.6	73.0	56.3	89.4	115.7	164.3	170.3	170.7	189.1	90.0	82.7	86.8	64.8	59.5	42.4	59.4	94.3	64.1	82.6	131.5	120.8	74.2	Diurnal Maximum		
C - Calibration		A - Automated Daily Zero Span																									

Hourly Averages for NO_x at Henry Pirker March 2009



Peace Airshed Zone Association
Summary of Hourly Maximums

Henry Pirker - Oxides of Nitrogen (NO_x) - ppb
March 1, 2009 to April 1, 2009

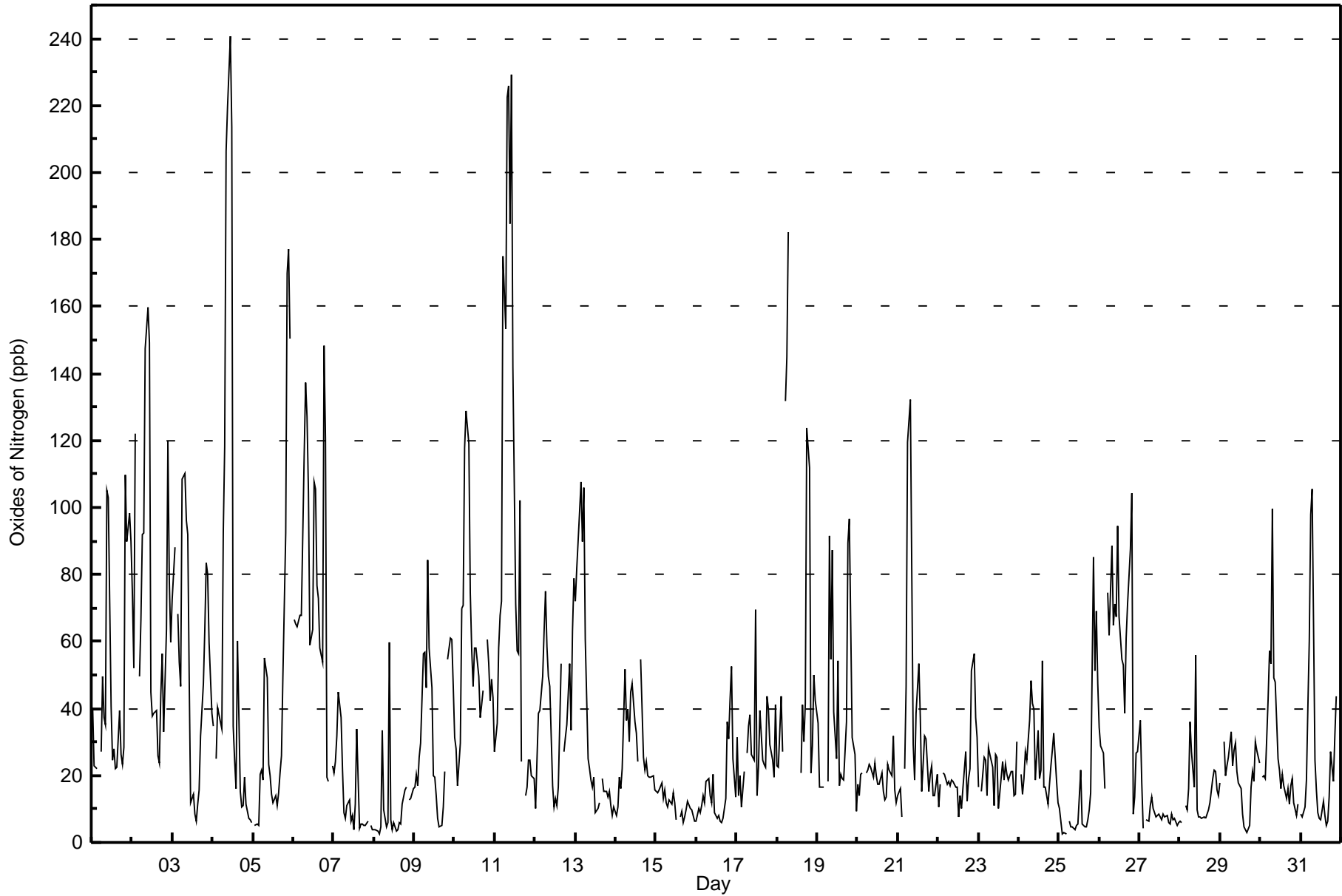
Maximum Value: 240.6 ppb on Mar 4 11:00	Maximum Daily Average: 87.9 ppb on Mar 11	Hours in Service: 744
Minimum Value: 3 ppb on Mar 8 04:00	Minimum Daily Average: 9.3 ppb on Mar 27	Hours of Data: 706
Maximum Diurnal Average: 65.5 ppb at hour 8	Minimum Diurnal Average: 20.1 ppb at hour 17	Hours of Missing Data: 38
Monthly Average: 36.01 ppb	Percentiles: P ₁ = 3.7 P ₁₀ = 7.0 Q ₁ = 13.2 Median = 22.1 Q ₃ = 46.7 P ₉₀ = 84.0 P ₉₉ = 202.2	Hours of Calibration: 38
		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-Mar	40	23	22	22	A	27	50	37	35	105	103	41	25	28	22	22	39	26	23	28	110	90	98	90	48.2	109.6
2-Mar	74	52	122	A	49	66	92	92	147	160	149	45	38	39	39	26	24	44	56	33	64	120	78	60	72.6	159.8
3-Mar	72	88	A	68	54	46	109	110	96	92	49	12	14	8	6	11	16	32	48	64	83	80	60	39	54.7	110.0
4-Mar	35	A	25	40	38	34	93	118	206	219	241	213	35	25	16	60	15	11	11	19	11	7	7	6	64.6	240.6
5-Mar	A	5	6	5	20	22	19	55	49	23	20	14	12	14	11	15	21	26	50	92	170	177	150	A	44.4	177.1
6-Mar	67	65	64	66	68	68	116	137	127	105	59	64	108	105	77	73	58	54	148	120	20	18	A	23	78.7	148.4
7-Mar	21	24	32	45	37	22	9	7	11	13	6	8	4	11	34	4	5	5	5	5	6	A	5	4	14.1	45.0
8-Mar	4	4	3	3	4	34	10	5	6	60	7	4	6	4	4	6	5	12	16	17	A	13	13	16	11.0	59.8
9-Mar	16	20	17	25	30	56	57	46	84	58	46	20	20	14	7	4	5	10	21	A	55	61	60	47	34.0	84.1
10-Mar	32	28	17	30	70	71	118	129	119	74	58	47	58	58	49	37	41	45	A	61	53	43	49	43	57.8	128.8
11-Mar	27	36	58	68	72	175	153	222	226	185	229	142	71	57	57	102	24	A	14	17	25	25	20	19	87.9	229.2
12-Mar	10	25	39	39	49	63	75	58	49	47	17	11	13	11	16	53	A	27	31	35	53	33	63	79	39.1	79.0
13-Mar	72	82	99	107	90	106	60	25	22	19	17	20	9	10	12	A	19	15	15	14	15	11	8	11	37.3	107.5
14-Mar	8	11	19	16	22	52	36	40	30	45	47	36	32	24	A	55	25	22	24	20	19	19	20	16	27.9	54.6
15-Mar	15	15	16	18	13	16	12	11	13	11	15	12	7	A	7	9	6	8	10	12	10	10	8	7	11.3	17.7
16-Mar	6	10	9	11	14	12	18	19	14	12	20	9	7	8	6	6	7	13	36	31	43	53	25	14	16.8	52.5
17-Mar	32	14	20	10	21	A	27	35	38	26	25	69	14	22	40	25	24	23	44	40	29	24	20	41	28.8	69.5
18-Mar	23	22	44	27	A	132	145	182	C	C	C	C	C	C	21	41	30	42	124	112	21	29	50	42	--	182.4
19-Mar	35	16	17	17	16	A	18	92	55	87	39	25	54	17	20	19	19	36	89	97	64	31	26	10	39.1	96.5
20-Mar	17	14	20	21	A	21	21	23	23	20	24	20	17	17	21	15	13	14	23	22	20	32	16	12	19.3	31.9
21-Mar	14	16	8	A	22	47	120	132	81	29	19	39	53	37	15	23	32	31	15	20	23	14	14	20	35.8	132.0
22-Mar	10	18	A	21	20	17	18	17	19	18	17	16	8	14	10	16	27	12	19	22	51	56	37	31	21.6	56.2
23-Mar	17	A	15	25	24	14	28	26	23	11	26	25	10	15	24	19	23	20	19	21	21	14	15	30	20.3	29.9
24-Mar	A	20	14	19	27	25	36	48	41	40	19	34	19	21	54	17	16	11	18	23	28	33	18	12	25.8	54.3
25-Mar	10	7	3	3	3	A	6	5	4	4	5	5	13	22	5	5	5	7	10	15	85	51	69	47	16.9	85.2
26-Mar	34	29	27	16	A	75	62	89	65	71	68	94	68	55	53	39	61	71	88	104	9	13	27	27	54.1	104.2
27-Mar	37	18	4	A	7	6	11	14	10	9	8	9	8	7	8	8	8	6	5	8	7	7	5	6	9.3	36.6
28-Mar	7	6	A	11	10	16	36	27	17	56	10	8	8	7	8	7	9	10	12	19	22	21	16	14	15.4	55.7
29-Mar	18	A	30	20	23	25	33	23	28	30	21	18	16	9	5	4	3	5	16	21	18	30	28	24	19.4	32.9
30-Mar	A	20	20	19	43	57	53	99	49	48	25	22	16	20	17	13	16	12	17	19	12	8	12	A	28.0	99.4
31-Mar	9	8	11	18	40	60	98	106	25	16	9	7	7	12	8	5	6	14	27	18	32	44	A	31	26.5	105.5

27.2	24.8	27.9	28.3	32.9	48.7	56.1	65.5	57.0	56.4	46.5	36.3	25.6	23.9	22.5	24.7	20.1	22.1	34.5	37.6	39.3	38.9	35.0	28.2	Diurnal Average	
74.4	88.2	122.1	107.5	89.9	175.0	153.5	222.3	225.8	219.5	240.6	213.4	107.6	105.3	76.6	102.3	60.9	71.2	148.4	120.3	169.8	177.1	150.5	89.7	Diurnal Maximum	

C - Calibration A - Automated Daily Zero Span

Hourly Maximums for NO_x at Henry Pirker March 2009



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

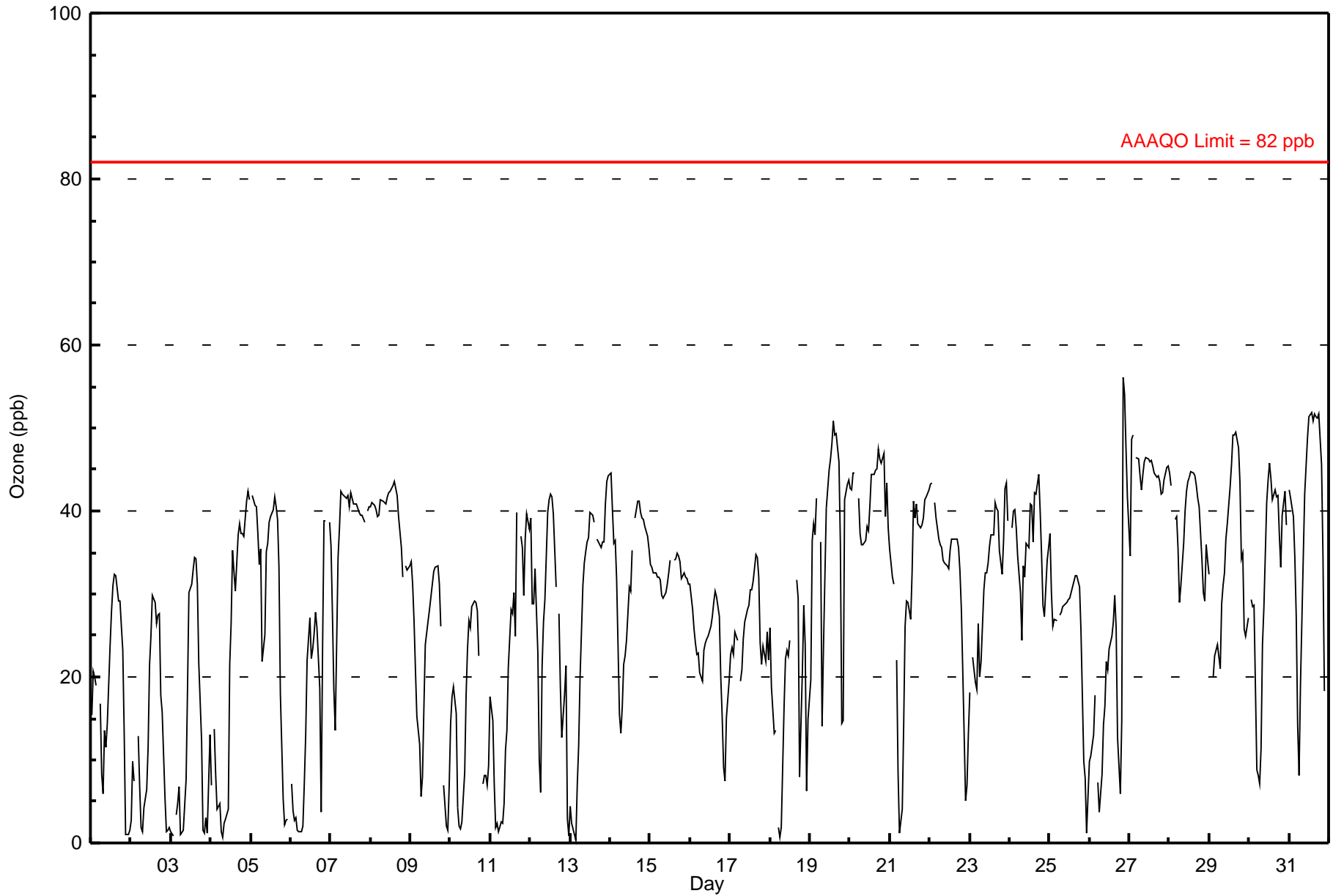
**Henry Pirker - Ozone (O₃) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 56.1 ppb on Mar 26 21:00	Maximum Daily Average: 44.7 ppb on Mar 27
Minimum Value: 0 ppb on Mar 13 04:00	Hours of Data: 709
Minimum Daily Average: 12.8 ppb on Mar 2	Hours of Missing Data: 35
Maximum Diurnal Average: 37.5 ppb at hour 17	Hours of Calibration: 35
Monthly Average: 28.26 ppb	Percent Operational Time: 100.0
Percentiles: P ₁ = 1.0 P ₁₀ = 6.0 Q ₁ = 19.6 Median = 31.1 Q ₃ = 39.4 P ₉₀ = 43.4 P ₉₉ = 51.3	

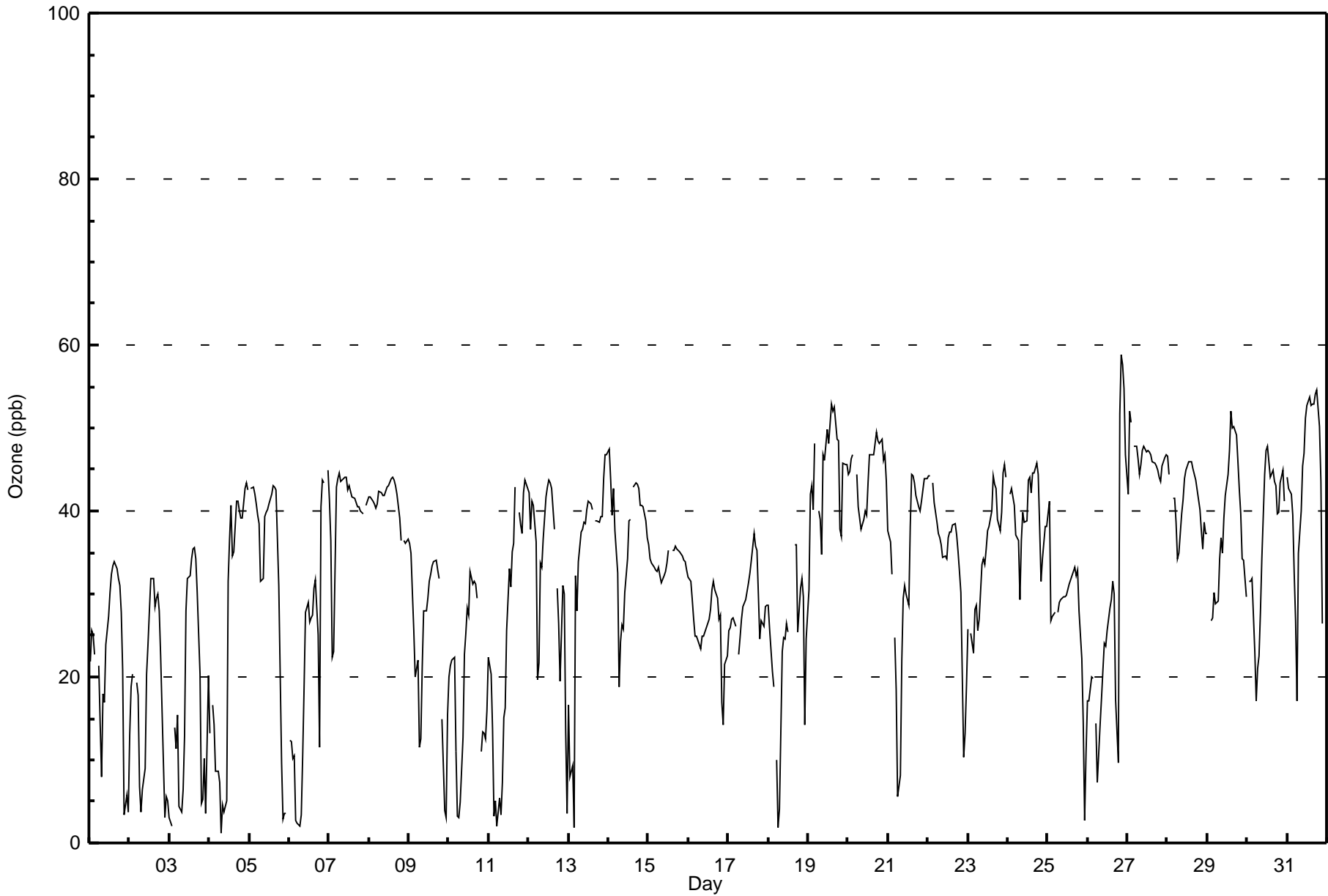
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																									
1-Mar	16	21	20	19	A	17	8	6	13	12	14	24	28	31	32	32	29	29	26	23	13	1	1	2	18.1	32.4																							
2-Mar	3	10	8	A	13	7	2	1	4	7	12	21	25	30	29	26	27	28	18	16	5	1	1	2	12.8	29.9																							
3-Mar	1	1	A	3	5	7	1	2	5	8	18	30	31	33	34	34	31	22	12	2	1	3	1	13	13.0	34.3																							
4-Mar	7	A	14	8	4	5	1	1	2	3	4	22	27	35	33	30	37	39	37	37	37	41	42	41	22.1	42.4																							
5-Mar	A	42	41	40	37	34	36	22	25	35	36	39	39	40	42	41	39	33	18	5	2	3	3	A	29.6	41.9																							
6-Mar	7	4	3	3	1	1	1	2	7	13	22	27	22	23	25	28	26	19	4	23	39	39	A	39	16.5	38.8																							
7-Mar	36	28	18	14	34	38	42	42	42	42	42	40	42	42	41	41	40	40	39	39	39	A	40	41	37.5	42.5																							
8-Mar	40	41	41	40	39	40	41	41	41	41	42	42	42	43	44	43	42	39	36	32	A	33	33	33	39.6	43.6																							
9-Mar	34	31	27	21	15	12	6	8	16	24	27	28	30	31	33	33	33	31	26	A	7	2	1	7	21.0	33.9																							
10-Mar	14	18	19	16	4	2	2	3	9	18	23	27	26	29	29	29	28	23	A	7	8	8	7	9	15.5	29.2																							
11-Mar	18	15	7	2	2	1	3	2	5	11	14	21	28	28	30	25	40	A	37	36	30	37	40	38	20.4	39.8																							
12-Mar	39	29	29	33	23	10	6	21	27	29	40	41	42	42	40	31	A	28	19	13	18	21	3	1	25.4	42.0																							
13-Mar	4	2	1	0	7	12	20	31	34	35	36	37	40	40	39	A	37	36	36	36	36	41	44	44	28.2	44.2																							
14-Mar	45	40	36	36	32	15	13	16	22	23	24	31	30	35	A	39	41	41	40	39	39	38	37	35	32.6	44.6																							
15-Mar	34	33	33	32	32	32	32	30	29	30	31	33	34	A	34	34	35	35	34	32	33	32	32	31	32.4	34.9																							
16-Mar	31	28	26	24	23	23	21	19	23	24	25	25	26	27	29	30	30	27	20	15	9	7	15	20	22.8	31.1																							
17-Mar	23	24	23	25	24	A	19	21	25	27	28	29	30	31	31	35	34	32	24	22	24	22	25	22	26.1	34.7																							
18-Mar	26	19	13	13	A	2	1	2	16	22	23	22	24	C	C	A	32	30	8	21	29	24	6	15	17.4	31.8																							
19-Mar	20	36	39	37	42	A	36	14	24	32	40	45	46	48	51	49	49	46	36	14	15	41	43	44	36.9	50.8																							
20-Mar	43	43	45	45	A	42	37	36	36	36	38	38	41	44	44	45	45	48	46	46	46	47	39	43	38	41.9	47.5																						
21-Mar	35	32	31	A	22	9	1	4	14	26	29	29	27	33	41	39	41	38	38	38	39	41	42	43	30.1	42.6																							
22-Mar	43	43	A	41	39	37	36	36	34	34	33	33	35	37	37	37	37	36	33	28	21	5	7	13	31.9	43.5																							
23-Mar	18	A	22	19	18	26	20	22	31	33	33	34	36	37	37	41	40	40	35	32	36	43	43	39	32.0	43.3																							
24-Mar	A	38	40	40	38	35	30	24	33	32	36	36	41	41	36	42	42	44	40	35	29	27	34	36	36.1	44.4																							
25-Mar	37	30	26	27	27	A	27	28	29	29	29	29	29	30	31	32	32	32	31	26	10	8	1	6	25.5	37.3																							
26-Mar	10	10	13	18	A	7	4	8	14	16	22	21	23	25	27	30	26	13	6	15	56	54	48	42	22.1	56.1																							
27-Mar	35	49	49	A	46	46	44	42	44	46	46	46	46	46	45	45	44	44	44	42	42	44	45	45	44.7	49.2																							
28-Mar	45	43	A	39	39	35	29	31	36	40	42	44	44	45	45	44	43	42	41	34	30	29	36	34	38.7	44.8																							
29-Mar	32	A	20	23	23	24	21	29	31	32	37	38	43	46	49	49	50	48	43	34	35	26	25	27	34.1	49.5																							
30-Mar	A	29	28	29	9	8	7	11	24	28	41	44	46	44	41	43	42	42	37	33	40	42	38	A	32.1	45.7																							
31-Mar	42	41	39	34	27	14	8	19	34	42	45	49	51	52	51	52	51	51	52	46	35	18	A	28	38.4	51.8																							
																								26.3	27.9	25.3	24.4	23.3	19.3	17.9	18.5	23.5	26.7	30.1	33.0	34.7	36.8	37.2	37.2	37.5	35.1	30.5	27.4	26.7	25.7	25.4	27.1	Diurnal Average	
																								44.6	48.6	49.2	44.6	46.4	46.3	44.2	42.5	44.4	45.9	46.4	48.9	51.4	51.8	50.8	51.7	51.4	51.2	51.7	45.7	56.1	54.1	47.5	45.5	Diurnal Maximum	

C - Calibration A - Automated Daily Zero Span
 Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 82 ppb 24-hr na

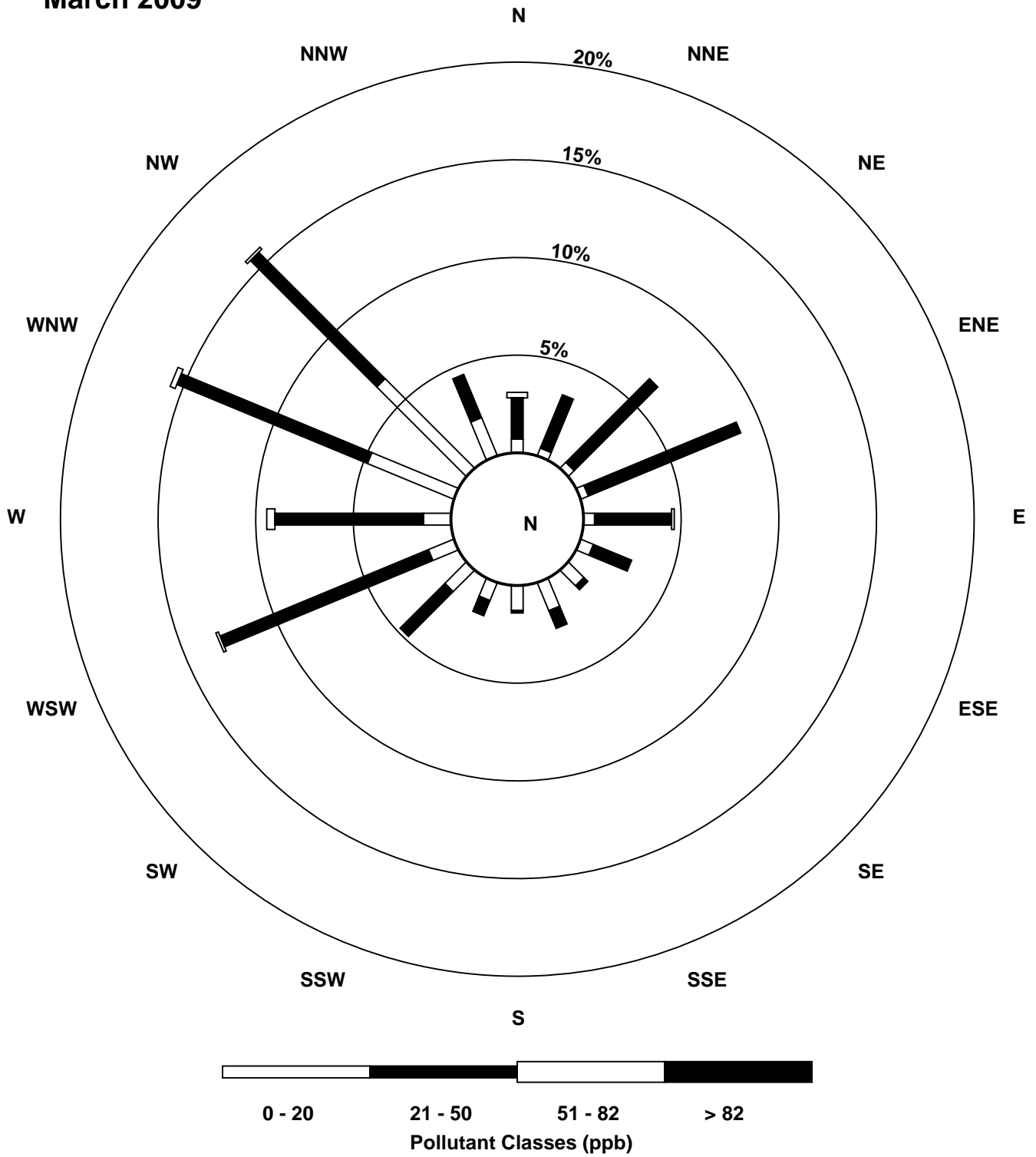
Hourly Averages for O₃ at Henry Pirker March 2009



Hourly Maximums for O₃ at Henry Pirker March 2009



Pollutant Rose for O₃ at Henry Pirker March 2009



**Peace Airshed Zone Association
Summary of Eight Hour Running Averages**

**Henry Pirker - Ozone (O₃) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedences (AAAQO): 8-hr: 0 Maximum Value: 51.1 ppb on Mar 31 19:00	Hours in Service: 744 Hours of Data: 738 Hours of Missing Data: 6 Hours of Calibration: 6 Percent Operational Time: 100.0
Minimum Value: 2.2 ppb on Mar 3 05:00	
Percentiles: P ₁ = 3.0 P ₁₀ = 9.9 Q ₁ = 19.6 Median = 30.0 Q ₃ = 38.0 P ₉₀ = 41.7 P ₉₉ = 46.8	

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-Mar	16	15	16	17	17	18	17	15	15	14	13	13	15	17	20	23	25	28	29	29	27	23	19	16	29.0
2-Mar	12	10	8	5	5	6	6	6	6	6	6	8	10	13	16	19	22	25	26	25	22	19	15	12	25.5
3-Mar	9	6	4	2	2	3	3	3	3	4	6	9	13	16	20	24	28	29	29	25	21	17	13	11	29.3
4-Mar	8	6	6	7	7	7	7	6	5	5	4	5	8	12	16	19	24	28	32	34	36	36	38	39	39.0
5-Mar	39	40	40	41	41	40	39	36	35	34	33	33	33	34	35	37	39	39	36	32	28	23	18	15	40.8
6-Mar	10	6	4	4	3	3	3	3	3	4	6	9	12	15	18	21	23	24	22	21	23	25	25	27	26.8
7-Mar	28	30	32	30	30	29	31	32	32	34	37	40	41	42	42	41	41	41	41	41	40	40	40	40	41.8
8-Mar	40	40	40	40	40	40	40	40	41	41	41	41	41	42	42	42	42	42	41	40	40	38	37	35	42.3
9-Mar	34	33	32	30	28	26	22	19	17	16	16	17	19	21	25	28	30	31	31	31	28	24	19	15	34.4
10-Mar	13	11	10	10	10	10	10	10	9	9	9	11	14	17	20	24	26	27	27	24	22	19	16	13	27.1
11-Mar	11	10	10	9	9	8	7	6	5	4	5	7	11	14	17	20	25	26	30	32	32	33	35	37	36.6
12-Mar	37	36	35	34	33	30	26	24	22	22	24	25	27	31	35	36	38	38	35	30	27	24	19	15	37.8
13-Mar	13	10	8	6	5	4	6	10	13	17	22	26	31	34	36	37	38	38	38	38	37	37	38	39	38.7
14-Mar	40	40	40	40	40	37	33	29	26	24	23	22	22	24	26	29	32	35	37	38	39	40	39	39	40.3
15-Mar	38	37	36	35	34	34	33	32	32	31	31	31	31	31	32	32	33	34	34	34	34	34	33	33	37.9
16-Mar	32	32	31	30	28	27	26	24	23	23	23	23	24	25	26	27	27	27	26	23	21	19	18	18	32.4
17-Mar	17	17	17	18	20	22	23	23	23	23	24	25	26	26	28	29	31	31	31	30	29	28	27	26	31.3
18-Mar	25	23	22	21	20	17	14	11	9	10	11	13	14	16	18	N	N	N	N	N	N	24	21	20	24.6
19-Mar	19	20	24	26	27	28	32	32	33	32	32	33	34	36	37	42	45	47	46	43	39	38	37	36	46.9
20-Mar	35	35	36	40	43	43	42	41	40	39	39	38	38	38	39	40	41	43	44	45	46	45	45	44	45.6
21-Mar	43	41	39	38	34	30	24	19	16	15	15	17	17	20	25	30	33	35	36	37	38	40	40	40	42.8
22-Mar	40	41	41	42	42	41	40	39	38	37	36	35	35	35	35	35	35	35	35	35	33	29	25	22	41.8
23-Mar	20	18	16	15	15	18	20	21	23	24	25	27	29	30	33	35	36	37	38	37	37	38	39	39	38.9
24-Mar	38	38	39	40	40	39	37	35	35	34	34	33	33	34	35	37	38	40	40	40	39	37	37	36	40.3
25-Mar	35	33	32	31	31	31	30	29	28	28	28	28	29	29	29	30	30	31	31	30	28	25	21	18	35.3
26-Mar	15	13	10	9	9	9	10	10	11	12	13	13	15	17	20	22	24	23	21	21	25	28	31	32	32.3
27-Mar	33	38	43	47	46	45	44	45	46	46	45	45	45	45	45	46	46	45	45	44	44	44	44	44	47.4
28-Mar	44	44	44	43	43	42	39	37	36	36	37	37	38	39	41	42	43	44	43	42	40	38	37	36	43.9
29-Mar	35	34	31	29	28	27	25	25	24	25	27	29	32	35	38	41	43	45	46	45	44	42	39	36	45.7
30-Mar	34	31	29	28	25	22	20	17	18	18	20	22	26	31	35	39	41	43	42	41	40	40	40	39	42.7
31-Mar	39	39	40	40	38	34	30	28	27	27	28	30	33	38	43	47	49	50	51	51	49	44	43	40	51.1
43.9 43.7 43.7 47.4 46.0 44.9 44.4 44.5 45.9 45.5 45.1 45.3 45.2 45.2 45.4 47.0 49.2 50.3 51.1 50.7 48.6 45.0 44.9 44.0																									
Diurnal Maximums																									

N - Not Valid
Alberta Ambient Air Quality Objectives (AAAQO): 8-hr 65 ppb

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

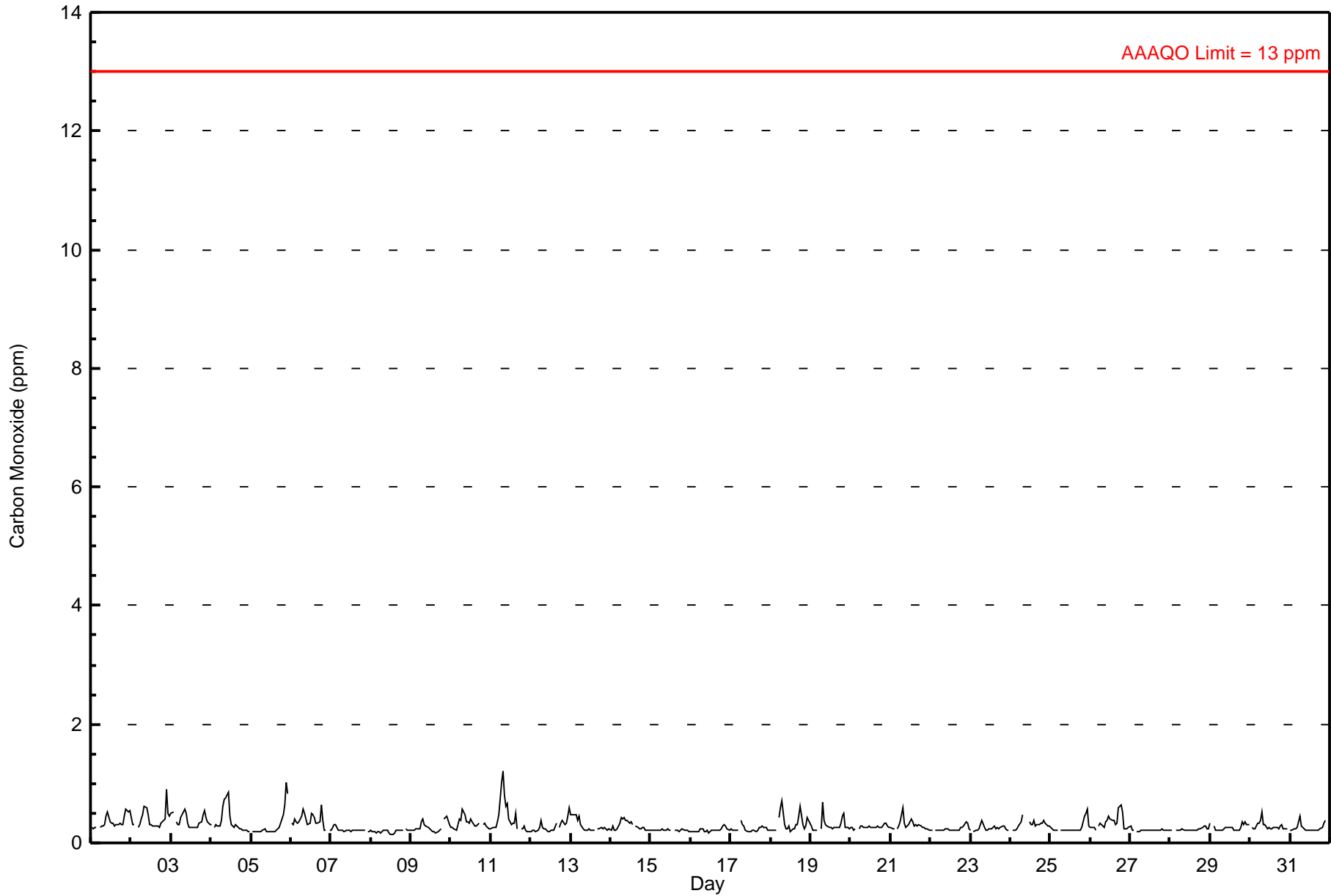
**Henry Pirker - Carbon Monoxide (CO) - ppm
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 1.22 ppm on Mar 11 08:00	Maximum Daily Average: 0.42 ppm on Mar 11
Minimum Value: 0.2 ppm on Mar 8 14:00	Hours of Data: 709
Maximum Diurnal Average: 0.39 ppm at hour 8	Hours of Missing Data: 35
Monthly Average: 0.289 ppm	Hours of Calibration: 35
Minimum Daily Average: 0.20 ppm on Mar 8	Percent Operational Time: 100.0
Minimum Diurnal Average: 0.24 ppm at hour 4	
Percentiles: P ₁ = 0.17 P ₁₀ = 0.20 Q ₁ = 0.21 Median = 0.25 Q ₃ = 0.32 P ₉₀ = 0.44 P ₉₉ = 0.78	

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-Mar	0.3	0.2	0.3	0.3	A	0.3	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.5	0.6	0.35	0.58
2-Mar	0.4	0.3	0.3	A	0.3	0.3	0.4	0.5	0.6	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.9	0.5	0.4	0.40	0.89
3-Mar	0.5	0.5	A	0.4	0.3	0.3	0.4	0.5	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.4	0.4	0.3	0.38	0.56
4-Mar	0.3	A	0.3	0.3	0.3	0.3	0.4	0.6	0.7	0.8	0.9	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.35	0.85
5-Mar	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.6	1.0	0.8	A	0.31	1.02
6-Mar	0.3	0.3	0.4	0.4	0.3	0.4	0.5	0.6	0.5	0.4	0.3	0.3	0.5	0.5	0.4	0.3	0.3	0.4	0.6	0.4	0.2	0.2	A	0.2	0.38	0.65
7-Mar	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.22	0.30
8-Mar	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	0.2	0.2	0.2	0.20	0.23
9-Mar	0.2	0.2	0.2	0.2	0.2	0.2	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	A	0.4	0.5	0.4	0.3	0.27	0.46
10-Mar	0.3	0.3	0.2	0.2	0.3	0.4	0.4	0.6	0.5	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	A	0.3	0.3	0.3	0.3	0.2	0.33	0.57
11-Mar	0.2	0.3	0.3	0.3	0.4	0.5	1.0	1.2	0.8	0.6	0.7	0.4	0.3	0.3	0.3	0.5	0.2	A	0.2	0.2	0.3	0.2	0.2	0.2	0.42	1.22
12-Mar	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.3	0.3	0.4	0.3	0.3	0.4	0.6	0.28	0.60
13-Mar	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	A	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.29	0.47
14-Mar	0.2	0.3	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.3	A	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.29	0.42
15-Mar	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.24
16-Mar	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	0.2	0.2	0.22	0.30
17-Mar	0.2	0.2	0.2	0.2	0.2	A	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.24	0.39
18-Mar	0.2	0.2	0.2	0.2	A	0.4	0.6	0.7	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.4	0.6	0.3	0.2	0.3	0.4	0.4	0.33	0.70
19-Mar	0.3	0.2	0.2	0.2	0.2	A	0.2	0.7	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.30	0.69
20-Mar	0.3	0.3	0.2	0.2	A	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	0.27	0.33
21-Mar	0.3	0.2	0.2	A	0.2	0.3	0.4	0.6	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.30	0.60
22-Mar	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	0.3	0.3	0.3	0.3	0.2	0.23	0.35
23-Mar	0.2	A	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.25	0.39
24-Mar	A	0.2	0.2	0.2	0.2	0.3	0.4	0.5	C	C	A	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.31	0.47
25-Mar	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	0.3	0.5	0.5	0.6	0.3	0.26	0.57
26-Mar	0.3	0.3	0.3	0.2	A	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.3	0.3	0.6	0.6	0.5	0.2	0.2	0.2	0.3	0.34	0.64
27-Mar	0.3	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	0.21	0.28
28-Mar	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	0.3	0.3	0.3	0.2	0.2	0.23	0.28
29-Mar	0.3	A	0.3	0.2	0.2	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	0.3	0.3	0.3	0.3	0.3	0.26	0.35
30-Mar	A	0.3	0.2	0.2	0.3	0.3	0.4	0.5	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	A	0.28	0.52
31-Mar	0.2	0.2	0.2	0.2	0.3	0.3	0.5	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	0.3	0.4	A	0.3	0.26	0.46
	0.27	0.25	0.24	0.24	0.25	0.28	0.34	0.39	0.33	0.31	0.30	0.27	0.26	0.26	0.25	0.26	0.25	0.27	0.30	0.31	0.32	0.34	0.31	0.27		Diurnal Average
	0.49	0.52	0.47	0.47	0.38	0.47	1.02	1.22	0.80	0.75	0.85	0.45	0.49	0.48	0.42	0.49	0.34	0.60	0.65	0.53	0.65	1.02	0.83	0.60		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 March 2009



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

**Henry Pirker - Carbon Monoxide (CO) - ppm
March 1, 2009 to April 1, 2009**

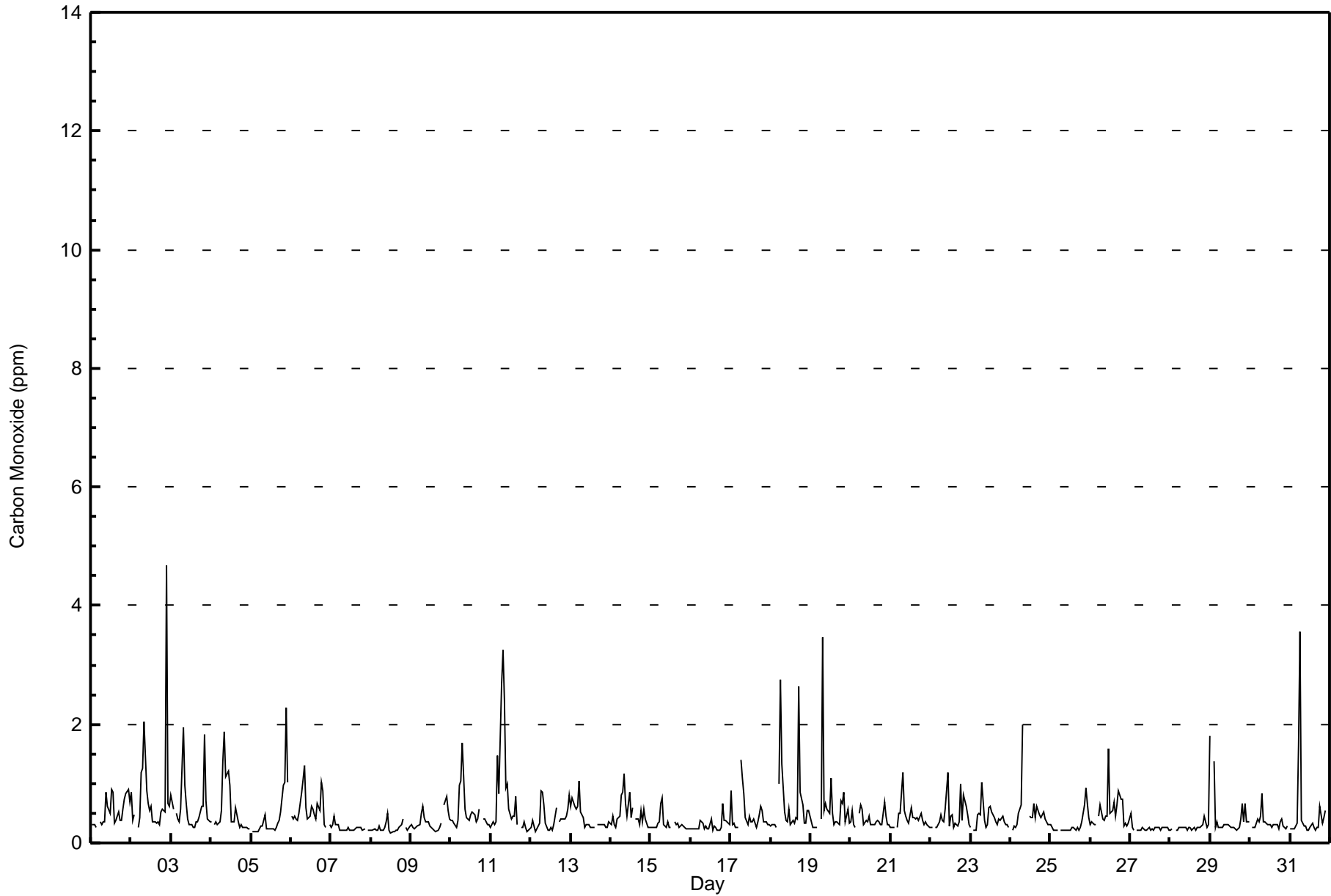
Maximum Value: 4.67 ppm on Mar 2 22:00	Maximum Daily Average: 0.82 ppm on Mar 2	Hours in Service: 744
Minimum Value: 0.2 ppm on Mar 8 13:00	Minimum Daily Average: 0.25 ppm on Mar 7	Hours of Data: 709
Maximum Diurnal Average: 0.94 ppm at hour 8	Minimum Diurnal Average: 0.28 ppm at hour 4	Hours of Missing Data: 35
Monthly Average: 0.460 ppm	Percentiles: P ₁ = 0.20 P ₁₀ = 0.22 Q ₁ = 0.26 Median = 0.35 Q ₃ = 0.49 P ₉₀ = 0.81 P ₉₉ = 2.63	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-Mar	0.3	0.3	0.3	0.3	A	0.4	0.3	0.4	0.4	0.8	0.6	0.5	0.9	0.9	0.3	0.4	0.5	0.4	0.4	0.6	0.7	0.8	0.9	0.7	0.52	0.90																							
2-Mar	0.9	0.4	0.5	A	0.3	0.4	1.2	1.3	2.0	0.9	0.7	0.6	0.6	0.4	0.4	0.3	0.4	0.3	0.5	0.6	0.5	4.7	0.7	0.6	0.82	4.67																							
3-Mar	0.8	0.6	A	0.5	0.4	0.4	0.6	1.9	1.0	0.7	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.6	0.6	1.8	0.7	0.4	0.4	0.61	1.94																							
4-Mar	0.4	A	0.3	0.4	0.3	0.4	0.6	1.4	1.9	1.1	1.2	1.0	0.4	0.4	0.4	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.54	1.87																							
5-Mar	A	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	1.0	1.0	2.3	1.0	A	0.46	2.27																							
6-Mar	0.5	0.4	0.5	0.4	0.4	0.5	0.9	1.1	1.3	0.6	0.4	0.5	0.6	0.6	0.5	0.4	0.7	0.5	1.0	0.9	0.3	0.3	A	0.3	0.58	1.31																							
7-Mar	0.3	0.3	0.5	0.3	0.3	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	0.2	0.2	A	0.2	0.2	0.25	0.46																							
8-Mar	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	A	0.3	0.2	0.3	0.25	0.51																							
9-Mar	0.3	0.3	0.2	0.3	0.3	0.3	0.5	0.6	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.3	A	0.6	0.8	0.5	0.4	0.36	0.79																								
10-Mar	0.4	0.4	0.3	0.3	0.4	1.0	1.0	1.7	0.6	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.6	A	0.4	0.4	0.3	0.3	0.3	0.51	1.68																							
11-Mar	0.3	0.4	0.3	0.3	1.5	0.8	2.7	3.3	2.4	0.9	1.0	0.6	0.4	0.5	0.5	0.8	0.3	A	0.3	0.3	0.4	0.2	0.2	0.2	0.80	3.26																							
12-Mar	0.3	0.4	0.3	0.2	0.3	0.3	0.9	0.9	0.6	0.3	0.2	0.2	0.3	0.2	0.3	0.6	A	0.4	0.4	0.4	0.4	0.5	0.6	0.8	0.42	0.87																							
13-Mar	0.6	0.8	0.6	0.6	0.6	1.0	0.5	0.4	0.3	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	0.4	0.41	1.03																							
14-Mar	0.3	0.5	0.3	0.3	0.4	0.5	0.8	0.9	1.2	0.7	0.5	0.9	0.4	0.6	A	0.4	0.4	0.3	0.5	0.4	0.6	0.4	0.3	0.3	0.50	1.16																							
15-Mar	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.8	0.3	0.3	0.4	0.3	0.3	A	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.32	0.76																							
16-Mar	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.2	0.3	0.2	0.2	0.4	0.2	0.3	0.3	0.2	0.2	0.3	0.7	0.4	0.4	0.4	0.3	0.29	0.66																							
17-Mar	0.9	0.3	0.3	0.3	0.3	A	1.4	1.1	0.8	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.5	0.6	0.5	0.4	0.4	0.3	0.3	0.49	1.41																							
18-Mar	0.3	0.3	0.3	0.3	A	1.0	2.7	1.3	0.5	0.4	0.3	0.6	0.3	0.4	0.3	0.4	0.4	2.6	0.8	0.6	0.3	0.3	0.5	0.5	0.69	2.75																							
19-Mar	0.3	0.3	0.3	0.3	0.3	A	0.4	3.5	0.6	0.7	0.6	0.5	1.1	0.5	0.3	0.4	0.4	0.3	0.7	0.7	0.8	0.3	0.6	0.3	0.61	3.47																							
20-Mar	0.4	0.5	0.3	0.3	A	0.5	0.6	0.6	0.3	0.4	0.4	0.5	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.7	0.5	0.3	0.3	0.40	0.69																							
21-Mar	0.3	0.3	0.3	A	0.3	0.5	0.5	1.2	0.5	0.5	0.4	0.3	0.6	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.42	1.18																							
22-Mar	0.3	0.3	A	0.2	0.2	0.3	0.5	0.4	0.4	0.6	1.2	0.3	0.5	0.5	0.3	0.3	0.3	0.3	1.0	0.4	0.8	0.6	0.5	0.3	0.45	1.19																							
23-Mar	0.3	A	0.2	0.2	0.5	0.5	0.5	1.0	0.4	0.3	0.3	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.4	0.5	0.4	0.3	0.3	0.3	0.41	1.01																							
24-Mar	A	0.2	0.3	0.3	0.3	0.5	0.7	2.0	C	C	A	0.4	0.4	0.4	0.7	0.4	0.6	0.5	0.4	0.5	0.5	0.4	0.3	0.3	0.51	2.00																							
25-Mar	0.3	0.3	0.2	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.4	0.6	0.9	0.7	0.4	0.31	0.92																							
26-Mar	0.3	0.4	0.3	0.3	A	0.5	0.6	0.4	0.4	0.5	0.5	1.6	0.5	0.6	0.7	0.4	0.6	0.9	0.7	0.7	0.3	0.3	0.3	0.3	0.53	1.58																							
27-Mar	0.5	0.3	0.2	A	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.25	0.51																							
28-Mar	0.2	0.2	A	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.26	0.45																							
29-Mar	1.8	A	1.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.7	0.4	0.7	0.4	0.4	0.44	1.79																							
30-Mar	A	0.3	0.3	0.3	0.4	0.4	0.5	0.8	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.4	0.3	0.2	0.3	A	0.34	0.84																						
31-Mar	0.2	0.2	0.2	0.3	0.3	1.6	3.6	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.6	0.3	0.4	0.5	A	0.4	0.51	3.56																							
																								0.43	0.33	0.34	0.28	0.36	0.49	0.79	0.94	0.63	0.45	0.43	0.43	0.40	0.37	0.34	0.35	0.35	0.43	0.47	0.47	0.50	0.63	0.40	0.35	Diurnal Average	
																								1.79	0.76	1.38	0.56	1.48	1.64	3.56	3.47	2.39	1.11	1.20	1.58	1.10	0.86	0.68	0.78	0.68	2.64	1.02	0.97	1.82	4.67	1.02	0.81	Diurnal Maximum	

C - Calibration A - Automated Daily Zero Span

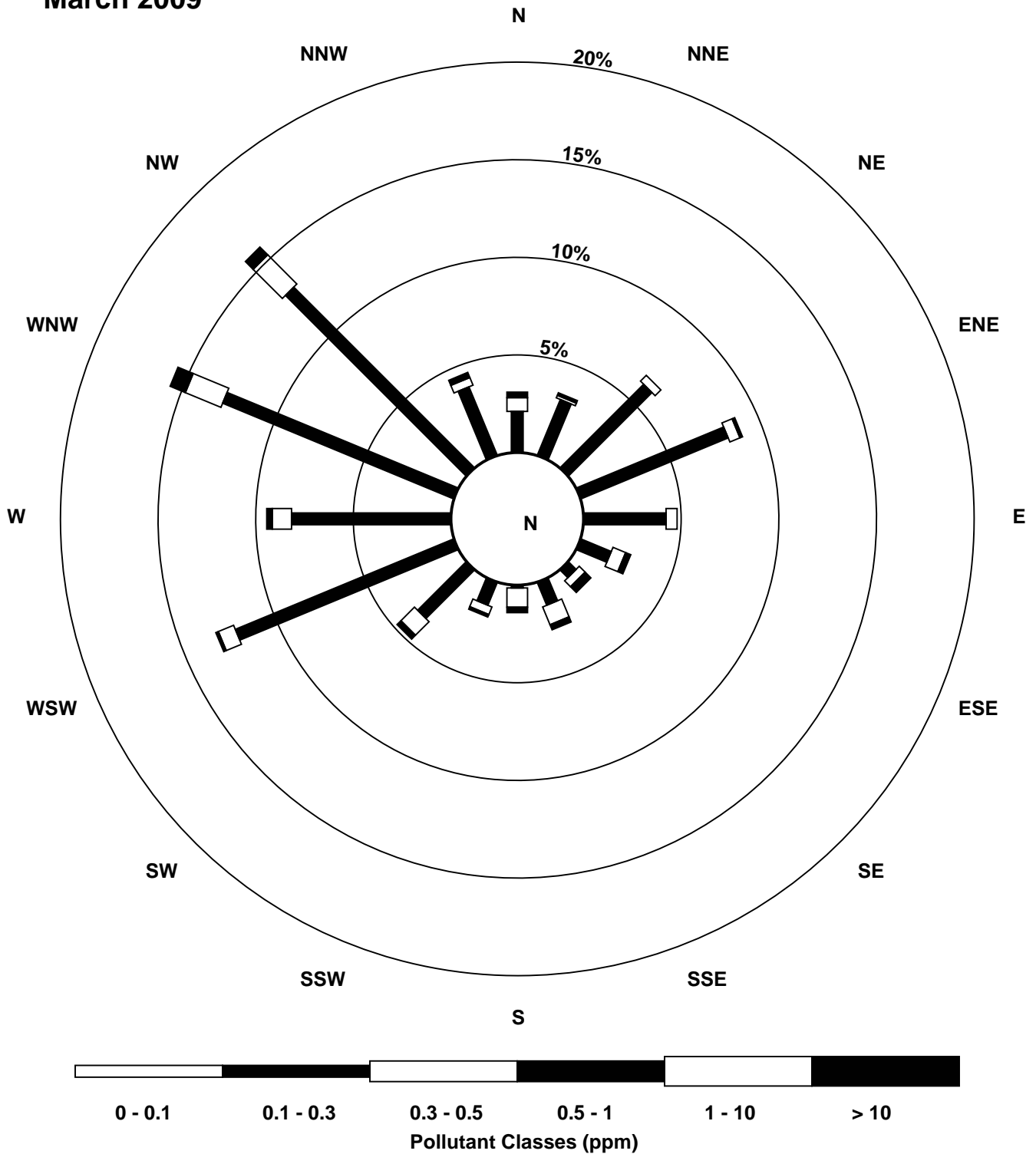
Hourly Maximums for CO at Henry Pirker

March 2009



Pollutant Rose for CO at Henry Pirker

March 2009



Peace Airshed Zone Association

Summary of Eight Hour Running Averages

Henry Pirker - Carbon Monoxide (CO) - ppm

March 1, 2009 to April 1, 2009

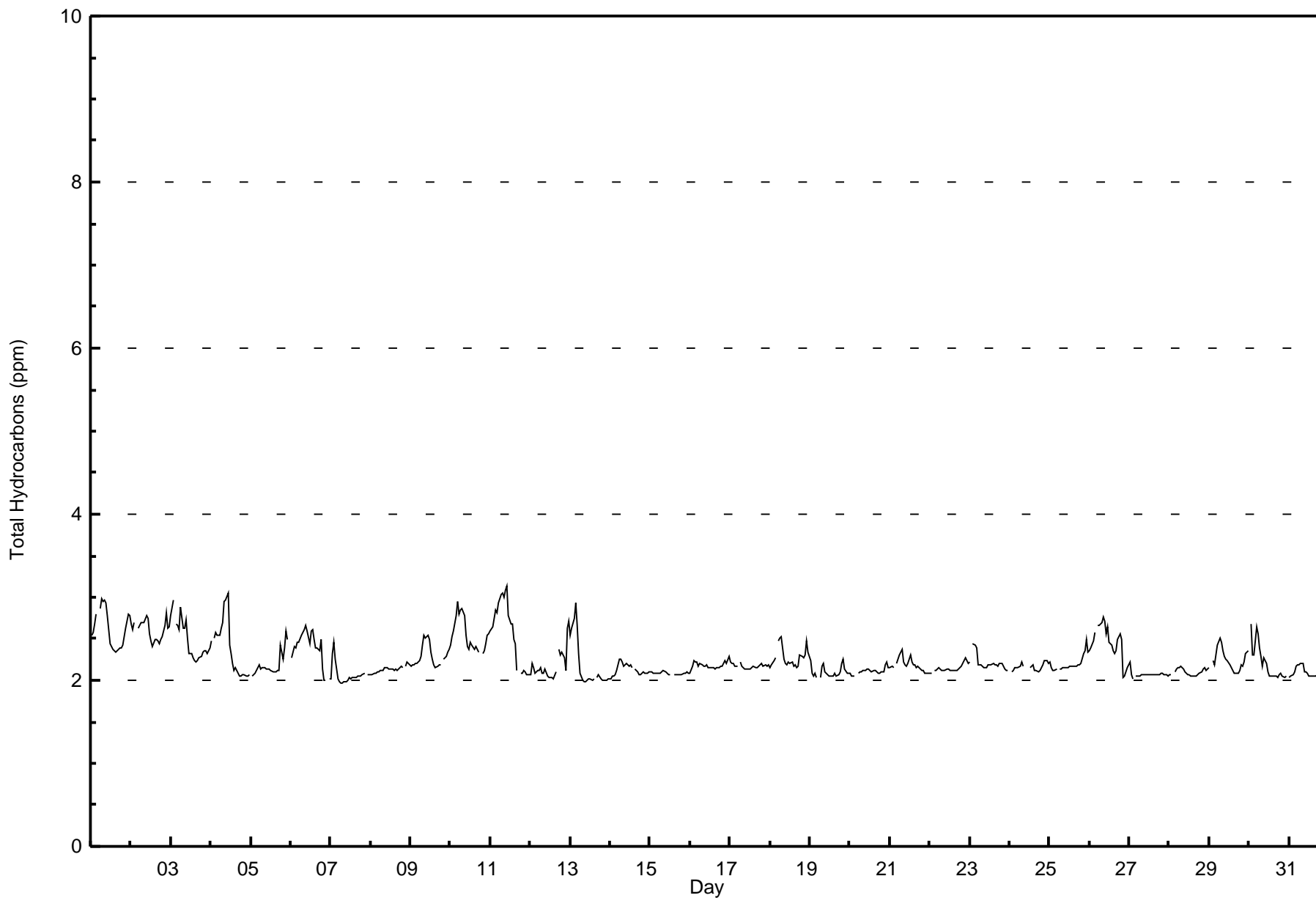
Number of Exceedences (AAAQO): 8-hr: 0																					Hours in Service:	744																									
Maximum Value: 0.70 ppm on Mar 11 12:00																					Hours of Data:	738																									
Minimum Value: 0.18 ppm on Mar 8 18:00																					Hours of Missing Data:	6																									
Percentiles: $P_1 = 0.19$ $P_{10} = 0.21$ $Q_1 = 0.22$ Median = 0.26 $Q_3 = 0.33$ $P_{90} = 0.41$ $P_{99} = 0.58$																					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-Mar	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	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.42																						
2-Mar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.45																						
3-Mar	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.51																						
4-Mar	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.55																						
5-Mar	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	0.4	0.5	0.5	0.55																						
6-Mar	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.58																						
7-Mar	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	0.2	0.32																						
8-Mar	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	0.21																						
9-Mar	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	0.2	0.2	0.3	0.3	0.3	0.31																						
10-Mar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.41																						
11-Mar	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.70																						
12-Mar	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	0.4	0.38																						
13-Mar	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.47																						
14-Mar	0.2	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	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.38																						
15-Mar	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	0.23																						
16-Mar	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	0.25																						
17-Mar	0.3	0.3	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	0.2	0.2	0.26																						
18-Mar	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.40																						
19-Mar	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	0.3	0.3	0.38																						
20-Mar	0.3	0.3	0.3	0.3	0.2	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	0.32																						
21-Mar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.36																						
22-Mar	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	0.2	0.3	0.3	0.27																						
23-Mar	0.3	0.3	0.3	0.3	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	0.3	0.3	0.3	0.3	0.3	0.3	0.27																						
24-Mar	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	N	N	N	N	N	N	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.33																						
25-Mar	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	0.3	0.3	0.3	0.34																						
26-Mar	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.45																						
27-Mar	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.38																						
28-Mar	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	0.3	0.25																						
29-Mar	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	0.3	0.3	0.3	0.3	0.29																						
30-Mar	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	0.33																						
31-Mar	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	0.2	0.2	0.2	0.3	0.3	0.3	0.28																						
																								0.56	0.57	0.58	0.56	0.52	0.47	0.45	0.51	0.58	0.63	0.68	0.70	0.69	0.67	0.58	0.49	0.43	0.41	0.44	0.45	0.43	0.43	0.50	0.55
																								Diurnal Maximums																							
N - Not Valid																																															
Alberta Ambient Air Quality Objectives (AAAQO): 8-hr 5 ppm																																															

Peace Airshed Zone Association Summary of Hourly Averages

Henry Pirker - Total Hydrocarbons (THC) - ppm March 1, 2009 to April 1, 2009

Maximum Value: 3.14 ppm on Mar 11 11:00 Maximum Daily Average: 2.62 ppm on Mar 1																							Hours in Service: 744 Hours of Data: 709			
Minimum Value: 2.0 ppm on Mar 7 07:00 Maximum Diurnal Average: 2.35 ppm at hour 6 Monthly Average: 2.251 ppm																							Hours of Missing Data: 35 Hours of Calibration: 35 Percent Operational Time: 100.0			
Minimum Daily Average: 2.07 ppm on Mar 7 Minimum Diurnal Average: 2.16 ppm at hour 17 Percentiles: P ₁ = 1.99 P ₁₀ = 2.05 Q ₁ = 2.09 Median = 2.17 Q ₃ = 2.35 P ₉₀ = 2.62 P ₉₉ = 2.97																										
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-Mar	2.5	2.6	2.7	2.8	A	2.9	3.0	3.0	3.0	2.9	2.8	2.4	2.4	2.4	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.6	2.8	2.8	2.62	2.98
2-Mar	2.7	2.6	2.7	A	2.6	2.7	2.7	2.7	2.7	2.8	2.7	2.6	2.5	2.4	2.5	2.5	2.5	2.4	2.5	2.5	2.7	2.8	2.6	2.6	2.61	2.81
3-Mar	2.8	3.0	A	2.7	2.7	2.6	2.9	2.6	2.6	2.7	2.5	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.3	2.4	2.48	2.96
4-Mar	2.5	A	2.5	2.6	2.5	2.5	2.6	2.7	2.9	3.0	3.0	2.4	2.3	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.37	3.04
5-Mar	A	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.3	2.4	2.6	2.5	A	2.19	2.60
6-Mar	2.3	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.7	2.6	2.4	2.6	2.6	2.5	2.4	2.4	2.4	2.5	2.1	2.0	2.0	A	2.0	2.40	2.66
7-Mar	2.0	2.3	2.5	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.07	2.46
8-Mar	2.1	2.1	2.1	2.1	2.1	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	2.2	2.2	A	2.2	2.2	2.2	2.13	2.22
9-Mar	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.5	2.5	2.5	2.5	2.3	2.3	2.2	2.2	2.2	2.2	2.2	A	2.2	2.3	2.3	2.4	2.29	2.54
10-Mar	2.4	2.5	2.6	2.8	3.0	2.8	2.8	2.9	2.8	2.5	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.3	A	2.3	2.4	2.4	2.5	2.6	2.54	2.96
11-Mar	2.6	2.7	2.7	2.8	2.8	2.9	3.0	3.1	3.0	3.1	3.1	2.8	2.7	2.7	2.5	2.4	2.1	A	2.1	2.1	2.1	2.1	2.1	2.1	2.59	3.14
12-Mar	2.1	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.1	A	2.4	2.3	2.3	2.3	2.1	2.6	2.7	2.18	2.71
13-Mar	2.5	2.6	2.7	2.9	2.7	2.3	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.18	2.94
14-Mar	2.0	2.1	2.1	2.1	2.1	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.13	2.26
15-Mar	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.09	2.11
16-Mar	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.18	2.29
17-Mar	2.2	2.2	2.2	2.2	2.2	A	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.17	2.22
18-Mar	2.2	2.2	2.2	2.3	A	2.5	2.5	2.5	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.5	2.3	2.28	2.53
19-Mar	2.2	2.1	2.1	2.1	2.0	A	2.0	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.1	2.1	2.1	2.10	2.26
20-Mar	2.1	2.1	2.0	2.1	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.11	2.23
21-Mar	2.1	2.2	2.2	A	2.2	2.3	2.3	2.4	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.1	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.18	2.38
22-Mar	2.1	2.1	A	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.2	2.2	2.14	2.28
23-Mar	2.2	A	2.4	2.4	2.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.20	2.44
24-Mar	A	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	C	C	C	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.16	2.24
25-Mar	2.2	2.2	2.1	2.1	2.1	A	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.5	2.3	2.20	2.50
26-Mar	2.4	2.4	2.5	2.6	A	2.7	2.7	2.7	2.8	2.7	2.6	2.6	2.5	2.4	2.3	2.3	2.4	2.5	2.6	2.5	2.0	2.1	2.1	2.2	2.45	2.76
27-Mar	2.2	2.1	2.0	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.07	2.22
28-Mar	2.1	2.1	A	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.10	2.17
29-Mar	2.2	A	2.2	2.2	2.3	2.4	2.5	2.5	2.4	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.3	2.4	2.4	2.24	2.50
30-Mar	A	2.7	2.3	2.3	2.6	2.6	2.4	2.3	2.2	2.3	2.2	2.1	2.1	2.1	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.0	2.1	A	2.20	2.68
31-Mar	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.2	A	2.2	2.11	2.20
	2.25	2.28	2.29	2.31	2.30	2.35	2.34	2.34	2.33	2.33	2.30	2.23	2.21	2.20	2.18	2.18	2.16	2.17	2.19	2.19	2.20	2.22	2.25	2.24	Diurnal Average	
	2.77	2.96	2.74	2.94	2.96	2.93	3.03	3.06	3.00	3.08	3.14	2.78	2.68	2.68	2.49	2.50	2.47	2.50	2.56	2.53	2.65	2.81	2.80	2.78	Diurnal Maximum	
C - Calibration A - Automated Daily Zero Span																										

Hourly Averages for THC at Henry Pirker March 2009

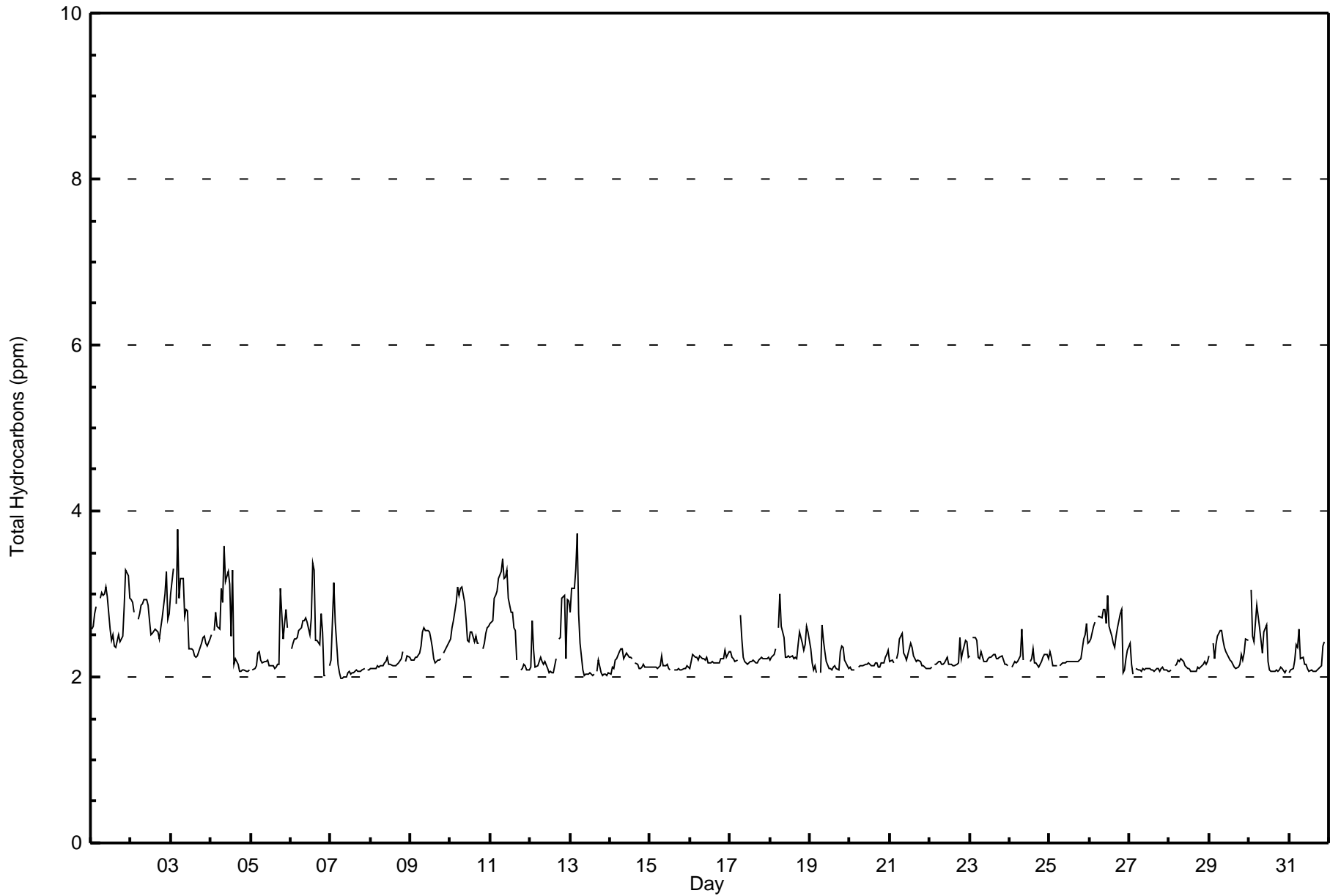


**Peace Airshed Zone Association
Summary of Hourly Maximums**

**Henry Pirker - Total Hydrocarbons (THC) - ppm
March 1, 2009 to April 1, 2009**

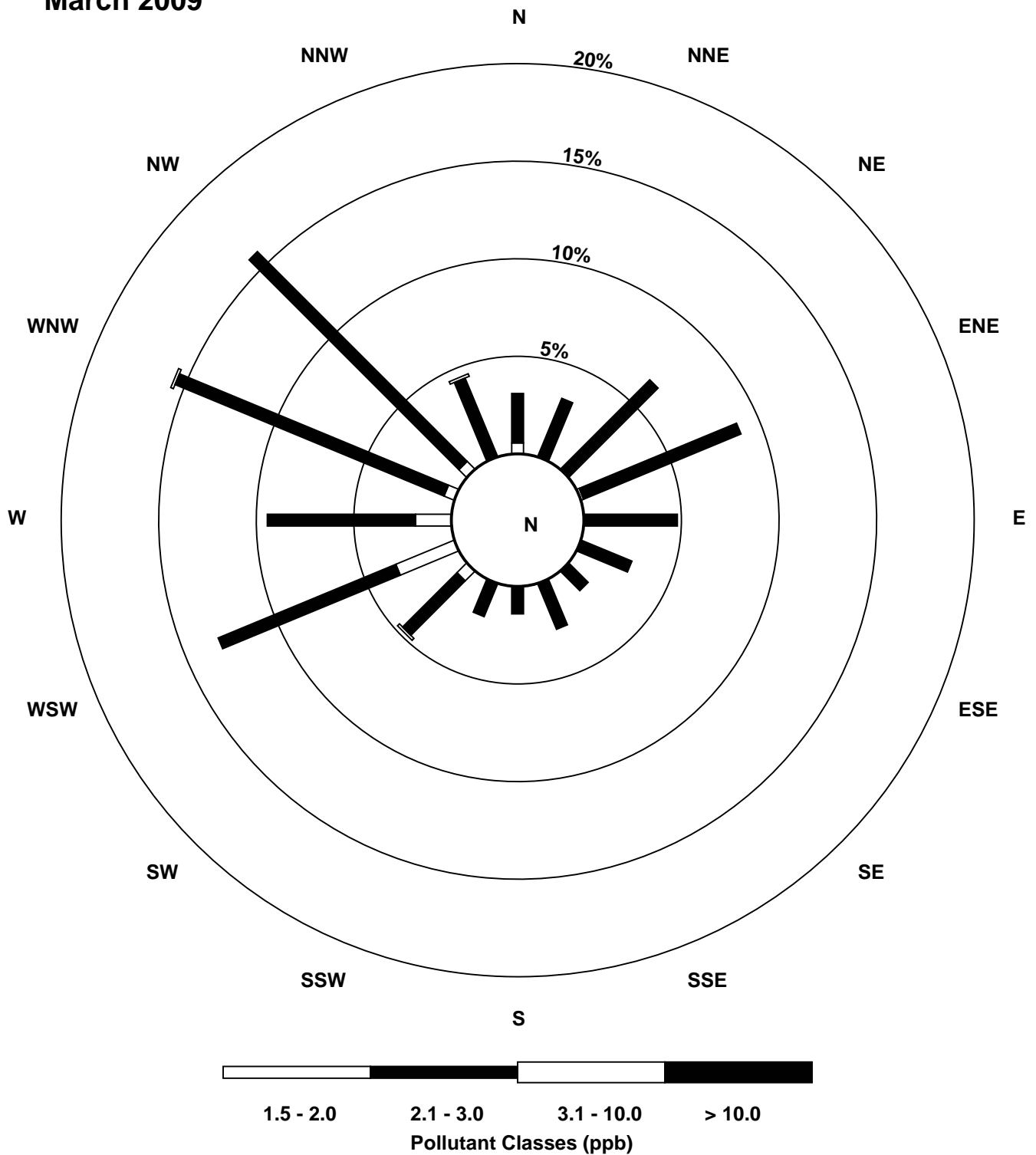
Maximum Value: 3.78 ppm on Mar 3 05:00		Maximum Daily Average: 2.76 ppm on Mar 2																				Hours in Service: 744				
Minimum Value: 2.0 ppm on Mar 7 08:00		Minimum Daily Average: 2.10 ppm on Mar 27																				Hours of Data: 709				
Maximum Diurnal Average: 2.49 ppm at hour 7		Minimum Diurnal Average: 2.20 ppm at hour 17																				Hours of Missing Data: 35				
Monthly Average: 2.340 ppm		Percentiles: P ₁ = 2.02 P ₁₀ = 2.08 Q ₁ = 2.13 Median = 2.22 Q ₃ = 2.46 P ₉₀ = 2.80 P ₉₉ = 3.30																				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-Mar	2.6	2.6	2.8	2.8	A	3.0	3.0	3.0	3.0	3.1	3.0	2.6	2.4	2.5	2.4	2.4	2.5	2.4	2.5	2.5	2.8	3.3	3.2	3.0	2.75	3.29
2-Mar	2.9	2.9	2.8	A	2.7	2.8	2.9	2.9	2.9	2.9	2.9	2.7	2.5	2.5	2.6	2.6	2.5	2.5	2.6	2.7	3.0	3.3	2.7	2.8	2.76	3.26
3-Mar	3.0	3.3	A	2.9	3.8	2.9	3.2	3.2	2.7	2.8	2.8	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.4	2.5	2.5	2.4	2.4	2.5	2.67	3.78
4-Mar	2.5	A	2.6	2.8	2.6	2.6	3.1	2.9	3.6	3.2	3.3	3.1	2.5	3.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.56	3.57
5-Mar	A	2.1	2.1	2.1	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	3.1	2.5	2.6	2.8	2.6	A	2.29	3.06
6-Mar	2.3	2.4	2.5	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.7	2.5	2.7	3.4	3.3	2.4	2.4	2.4	2.8	2.5	2.0	2.0	A	2.1	2.55	3.38
7-Mar	2.2	2.7	3.1	2.7	2.2	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.16	3.14
8-Mar	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.3	A	2.2	2.3	2.2	2.16	2.30
9-Mar	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.5	2.6	2.6	2.6	2.5	2.5	2.3	2.2	2.2	2.2	2.2	2.2	A	2.3	2.4	2.4	2.4	2.34	2.59
10-Mar	2.5	2.6	2.7	2.9	3.1	3.0	3.1	3.1	2.9	2.7	2.4	2.4	2.5	2.5	2.4	2.5	2.4	2.4	A	2.3	2.4	2.5	2.6	2.6	2.63	3.09
11-Mar	2.6	2.7	2.9	3.0	3.0	3.2	3.3	3.4	3.2	3.2	3.3	2.9	2.8	2.8	2.6	2.6	2.2	A	2.1	2.1	2.2	2.1	2.1	2.1	2.71	3.42
12-Mar	2.1	2.7	2.3	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.0	2.1	2.0	2.0	2.2	A	2.5	2.5	3.0	3.0	2.2	2.9	2.9	2.34	2.98
13-Mar	2.8	3.1	3.1	3.3	3.7	2.8	2.4	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.1	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.34	3.73
14-Mar	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.2	2.3	2.3	2.2	2.2	2.2	A	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.19	2.34
15-Mar	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.1	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.12	2.26
16-Mar	2.1	2.3	2.3	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.3	2.22	2.32
17-Mar	2.3	2.2	2.2	2.2	2.2	A	2.7	2.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.24	2.75
18-Mar	2.2	2.2	2.3	2.3	A	2.6	3.0	2.6	2.5	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.4	2.5	2.4	2.3	2.4	2.6	2.5	2.38	3.01
19-Mar	2.3	2.2	2.1	2.1	2.1	A	2.1	2.6	2.4	2.3	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.4	2.3	2.2	2.1	2.1	2.20	2.63
20-Mar	2.1	2.1	2.1	2.1	A	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.15	2.32
21-Mar	2.2	2.2	2.2	A	2.2	2.3	2.5	2.5	2.3	2.3	2.2	2.3	2.4	2.4	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.24	2.53
22-Mar	2.1	2.1	A	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.2	2.5	2.2	2.3	2.4	2.4	2.2	2.21	2.47
23-Mar	2.3	A	2.5	2.5	2.4	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.1	2.25	2.47
24-Mar	A	2.1	2.2	2.2	2.2	2.2	2.3	2.6	2.2	C	C	C	2.2	2.2	2.3	2.2	2.2	2.1	2.2	2.2	2.2	2.3	2.3	2.2	2.22	2.57
25-Mar	2.3	2.2	2.1	2.1	2.1	A	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.5	2.5	2.6	2.4	2.24	2.65
26-Mar	2.4	2.5	2.6	2.7	A	2.7	2.7	2.7	2.8	2.8	2.7	3.0	2.6	2.5	2.4	2.4	2.5	2.6	2.8	2.8	2.1	2.1	2.2	2.3	2.55	2.99
27-Mar	2.4	2.2	2.0	A	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.10	2.40
28-Mar	2.1	2.1	A	2.1	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.13	2.22
29-Mar	2.3	A	2.4	2.2	2.4	2.5	2.6	2.6	2.4	2.4	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.2	2.5	2.4	2.30	2.56
30-Mar	A	3.0	2.5	2.4	2.9	2.7	2.6	2.4	2.3	2.5	2.6	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.1	A	2.32	3.04
31-Mar	2.1	2.1	2.1	2.2	2.4	2.4	2.6	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.4	A	2.3	2.19	2.57
	2.33	2.39	2.39	2.40	2.45	2.45	2.49	2.48	2.42	2.40	2.39	2.31	2.26	2.31	2.24	2.22	2.20	2.21	2.29	2.29	2.30	2.32	2.33	2.31	Diurnal Average	
	3.00	3.31	3.14	3.30	3.78	3.18	3.28	3.42	3.57	3.20	3.29	3.12	2.79	3.38	3.29	2.56	2.54	2.59	3.06	2.95	3.01	3.29	3.22	2.96	Diurnal Maximum	
C - Calibration																								A - Automated Daily Zero Span		

Hourly Maximums for THC at Henry Pirker March 2009



Pollutant Rose for THC at Henry Pirker

March 2009



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

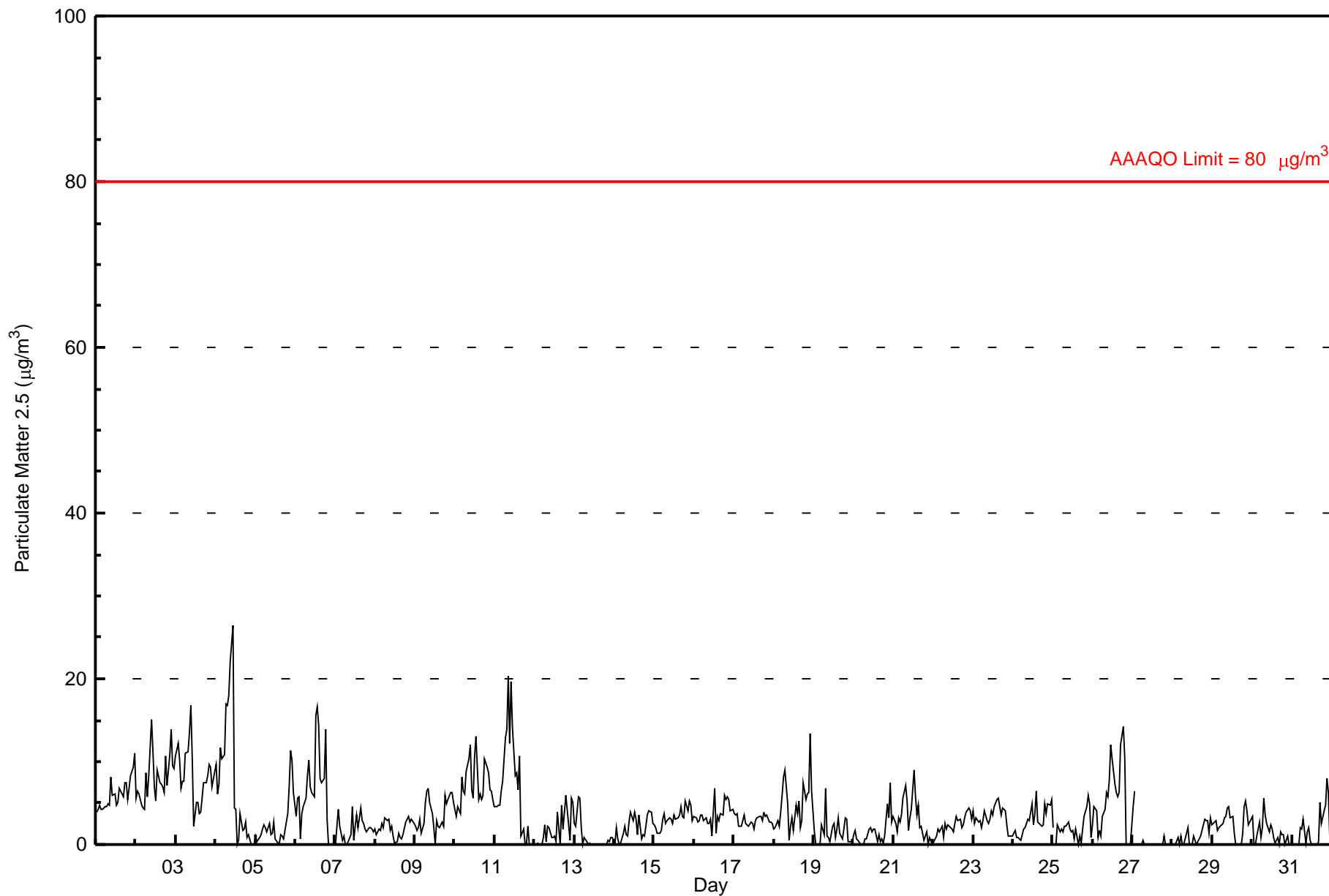
**Henry Pirker - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 26.4 µg/m ³ on Mar 4 11:00	Maximum Daily Average: 8.4 µg/m ³ on Mar 3
Minimum Value: 0 µg/m ³ on Mar 4 14:00	Hours of Data: 741
Maximum Diurnal Average: 4.7 µg/m ³ at hour 10	Hours of Missing Data: 3
Monthly Average: 3.52 µg/m ³	Hours of Calibration: 0
Minimum Daily Average: 0.5 µg/m ³ on Mar 27	Percent Operational Time: 99.6
Minimum Diurnal Average: 2.4 µg/m ³ at hour 4	
Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 1.0 Median = 2.6 Q ₃ = 4.9 P ₉₀ = 7.7 P ₉₉ = 16.8	

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-Mar	4	4	5	4	4	4	5	5	5	8	6	6	5	5	7	6	6	7	8	5	7	8	9	11	6.0	11.0
2-Mar	6	6	6	5	4	4	9	6	8	15	11	7	5	9	7	7	7	6	11	7	11	14	9	9	8.0	15.1
3-Mar	11	12	10	7	8	8	11	11	14	17	10	2	5	5	4	4	6	7	8	8	10	9	7	9	8.4	16.9
4-Mar	10	6	7	12	10	11	17	17	18	22	26	4	4	0	1	4	2	2	3	1	1	0	0	0	7.4	26.4
5-Mar	1	0	1	1	2	2	2	2	3	1	1	3	1	0	0	1	1	1	2	4	7	11	10	6	2.6	11.4
6-Mar	3	6	6	1	4	5	6	8	10	7	6	6	16	17	14	8	7	8	14	3	0	0	0	0	6.4	16.7
7-Mar	0	2	4	2	0	1	0	0	0	1	5	0	2	4	2	4	3	3	2	2	2	2	2	1	1.9	4.5
8-Mar	2	1	2	2	2	2	3	3	3	2	2	1	0	0	1	1	1	1	3	3	3	3	3	2	2.0	3.4
9-Mar	2	2	2	3	1	3	5	6	7	5	4	2	0	3	2	2	3	2	6	5	5	6	6	5	3.7	6.8
10-Mar	4	3	5	4	8	6	6	9	10	12	7	6	10	13	5	6	5	6	10	9	9	7	7	5	7.2	13.0
11-Mar	5	5	5	5	6	8	13	14	20	12	20	14	8	9	7	11	1	2	0	0	2	0	0	0	6.9	20.3
12-Mar	0	0	0	0	0	1	2	0	2	2	1	1	1	0	4	0	5	2	4	6	2	1	6	5	1.9	5.9
13-Mar	3	2	6	6	2	0	1	0	0	0	0	0	BD	0	0	0	0	0	0	0	0	0	1	1	1.0	5.8
14-Mar	0	2	1	0	0	1	2	1	1	3	4	3	4	3	1	4	1	1	1	2	4	4	4	3	2.1	4.1
15-Mar	2	2	1	1	2	3	4	3	3	3	3	3	3	3	3	4	5	3	3	5	4	5	5	3	3.2	5.3
16-Mar	3	3	3	3	4	4	3	3	3	3	3	1	7	1	3	3	4	4	6	5	6	5	4	4	3.6	6.8
17-Mar	4	4	4	2	2	3	4	3	2	2	3	3	2	3	3	3	3	3	4	3	4	3	3	3	3.0	3.9
18-Mar	2	2	3	2	4	6	8	9	5	0	2	3	2	5	4	5	2	3	7	5	6	6	13	6	4.7	13.3
19-Mar	1	0	0	0	0	2	1	7	1	1	0	2	3	1	2	3	1	1	2	3	3	0	0	0	1.5	6.8
20-Mar	1	2	1	1	0	0	0	1	1	2	2	2	2	2	0	1	0	1	0	1	5	3	7	3	1.5	7.5
21-Mar	3	3	1	3	3	4	6	7	5	2	3	4	9	6	4	5	2	2	1	1	2	0	1	0	3.1	9.0
22-Mar	0	1	1	2	2	2	1	3	2	2	2	2	1	3	3	3	3	2	2	3	4	4	4	3	2.3	4.3
23-Mar	4	3	3	3	3	2	3	4	3	2	3	4	4	5	5	6	5	4	4	4	2	1	1	1	3.2	5.5
24-Mar	1	2	1	1	1	0	2	2	3	3	3	5	2	4	6	3	3	2	2	5	4	5	5	5	2.9	6.4
25-Mar	2	BD	0	2	2	2	1	2	2	3	2	2	2	1	2	0	1	0	2	3	5	6	5	1	2.0	5.9
26-Mar	2	5	4	1	2	1	3	4	6	6	8	12	10	7	6	6	6	12	14	11	0	0	0	0	5.3	14.2
27-Mar	5	6	BD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.5	6.4
28-Mar	0	0	0	1	0	1	0	0	1	2	0	0	0	1	0	0	1	1	2	3	3	3	1	3	1.0	3.2
29-Mar	2	3	3	2	2	2	3	3	3	4	5	3	3	1	0	0	0	0	1	5	5	4	2	3	2.5	5.2
30-Mar	3	0	0	1	3	1	2	6	4	3	2	2	2	1	0	1	0	1	1	1	0	1	0	0	1.4	5.6
31-Mar	0	0	0	0	0	2	2	3	0	2	2	0	0	0	0	0	0	5	3	4	5	8	6	1	1.8	8.0
	2.8	2.9	2.8	2.4	2.6	2.9	4.0	4.6	4.7	4.7	4.7	3.3	3.8	3.6	3.2	3.2	2.6	3.0	4.0	3.9	3.9	3.9	3.9	3.1		Diurnal Average
	10.6	12.1	10.1	11.7	10.4	10.9	16.9	16.9	20.3	22.1	26.4	14.1	15.5	16.7	14.5	10.8	7.4	12.0	14.2	10.6	10.8	13.8	13.3	11.0		Diurnal Maximum

BD - Baseline Drift
 Alberta Ambient Air Quality Objectives (AAAO): 1-hr 80 µg/m³ 24-hr 30 µg/m³

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

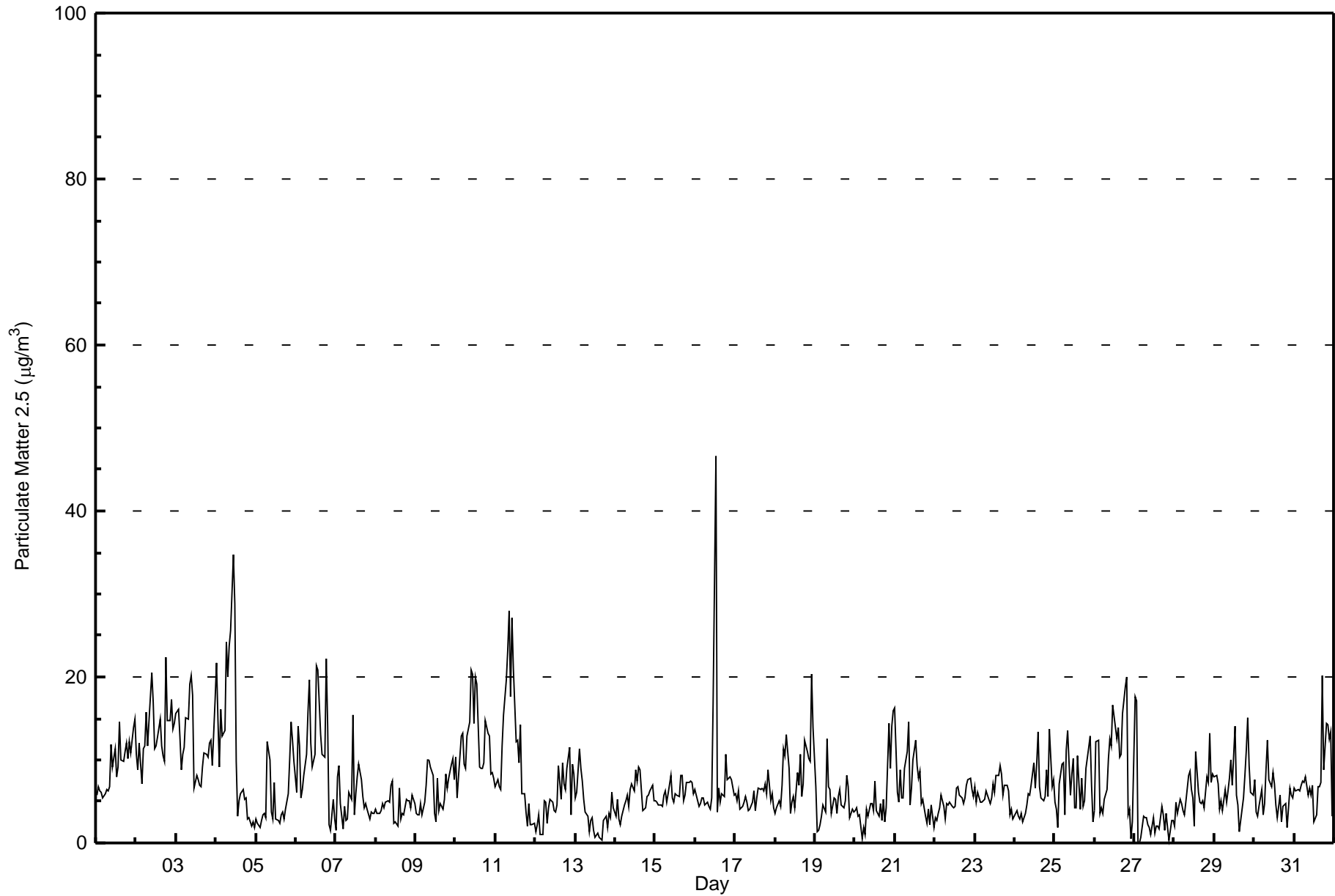


**Peace Airshed Zone Association
Summary of Hourly Maximums**

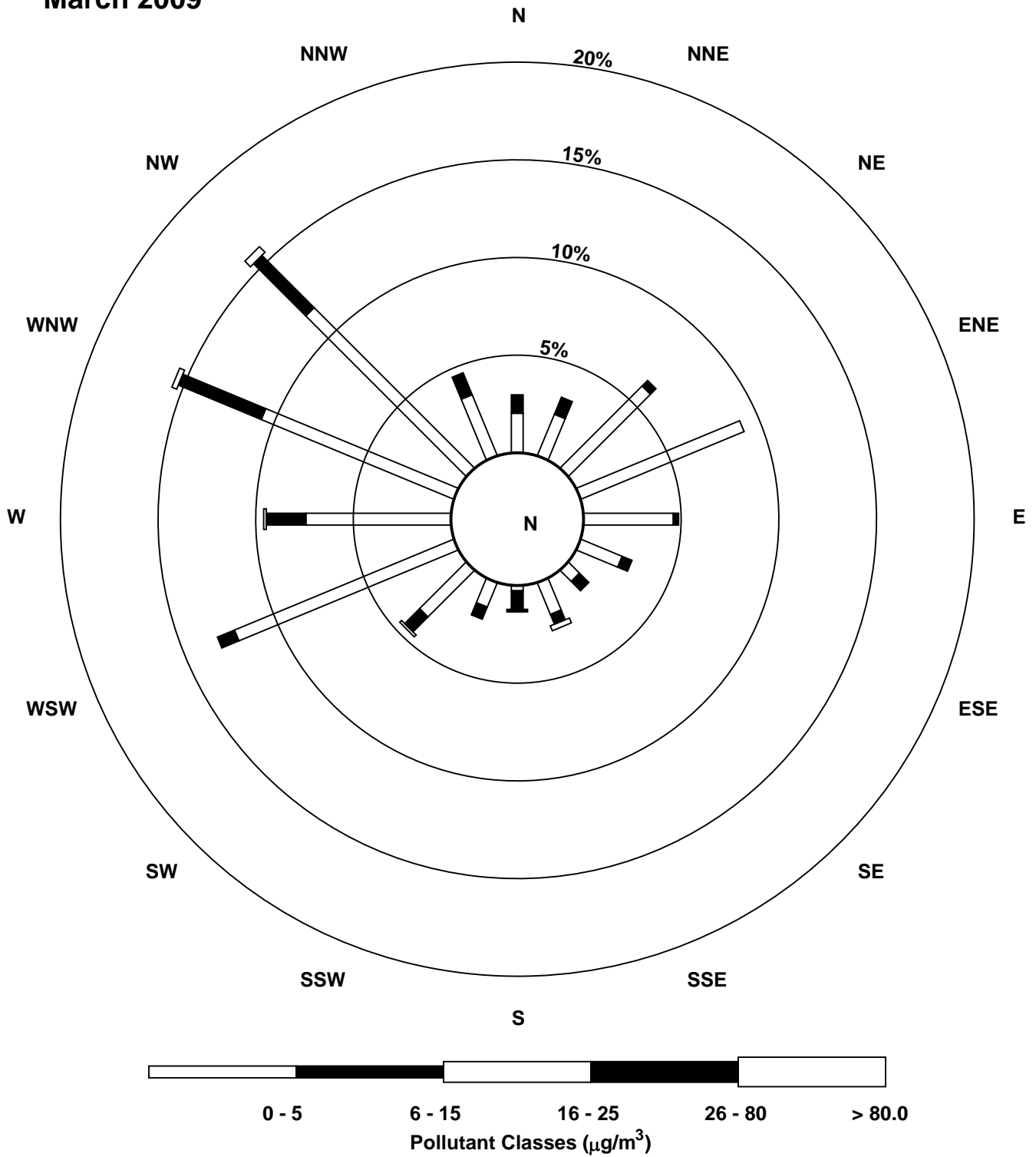
**Henry Pirker - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
March 1, 2009 to April 1, 2009**

Maximum Value: 46.7 µg/m ³ on Mar 16 13:00		Maximum Daily Average: 13.4 µg/m ³ on Mar 2		Hours in Service: 744																							
Minimum Value: 0 µg/m ³ on Mar 27 03:00		Minimum Daily Average: 3.4 µg/m ³ on Mar 27		Hours of Data: 744																							
Maximum Diurnal Average: 9.3 µg/m ³ at hour 9		Minimum Diurnal Average: 5.4 µg/m ³ at hour 4		Hours of Missing Data: 0																							
Monthly Average: 7.34 µg/m ³		Percentiles: P ₁ = 0.6 P ₁₀ = 2.8 Q ₁ = 4.1 Median = 5.9 Q ₃ = 9.3 P ₉₀ = 13.9 P ₉₉ = 23.1		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-Mar	6	7	6	6	6	6	6	6	7	12	9	11	8	9	15	10	10	11	12	10	12	11	14	15	9.3	14.9	
2-Mar	11	9	12	7	11	12	16	12	15	21	17	11	12	13	15	12	10	10	22	15	15	17	14	14	13.4	22.4	
3-Mar	16	16	13	9	11	11	15	15	19	20	18	7	8	8	7	7	9	11	11	10	12	12	9	17	12.1	20.1	
4-Mar	22	15	9	16	13	14	24	20	24	26	35	29	10	3	5	6	6	5	5	3	3	2	3	2	12.5	34.7	
5-Mar	3	2	2	3	3	3	3	12	10	4	3	7	3	3	2	3	4	3	4	6	10	15	12	10	5.5	14.6	
6-Mar	6	14	12	5	7	8	11	16	20	12	9	11	21	21	17	13	11	10	22	14	2	2	5	3	11.3	22.3	
7-Mar	2	8	9	5	2	4	3	3	6	5	15	3	6	8	10	8	6	4	5	4	3	4	4	4	5.4	15.4	
8-Mar	4	4	4	4	5	4	5	5	5	7	7	2	3	2	7	3	3	3	5	5	5	4	6	5	4.5	7.4	
9-Mar	3	3	3	5	3	5	7	10	10	9	8	3	3	8	4	5	4	5	8	7	8	10	10	8	6.2	10.1	
10-Mar	10	5	8	13	13	9	9	13	15	21	20	14	20	19	9	9	9	10	15	13	13	8	8	8	12.2	20.9	
11-Mar	7	8	7	6	12	15	20	23	28	18	27	21	12	12	10	14	6	6	4	2	5	2	2	2	11.2	27.9	
12-Mar	1	2	3	1	1	5	5	2	4	5	5	4	4	5	9	5	10	7	6	9	11	3	9	8	5.3	11.5	
13-Mar	5	6	11	9	8	5	4	3	1	3	3	2	1	1	0	0	3	3	2	4	3	6	4	4	3.7	11.3	
14-Mar	3	5	3	2	3	5	5	6	4	6	7	6	9	8	9	9	4	4	4	6	6	6	7	5	5.5	9.2	
15-Mar	5	5	5	5	4	6	6	5	6	8	5	5	6	6	6	8	8	5	6	7	7	8	7	6	6.0	8.2	
16-Mar	6	5	4	5	5	5	5	5	4	4	5	17	47	4	7	5	6	6	11	8	8	8	8	6	8.0	46.7	
17-Mar	6	5	6	4	4	5	6	5	4	4	5	6	4	5	7	6	7	6	7	6	9	5	6	4	5.5	8.8	
18-Mar	4	4	5	4	7	11	11	13	9	3	5	6	4	8	7	11	6	7	12	11	10	10	20	14	8.4	20.3	
19-Mar	7	1	2	2	3	5	4	13	7	6	4	5	5	4	6	7	5	4	5	8	7	3	4	4	4.9	12.6	
20-Mar	4	4	3	3	1	2	1	4	3	5	5	4	7	4	3	5	3	5	3	4	14	9	14	16	5.3	15.9	
21-Mar	16	6	5	9	5	5	9	11	15	5	7	10	12	9	8	9	5	5	3	2	4	2	5	2	7.0	16.2	
22-Mar	3	3	4	4	6	4	3	5	5	5	4	4	4	7	7	6	5	5	5	7	8	8	6	6	5.1	7.8	
23-Mar	7	5	6	5	5	5	5	6	5	5	5	7	6	8	8	9	8	6	7	7	6	3	4	3	6.0	9.3	
24-Mar	3	4	3	3	4	3	4	5	6	6	7	10	7	9	13	7	5	5	6	9	6	14	7	8	6.3	13.7	
25-Mar	5	4	2	7	9	10	3	11	14	6	8	10	4	4	10	4	8	4	5	9	12	13	7	3	7.2	13.6	
26-Mar	4	12	12	4	4	3	5	6	10	12	12	17	15	13	14	10	11	16	19	20	3	4	1	3	9.6	20.1	
27-Mar	18	17	0	0	1	3	3	3	2	2	1	3	1	2	2	2	4	3	1	4	2	0	3	3	3.4	17.6	
28-Mar	2	5	3	5	5	4	3	5	8	9	6	5	2	11	6	5	5	5	4	8	7	13	7	8	6.0	13.2	
29-Mar	8	8	7	4	5	4	6	5	6	8	10	7	14	6	5	1	3	5	8	11	15	9	6	6	7.0	15.1	
30-Mar	8	4	3	4	7	3	5	9	12	8	7	8	7	5	3	6	3	4	5	5	2	7	6	5	5.6	12.3	
31-Mar	7	6	6	6	7	7	7	8	6	7	6	7	3	3	7	7	7	20	9	14	14	13	13	3	8.1	20.2	
		6.8	6.6	5.8	5.4	5.8	6.3	7.0	8.5	9.3	8.7	9.2	8.5	8.6	7.3	7.6	6.8	6.1	6.6	7.9	7.9	7.8	7.4	7.5	6.5	Diurnal Average	
		21.6	17.1	12.6	16.1	13.2	15.4	24.3	23.3	27.9	25.5	34.7	28.8	46.7	20.9	16.9	14.2	10.7	20.2	22.4	20.1	15.1	17.3	20.3	17.3	Diurnal Maximum	

Hourly Maximums for PM_{2.5} at Henry Pirker March 2009



Pollutant Rose for PM_{2.5} at Henry Pirker March 2009

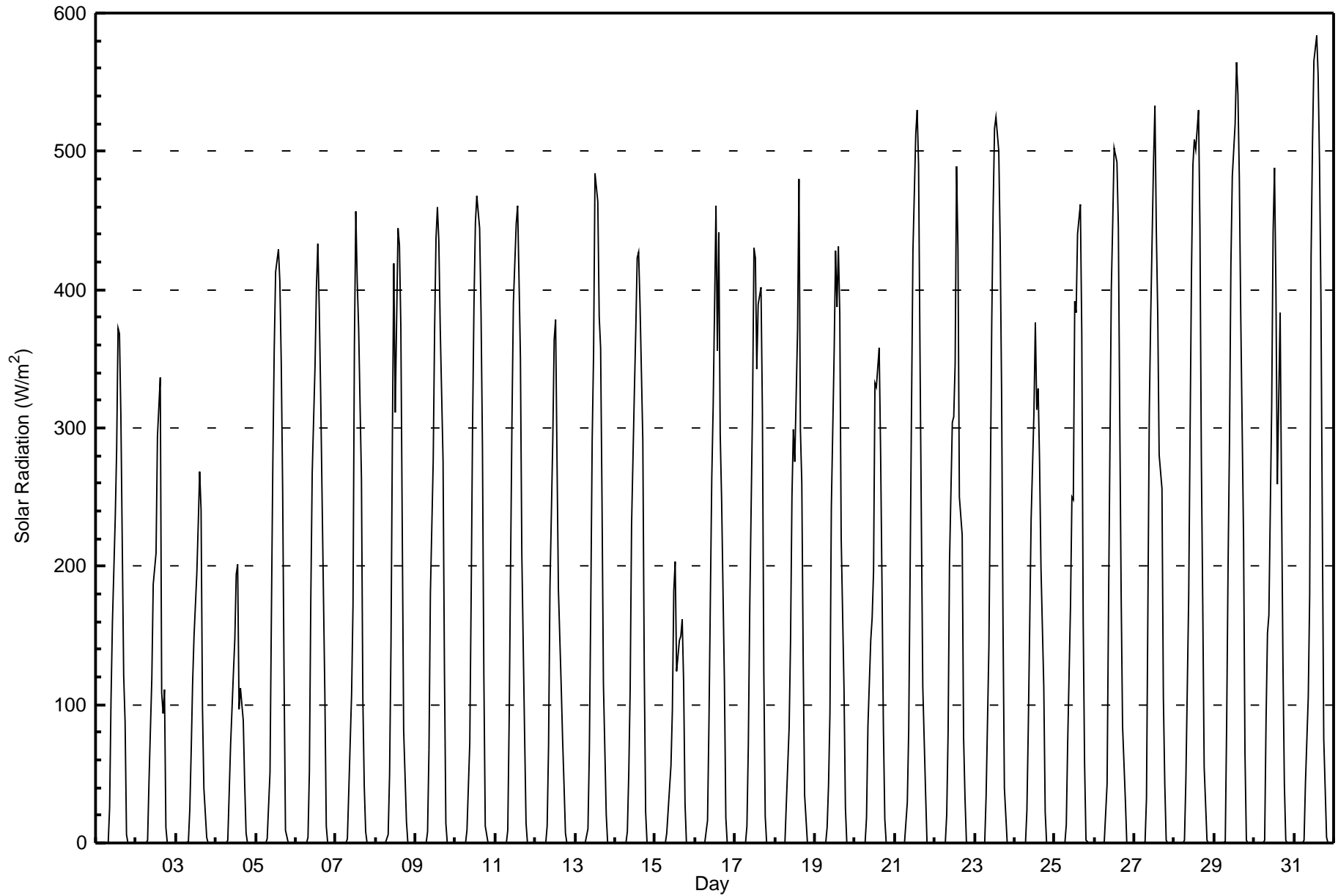


**Peace Airshed Zone Association
Summary of Hourly Averages**

**Henry Pirker - Solar Radiation (SR) - W/m²
March 1, 2009 to April 1, 2009**

Maximum Value: 583.2 W/m ² on Mar 31 14:00																								Maximum Daily Average: 177.3 W/m ² on Mar 29																								Hours in Service: 744	
Minimum Value: 0 W/m ² on Mar 1 01:00																								Minimum Daily Average: 46.8 W/m ² on Mar 4																								Hours of Data: 744	
Maximum Diurnal Average: 403.2 W/m ² at hour 14																								Minimum Diurnal Average: 0.0 W/m ² at hour 6																								Hours of Missing Data: 0	
Monthly Average: 115.83 W/m ²																								Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 2.4 Q ₃ = 219.5 P ₉₀ = 384.9 P ₉₉ = 527.4																								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-Mar	0	0	0	0	0	0	0	0	25	104	160	235	285	372	369	310	121	87	6	0	0	0	0	0	86.4	372.0																							
2-Mar	0	0	0	0	0	0	0	2	45	119	188	198	209	294	337	109	94	111	11	0	0	0	0	0	71.5	336.7																							
3-Mar	0	0	0	0	0	0	0	1	25	68	116	149	195	231	269	241	97	39	4	0	0	0	0	0	59.8	268.7																							
4-Mar	0	0	0	0	0	0	0	2	36	72	123	147	194	201	97	112	89	43	7	0	0	0	0	0	46.8	201.2																							
5-Mar	0	0	0	0	0	0	0	3	51	166	273	357	413	429	406	346	255	120	9	0	0	0	0	0	117.8	429.5																							
6-Mar	0	0	0	0	0	0	0	4	52	176	268	344	401	433	386	326	251	106	12	0	0	0	0	0	115.0	433.1																							
7-Mar	0	0	0	0	0	0	0	3	37	108	172	360	457	406	372	264	103	41	8	0	0	0	0	0	97.1	456.5																							
8-Mar	0	0	0	0	0	0	0	6	50	144	295	419	311	445	432	373	228	81	15	0	0	0	0	0	116.6	444.5																							
9-Mar	0	0	0	0	0	0	0	8	67	180	276	372	438	460	436	373	276	124	14	0	0	0	0	0	125.9	459.7																							
10-Mar	0	0	0	0	0	0	0	9	72	180	303	390	449	468	445	383	288	123	12	0	0	0	0	0	130.1	468.3																							
11-Mar	0	0	0	0	0	0	0	10	90	201	307	390	447	460	408	351	208	76	14	0	0	0	0	0	123.4	460.3																							
12-Mar	0	0	0	0	0	0	0	12	70	185	292	365	378	278	183	113	74	42	7	0	0	0	0	0	83.3	378.3																							
13-Mar	0	0	0	0	0	0	0	10	67	173	291	354	484	463	380	358	246	115	20	0	0	0	0	0	123.4	484.4																							
14-Mar	0	0	0	0	0	0	0	8	50	111	230	327	371	424	427	390	291	129	23	0	0	0	0	0	115.8	427.0																							
15-Mar	0	0	0	0	0	0	0	7	23	56	96	182	203	124	147	150	162	116	29	0	0	0	0	0	53.9	202.9																							
16-Mar	0	0	0	0	0	0	0	16	87	175	264	315	460	356	441	296	248	116	19	0	0	0	0	0	116.4	460.5																							
17-Mar	0	0	0	0	0	0	0	13	71	170	316	430	423	343	389	402	312	124	19	0	0	0	0	0	125.5	430.2																							
18-Mar	0	0	0	0	0	0	0	29	83	147	250	299	276	372	480	299	261	131	34	0	0	0	0	0	110.8	479.5																							
19-Mar	0	0	0	0	0	0	0	11	42	93	243	355	428	388	431	382	220	112	26	0	0	0	0	0	113.8	431.0																							
20-Mar	0	0	0	0	0	0	0	18	84	146	163	196	333	330	358	284	187	83	17	0	0	0	0	0	91.6	357.9																							
21-Mar	0	0	0	0	0	0	0	29	82	198	316	428	512	530	491	355	231	113	35	0	0	0	0	0	138.4	529.5																							
22-Mar	0	0	0	0	0	0	0	20	81	204	304	308	347	489	429	250	222	76	32	1	0	0	0	0	115.2	489.3																							
23-Mar	0	0	0	0	0	0	0	33	142	256	375	459	516	524	500	434	327	160	40	0	0	0	0	0	157.0	524.3																							
24-Mar	0	0	0	0	0	0	0	23	84	158	234	312	377	313	329	275	200	113	22	0	0	0	0	0	101.6	376.5																							
25-Mar	0	0	0	0	0	0	0	14	73	172	250	248	391	383	440	461	369	161	57	2	0	0	0	0	125.9	461.3																							
26-Mar	0	0	0	0	0	0	1	42	168	283	401	449	502	492	446	307	179	84	31	0	0	0	0	0	141.1	502.4																							
27-Mar	0	0	0	0	0	0	1	33	169	312	380	492	533	442	382	281	257	105	42	2	0	0	0	0	143.0	532.9																							
28-Mar	0	0	0	0	0	0	2	46	178	298	414	490	509	502	530	443	277	172	55	2	0	0	0	0	163.2	530.1																							
29-Mar	0	0	0	0	0	0	1	88	202	290	418	482	520	565	541	480	381	220	65	2	0	0	0	0	177.3	564.8																							
30-Mar	0	0	0	0	0	0	2	90	152	164	317	442	488	401	259	383	249	130	42	2	0	0	0	0	130.0	488.0																							
31-Mar	0	0	0	0	0	0	2	43	106	179	424	506	565	583	556	491	392	229	75	4	0	0	0	0	173.2	583.2																							
																								Diurnal Average																									
																								Diurnal Maximum																									

Hourly Averages for Solar Radiation at Henry Pirker March 2009



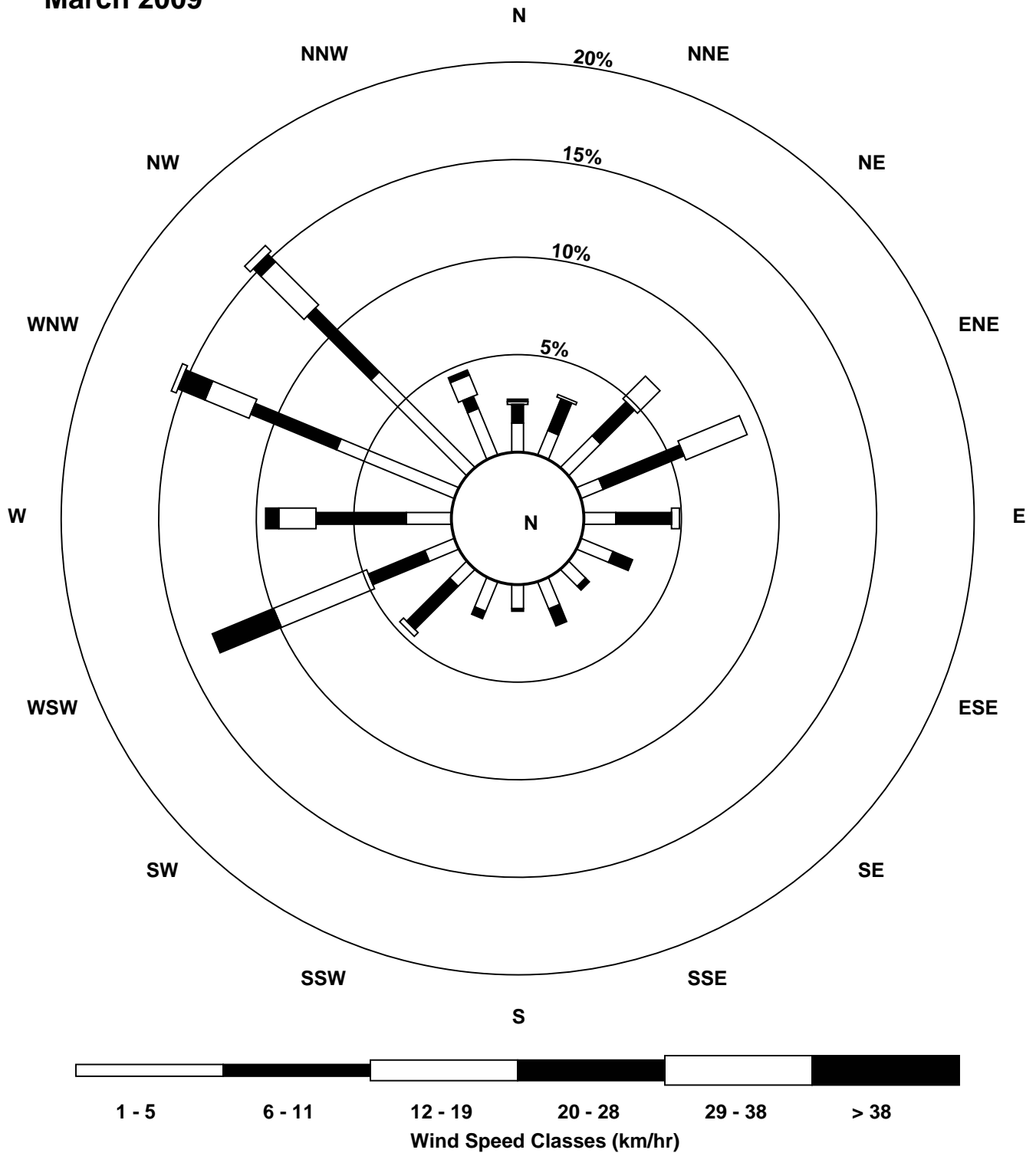
**Peace Airshed Zone Association
Summary of Hourly Averages**

Henry Pirker
March 1, 2009 to April 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	3	4	3	3	2	7	5	6	9	9	6	5	5	5	9	7	7	8	6	4	6	12	12	11	4.7	12.5	
Dir	302	289	332	309	97	94	115	77	88	103	83	53	67	16	356	23	23	13	22	44	78	90	94	92	61.3	93.6	
24 Spd	14	9	6	4	5	9	7	6	4	5	4	3	5	5	3	4	10	11	10	8	6	3	6	4	5.0	13.7	
Dir	92	101	90	81	78	98	106	77	121	95	113	27	51	43	2	153	84	85	82	82	75	312	317	316	81.5	92.2	
25 Spd	6	22	33	28	25	28	28	26	24	25	24	21	19	16	14	12	10	7	5	2	2	4	2	3	15.1	33.5	
Dir	329	302	309	299	290	288	288	289	289	288	287	288	286	289	295	292	279	278	290	181	135	100	57	317	292.5	309.1	
26 Spd	4	0	4	4	5	3	5	5	4	4	6	8	9	8	6	8	5	4	3	9	20	12	6	5	4.9	19.9	
Dir	305	313	307	336	301	324	295	288	299	270	280	310	312	312	312	284	331	127	208	239	258	273	218	238	283.0	258.2	
27 Spd	5	16	18	25	24	25	24	23	24	27	26	23	24	25	24	24	26	25	24	22	22	20	18	17	21.8	26.7	
Dir	324	247	233	247	249	248	248	244	246	248	255	253	252	256	258	256	255	256	249	246	247	245	239	250.2	248.0		
28 Spd	12	9	11	9	8	2	7	11	6	8	16	16	14	17	17	15	14	13	9	6	4	9	6	10.3	17.2		
Dir	234	230	239	228	250	331	236	231	261	300	258	253	253	258	263	259	251	245	248	240	262	279	258	285	252.2	259.3	
29 Spd	5	5	3	4	5	5	6	8	6	6	7	7	6	8	8	7	4	1	5	6	8	4	6	7	2.7	8.5	
Dir	285	257	296	296	293	298	306	299	288	266	272	245	244	286	280	277	290	196	79	89	102	135	158	148	270.1	102.4	
30 Spd	6	6	3	5	4	4	4	5	9	7	9	10	18	17	15	16	15	19	14	8	11	11	7	11	8.7	18.8	
Dir	155	165	198	150	155	202	184	222	221	201	225	256	270	255	240	241	239	248	241	232	220	232	226	232	231.2	247.7	
31 Spd	11	10	7	4	2	4	5	6	6	9	11	14	16	12	11	9	8	3	8	1	2	2	2	4	5.2	16.1	
Dir	217	215	211	237	208	258	310	286	279	277	292	283	282	294	305	273	353	88	113	137	269	279	274	271.5	281.7		
Spd	1.3	1.9	3.0	3.3	3.3	3.0	4.0	4.3	3.6	4.1	5.9	7.1	7.4	6.6	6.7	5.9	4.7	3.8	2.9	3.0	2.3	2.6	1.9	1.9	Diurnal Average		
Dir	308.1	285.9	299.0	299.1	299.5	303.2	294.1	301.4	298.5	290.1	282.3	288.3	293.4	290.0	298.9	294.3	297.2	298.9	304.6	296.8	276.3	291.5	288.7	307.0			
Spd	15.6	22.5	33.5	27.6	25.2	27.5	28.4	25.9	24.9	26.7	27.3	30.8	33.2	28.3	29.7	29.4	26.7	24.9	23.8	22.2	21.7	20.5	18.1	19.7	Diurnal Maximum		
Dir	64.9	302.1	309.1	299.3	289.6	288.0	288.2	288.8	264.3	248.0	274.6	304.9	308.8	298.2	301.9	298.5	304.9	255.1	255.9	309.4	246.4	247.0	244.8	328.7			
Maximum Speed Value: 33 km/h on Mar 25 03:00																		Minimum Speed Value: 0 km/h on Mar 14 05:00						Hours in Service: 744			
Maximum Daily Speed Average: 21.8 km/h on Mar 27																		Minimum Daily Speed Average: 1.7 km/h on Mar 3						Hours of Data: 743			
Maximum Diurnal Speed Average: 7.4 km/h at hour 13																		Minimum Diurnal Speed Average: 1.3 km/h at hour 1						Hours of Missing Data: 1			
Monthly Average Velocity: 3.92 km/h 294.52 deg																		Speed Percentiles: P ₁ = 0.9 P ₁₀ = 2.8 Q ₁ = 4.3 Median = 6.8 Q ₃ = 12.1 P ₉₀ = 17.1 P ₉₉ = 28.3						Percent Operational Time: 99.9			
All monthly, daily, and diurnal averages have been calculated using vector methods																											
N - Not Valid																											
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	2.29	2.29	0.40	0.27	0.00	0.00	5.25																				
NorthEast	3.10	6.06	4.44	0.00	0.00	0.00	13.59																				
East	2.56	6.06	1.62	0.00	0.00	0.00	10.23																				
SouthEast	2.69	0.94	0.00	0.00	0.00	0.00	3.63																				
South	2.42	1.08	0.00	0.00	0.00	0.00	3.50																				
SouthWest	2.83	4.98	3.50	0.67	0.00	0.00	11.98																				
West	5.79	8.08	5.79	4.71	0.13	0.00	24.50																				
NorthWest	11.31	8.61	5.65	0.94	0.81	0.00	27.32																				
Total	32.97	38.09	21.40	6.59	0.94	0.00	100.00																				

Wind Rose for WS at Henry Pirker

March 2009



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

Henry Pirker - Wind Speed (WS) - km/h
March 1, 2009 to April 1, 2009

Maximum Speed: 34 km/h on Mar 25 03:00	Maximum Daily Speed Average: 22.2 km/h on Mar 27	Hours in Service: 744
Minimum Speed: 2 km/h on Mar 10 05:00	Minimum Daily Speed Average: 4.4 km/h on Mar 3	Hours of Data: 743
Maximum Diurnal Speed Average: 11.8 km/h at hour 13	Minimum Diurnal Speed Average: 7.6 km/h at hour 1	Hours of Missing Data: 1
Monthly Average Speed: 9.18 km/h	Percentiles: P ₁ = 2.4 P ₁₀ = 3.8 Q ₁ = 4.8 Median = 7.1 Q ₃ = 12.2 P ₉₀ = 17.2 P ₉₉ = 28.2	Percent Operational Time: 99.9

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-Mar	5	4	4	5	4	5	4	4	3	4	3	6	8	9	6	4	6	8	6	7	3	4	4	5	5.1	8.5
2-Mar	4	4	5	4	4	6	6	5	4	4	6	6	8	6	9	9	8	6	9	7	6	4	4	3	5.7	9.4
3-Mar	3	5	4	3	4	4	4	4	3	4	4	9	8	7	6	5	4	5	3	2	3	4	4	4	4.4	8.7
4-Mar	4	4	3	3	3	3	3	3	2	3	3	12	8	15	23	16	16	17	14	22	14	18	15	11	9.8	23.2
5-Mar	9	10	10	12	10	13	12	8	8	11	15	16	14	15	14	10	10	9	7	4	4	4	5	7	9.9	16.4
6-Mar	6	3	4	4	3	2	4	3	4	4	5	6	6	7	7	7	6	5	4	12	10	10	7	12	5.9	12.2
7-Mar	10	6	6	6	10	15	22	24	25	26	29	31	33	28	30	29	27	24	20	17	13	18	17	20	20.3	33.3
8-Mar	15	21	19	19	15	16	19	16	14	13	13	12	13	15	15	15	15	10	8	7	7	9	10	12	13.6	21.0
9-Mar	8	7	5	5	5	4	5	5	5	7	7	8	8	8	8	7	5	5	4	4	4	4	5	4	5.6	8.3
10-Mar	5	6	6	5	2	5	3	3	3	4	4	5	7	5	5	7	6	5	7	6	6	6	5	5	5.0	7.1
11-Mar	5	3	4	3	4	3	5	4	2	3	4	6	5	5	4	6	17	19	17	16	10	15	16	9	7.6	19.3
12-Mar	6	3	10	12	7	6	6	12	10	10	18	20	20	23	20	7	7	6	6	7	8	5	6	4	10.0	23.4
13-Mar	4	5	3	4	6	3	10	13	10	16	14	14	23	22	18	20	17	14	13	13	14	14	13	11	12.2	23.1
14-Mar	10	6	4	5	4	5	4	5	5	4	4	3	5	6	8	8	12	13	12	11	14	14	14	13	7.8	13.9
15-Mar	16	16	15	16	17	15	7	9	12	11	11	12	13	12	12	12	12	11	11	8	9	7	7	9	11.7	16.6
16-Mar	8	7	8	7	9	9	10	12	13	14	13	N	13	12	10	8	8	7	4	4	5	4	4	3	8.3	14.3
17-Mar	6	7	6	7	7	6	5	7	7	5	5	6	6	5	6	8	8	7	5	6	7	6	7	8	6.4	8.2
18-Mar	7	4	4	4	4	3	3	3	7	8	5	5	7	8	6	5	5	4	3	13	8	4	3	5	5.3	12.7
19-Mar	6	9	7	6	7	7	2	2	4	5	5	7	8	8	6	6	7	5	5	3	4	6	7	10	6.0	9.7
20-Mar	6	8	9	9	11	12	14	15	14	13	12	12	16	16	13	12	13	12	13	13	10	8	11	10	11.7	16.4
21-Mar	15	14	15	11	7	5	4	4	5	7	6	5	6	5	8	9	11	8	10	11	12	11	10	13	8.7	15.4
22-Mar	13	13	14	10	14	12	13	16	15	11	9	8	11	9	9	8	7	6	6	4	3	3	3	4	9.2	15.6
23-Mar	4	4	3	3	4	7	5	7	9	9	6	6	6	6	9	7	7	8	7	4	6	12	12	11	6.9	12.5
24-Mar	14	10	6	4	5	9	7	7	5	5	4	4	6	6	5	6	10	11	10	8	6	5	7	5	6.9	13.7
25-Mar	6	23	34	28	25	28	28	26	24	25	24	21	19	17	14	13	10	7	5	2	2	4	3	3	16.2	33.5
26-Mar	4	3	6	5	5	4	5	5	4	5	6	8	9	8	7	8	6	5	4	9	20	13	7	6	6.8	20.1
27-Mar	5	17	18	25	24	25	24	23	25	27	26	24	24	25	24	25	26	25	24	22	22	21	18	17	22.2	26.7
28-Mar	12	9	11	9	9	3	8	11	8	8	16	16	14	17	17	17	16	14	13	9	7	4	9	6	11.1	17.4
29-Mar	5	5	4	4	5	6	6	8	6	6	7	7	7	9	8	7	5	4	5	6	9	5	7	7	6.1	8.6
30-Mar	6	6	5	6	5	5	4	6	9	7	9	10	18	18	15	16	15	19	14	8	11	11	7	12	10.1	18.9
31-Mar	12	10	7	5	3	4	5	6	6	9	12	14	16	12	12	9	8	7	9	5	5	4	3	4	7.8	16.2
	7.6	8.1	8.3	8.0	7.8	8.0	8.3	8.8	8.7	9.3	9.9	10.6	11.8	11.7	11.5	10.6	10.6	9.9	8.9	8.8	8.5	8.3	8.1	8.2	Diurnal Average	
	15.7	22.7	33.5	27.7	25.3	27.6	28.4	26.0	25.1	26.7	28.8	30.9	33.3	28.5	29.8	29.4	26.8	25.0	23.8	22.3	21.7	20.5	18.1	19.8	Diurnal Maximum	

N - Not Valid
 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
March 1, 2009 to April 1, 2009

Maximum Value: 95.4 deg on Mar 10 14:00																								Hours in Service:	744
Minimum Value: 2.7 deg on Mar 25 08:00																								Hours of Data:	743
Percentiles: P ₁ = 3.4 P ₁₀ = 5.4 Q ₁ = 7.8 Median = 14.3 Q ₃ = 27.6 P ₉₀ = 49.9 P ₉₉ = 84.3																								Hours of Missing Data:	1
																								Hours of Calibration:	0
																								Percent Operational Time:	99.9
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-Mar	21	18	15	25	15	16	19	12	23	64	41	33	25	17	28	46	40	18	17	32	82	50	58	20	82.5
2-Mar	55	54	43	52	55	51	57	39	30	65	31	20	41	76	14	19	22	26	33	85	24	58	62	86	85.6
3-Mar	68	38	67	86	34	69	19	47	78	14	46	12	12	15	17	15	10	17	35	92	36	36	18	29	92.2
4-Mar	16	33	41	47	48	67	64	16	79	73	51	33	26	61	5	10	6	6	8	5	6	6	6	8	79.4
5-Mar	16	15	5	4	4	5	3	7	9	5	6	6	7	6	7	13	9	7	7	35	27	16	11	10	34.8
6-Mar	11	61	34	19	42	44	37	48	13	18	9	9	28	14	10	17	34	37	68	13	11	15	48	34	67.9
7-Mar	22	41	66	27	13	8	6	6	8	7	19	5	4	6	5	4	4	4	4	5	5	15	5	7	66.5
8-Mar	6	6	6	6	10	6	6	6	8	11	15	7	8	7	9	9	6	39	14	22	5	5	10	26	38.5
9-Mar	9	13	18	25	5	15	8	8	7	7	20	8	11	10	11	15	15	14	92	12	25	21	55	18	92.1
10-Mar	9	11	6	22	69	46	14	43	46	22	43	12	23	95	35	26	14	35	25	12	21	11	13	12	95.4
11-Mar	13	20	23	53	35	28	12	19	79	43	15	8	13	17	26	28	6	3	4	4	5	4	10	17	79.4
12-Mar	17	79	15	5	10	10	19	9	12	8	7	7	7	5	16	23	32	4	6	18	14	26	20	19	79.1
13-Mar	48	63	50	73	30	76	8	8	11	6	9	10	6	6	6	6	6	7	5	5	5	11	9	9	75.8
14-Mar	9	11	48	37	89	25	37	34	18	26	39	69	28	19	23	17	12	9	10	7	7	7	7	8	88.8
15-Mar	7	7	8	6	5	9	33	14	10	14	13	10	9	13	7	6	6	6	7	14	7	10	8	10	32.9
16-Mar	12	6	10	11	6	5	5	5	6	6	6	N	9	8	11	10	9	5	19	17	12	12	19	68	68.0
17-Mar	20	12	12	13	14	15	16	14	12	23	25	21	22	25	24	20	17	24	19	11	12	8	19	12	25.2
18-Mar	11	31	50	18	21	59	36	76	18	13	18	44	13	11	15	31	33	44	78	15	13	74	81	24	80.5
19-Mar	14	9	7	14	22	22	24	27	25	20	21	18	22	33	52	29	49	36	20	36	23	16	12	6	51.7
20-Mar	15	7	10	9	8	7	5	6	6	8	8	8	8	9	13	9	10	9	9	8	51	81	23	60	81.0
21-Mar	49	17	8	16	22	49	54	76	25	20	32	26	23	26	19	17	14	14	9	10	8	6	10	7	76.1
22-Mar	8	8	7	10	7	8	6	7	8	16	15	17	14	15	22	18	24	17	17	28	59	30	48	21	58.6
23-Mar	32	31	27	34	75	17	14	12	12	13	20	28	25	36	15	24	17	10	11	21	11	4	4	5	75.3
24-Mar	4	5	9	19	15	8	9	11	39	17	43	54	22	27	57	54	12	6	7	6	11	55	16	21	57.3
25-Mar	15	9	3	6	5	4	3	3	3	4	4	5	6	10	10	9	9	5	20	55	28	15	31	35	55.1
26-Mar	37	88	65	26	37	43	16	22	42	53	7	21	7	15	29	25	53	70	50	13	8	39	37	43	88.3
27-Mar	18	31	7	5	5	4	4	4	4	4	5	6	5	6	7	5	6	4	5	4	3	3	4	7	31.1
28-Mar	8	10	8	8	35	48	40	5	44	22	8	8	9	9	7	8	8	6	5	9	34	31	19	7	47.7
29-Mar	9	25	35	22	13	17	23	12	14	29	14	16	31	26	9	6	35	70	20	11	5	45	19	6	70.4
30-Mar	5	8	40	8	18	19	25	28	9	10	19	18	4	10	8	8	13	6	6	11	15	11	10	9	40.4
31-Mar	10	9	11	35	56	26	15	9	8	5	9	7	4	6	13	7	4	65	15	90	70	53	48	33	90.4
68.0	88.3	66.5	86.2	88.8	75.8	64.1	76.1	79.4	72.7	50.9	69.2	41.2	95.4	57.3	53.6	53.5	70.4	92.1	92.2	82.5	81.0	80.5	85.6		
N - Not Valid																									

PASZA

Evergreen Park Station

Monthly Summary Tables, Graphs and Roses

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

**Evergreen Park - Sulphur Dioxide (SO₂) - ppb
March 1, 2009 to April 1, 2009**

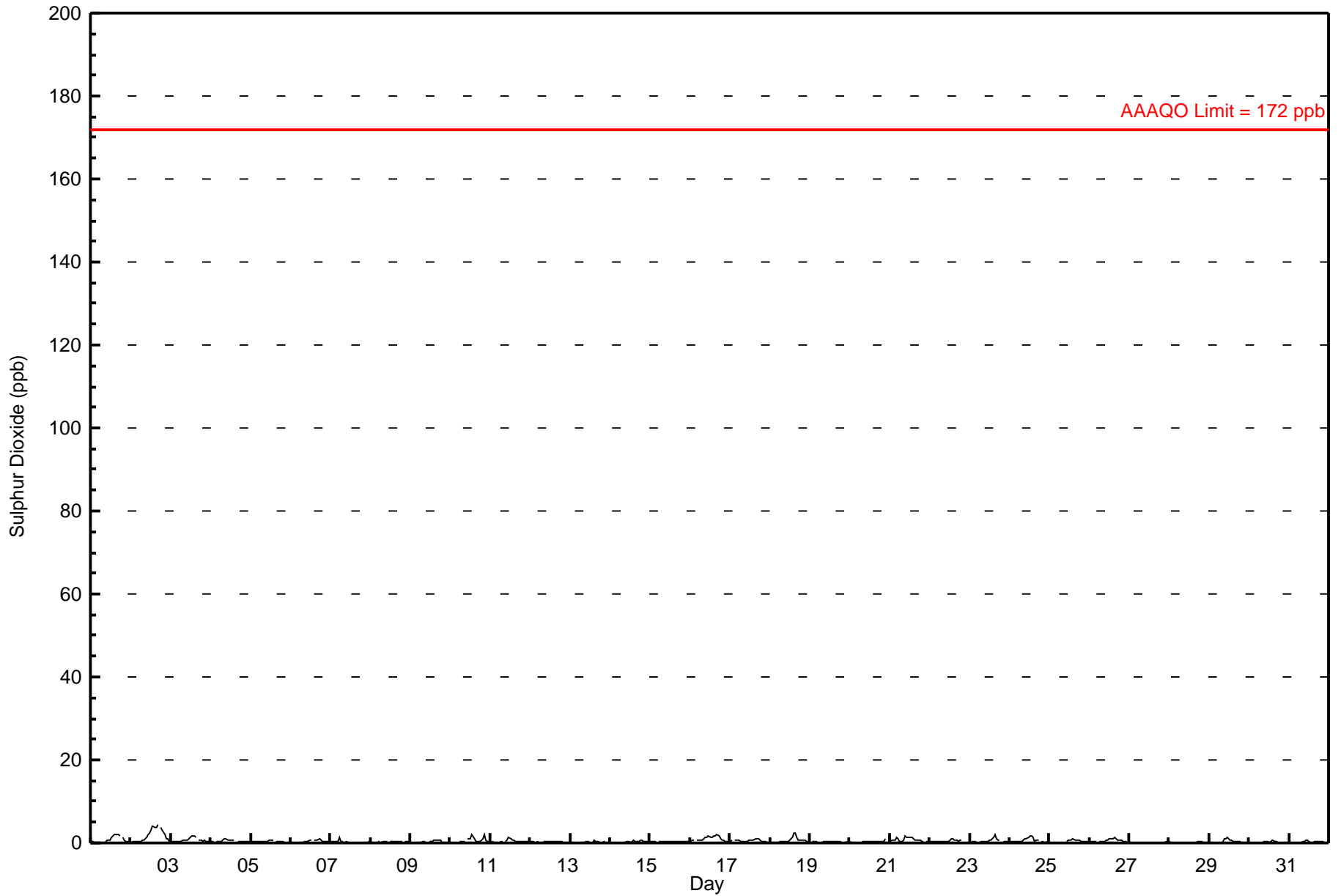
Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 4.2 ppb on Mar 2 17:00	Maximum Daily Average: 1.7 ppb on Mar 2
Minimum Value: 0 ppb on Mar 9 04:00	Hours of Data: 710
Maximum Diurnal Average: 0.9 ppb at hour 15	Hours of Missing Data: 34
Monthly Average: 0.44 ppb	Hours of Calibration: 34
Minimum Daily Average: 0.1 ppb on Mar 27	Percent Operational Time: 100.0
Minimum Diurnal Average: 0.2 ppb at hour 1	
Percentiles: P ₁ = 0.0 P ₁₀ = 0.1 Q ₁ = 0.1 Median = 0.3 Q ₃ = 0.5 P ₉₀ = 1.0 P ₉₉ = 3.0	

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-Mar	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	2	2	2	A	1	1	0	0	0	0.7	2.1
2-Mar	0	0	0	0	0	0	0	1	1	1	2	3	3	4	4	4	4	A	4	3	2	1	1	1	1.7	4.2
3-Mar	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	1	A	1	1	0	1	0	0	0	0.7	1.7
4-Mar	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	A	0	0	0	0	0	0	0	0	0.4	1.0
5-Mar	0	0	0	0	0	0	0	0	0	0	1	1	1	1	A	0	0	0	0	0	0	0	0	0	0.3	0.6
6-Mar	0	0	0	0	0	0	0	0	0	0	0	1	1	A	1	1	1	1	1	0	0	0	0	0	0.4	0.9
7-Mar	0	0	0	0	0	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	1.3
8-Mar	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5
9-Mar	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	1	1	1	1	1	0	0	0	0	0.3	0.8
10-Mar	0	0	0	0	0	0	0	0	0	0	A	1	1	1	2	1	0	0	0	0	1	2	1	0	0.6	2.1
11-Mar	0	0	0	0	0	0	0	0	A	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.4	1.2
12-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
13-Mar	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.2	0.7
14-Mar	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0.3	0.7
15-Mar	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
16-Mar	0	1	1	A	1	1	1	1	1	1	1	2	1	1	2	2	2	2	1	1	1	0	0	0	1.0	1.9
17-Mar	0	1	A	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0.5	0.9
18-Mar	0	A	0	0	0	0	0	0	0	0	0	0	1	1	2	2	1	1	1	1	1	1	0	0	0.6	2.5
19-Mar	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	0.5
20-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	A	0	0.3	0.9
21-Mar	0	1	1	1	1	1	0	0	1	2	1	1	1	1	1	1	1	1	1	1	0	A	0	0	0.8	1.7
22-Mar	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	A	0	0	0.5	1.1
23-Mar	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	1	1	1	A	0	0	0	0.5	2.2
24-Mar	0	0	0	0	0	0	0	0	1	1	1	1	2	2	1	0	1	1	A	0	0	0	0	0	0.6	1.6
25-Mar	0	0	0	0	0	0	0	0	C	C	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0.4	0.8
26-Mar	0	0	0	0	0	A	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0.5	1.2
27-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
28-Mar	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
29-Mar	0	0	A	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.3	1.3
30-Mar	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.1	0.6
31-Mar	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6

0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.4	0.5	0.6	0.7	0.7	0.8	0.9	0.8	0.7	0.5	0.5	0.5	0.4	0.3	0.2	0.2	Diurnal Average	
0.5	0.8	0.8	0.8	1.2	1.3	0.6	0.7	1.0	1.7	1.9	2.5	3.1	3.9	3.8	3.9	4.2	1.8	3.6	3.1	2.1	1.1	1.0	0.5	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 Evergreen Park March 2009



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

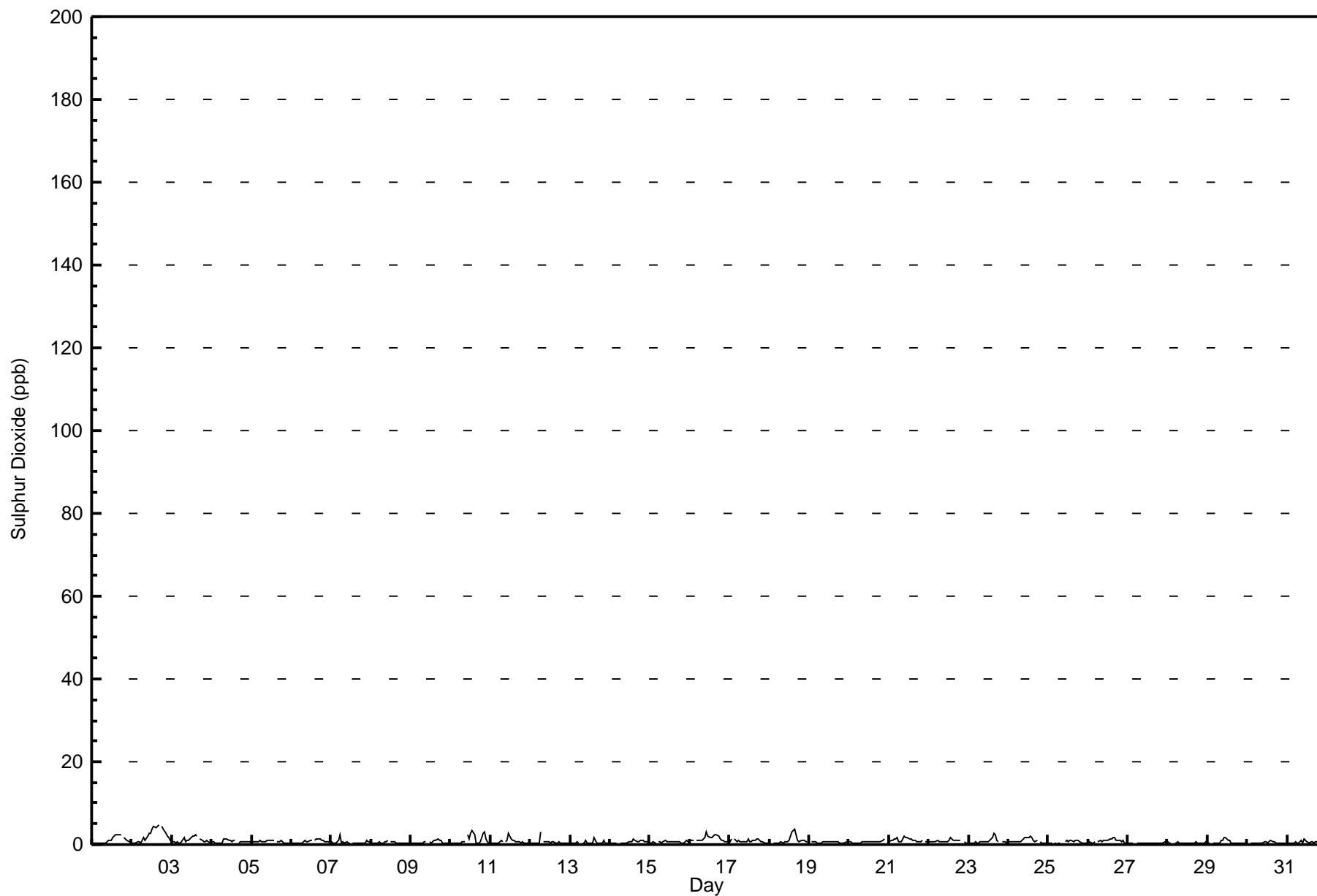
**Evergreen Park - Sulphur Dioxide (SO₂) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 4.7 ppb on Mar 2 17:00	Maximum Daily Average: 2.2 ppb on Mar 2	Hours in Service: 744
Minimum Value: 0 ppb on Mar 25 04:00	Minimum Daily Average: 0.3 ppb on Mar 27	Hours of Data: 710
Maximum Diurnal Average: 1.3 ppb at hour 15	Minimum Diurnal Average: 0.5 ppb at hour 4	Hours of Missing Data: 34
Monthly Average: 0.80 ppb	Percentiles: P ₁ = 0.2 P ₁₀ = 0.3 Q ₁ = 0.4 Median = 0.5 Q ₃ = 0.9 P ₉₀ = 1.4 P ₉₉ = 3.8	Hours of Calibration: 34
		Percent Operational Time: 100.0

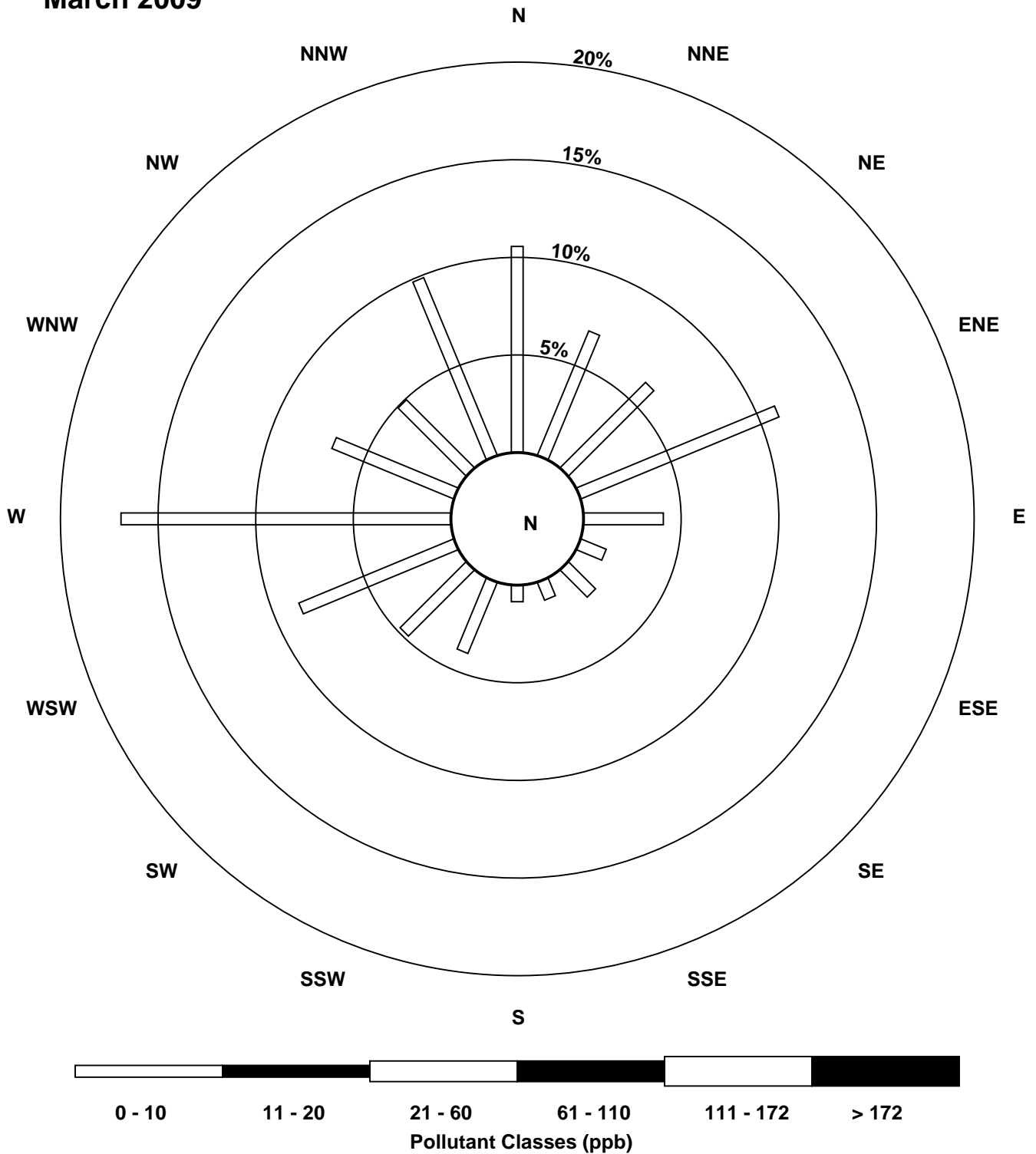
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Mar	0	0	0	0	0	0	0	0	0	1	1	1	2	2	2	3	3	3	A	2	1	1	1	0	1.1	2.5
2-Mar	0	0	0	1	1	0	1	2	1	2	3	3	4	4	4	4	5	A	4	4	3	2	2	1	2.2	4.7
3-Mar	1	1	0	1	1	1	1	2	1	1	1	1	2	2	2	2	A	1	1	1	1	1	0	1.1	2.3	
4-Mar	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.7	1.5	
5-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0	1	0	0	0.7	1.1
6-Mar	0	0	0	0	0	0	0	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.7	1.4	
7-Mar	1	1	1	0	1	2	0	1	0	1	0	0	A	0	0	0	0	0	0	0	0	0	1	1	0.6	2.3
8-Mar	0	0	0	0	0	1	0	0	1	1	1	A	1	1	1	0	0	0	0	0	0	0	0	0.5	1.0	
9-Mar	0	0	0	0	0	0	0	0	1	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0.6	1.3	
10-Mar	0	1	0	0	0	0	1	1	1	A	2	1	3	3	2	1	1	1	1	1	3	3	1	1	1.2	3.3
11-Mar	0	0	0	0	0	0	1	1	A	1	1	3	1	1	1	1	1	1	0	1	0	0	0	0.7	2.7	
12-Mar	0	0	0	0	0	0	3	A	1	1	1	1	0	1	1	0	0	1	0	0	0	0	0	0.6	3.0	
13-Mar	0	0	0	0	1	0	A	0	0	1	0	0	0	0	2	1	0	0	0	0	1	0	0	0.6	1.7	
14-Mar	0	0	0	0	0	A	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.2	
15-Mar	0	0	1	0	A	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0.6	0.9	
16-Mar	1	1	1	A	1	1	1	1	1	2	3	2	2	2	2	2	2	2	1	1	1	1	1	1.4	2.9	
17-Mar	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0.9	1.4	
18-Mar	0	A	0	0	0	0	1	1	0	1	1	1	1	3	3	4	2	1	1	1	1	1	1	1.1	3.8	
19-Mar	A	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0.5	0.8	
20-Mar	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.6	1.4	
21-Mar	1	1	1	1	1	2	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	A	1	1.1	2.0	
22-Mar	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	A	0	0.8	1.7	
23-Mar	0	0	0	0	1	0	0	1	1	1	1	1	1	1	2	3	2	1	1	A	1	1	0	0.8	2.7	
24-Mar	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	A	1	1	0	0	0.9	1.9	
25-Mar	0	0	0	0	0	0	0	0	C	C	1	1	1	1	1	1	1	1	1	1	1	0	0	0.6	1.2	
26-Mar	0	1	0	0	1	A	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	0	0.9	1.7	
27-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0.7	
28-Mar	1	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0.4	0.8	
29-Mar	0	0	A	0	0	0	0	0	1	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0.6	1.7	
30-Mar	0	A	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	0	0	0	0	0	0	0.5	1.1	
31-Mar	A	0	0	0	0	1	0	0	1	1	1	1	0	1	1	0	1	1	1	1	1	0	0	0.6	1.3	
	0.5	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.9	1.0	1.1	1.1	1.2	1.3	1.2	1.1	0.9	0.9	0.8	0.8	0.7	0.6	0.5	Diurnal Average	
	0.9	1.4	1.2	1.3	1.5	2.3	3.0	1.7	1.5	2.0	2.9	2.9	3.8	4.4	4.1	4.5	4.7	2.5	4.4	3.8	3.2	2.0	1.7	0.9	Diurnal Maximum	

C - Calibration A - Automated Daily Zero Span

Hourly Maximums for SO₂ at Evergreen Park March 2009



Pollutant Rose for SO₂ at Evergreen Park March 2009



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

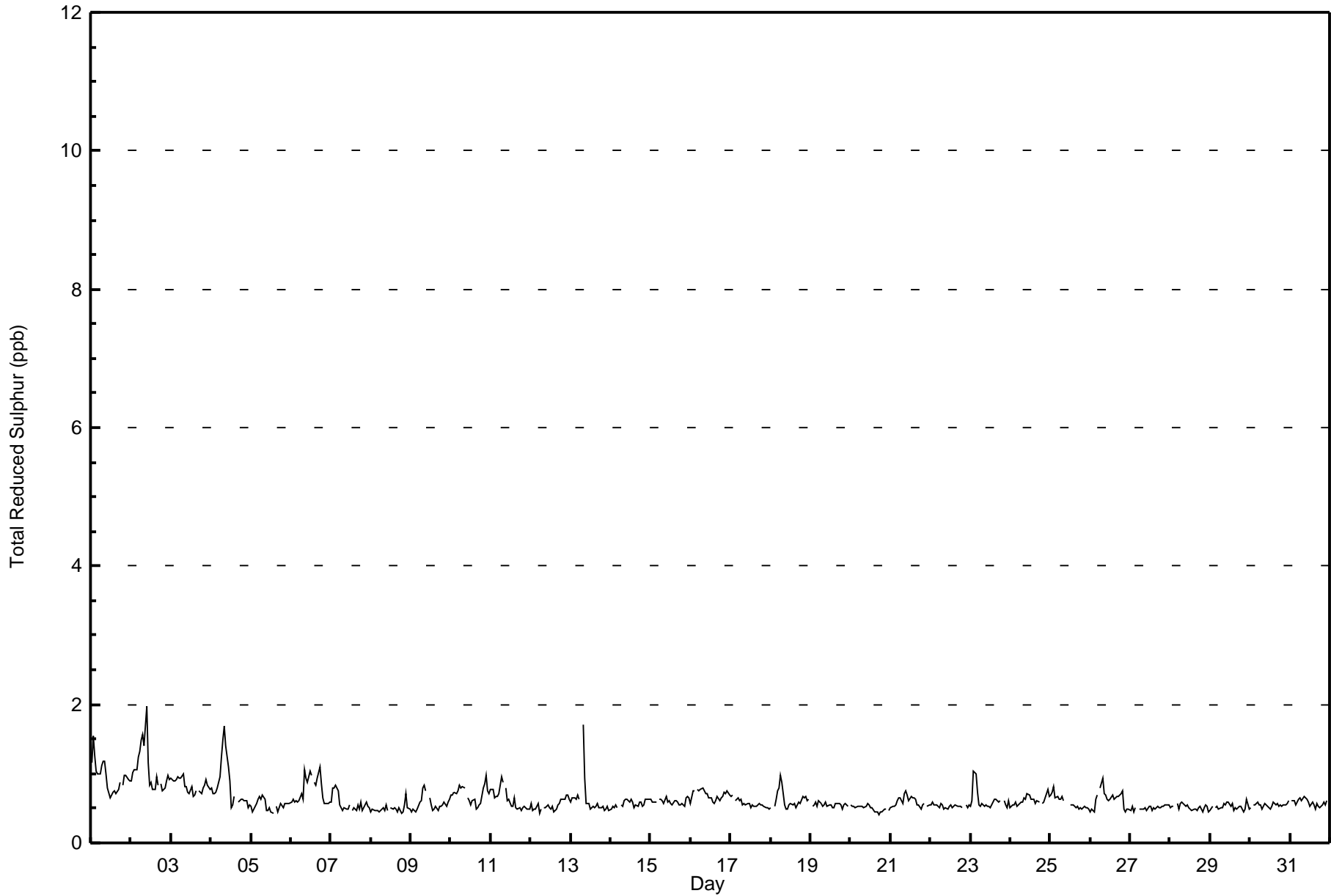
**Evergreen Park - Total Reduced Sulphur (TRS) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 2.0 ppb on Mar 2 10:00	Maximum Daily Average: 1.1 ppb on Mar 2
Minimum Value: 0 ppb on Mar 20 18:00	Hours of Data: 709
Maximum Diurnal Average: 0.8 ppb at hour 8	Hours of Missing Data: 35
Monthly Average: 0.63 ppb	Hours of Calibration: 35
Minimum Daily Average: 0.5 ppb on Mar 8	Percent Operational Time: 100.0
Minimum Diurnal Average: 0.6 ppb at hour 14	
Percentiles: P ₁ = 0.4 P ₁₀ = 0.5 Q ₁ = 0.5 Median = 0.6 Q ₃ = 0.7 P ₉₀ = 0.8 P ₉₉ = 1.5	

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-Mar	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1.0	1.6
2-Mar	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1.1	2.0
3-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0.8	1.0
4-Mar	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.8	1.7
5-Mar	1	0	1	1	1	1	1	1	1	0	0	1	0	0	A	1	0	1	1	1	1	1	1	1	0.5	0.7
6-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0.8	1.1
7-Mar	1	1	1	1	1	1	1	0	1	0	0	1	A	0	1	0	1	0	1	0	1	1	1	1	0.6	0.8
8-Mar	0	0	0	0	0	0	0	1	0	1	0	A	1	0	1	0	0	1	0	0	1	1	1	0	0.5	0.7
9-Mar	0	0	0	0	0	1	1	1	1	1	A	1	1	0	0	1	0	1	1	1	1	1	1	1	0.6	0.8
10-Mar	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0.7	1.0
11-Mar	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0.6	1.0
12-Mar	1	0	0	0	1	0	0	A	1	1	1	1	0	1	0	0	1	1	1	1	1	1	1	1	0.5	0.7
13-Mar	1	1	1	1	1	1	A	2	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	1	0.6	1.7
14-Mar	0	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.6
15-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
16-Mar	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
17-Mar	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
18-Mar	1	A	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	1.0
19-Mar	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	A	0.6	0.6
20-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.5	0.6
21-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	A	1	1	0.6	0.8
22-Mar	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	A	1	1	0.5	0.6
23-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.6	1.0
24-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.6	0.8
25-Mar	1	1	1	1	1	1	1	1	1	C	C	A	1	1	1	0	1	0	1	0	1	1	1	0	0.6	0.8
26-Mar	0	0	0	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0.6	0.9
27-Mar	0	1	0	1	A	0	0	0	0	1	0	1	1	0	1	0	1	1	1	1	1	1	1	1	0.5	0.6
28-Mar	1	1	1	A	1	0	1	1	1	1	1	0	0	0	0	0	0	1	1	0	1	1	0	0.5	0.6	
29-Mar	0	1	A	1	1	0	1	1	1	1	1	1	1	0	1	0	1	1	0	0	0	1	0	0.5	0.6	
30-Mar	1	A	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0.5	0.6
31-Mar	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	A	0.6	0.7
	0.6	0.7	0.6	0.6	0.7	0.7	0.7	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	Diurnal Average	
	1.2	1.6	1.3	1.1	1.2	1.3	1.5	1.7	1.7	2.0	1.2	1.0	1.0	0.8	0.9	1.0	0.9	1.1	0.9	0.8	1.0	1.0	1.0	0.9	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 Evergreen Park March 2009



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

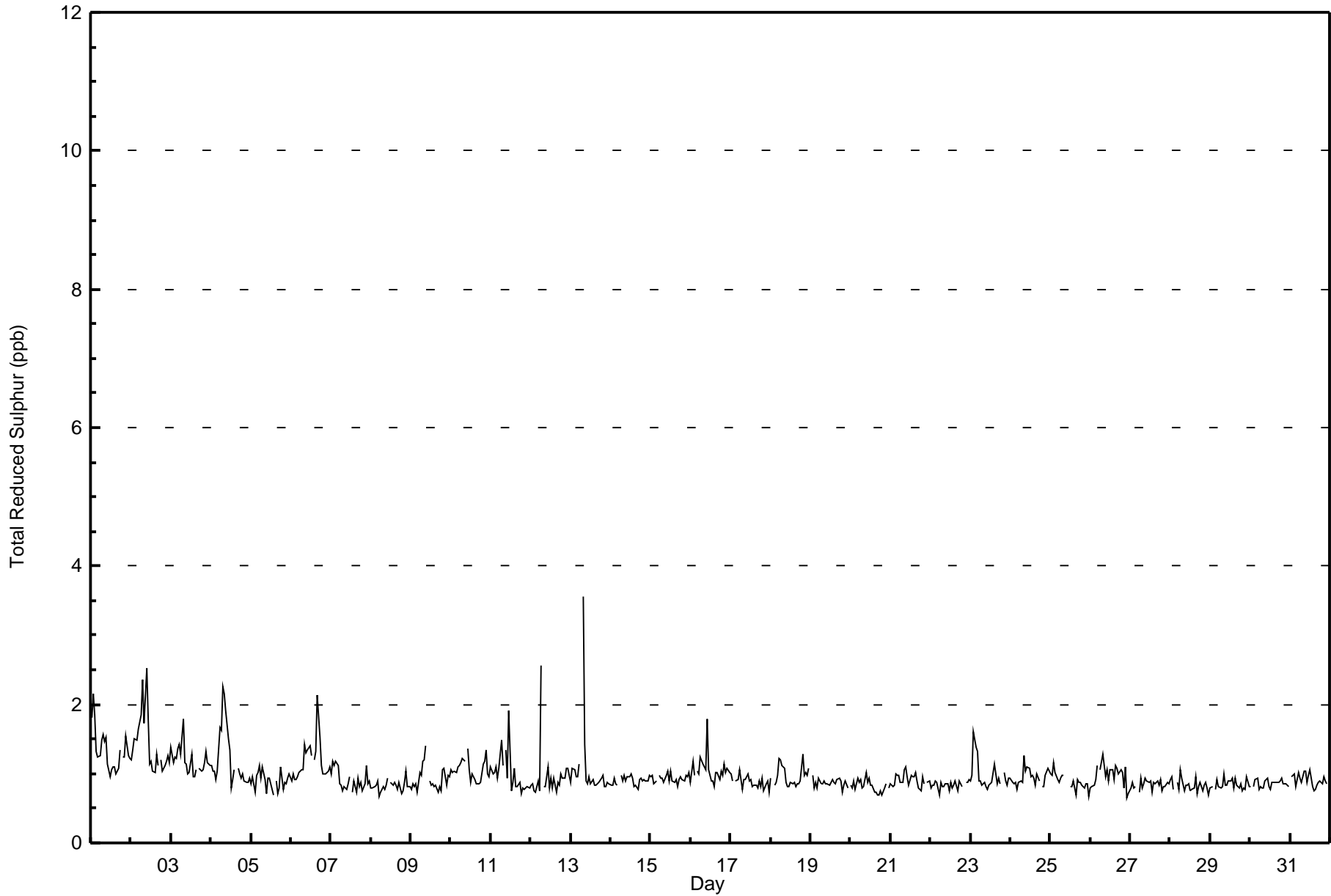
**Evergreen Park - Total Reduced Sulphur (TRS) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 3.6 ppb on Mar 13 08:00	Maximum Daily Average: 1.4 ppb on Mar 2	Hours in Service: 744
Minimum Value: 1 ppb on Mar 26 23:00	Minimum Daily Average: 0.8 ppb on Mar 20	Hours of Data: 709
Maximum Diurnal Average: 1.2 ppb at hour 8	Minimum Diurnal Average: 0.9 ppb at hour 14	Hours of Missing Data: 35
Monthly Average: 0.97 ppb	Percentiles: P ₁ = 0.7 P ₁₀ = 0.8 Q ₁ = 0.8 Median = 0.9 Q ₃ = 1.0 P ₉₀ = 1.2 P ₉₉ = 2.2	Hours of Calibration: 35
		Percent Operational Time: 100.0

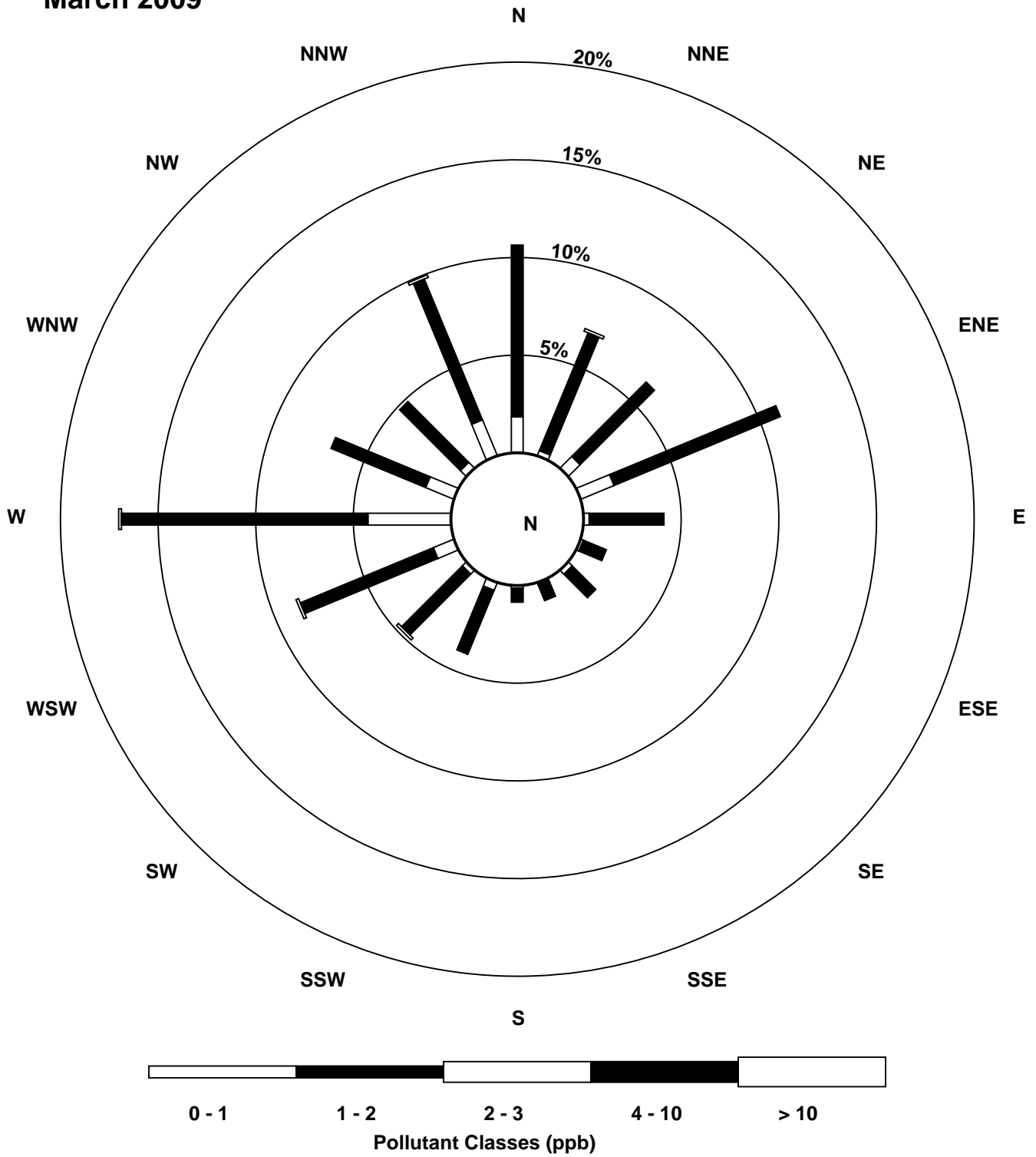
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Mar	2	2	2	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	A	1	1	2	1	1	1.3	2.2
2-Mar	1	1	2	1	2	2	2	2	2	3	2	1	1	1	1	1	1	1	A	1	1	1	1	1	1.4	2.5
3-Mar	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1.2	1.8
4-Mar	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	A	1	1	1	1	1	1	1	1	1.2	2.3
5-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.9	1.1
6-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	2	2	1	1	1	1	1	1	1.2	2.1
7-Mar	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
8-Mar	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
9-Mar	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.4
10-Mar	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.4
11-Mar	1	1	1	1	1	1	1	1	A	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.9
12-Mar	1	1	1	1	1	1	3	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.6
13-Mar	1	1	1	1	1	1	A	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	3.6
14-Mar	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.0
15-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.0
16-Mar	1	1	1	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1	1.8
17-Mar	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
18-Mar	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	1.3
19-Mar	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
20-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.8	1.0
21-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.9	1.1
22-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.8	0.9
23-Mar	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1.0	1.6
24-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.9	1.3
25-Mar	1	1	1	1	1	1	1	1	1	C	C	A	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.2
26-Mar	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.3
27-Mar	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	0.9
28-Mar	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	1.1
29-Mar	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	1.0
30-Mar	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	0.9
31-Mar	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.1
																								Diurnal Average		
																								Diurnal Maximum		

C - Calibration A - Automated Daily Zero Span

Hourly Maximums for TRS at Evergreen Park March 2009



Pollutant Rose for TRS at Evergreen Park March 2009



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

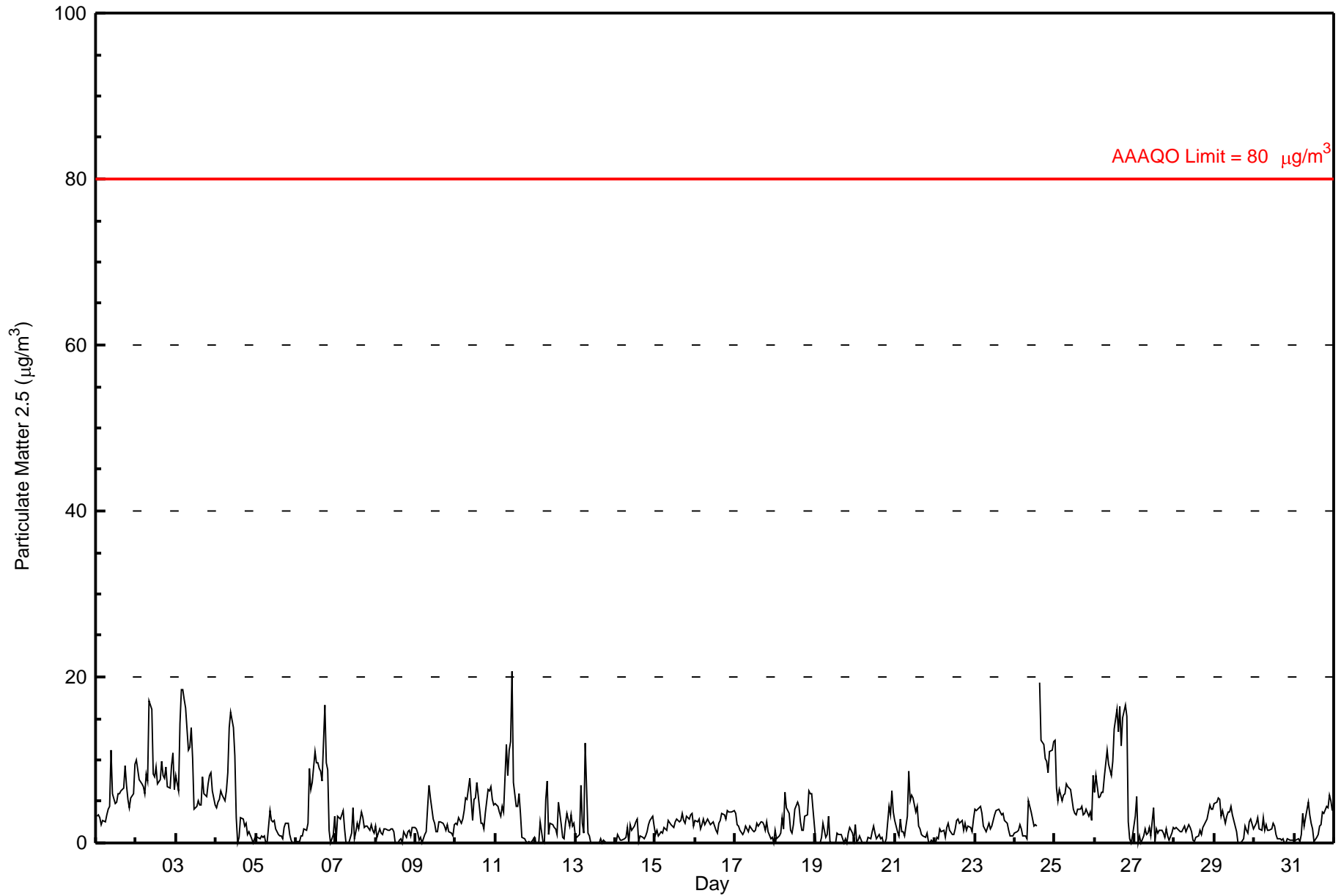
**Evergreen Park - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 20.6 µg/m ³ on Mar 11 11:00	Maximum Daily Average: 9.3 µg/m ³ on Mar 3
Minimum Value: 0 µg/m ³ on Mar 4 14:00	Hours of Data: 743
Maximum Diurnal Average: 4.9 µg/m ³ at hour 9	Hours of Missing Data: 1
Monthly Average: 3.29 µg/m ³	Hours of Calibration: 0
Minimum Daily Average: 0.7 µg/m ³ on Mar 19	Percent Operational Time: 99.9
Minimum Diurnal Average: 2.6 µg/m ³ at hour 3	
Percentiles: P ₁ = 0.0 P ₁₀ = 0.2 Q ₁ = 1.0 Median = 2.2 Q ₃ = 4.3 P ₉₀ = 8.0 P ₉₉ = 16.3	

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-Mar	3	3	3	2	3	3	3	4	4	11	6	5	5	6	6	6	7	9	7	5	4	5	6	9	5.3	11.2
2-Mar	10	9	8	7	7	6	8	7	17	16	8	8	9	7	8	10	8	8	9	7	7	9	11	7	8.8	17.0
3-Mar	8	6	14	19	18	17	16	11	12	14	10	4	4	5	5	8	6	6	7	8	8	6	5	5	9.3	18.5
4-Mar	4	5	5	6	6	5	6	9	14	16	14	11	3	0	1	3	3	2	2	1	1	1	0	0	4.9	15.7
5-Mar	1	1	0	1	1	1	0	0	4	3	2	3	2	1	1	1	1	2	2	2	1	0	0	0	1.2	3.9
6-Mar	0	0	0	1	1	2	2	2	9	6	7	11	10	10	9	9	7	17	10	9	2	0	1	3	5.3	16.7
7-Mar	0	3	3	3	4	2	0	0	0	1	4	0	1	2	2	4	3	2	2	2	2	2	1	1	1.9	4.3
8-Mar	2	1	2	1	1	2	2	2	2	2	2	1	0	0	0	0	0	1	1	1	2	1	2	2	1.2	2.1
9-Mar	2	1	0	1	0	1	1	4	7	5	3	2	1	1	2	3	2	2	1	2	1	1	1	2	2.1	7.0
10-Mar	2	2	3	2	3	4	5	5	8	5	3	5	5	7	4	2	2	2	4	6	6	7	5	5	4.3	7.9
11-Mar	5	4	4	3	4	4	12	8	11	12	21	7	4	4	6	4	1	0	0	0	0	0	0	1	4.8	20.6
12-Mar	0	0	0	2	0	0	5	7	1	2	2	2	1	5	2	1	1	1	2	4	2	3	2	2	2.1	7.4
13-Mar	1	1	1	7	2	1	12	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1.2	12.0
14-Mar	0	1	1	0	0	1	1	2	0	2	1	2	3	3	0	1	1	0	1	1	2	3	3	2	1.3	3.2
15-Mar	1	2	1	1	1	2	2	2	3	2	2	2	2	3	3	3	3	3	2	3	3	3	4	2	2.2	3.6
16-Mar	3	3	3	2	2	3	2	3	2	2	2	3	1	1	2	3	4	3	3	4	4	4	4	4	2.8	3.9
17-Mar	4	2	2	2	1	1	2	2	1	2	1	1	1	2	2	3	3	2	1	2	1	0	1	0	1.7	3.5
18-Mar	1	1	1	1	3	2	6	4	4	1	1	2	4	5	4	3	2	2	3	3	6	6	6	4	3.1	6.2
19-Mar	0	0	0	0	1	2	1	1	3	0	0	0	0	1	1	1	0	1	0	1	2	1	0	0	0.7	3.2
20-Mar	2	0	0	1	0	0	0	0	1	1	1	2	1	0	1	1	1	0	0	0	4	3	6	4	1.3	6.3
21-Mar	3	1	1	3	1	1	1	3	9	5	6	5	4	4	2	2	1	1	1	1	0	0	0	0	2.3	8.7
22-Mar	0	1	1	2	1	2	1	2	2	2	1	1	2	3	3	2	3	1	2	2	2	2	1	3	1.7	2.8
23-Mar	4	4	4	4	3	2	2	1	2	2	2	3	3	4	4	4	3	4	3	2	1	1	1	1	2.7	4.4
24-Mar	1	1	2	2	2	1	1	1	5	4	4	2	2	2	N	19	12	12	10	10	8	11	11	12	5.9	19.2
25-Mar	12	7	5	7	5	6	6	7	7	6	5	4	4	3	4	4	4	3	4	4	3	4	3	8	5.2	12.4
26-Mar	6	8	5	6	6	6	8	11	10	9	8	10	14	16	13	16	12	15	17	15	2	1	0	1	9.0	16.6
27-Mar	3	6	0	1	0	1	2	1	1	2	1	4	0	2	1	2	1	1	1	2	1	0	1	2	1.5	5.6
28-Mar	2	2	2	1	1	2	2	1	2	2	1	0	0	1	1	2	1	2	2	3	4	5	4	4	2.0	4.7
29-Mar	5	5	5	5	3	4	2	3	4	4	4	3	2	1	0	0	0	0	2	1	1	3	3	2	2.7	5.4
30-Mar	2	2	3	2	2	3	2	2	2	1	2	2	2	1	1	1	0	1	0	0	1	0	0	0	1.3	3.1
31-Mar	0	0	1	0	1	4	2	3	5	3	2	2	0	1	1	2	2	4	4	4	4	6	5	4	2.5	5.7
	2.8	2.6	2.6	3.1	2.7	2.8	3.7	3.6	4.9	4.7	4.1	3.5	3.0	3.2	3.1	3.7	3.1	3.4	3.3	3.4	2.8	3.0	2.9	2.9		Diurnal Average
	12.4	8.8	14.5	18.5	18.4	17.2	16.2	11.2	17.0	16.2	20.6	11.0	13.8	16.1	13.4	19.2	12.4	16.7	16.6	15.2	8.4	11.1	11.2	12.3		Diurnal Maximum

N - Not Valid
 Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 80 µg/m³ 24-hr 30 µg/m³

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

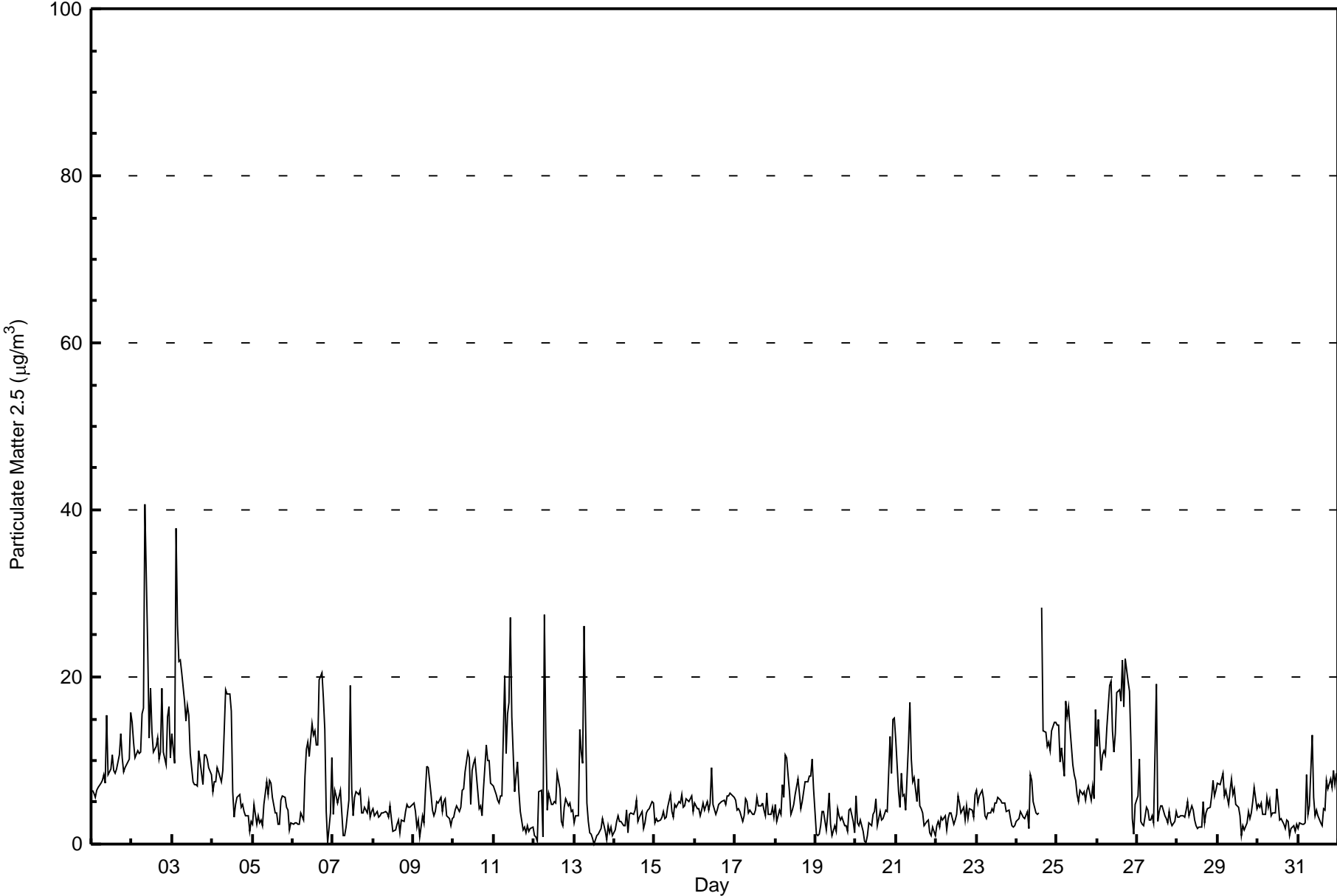


**Peace Airshed Zone Association
Summary of Hourly Maximums**

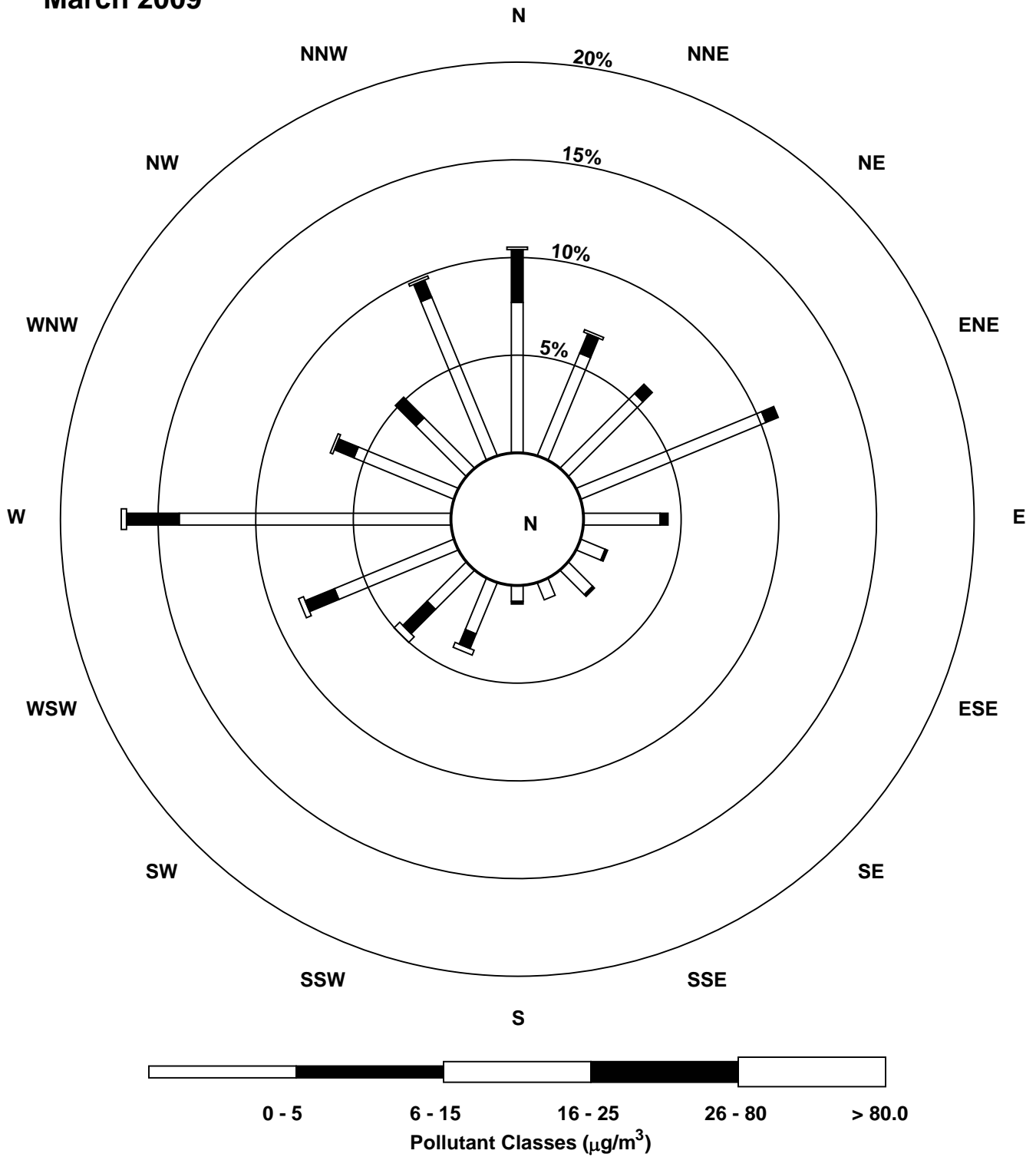
**Evergreen Park - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
March 1, 2009 to April 1, 2009**

Maximum Value: 40.7 µg/m ³ on Mar 2 09:00		Maximum Daily Average: 14.5 µg/m ³ on Mar 2		Hours in Service: 744																							
Minimum Value: 0 µg/m ³ on Mar 13 13:00		Minimum Daily Average: 2.7 µg/m ³ on Mar 19		Hours of Data: 743																							
Maximum Diurnal Average: 8.9 µg/m ³ at hour 9		Minimum Diurnal Average: 5.3 µg/m ³ at hour 2		Hours of Missing Data: 1																							
Monthly Average: 6.23 µg/m ³		Percentiles: P ₁ = 0.8 P ₁₀ = 2.2 Q ₁ = 3.2 Median = 4.6 Q ₃ = 7.5 P ₉₀ = 13.2 P ₉₉ = 25.9		Hours of Calibration: 0																							
				Percent Operational Time: 99.9																							
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-Mar	6	6	6	6	7	7	8	8	7	15	8	9	11	9	8	9	11	13	10	9	9	10	10	16	9.1	15.7	
2-Mar	15	12	10	11	11	11	16	16	41	23	13	19	13	11	12	13	10	11	19	11	9	15	16	10	14.5	40.7	
3-Mar	13	10	38	26	22	22	21	17	15	17	15	11	7	7	7	11	10	7	11	11	10	9	8	13.8	37.8		
4-Mar	6	8	8	9	9	7	9	13	19	18	18	16	6	3	5	6	6	4	5	4	3	3	2	3	7.9	18.5	
5-Mar	2	5	2	3	3	3	2	5	7	6	8	7	6	4	4	2	2	5	6	6	4	4	2	3	4.2	7.6	
6-Mar	2	3	3	2	2	4	3	8	11	12	11	14	13	14	12	12	20	20	17	14	4	0	4	10	9.0	20.5	
7-Mar	3	6	6	5	7	4	1	1	2	5	19	7	3	6	6	6	6	4	4	4	4	5	3	4	5.1	19.0	
8-Mar	4	3	4	3	3	4	4	4	4	3	5	3	2	2	2	3	1	3	3	4	5	4	4	5	3.4	4.8	
9-Mar	5	4	2	3	1	3	3	6	9	9	6	4	3	4	5	5	6	4	5	5	3	3	2	3	4.3	9.4	
10-Mar	3	4	5	4	4	6	7	9	11	10	5	9	10	10	6	4	5	3	7	12	10	10	7	7	7.0	11.8	
11-Mar	7	6	5	5	6	6	20	11	16	17	27	15	6	8	10	6	4	2	2	1	2	1	2	2	7.8	27.1	
12-Mar	1	1	0	6	6	1	27	13	4	6	5	5	5	5	9	7	3	2	4	5	4	5	4	4	5.6	27.4	
13-Mar	3	3	3	14	11	10	26	5	3	1	1	1	0	1	1	1	2	3	1	0	2	1	2	1	4.1	26.1	
14-Mar	2	3	3	3	3	2	2	4	1	4	4	4	4	5	3	3	4	2	3	4	4	4	5	5	3.3	5.2	
15-Mar	3	3	3	3	3	4	3	3	4	6	4	3	5	4	5	5	6	4	5	6	5	5	6	4	4.2	6.0	
16-Mar	5	4	4	3	4	5	4	5	4	5	9	5	4	4	5	5	5	5	5	6	6	6	6	6	5.0	9.1	
17-Mar	5	4	4	4	3	3	5	5	4	4	4	4	4	6	5	5	5	4	3	6	4	4	4	3	4.2	6.1	
18-Mar	5	3	4	4	7	6	11	10	6	3	4	5	6	8	6	4	5	6	8	7	8	8	10	7	6.3	10.7	
19-Mar	1	1	1	2	4	4	2	4	6	2	1	2	1	4	3	3	3	2	2	2	4	4	3	1	2.7	6.1	
20-Mar	6	3	2	3	2	0	0	1	2	2	4	4	5	2	4	3	3	4	4	4	13	8	15	15	4.5	15.1	
21-Mar	13	6	4	8	6	6	4	12	17	10	7	8	5	8	5	4	4	2	3	3	1	1	2	1	5.9	17.0	
22-Mar	2	3	2	3	3	3	2	3	4	4	2	3	4	6	5	4	4	3	5	3	4	4	3	6	3.5	6.0	
23-Mar	6	5	6	6	5	3	3	4	4	4	4	5	5	6	5	5	5	5	4	4	3	2	2	2	4.3	6.4	
24-Mar	3	3	4	4	3	3	4	2	8	8	5	4	4	4	N	28	14	13	12	12	11	14	15	15	8.3	28.4	
25-Mar	14	14	10	12	8	17	15	17	14	9	8	8	6	5	6	6	6	5	6	7	5	7	5	16	9.5	17.0	
26-Mar	12	15	9	11	11	11	14	19	19	14	11	13	18	18	17	22	16	22	19	18	12	3	1	5	13.8	22.1	
27-Mar	6	10	3	2	2	4	4	3	3	3	3	19	3	4	5	5	3	3	3	4	3	2	3	4	4.3	19.1	
28-Mar	3	3	3	3	3	4	5	3	5	4	3	2	2	2	2	5	3	4	4	4	6	8	6	6	3.9	7.6	
29-Mar	7	7	8	8	6	6	5	6	8	6	7	5	4	3	1	2	2	3	4	3	4	5	7	4	5.0	8.5	
30-Mar	5	4	5	4	4	6	4	5	3	4	4	7	5	3	3	2	2	3	3	1	2	2	1	2	3.5	6.6	
31-Mar	2	2	2	2	3	8	4	5	13	6	3	4	3	3	2	4	4	8	7	8	7	9	7	8	5.2	13.0	
		5.5	5.3	5.5	5.9	5.5	5.9	7.6	7.3	8.9	7.8	7.3	7.2	5.6	5.7	5.6	6.3	5.8	5.9	6.1	6.1	5.6	5.5	5.5	6.0	Diurnal Average	
		14.6	15.0	37.8	26.2	21.8	22.0	27.4	18.9	40.7	23.4	27.1	19.1	18.1	18.4	17.2	28.4	19.6	22.1	19.4	18.4	12.9	15.2	16.5	16.0	Diurnal Maximum	
N - Not Valid																											

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



Pollutant Rose for PM_{2.5} at Evergreen Park March 2009

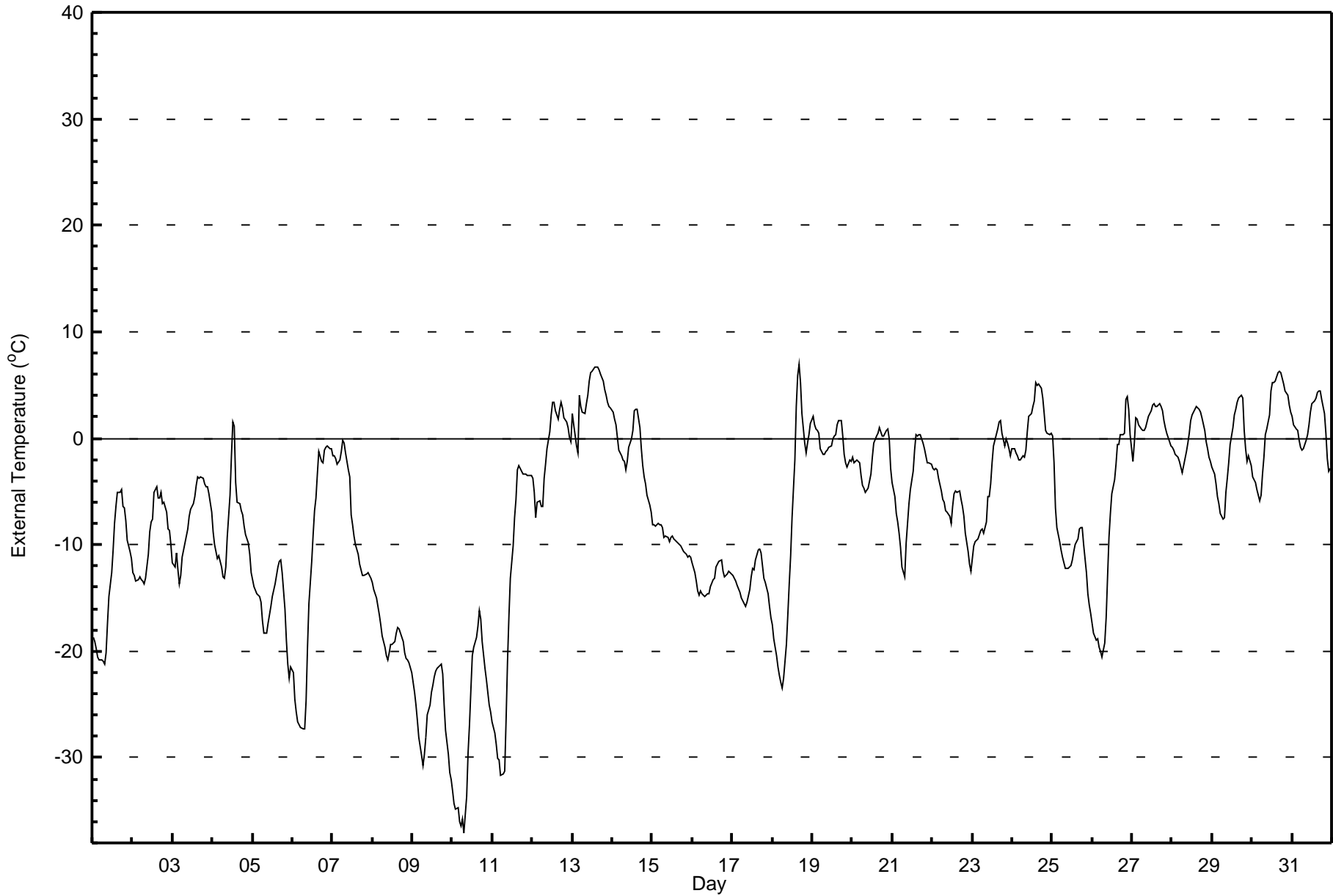


**Peace Airshed Zone Association
Summary of Hourly Averages**

**Evergreen Park - External Temperature (ET) - °C
March 1, 2009 to April 1, 2009**

Maximum Value: 7.0 °C on Mar 18 17:00		Maximum Daily Average: 3.9 °C on Mar 13		Hours in Service: 744																						
Minimum Value: -37 °C on Mar 10 08:00		Minimum Daily Average: -26.8 °C on Mar 10		Hours of Data: 744																						
Maximum Diurnal Average: -3.3 °C at hour 17		Minimum Diurnal Average: -11.9 °C at hour 7		Hours of Missing Data: 0																						
Monthly Average: -7.64 °C		Percentiles: P ₁ = -33.7 P ₁₀ = -20.8 Q ₁ = -13.0 Median = -5.7 Q ₃ = -0.5 P ₉₀ = 2.6 P ₉₉ = 6.2		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-Mar	-19	-19	-20	-21	-21	-21	-21	-21	-20	-17	-15	-13	-11	-8	-6	-5	-5	-5	-6	-6	-8	-10	-11	-11	-13.3	-4.8
2-Mar	-13	-13	-13	-13	-13	-13	-13	-14	-13	-11	-9	-8	-8	-5	-5	-6	-6	-5	-6	-6	-7	-9	-9	-10	-9.4	-4.6
3-Mar	-12	-12	-11	-12	-14	-13	-11	-10	-9	-8	-7	-7	-6	-6	-4	-4	-4	-4	-4	-4	-5	-5	-5	-7	-7.6	-3.6
4-Mar	-9	-10	-11	-11	-11	-12	-13	-13	-12	-9	-5	-2	1	1	-4	-6	-6	-7	-7	-8	-9	-10	-11	-13	-8.2	1.5
5-Mar	-13	-14	-15	-15	-15	-15	-17	-18	-18	-17	-17	-16	-15	-14	-13	-12	-12	-11	-13	-16	-19	-21	-23	-21	-15.8	-11.5
6-Mar	-22	-25	-26	-27	-27	-27	-27	-27	-25	-20	-16	-12	-9	-7	-6	-3	-1	-2	-2	-1	-1	-1	-1	-1	-13.1	-0.7
7-Mar	-2	-2	-2	-2	-2	-1	0	-1	-1	-3	-4	-7	-8	-9	-10	-11	-12	-12	-13	-13	-13	-13	-13	-13	-6.9	-0.2
8-Mar	-14	-14	-15	-16	-17	-17	-19	-20	-20	-21	-20	-19	-19	-19	-18	-18	-18	-18	-19	-20	-21	-21	-21	-22	-18.6	-13.5
9-Mar	-23	-24	-25	-27	-28	-30	-31	-30	-28	-26	-25	-24	-23	-22	-22	-22	-21	-21	-22	-25	-27	-30	-31	-32	-25.8	-21.1
10-Mar	-33	-34	-35	-35	-36	-36	-36	-37	-34	-30	-27	-24	-20	-20	-19	-18	-16	-17	-19	-22	-23	-24	-25	-26	-26.8	-16.2
11-Mar	-27	-28	-29	-30	-30	-32	-32	-31	-26	-21	-17	-13	-10	-8	-6	-3	-3	-3	-3	-3	-3	-3	-4	-4	-15.3	-2.6
12-Mar	-4	-5	-8	-6	-6	-6	-6	-4	-2	-1	1	2	3	3	3	2	3	3	2	2	1	0	0	0	-0.9	3.4
13-Mar	2	1	-1	-1	4	3	2	2	3	4	5	6	6	7	7	7	6	6	5	5	4	3	3	3	3.9	6.7
14-Mar	2	2	1	0	-1	-2	-2	-2	-3	-2	-1	0	1	3	3	3	1	-1	-3	-4	-4	-5	-6	-7	-1.2	2.7
15-Mar	-8	-8	-8	-8	-8	-8	-8	-9	-9	-9	-10	-9	-9	-9	-10	-10	-10	-10	-10	-11	-11	-11	-11	-11	-9.5	-8.0
16-Mar	-12	-13	-13	-14	-15	-14	-15	-15	-15	-15	-15	-14	-13	-13	-12	-12	-12	-11	-12	-13	-13	-13	-13	-13	-13.3	-11.5
17-Mar	-13	-13	-13	-14	-14	-15	-15	-16	-16	-15	-14	-13	-12	-12	-11	-11	-10	-11	-12	-13	-14	-15	-16	-17	-13.6	-10.4
18-Mar	-17	-19	-20	-22	-22	-23	-23	-23	-19	-17	-14	-11	-7	-2	3	6	7	5	2	-1	-1	0	0	1	-9.0	7.0
19-Mar	2	1	1	1	1	-1	-2	-1	-1	-1	-1	-1	0	0	0	1	2	2	0	-1	-2	-3	-2	-2	-0.3	2.0
20-Mar	-2	-2	-2	-2	-2	-3	-4	-5	-5	-5	-4	-3	-2	0	0	0	1	1	0	0	1	1	0	-3	-1.7	1.0
21-Mar	-4	-6	-7	-8	-9	-10	-12	-13	-10	-8	-6	-5	-3	-1	0	0	0	0	-1	-2	-2	-2	-2	-2	-4.6	0.3
22-Mar	-3	-3	-3	-3	-4	-5	-6	-6	-7	-7	-7	-8	-6	-5	-5	-5	-5	-6	-6	-7	-9	-11	-12	-12	-6.3	-2.8
23-Mar	-11	-10	-10	-9	-9	-9	-9	-9	-8	-6	-5	-4	-2	-1	0	1	2	2	1	-1	0	0	-1	-2	-4.2	1.7
24-Mar	-1	-1	-1	-2	-2	-2	-2	-2	-1	1	2	2	3	4	5	5	5	5	4	2	1	0	0	0	1.1	5.2
25-Mar	0	-2	-7	-8	-10	-11	-11	-12	-12	-12	-12	-12	-11	-11	-10	-9	-8	-8	-8	-10	-13	-15	-16	-16	-10.2	0.2
26-Mar	-17	-18	-19	-19	-20	-20	-20	-19	-17	-13	-9	-7	-5	-4	-2	-1	-1	0	0	1	4	4	3	0	-8.3	4.0
27-Mar	-2	-1	2	2	1	1	1	1	1	2	2	3	3	3	3	3	3	3	3	2	1	0	0	-1	1.5	3.3
28-Mar	-1	-1	-2	-2	-2	-3	-3	-3	-1	-1	1	2	2	2	3	3	3	2	2	1	0	-1	-2	-2	-0.1	3.0
29-Mar	-3	-3	-4	-6	-6	-7	-8	-7	-5	-4	-2	-1	1	2	3	3	4	4	4	1	-1	-2	-2	-3	-1.7	4.1
30-Mar	-4	-4	-4	-5	-6	-5	-3	-2	0	1	2	4	5	5	5	6	6	6	6	5	4	4	3	2	1.4	6.3
31-Mar	2	1	1	1	0	-1	-1	-1	0	0	1	2	3	4	4	4	4	4	4	2	0	-2	-3	-3	1.2	4.5
																								Diurnal Average		
																								Diurnal Maximum		

Hourly Averages for External Temperature at Evergreen Park March 2009



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

Evergreen Park
March 1, 2009 to April 1, 2009
WS (km/h), WD (deg)

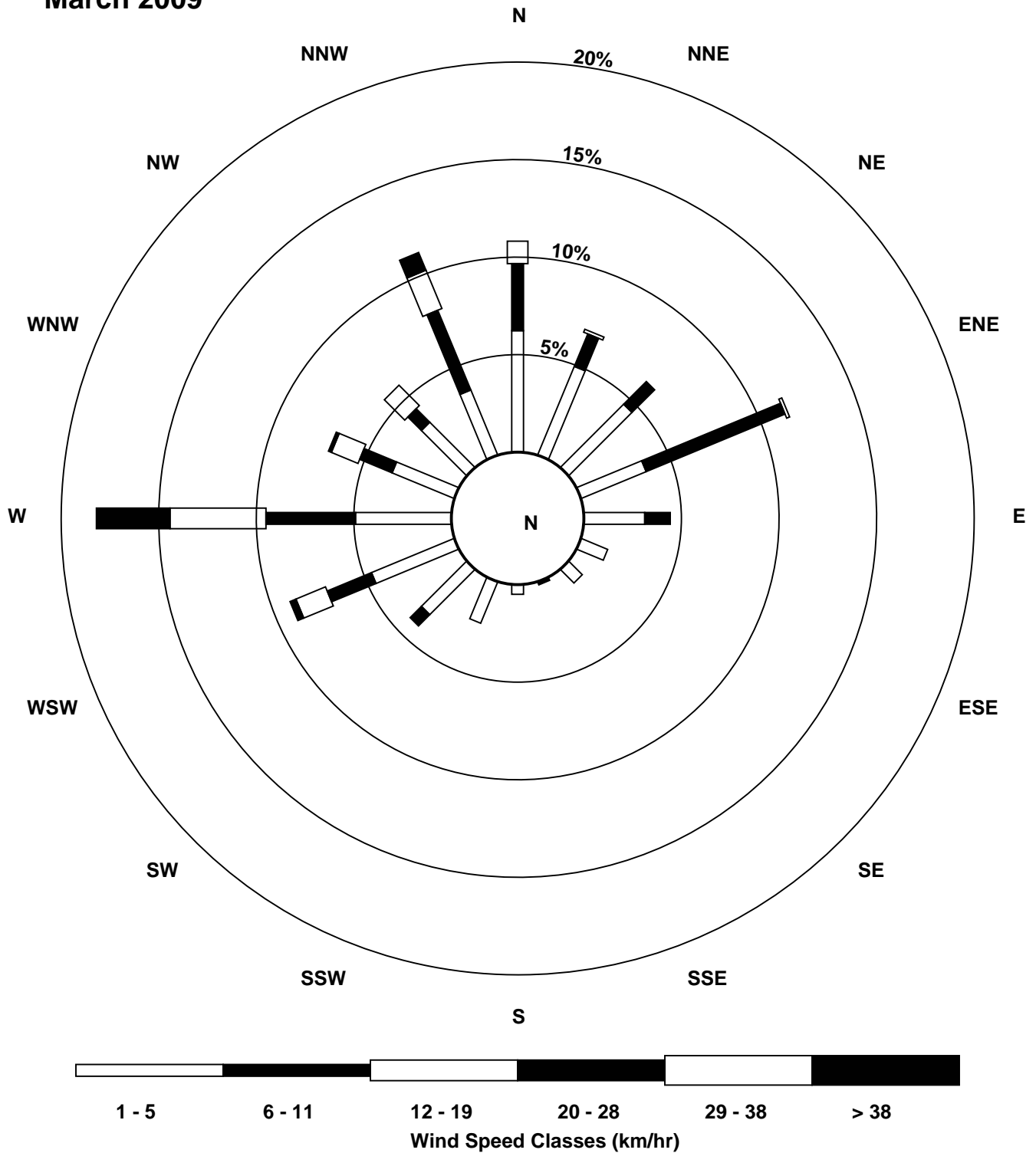
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1 Spd	1	1	1	1	1	0	0	0	0	2	3	4	5	3	4	4	4	4	4	2	1	1	1	2	1.4	4.6
Dir	330	276	256	287	287	343	280	264	54	41	2	38	47	3	343	8	5	333	305	338	211	210	194	52	354.1	46.9
2 Spd	1	1	1	1	0	1	1	0	1	2	3	3	4	1	3	4	3	2	6	1	2	1	1	1	1.1	6.3
Dir	247	273	40	250	275	58	260	29	16	247	330	354	352	33	355	359	352	313	277	145	204	280	264	80	324.0	276.7
3 Spd	1	4	1	0	1	1	2	1	0	3	2	3	4	3	3	4	4	3	1	1	0	1	2	2	1.4	4.4
Dir	240	211	228	201	257	198	221	269	208	222	279	275	339	320	354	260	274	278	300	215	21	288	226	222	266.3	273.8
4 Spd	1	0	1	1	1	0	0	1	1	2	1	3	10	7	13	9	9	11	10	18	15	14	11	10	4.4	17.7
Dir	234	225	209	36	229	86	201	223	222	216	244	237	247	255	33	32	7	4	354	342	346	350	356	351	347.3	341.9
5 Spd	6	8	8	5	9	12	8	4	5	7	11	10	11	11	10	9	8	7	4	1	1	0	0	1	5.6	12.0
Dir	346	341	333	311	338	338	326	288	288	297	294	283	275	282	281	280	278	272	253	154	173	131	180	165	299.9	338.5
6 Spd	1	1	1	0	0	0	0	0	1	1	2	2	4	4	3	2	2	4	1	8	7	3	2	0	1.2	7.6
Dir	81	43	55	263	147	5	64	356	349	4	264	268	1	17	21	359	357	279	292	266	270	287	246	166	308.3	266.3
7 Spd	2	1	1	1	3	8	18	23	18	15	20	22	22	22	23	21	22	19	18	14	9	11	14	14	12.0	23.2
Dir	189	139	139	232	270	263	262	266	278	286	293	337	340	333	340	335	341	343	344	341	329	335	354	356	321.1	265.8
8 Spd	7	11	13	13	13	13	16	14	14	11	9	6	8	12	9	9	12	9	4	0	3	3	4	7	8.7	15.6
Dir	14	9	359	356	352	349	345	346	344	352	353	335	323	341	339	320	342	357	62	276	309	319	321	40	348.8	344.8
9 Spd	8	6	2	1	0	0	1	1	2	3	5	6	8	5	4	5	3	3	0	1	1	0	0	0	1.6	8.1
Dir	68	68	48	354	334	313	25	301	332	358	349	267	291	349	352	344	330	267	38	64	204	181	360	240	347.4	67.9
10 Spd	1	0	1	2	2	N	2	N	2	3	4	4	2	5	6	5	6	6	3	2	2	1	1	1	0.8	6.1
Dir	195	277	244	223	202	N	212	N	217	222	238	253	247	4	10	21	51	53	37	338	285	286	326	286	336.5	51.0
11 Spd	2	2	1	0	2	0	1	1	0	1	2	4	5	6	5	10	14	12	12	12	10	13	17	10	5.8	16.5
Dir	243	214	223	213	220	260	217	220	225	251	345	280	285	281	272	282	276	275	271	266	260	266	264	267	268.7	263.6
12 Spd	1	1	1	3	3	1	4	5	6	11	14	18	20	18	14	2	3	2	1	1	1	0	1	0	4.9	20.3
Dir	259	242	169	247	245	261	261	276	284	274	272	278	278	282	276	3	205	178	127	102	130	162	144	99	272.3	278.0
13 Spd	1	0	0	1	3	1	2	4	5	8	15	16	21	22	20	19	20	15	12	9	12	12	9	11	9.7	22.0
Dir	211	125	210	313	289	39	299	332	323	287	283	283	278	274	271	275	271	271	265	264	265	267	273	258	275.2	274.2
14 Spd	7	5	4	1	1	1	1	1	2	2	3	5	5	5	8	8	8	8	8	8	9	10	8	7	3.5	9.9
Dir	247	242	250	55	77	119	91	73	42	23	12	4	7	37	65	67	65	73	70	75	77	77	77	81	63.3	76.8
15 Spd	9	10	9	7	7	6	5	7	9	7	7	7	7	8	9	9	10	10	9	5	6	5	4	5	5.9	9.8
Dir	73	74	71	76	71	71	55	41	46	38	31	32	357	358	349	353	351	351	350	342	339	334	321	2	23.5	73.6
16 Spd	5	4	5	6	6	6	4	5	7	8	9	9	8	9	6	4	4	4	2	2	1	0	1	1	4.6	8.8
Dir	345	320	342	329	332	330	321	319	339	339	331	346	352	349	348	356	340	339	325	285	320	122	152	80	338.1	331.1
17 Spd	1	3	2	4	5	3	3	4	6	5	5	5	5	6	5	6	7	7	4	2	3	3	3	3	3.9	7.1
Dir	100	99	89	80	77	77	77	75	61	61	55	38	29	13	28	56	66	59	51	58	80	80	72	80	59.8	58.6
18 Spd	2	0	0	1	1	1	1	1	2	2	2	3	2	4	6	4	3	3	3	6	5	2	2	4	0.5	6.0
Dir	67	1	334	338	210	47	13	50	55	46	288	16	353	143	152	140	124	32	3	337	334	254	251	264	20.2	337.1
19 Spd	8	5	4	5	5	4	1	1	2	3	4	5	6	5	5	4	2	3	4	2	1	2	2	3	1.2	8.1
Dir	252	256	231	229	269	236	207	66	18	32	33	22	17	26	6	18	29	51	51	44	18	39	90	93	357.0	252.4
20 Spd	3	4	5	6	7	8	9	8	10	8	7	8	9	10	10	12	11	11	10	8	4	3	2	5	6.7	11.6
Dir	102	68	74	77	79	75	76	79	79	78	76	68	80	67	70	60	62	65	71	77	131	123	175	254	75.3	59.9
21 Spd	12	14	11	10	6	3	1	0	1	3	4	4	4	4	8	9	8	6	8	8	8	5	5	8	2.1	14.4
Dir	280	271	280	277	272	257	69	24	323	11	354	7	12	24	52	70	70	68	64	74	81	75	73	77	18.2	270.5
22 Spd	9	8	8	9	8	8	8	9	9	6	6	9	5	6	7	6	6	5	3	1	1	0	0	0	5.3	9.0
Dir	77	80	76	80	74	73	72	73	78	73	40	37	31	31	19	25	56	41	51	23	10	8	217	283	59.8	77.1

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

Evergreen Park
March 1, 2009 to April 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	0	0	1	1	2	1	1	3	3	1	6	6	6	5	6	6	5	3	3	3	4	5	4	3	2.7	6.1
Dir	211	270	40	16	91	115	72	78	81	32	1	10	9	26	17	21	20	32	47	81	90	88	78	39.3	21.9	
24 Spd	4	3	2	1	1	2	2	3	2	1	1	4	5	5	2	4	5	5	3	1	3	2	2	1	1.4	5.3
Dir	103	97	63	34	24	103	122	69	237	105	270	13	9	5	326	214	73	91	96	104	65	309	19	210	61.5	73.4
25 Spd	1	12	14	17	15	16	17	15	14	14	14	12	10	10	10	7	5	5	2	1	0	0	1	0	8.5	17.3
Dir	238	342	330	326	314	316	320	315	318	314	318	322	319	321	349	343	289	276	274	9	133	10	40	224	320.9	320.1
26 Spd	1	1	1	0	1	0	1	1	3	2	2	5	4	5	5	4	3	2	0	3	9	8	5	3	1.7	9.4
Dir	40	69	357	283	241	78	273	276	256	262	282	1	4	5	0	284	349	20	261	222	264	280	250	206	295.5	264.5
27 Spd	1	15	19	19	23	24	22	25	23	24	26	26	26	25	26	25	26	23	18	19	18	16	15	15	20.6	26.4
Dir	358	263	254	268	265	264	263	265	267	272	273	275	276	273	277	274	276	276	277	274	266	260	251	252	268.8	273.1
28 Spd	15	14	11	10	8	9	7	10	12	16	18	14	14	16	14	15	13	13	9	5	2	2	3	4	10.3	18.0
Dir	257	257	251	256	249	252	258	255	263	274	273	289	283	285	288	285	279	275	273	266	257	278	290	282	270.7	273.0
29 Spd	3	3	2	3	3	3	5	3	7	9	8	7	7	6	7	5	4	2	2	2	2	2	3	2	3.2	8.7
Dir	318	292	293	258	298	306	311	285	285	278	273	283	272	272	273	339	331	350	29	88	128	203	206	195	285.2	277.9
30 Spd	2	1	0	1	1	3	6	5	10	9	8	18	20	23	20	23	23	18	15	14	13	12	7	10	10.4	22.9
Dir	206	201	266	75	71	220	223	231	237	225	240	267	269	262	256	259	253	255	252	248	242	246	247	245	251.5	262.1
31 Spd	10	7	6	2	1	2	4	4	6	8	10	10	10	10	11	8	8	4	4	1	1	1	3	3	3.8	10.7
Dir	232	222	230	223	323	280	320	300	281	284	327	331	325	332	342	342	321	337	69	60	212	247	223	264	304.7	342.0
Spd	0.8	1.5	1.6	1.8	2.0	1.9	2.3	2.6	2.9	3.6	5.1	5.7	6.3	6.1	5.5	4.7	4.3	3.6	2.6	2.2	2.0	2.0	1.6	1.3	Diurnal Average	
Dir	289.8	299.3	306.6	307.7	307.3	311.8	300.8	300.2	305.6	300.8	305.2	314.5	310.8	314.1	326.4	323.7	321.7	323.0	325.9	313.4	290.0	294.8	290.3	298.1		
Spd	15.1	15.2	19.2	18.8	23.3	23.9	22.2	25.0	23.1	24.1	26.4	25.6	26.2	25.0	26.0	25.1	25.8	22.5	18.4	18.7	18.1	15.6	16.5	14.8	Diurnal Maximum	
Dir	257.4	263.0	253.9	268.1	265.1	264.1	262.6	265.1	267.3	271.8	273.1	274.9	275.6	272.6	277.0	273.8	275.8	275.6	277.0	273.7	265.9	259.8	263.6	252.0		
Maximum Speed Value: 26 km/h on Mar 27 11:00		Minimum Speed Value: 0 km/h on Mar 13 03:00																Hours in Service: 744								
Maximum Daily Speed Average: 20.6 km/h on Mar 27		Minimum Daily Speed Average: 0.5 km/h on Mar 2																Hours of Data: 742								
Maximum Diurnal Speed Average: 6.3 km/h at hour 13		Minimum Diurnal Speed Average: 0.8 km/h at hour 1																Hours of Missing Data: 2								
Monthly Average Velocity: 3.04 km/h 311.06 deg		Speed Percentiles: P ₁ = 0.2 P ₁₀ = 0.6 Q ₁ = 1.6 Median = 4.2 Q ₃ = 8.6 P ₉₀ = 14.3 P ₉₉ = 25.0																Percent Operational Time: 99.7								
All monthly, daily, and diurnal averages have been calculated using vector methods																										
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	74	47	21	4	0	0	146																			
NorthEast	58	33	3	0	0	0	94																			
East	49	47	0	0	0	0	96																			
SouthEast	22	1	0	0	0	0	23																			
South	18	0	0	0	0	0	18																			
SouthWest	72	12	2	0	0	0	86																			
West	74	50	50	27	0	0	201																			
NorthWest	43	20	11	4	0	0	78																			
Total	410	210	87	35	0	0	742																			

Wind Rose for WS at Evergreen Park March 2009



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

Evergreen Park - Wind Speed (WS) - km/h
March 1, 2009 to April 1, 2009

Maximum Speed: 27 km/h on Mar 27 11:00	Maximum Daily Speed Average: 20.9 km/h on Mar 27	Hours in Service: 744
Minimum Speed: 1 km/h on Mar 9 06:00	Minimum Daily Speed Average: 2.5 km/h on Mar 3	Hours of Data: 742
Maximum Diurnal Speed Average: 9.7 km/h at hour 14	Minimum Diurnal Speed Average: 4.5 km/h at hour 1	Hours of Missing Data: 2
Monthly Average Speed: 6.48 km/h	Percentiles: P ₁ = 0.8 P ₁₀ = 1.2 Q ₁ = 2.2 Median = 4.7 Q ₃ = 8.9 P ₉₀ = 14.6 P ₉₉ = 25.1	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-Mar	1	1	2	1	1	1	1	1	1	2	3	4	5	4	5	5	4	4	4	3	3	2	4	2	2.7	5.2
2-Mar	2	2	2	1	2	2	3	2	2	3	4	4	5	3	4	5	4	3	7	4	3	2	2	2	3.1	7.4
3-Mar	2	4	3	1	1	1	3	2	1	3	2	4	5	4	4	4	5	3	2	1	1	1	2	2	2.5	5.2
4-Mar	1	1	2	1	1	1	1	1	2	2	2	4	10	12	14	9	9	11	10	18	15	14	11	10	6.7	18.0
5-Mar	6	8	8	5	9	12	9	4	5	8	11	11	11	12	10	9	9	7	4	1	1	1	1	1	6.8	12.2
6-Mar	1	1	1	1	1	1	1	1	1	1	2	2	4	4	4	3	3	4	2	8	7	4	3	2	2.6	7.7
7-Mar	3	3	2	2	4	9	18	23	18	15	22	22	23	23	23	21	22	19	18	15	9	12	14	15	14.8	23.4
8-Mar	8	12	13	13	13	13	16	14	14	11	10	7	10	13	10	11	12	10	4	1	4	3	4	7	9.7	15.8
9-Mar	8	6	2	1	1	1	1	1	2	3	5	6	8	6	6	6	4	3	2	1	1	1	1	1	3.3	8.4
10-Mar	1	1	1	2	2	N	2	N	2	3	4	4	4	5	6	6	6	6	3	2	2	1	1	2	3.0	6.2
11-Mar	2	2	1	1	2	1	1	1	1	1	2	4	6	6	5	11	14	12	12	12	11	13	17	10	6.2	16.6
12-Mar	1	2	1	4	4	2	4	5	6	11	15	18	20	19	14	3	3	2	2	2	2	1	1	1	5.9	20.4
13-Mar	1	1	1	2	4	2	3	4	5	8	15	16	22	22	20	19	20	15	13	9	12	12	9	11	10.3	22.2
14-Mar	7	6	4	2	1	2	1	2	2	2	3	5	5	5	8	9	8	8	8	8	10	10	9	8	5.6	10.1
15-Mar	10	10	9	8	7	7	5	7	9	7	7	7	8	8	10	10	10	10	9	6	6	5	4	5	7.6	10.1
16-Mar	5	4	5	6	6	6	5	5	7	9	9	9	8	9	6	5	5	4	3	2	2	2	1	2	5.2	9.5
17-Mar	2	3	2	4	5	3	4	4	6	6	6	6	6	6	6	6	7	7	4	2	3	3	3	3	4.4	7.2
18-Mar	2	1	1	1	1	1	1	1	2	3	2	4	2	5	6	4	4	3	3	7	5	3	3	4	3.0	6.8
19-Mar	9	5	4	5	6	4	1	1	2	3	4	6	6	6	6	4	3	4	4	2	1	2	3	3	3.8	8.5
20-Mar	3	4	5	6	7	9	9	8	10	9	8	8	9	10	10	12	11	11	10	8	6	4	6	9	8.0	11.8
21-Mar	14	15	11	10	6	4	2	2	2	3	4	4	4	8	9	8	6	8	8	8	8	5	6	8	6.7	14.6
22-Mar	9	8	8	9	9	8	8	9	9	7	7	9	6	6	7	6	7	5	4	2	1	1	1	1	6.1	9.3
23-Mar	1	1	1	1	2	2	2	3	3	4	6	6	6	6	6	6	5	4	3	3	4	5	4	3	3.6	6.5
24-Mar	4	3	2	1	1	2	2	3	3	2	3	4	5	5	3	5	6	5	4	2	3	2	3	2	3.1	5.6
25-Mar	1	13	15	17	15	16	18	15	15	14	15	12	11	11	11	7	6	5	3	1	1	1	1	1	9.3	17.6
26-Mar	1	1	1	1	1	1	2	2	3	3	3	5	5	5	5	4	4	3	2	3	9	8	5	3	3.4	9.5
27-Mar	1	16	19	19	23	24	22	25	23	24	27	26	26	25	26	25	26	23	19	19	18	16	15	15	20.9	26.5
28-Mar	15	14	11	10	9	9	7	10	12	16	18	14	15	16	14	15	13	13	9	5	2	2	3	4	10.8	18.1
29-Mar	4	4	2	3	3	4	5	4	7	9	8	7	8	7	7	6	5	2	2	2	2	2	4	2	4.5	8.8
30-Mar	2	2	1	1	1	3	6	5	10	9	9	18	20	23	20	23	23	19	15	14	13	12	7	10	11.1	23.2
31-Mar	10	7	6	3	1	2	4	4	6	8	11	11	11	11	11	9	8	7	4	2	3	1	3	3	6.1	11.2

4.5	5.2	4.7	4.6	4.8	5.1	5.3	5.6	6.1	6.8	7.9	8.7	9.5	9.7	9.6	8.9	8.8	7.7	6.3	5.6	5.4	4.9	4.8	4.9	Diurnal Average	
15.2	15.8	19.3	19.0	23.5	24.0	22.2	25.1	23.2	24.3	26.5	25.7	26.4	25.2	26.1	25.2	25.9	22.7	18.5	18.9	18.2	15.7	16.6	14.9	Diurnal Maximum	

N - Not Valid
 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
March 1, 2009 to April 1, 2009**

Maximum Value: 99.3 deg on Mar 4 07:00																								Hours in Service: 744	
Minimum Value: 4.4 deg on Mar 11 23:00																								Hours of Data: 742	
Percentiles: P ₁ = 5.0 P ₁₀ = 8.3 Q ₁ = 12.5 Median = 21.3 Q ₃ = 46.7 P ₉₀ = 75.6 P ₉₉ = 93.5																								Hours of Missing Data: 2	
																								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-Mar	32	32	35	62	63	94	78	66	78	41	23	24	32	41	33	24	27	20	27	44	95	84	80	46	94.8
2-Mar	81	77	66	92	90	74	89	93	67	72	47	43	48	85	46	26	40	46	37	74	41	78	77	82	92.9
3-Mar	78	14	82	90	65	61	33	60	86	20	47	36	40	46	52	22	13	30	76	59	88	72	23	26	89.8
4-Mar	50	87	62	82	84	88	99	71	89	22	72	45	15	44	16	14	19	18	9	10	8	7	10	7	99.3
5-Mar	16	9	10	15	9	11	13	28	17	16	16	14	11	12	16	16	14	9	21	58	57	66	69	56	68.6
6-Mar	77	14	52	81	85	90	76	78	69	59	22	31	19	17	20	32	49	29	92	8	7	40	80	86	91.6
7-Mar	58	74	83	88	22	11	7	8	9	15	23	11	10	14	11	11	10	9	8	8	13	23	10	11	87.7
8-Mar	18	18	19	11	10	10	9	10	11	15	22	29	27	17	26	28	18	31	13	93	28	13	17	23	92.8
9-Mar	11	10	32	34	71	87	41	34	28	21	26	25	27	39	51	43	53	34	83	78	73	76	92	85	92.1
10-Mar	41	74	25	44	19	N	18	N	18	13	14	22	73	19	18	18	16	14	20	25	32	57	48	48	74.4
11-Mar	58	57	65	78	23	81	34	38	50	34	37	27	13	19	10	10	8	6	6	6	6	5	4	12	80.8
12-Mar	58	82	40	12	18	65	20	13	17	6	7	8	7	10	12	59	26	39	70	70	70	69	50	75	82.2
13-Mar	67	81	99	77	30	85	54	15	12	16	8	11	7	8	6	6	6	6	6	6	6	6	10	6	99.3
14-Mar	10	17	40	83	60	67	54	67	19	26	26	11	19	21	18	15	13	15	10	12	11	11	12	14	83.4
15-Mar	13	13	14	14	14	20	22	11	12	17	14	19	21	19	11	13	10	10	11	21	15	12	19	24	23.8
16-Mar	23	21	13	16	13	13	14	13	16	17	22	19	20	12	31	31	29	27	32	50	43	84	62	42	83.6
17-Mar	38	18	20	20	16	20	19	20	15	16	25	25	22	16	36	26	21	10	11	16	15	13	23	19	37.9
18-Mar	41	73	69	90	76	76	54	57	12	36	37	48	36	70	22	28	50	29	22	57	26	31	69	34	89.8
19-Mar	19	14	22	24	29	18	20	56	44	21	26	21	18	22	20	32	55	40	11	25	43	34	45	20	56.0
20-Mar	36	12	13	13	13	11	12	10	11	15	16	11	16	13	14	10	9	13	11	9	43	40	81	56	80.9
21-Mar	50	9	9	8	26	63	89	75	74	28	24	18	17	25	14	14	12	13	9	11	13	14	15	12	89.1
22-Mar	13	11	10	11	11	12	9	12	13	32	41	15	27	24	18	22	20	19	14	53	58	92	97	88	96.8
23-Mar	92	94	40	58	53	34	28	16	30	73	13	20	17	21	20	19	17	27	16	24	8	7	11	10	93.8
24-Mar	9	18	21	35	47	32	65	14	89	55	73	17	19	25	68	47	20	29	26	50	13	46	57	88	89.1
25-Mar	71	20	13	13	13	11	11	12	12	15	18	15	23	29	15	23	33	20	47	36	71	81	56	69	81.3
26-Mar	71	39	66	91	57	89	81	68	28	38	36	16	16	18	20	39	50	64	96	38	6	13	17	24	96.4
27-Mar	76	24	7	8	6	5	5	5	6	7	6	6	6	7	6	7	7	7	7	6	5	8	7	7	76.4
28-Mar	6	7	6	5	8	5	7	4	9	7	8	12	14	11	11	10	10	6	6	8	16	38	22	15	37.6
29-Mar	21	28	31	9	29	22	20	40	14	9	10	14	16	21	22	45	41	56	42	25	27	44	26	14	55.8
30-Mar	46	74	85	76	60	64	9	37	9	12	26	14	13	9	8	9	9	18	12	6	7	6	7	8	84.7
31-Mar	5	5	5	32	71	20	16	20	11	11	20	21	23	33	18	28	27	54	34	77	86	72	8	23	86.5
91.6	93.8	99.3	91.8	89.9	94.1	99.3	92.9	89.1	73.1	73.0	48.2	73.2	84.9	68.4	59.4	54.8	63.9	96.4	92.8	94.8	92.4	96.8	88.3		
N - Not Valid																									

PASZA

Smoky Heights Station

Monthly Summary Tables, Graphs and Roses

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

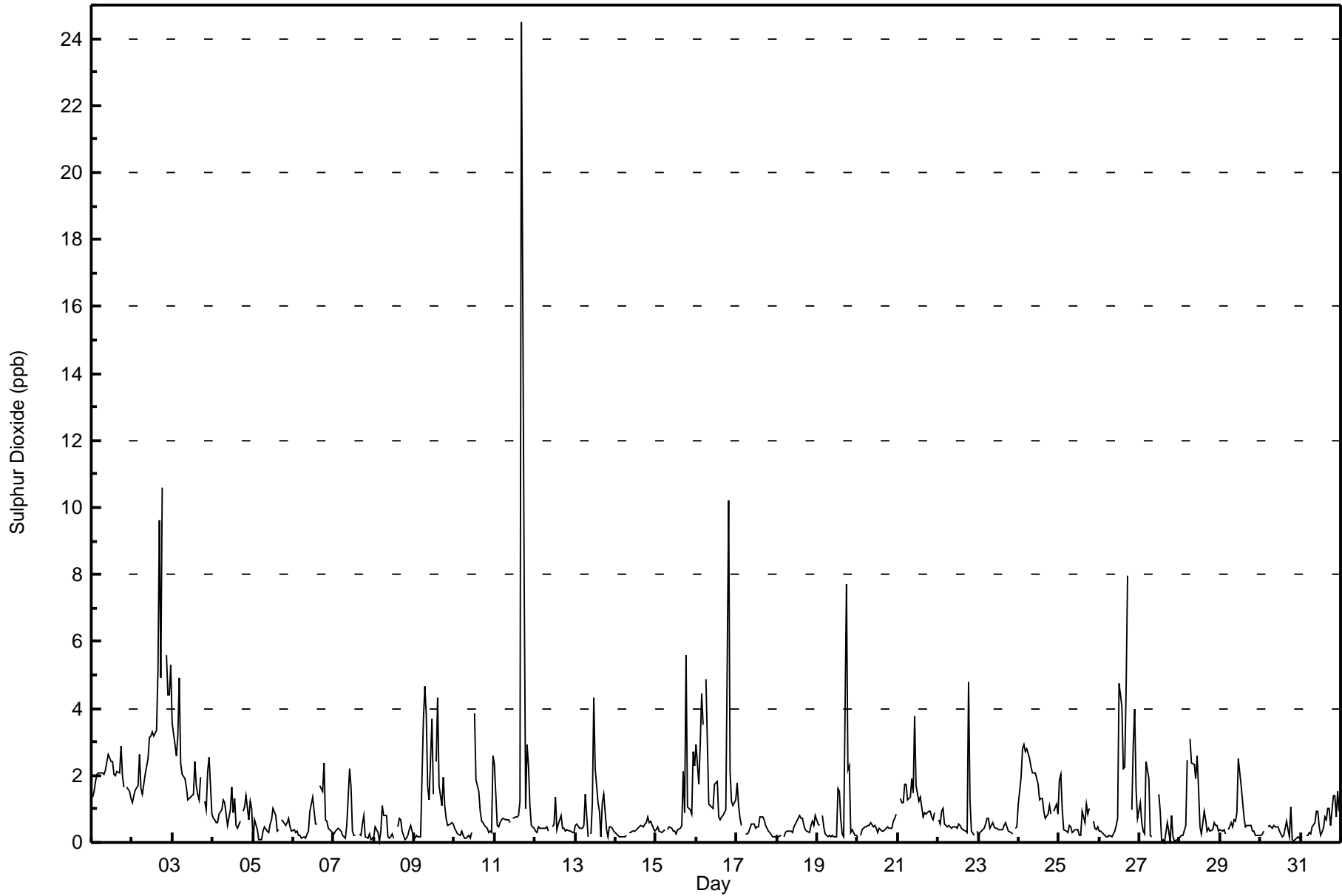
**Smoky Heights - Sulphur Dioxide (SO₂) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 24.5 ppb on Mar 11 17:00	Maximum Daily Average: 3.7 ppb on Mar 2
Minimum Value: 0 ppb on Mar 27 16:00	Hours of Data: 710
Maximum Diurnal Average: 2.0 ppb at hour 17	Hours of Missing Data: 34
Monthly Average: 1.04 ppb	Hours of Calibration: 34
Minimum Daily Average: 0.3 ppb on Mar 30	Percent Operational Time: 100.0
Minimum Diurnal Average: 0.7 ppb at hour 2	
Percentiles: P ₁ = 0.1 P ₁₀ = 0.2 Q ₁ = 0.3 Median = 0.5 Q ₃ = 1.2 P ₉₀ = 2.3 P ₉₉ = 7.5	

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-Mar	1	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	A	2	2	1	2.0	2.9
2-Mar	1	1	2	2	3	2	1	2	2	3	3	3	3	3	3	5	10	5	11	A	6	4	4	5	3.7	10.6
3-Mar	4	3	3	3	5	2	2	2	2	1	1	1	2	2	1	1	2	A	1	1	2	3	1	2.1	4.9	
4-Mar	1	1	1	1	1	1	1	1	1	0	1	2	1	1	1	0	1	A	1	1	1	1	1	1	0.9	1.7
5-Mar	0	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	A	1	1	0	1	1	0	0	0.5	1.0
6-Mar	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	A	2	2	2	1	1	0	0	0	0.6	2.4
7-Mar	0	0	0	0	0	0	0	1	2	2	0	0	0	0	A	0	0	1	1	0	0	0	0	0	0.4	2.2
8-Mar	0	0	0	0	0	1	1	1	0	0	0	0	0	A	0	1	1	0	0	0	0	0	0	0	0.4	1.1
9-Mar	0	0	0	0	0	4	5	4	2	1	4	1	A	2	4	2	1	2	1	1	0	1	1	1	1.6	4.6
10-Mar	0	0	0	0	0	0	0	0	0	0	0	A	4	2	2	1	1	1	1	0	0	0	0	3	0.7	3.9
11-Mar	2	1	0	1	1	1	1	1	1	1	A	1	1	1	1	1	25	8	1	3	2	1	0	0	2.3	24.5
12-Mar	0	0	0	0	0	0	0	0	0	0	A	0	1	1	0	1	1	0	0	0	0	0	0	0	0.5	1.4
13-Mar	0	1	0	0	0	1	1	0	A	0	1	4	2	1	1	0	1	1	0	0	0	0	0	0	0.9	4.3
14-Mar	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0.4	0.8
15-Mar	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	1	2	1	6	1	1	1	3	2	1.0	5.6
16-Mar	3	2	3	4	3	A	5	1	1	1	1	2	2	1	1	1	1	1	5	10	2	1	1	1	2.3	10.2
17-Mar	2	1	1	1	A	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0.5	1.8
18-Mar	0	0	0	A	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	0	1	0.4	0.8
19-Mar	1	1	A	1	0	0	0	0	0	0	0	0	2	2	1	0	0	8	2	2	0	0	0	0	0.9	7.7
20-Mar	0	A	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.5	0.9
21-Mar	A	1	1	1	2	2	1	1	2	1	4	2	1	1	1	1	1	1	1	1	1	1	1	A	1.3	3.8
22-Mar	1	1	1	1	1	0	1	0	0	0	0	0	1	1	0	0	0	0	5	1	0	0	0	0	0.7	4.8
23-Mar	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	1	1	0	0	0	0	A	0	0	0.4	0.7
24-Mar	1	2	3	3	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	A	1	1	1	1.7	2.9
25-Mar	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	A	1	0	0	0	0.7	2.0
26-Mar	0	0	0	0	0	0	0	0	0	0	0	1	5	4	2	2	5	8	A	1	3	4	2	1	1.7	8.0
27-Mar	1	1	0	0	2	2	0	0	C	C	A	1	1	0	0	0	1	0	0	1	0	0	0	0	0.6	2.4
28-Mar	0	0	0	1	2	A	3	2	2	2	3	2	0	0	1	1	0	0	0	0	1	1	1	0	1.0	3.1
29-Mar	0	0	0	0	A	0	1	0	1	1	1	2	2	1	1	0	1	1	1	1	0	0	0	0	0.6	2.5
30-Mar	0	0	0	A	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0.3	1.1
31-Mar	0	0	A	0	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	2	1	0.7	1.5
	0.8	0.7	0.8	0.8	1.0	0.9	1.1	0.9	0.8	0.8	1.1	1.1	1.2	1.1	1.0	0.9	2.0	1.7	1.6	1.1	0.9	0.9	0.9	0.8	Diurnal Average	
	3.5	2.9	2.9	4.5	4.9	3.7	4.9	3.8	2.3	2.5	3.8	4.3	4.7	4.1	4.3	5.1	24.5	8.0	10.6	10.2	5.6	4.4	4.4	5.3	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 Smoky Heights March 2009



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

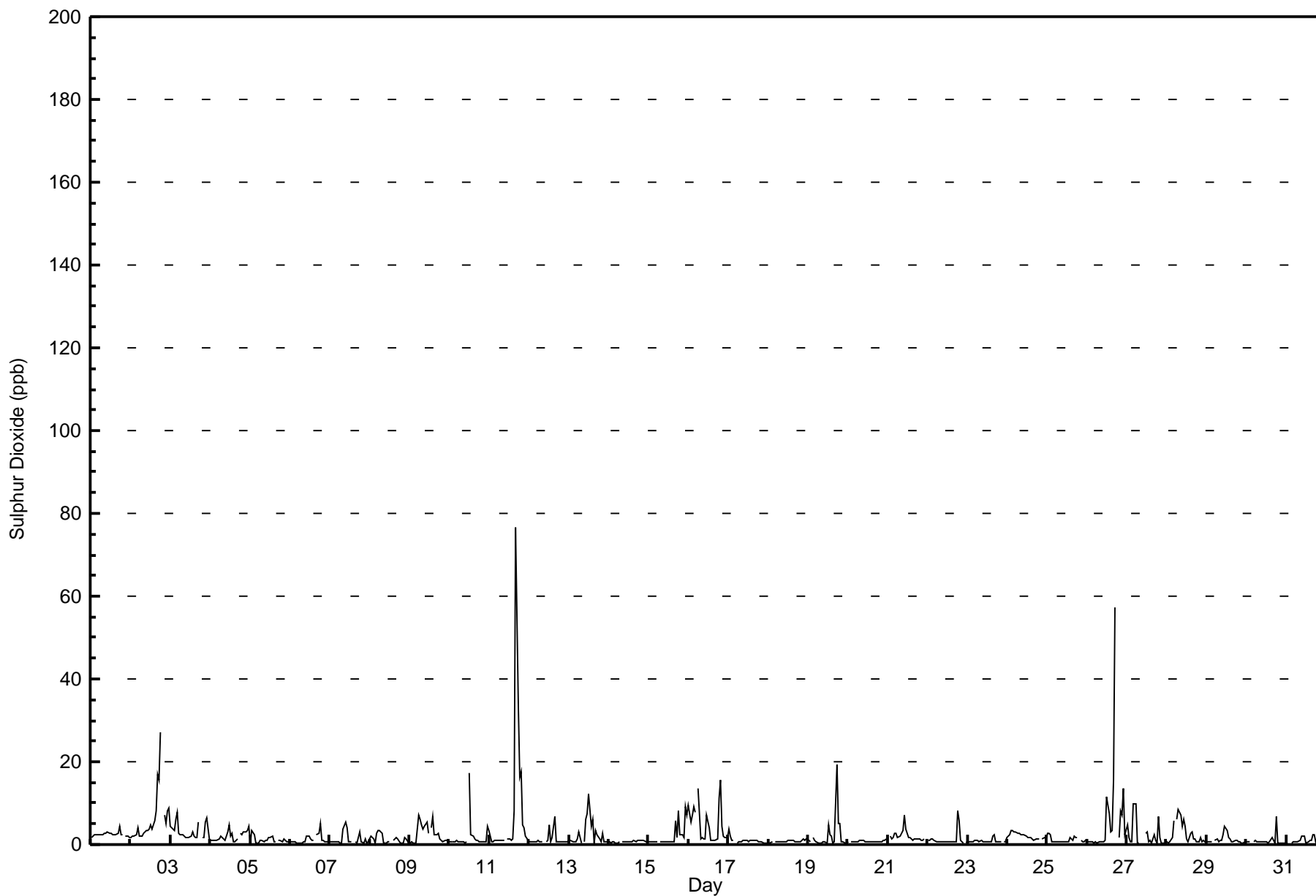
**Smoky Heights - Sulphur Dioxide (SO₂) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 76.6 ppb on Mar 11 17:00	Maximum Daily Average: 7.9 ppb on Mar 11	Hours in Service: 744
Minimum Value: 0 ppb on Mar 27 22:00	Minimum Daily Average: 0.7 ppb on Mar 14	Hours of Data: 710
Maximum Diurnal Average: 5.6 ppb at hour 18	Minimum Diurnal Average: 1.4 ppb at hour 2	Hours of Missing Data: 34
Monthly Average: 2.24 ppb	Percentiles: P ₁ = 0.4 P ₁₀ = 0.5 Q ₁ = 0.7 Median = 1.0 Q ₃ = 2.3 P ₉₀ = 4.7 P ₉₉ = 17.2	Hours of Calibration: 34
		Percent Operational Time: 100.0

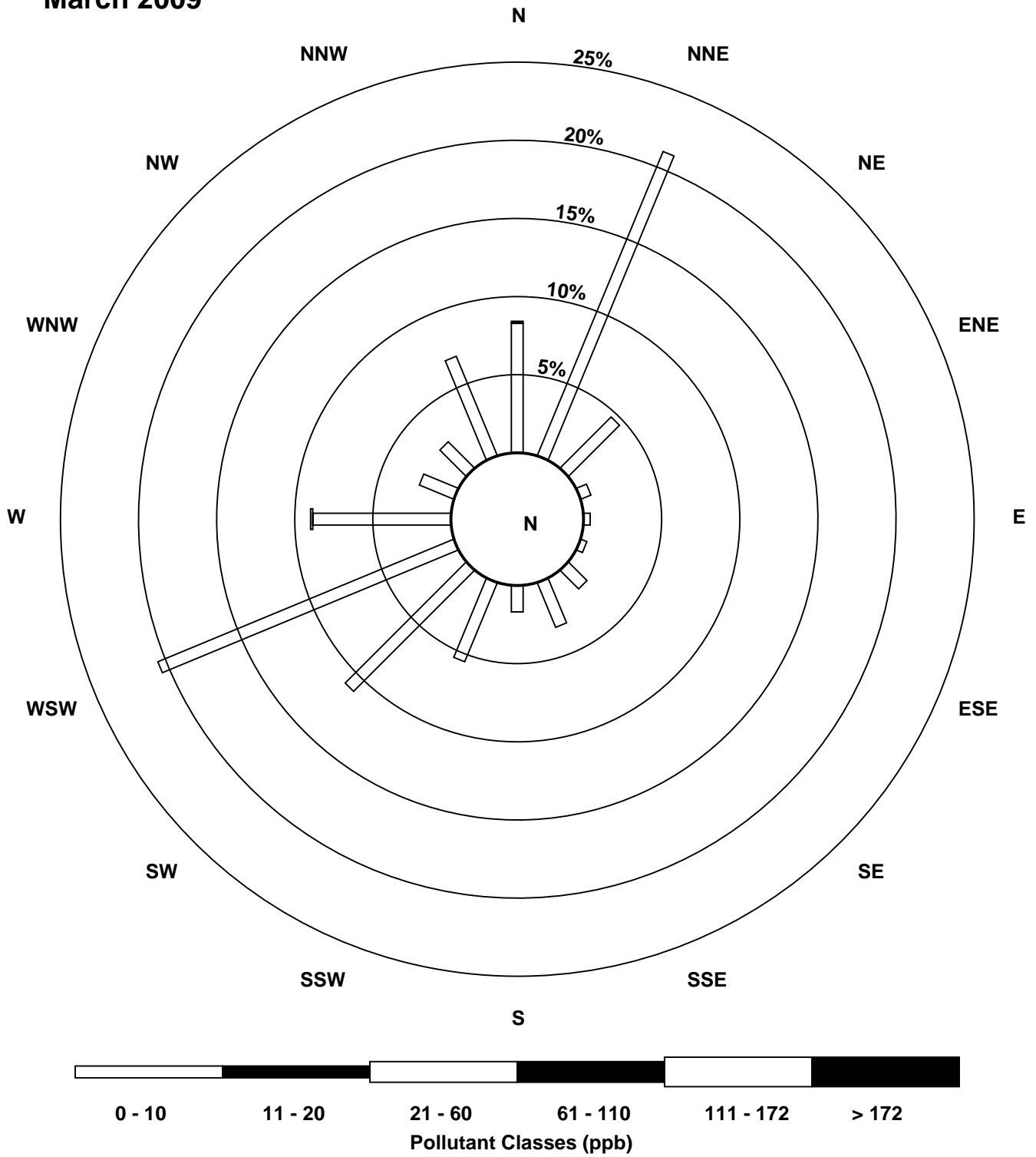
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Mar	2	2	2	2	2	2	2	2	3	3	3	3	3	3	2	3	3	4	2	2	A	2	2	2	2.5	4.3
2-Mar	2	2	2	2	4	2	2	2	3	3	4	4	5	4	6	8	17	16	27	A	7	5	8	9	6.2	27.1
3-Mar	4	4	3	6	8	3	2	2	2	2	2	2	3	2	2	2	5	A	2	2	5	6	1	3.2	7.8	
4-Mar	1	1	1	1	1	1	2	2	1	1	3	5	2	3	1	1	1	A	3	2	3	3	3	5	2.1	4.6
5-Mar	0	3	2	0	0	0	1	1	1	1	1	2	2	2	1	1	A	1	1	1	1	1	1	1	1.1	3.2
6-Mar	1	1	1	1	1	0	0	1	1	2	2	1	1	1	A	2	3	5	1	1	1	1	1	1	1.2	5.1
7-Mar	1	1	1	1	1	1	0	0	4	6	4	1	1	1	A	1	0	2	3	1	0	1	0	1	1.3	5.5
8-Mar	1	2	1	0	3	3	3	3	0	0	0	1	1	A	1	1	2	1	0	0	0	2	1	1	1.3	3.3
9-Mar	0	1	0	1	0	7	6	5	4	4	6	3	A	4	7	3	2	3	2	1	1	1	1	1	2.7	7.1
10-Mar	1	1	1	1	1	1	1	1	1	1	0	1	A	17	2	2	1	1	1	1	1	1	1	4	1.7	17.4
11-Mar	3	1	1	1	1	1	1	1	1	1	1	A	1	1	1	8	77	33	16	18	5	4	2	1	7.9	76.6
12-Mar	1	1	1	1	1	1	1	1	1	1	1	A	1	5	1	2	7	1	1	1	1	1	1	1	1.2	6.8
13-Mar	1	1	1	1	1	1	3	0	A	1	6	7	12	4	6	0	4	3	1	1	3	1	1	1	2.6	12.1
14-Mar	1	0	1	1	0	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
15-Mar	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	6	2	8	2	2	2	9	7	2.1	9.1
16-Mar	10	5	7	9	8	A	14	1	2	1	2	7	4	1	1	1	1	1	11	16	4	2	2	2	4.9	15.7
17-Mar	4	2	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1.0	3.9
18-Mar	1	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
19-Mar	1	1	A	2	1	1	0	0	0	1	1	0	5	2	2	0	1	19	5	5	1	1	1	0	2.2	19.3
20-Mar	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	1.3
21-Mar	A	2	1	2	3	3	2	2	3	3	7	4	2	2	1	1	1	1	1	1	1	1	1	A	2.1	7.2
22-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8	6	1	1	A	1	1.4	8.1
23-Mar	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	A	1	1	0.9	2.2
24-Mar	2	2	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	A	1	2	1	2.1	3.4
25-Mar	3	3	2	1	1	1	1	1	1	1	1	1	1	1	2	1	2	2	2	A	1	1	1	1	1.1	2.6
26-Mar	1	1	1	1	0	1	0	1	1	1	1	1	11	7	3	3	15	57	A	2	8	7	13	3	6.0	57.3
27-Mar	5	2	1	1	10	10	0	0	C	C	A	3	3	1	1	0	2	1	0	7	2	0	0	0	2.3	9.8
28-Mar	1	0	1	2	6	A	6	8	7	4	6	4	1	1	3	3	1	1	1	1	2	1	1	1	2.7	8.3
29-Mar	1	1	1	1	A	1	1	1	1	1	2	5	3	2	1	1	1	1	1	1	1	0	0	1	1.2	4.5
30-Mar	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	2	1	0	7	0	0	0	0	0.9	6.6
31-Mar	0	0	A	1	1	1	1	1	1	2	2	2	0	1	1	1	2	2	1	2	2	2	3	2	1.3	2.6
	1.6	1.4	1.4	1.5	2.1	1.7	2.0	1.5	1.5	1.6	2.1	2.2	3.0	1.8	1.8	1.9	5.1	5.6	3.9	2.7	1.9	1.7	2.2	1.7	Diurnal Average	
	9.5	5.4	7.2	9.0	9.8	9.7	13.6	8.3	7.1	5.5	7.2	7.4	17.4	7.5	6.7	8.1	76.6	57.3	27.1	17.7	8.1	7.2	13.5	8.9	Diurnal Maximum	

C - Calibration A - Automated Daily Zero Span

Hourly Maximums for SO₂ at Smoky Heights March 2009



Pollutant Rose for SO₂ at Smoky Heights March 2009



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

**Smoky Heights - Total Reduced Sulphur (TRS) - ppb
March 1, 2009 to April 1, 2009**

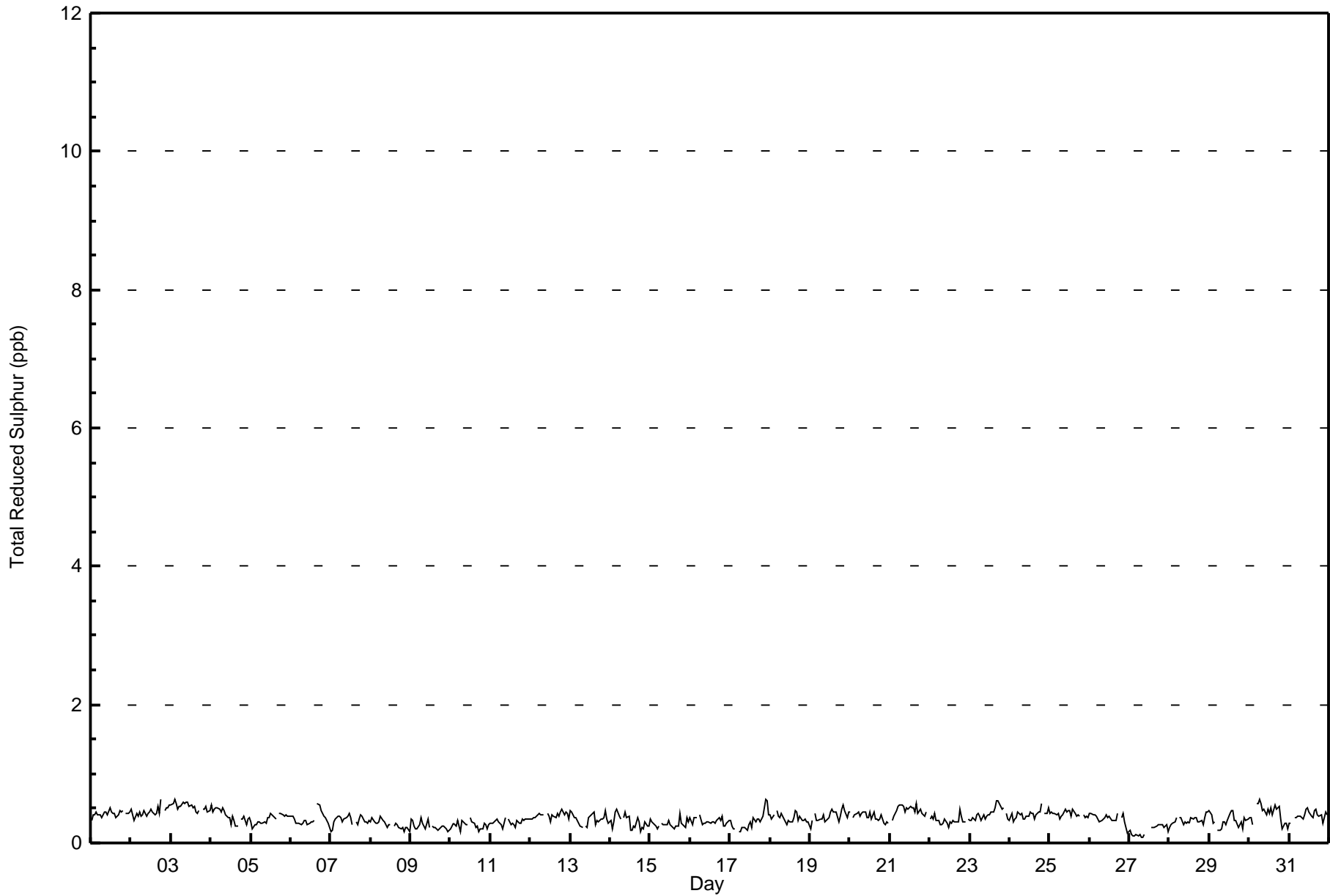
Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 0.6 ppb on Mar 2 19:00	Maximum Daily Average: 0.5 ppb on Mar 3
Minimum Value: 0 ppb on Mar 27 08:00	Hours of Data: 710
Maximum Diurnal Average: 0.4 ppb at hour 19	Hours of Missing Data: 34
Monthly Average: 0.35 ppb	Hours of Calibration: 34
Minimum Daily Average: 0.2 ppb on Mar 27	Percent Operational Time: 100.0
Minimum Diurnal Average: 0.3 ppb at hour 24	
Percentiles: P ₁ = 0.1 P ₁₀ = 0.2 Q ₁ = 0.3 Median = 0.4 Q ₃ = 0.4 P ₉₀ = 0.5 P ₉₉ = 0.6	

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-Mar	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0.4	0.5
2-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	1	0.5	0.6
3-Mar	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	A	0	1	0	0	0.5	0.6
4-Mar	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0.4	0.5
5-Mar	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
6-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	1	1	0	0	0	0	0	0	0.3	0.6
7-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0.3	0.4
8-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0.3	0.4
9-Mar	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
10-Mar	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
11-Mar	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
12-Mar	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	0.5
13-Mar	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
14-Mar	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
15-Mar	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
16-Mar	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
17-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.3	0.6
18-Mar	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
19-Mar	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.4	0.5
20-Mar	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
21-Mar	A	0	0	0	0	1	1	1	1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0.5	0.6
22-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
23-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	A	0	0.4	0.6
24-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	A	0	1	0.4	0.6
25-Mar	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	0.5
26-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0	0	0	0	0.4	0.4
27-Mar	0	0	0	0	0	0	0	0	0	0	C	C	A	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
28-Mar	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
29-Mar	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-Mar	0	0	0	A	1	1	1	1	0	0	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0.4	0.6
31-Mar	0	0	A	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5
	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.3	Diurnal Average
	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	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 Smoky Heights

March 2009



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

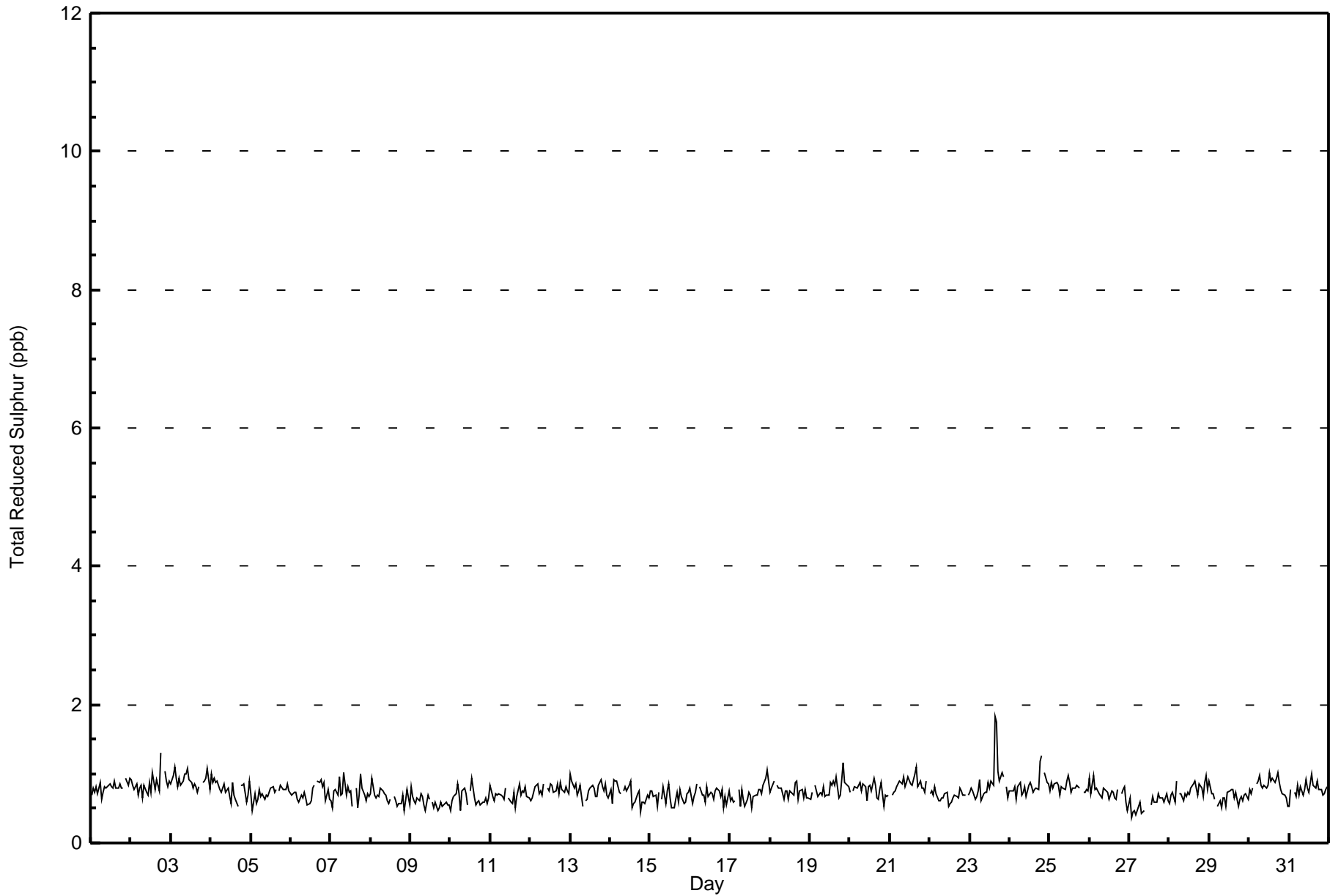
**Smoky Heights - Total Reduced Sulphur (TRS) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 1.8 ppb on Mar 23 16:00	Maximum Daily Average: 0.9 ppb on Mar 3	Hours in Service: 744
Minimum Value: 0 ppb on Mar 27 02:00	Minimum Daily Average: 0.6 ppb on Mar 27	Hours of Data: 710
Maximum Diurnal Average: 0.8 ppb at hour 19	Minimum Diurnal Average: 0.7 ppb at hour 8	Hours of Missing Data: 34
Monthly Average: 0.74 ppb	Percentiles: P ₁ = 0.5 P ₁₀ = 0.6 Q ₁ = 0.7 Median = 0.7 Q ₃ = 0.8 P ₉₀ = 0.9 P ₉₉ = 1.1	Hours of Calibration: 34
		Percent Operational Time: 100.0

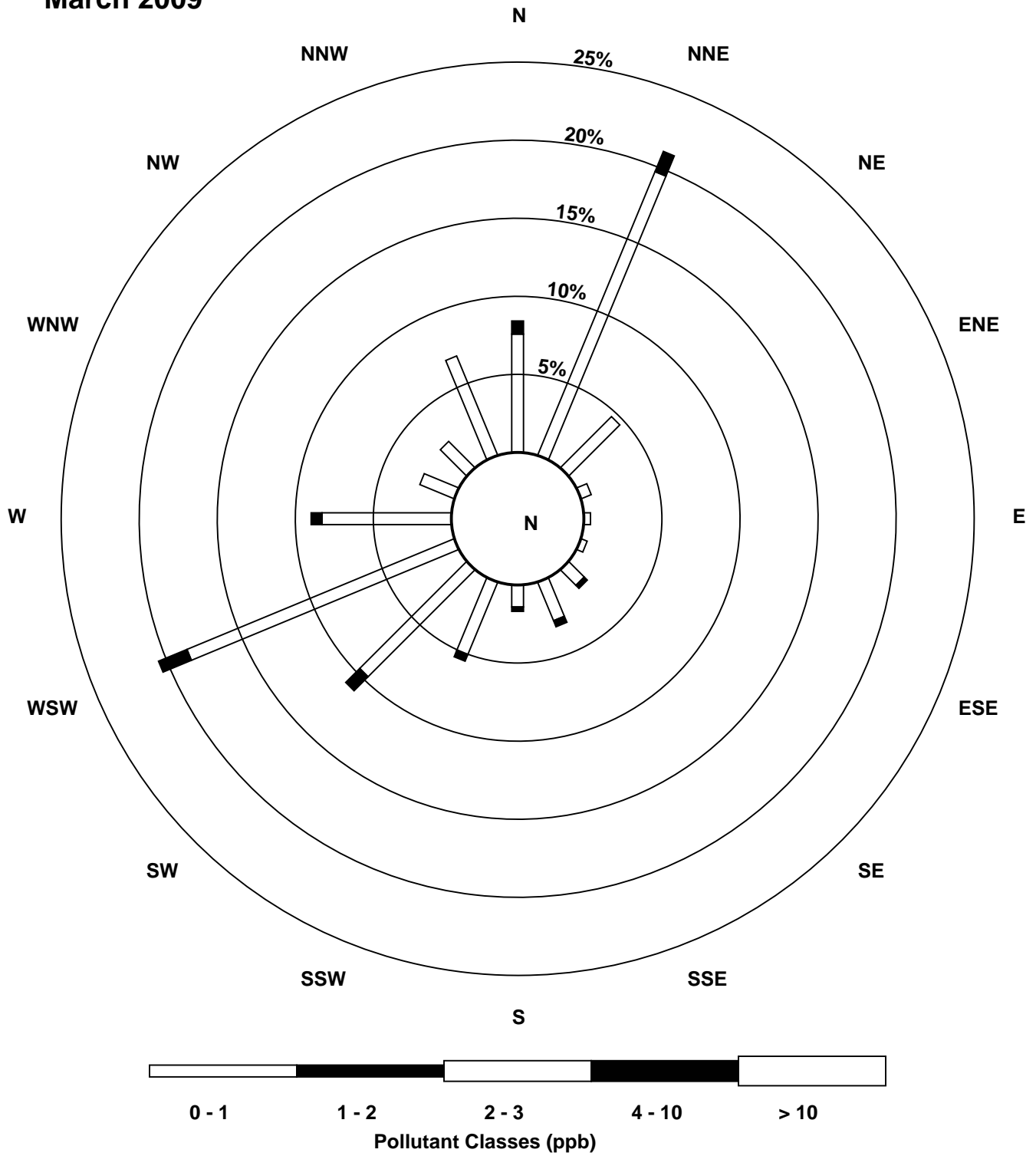
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	0.9
2-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.3
3-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.9	1.1
4-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.8	1.0
5-Mar	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.7	0.8
6-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.7	0.9
7-Mar	1	0	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.7	1.0
8-Mar	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	0	1	1	1	0.7	0.9
9-Mar	1	1	1	1	1	1	1	1	1	0	1	A	1	1	1	1	0	1	1	1	1	1	1	1	0.6	0.8
10-Mar	0	1	1	1	1	1	0	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
11-Mar	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
12-Mar	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	0.9
13-Mar	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.0
14-Mar	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0.7	0.9
15-Mar	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
16-Mar	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
17-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.1
18-Mar	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
19-Mar	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	1.2
20-Mar	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
21-Mar	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0.9	1.1
22-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
23-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	A	1	1	0.9	1.8
24-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.8	1.3
25-Mar	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	1.0
26-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0	0.7	1.0
27-Mar	1	0	0	0	0	1	1	0	0	0	C	C	A	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
28-Mar	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.0
29-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
30-Mar	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	1.0
31-Mar	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	1.0
	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.7	0.8	0.8	0.7	0.8	0.8	0.7	0.7	0.8	0.7		Diurnal Average
	1.0	1.0	1.1	0.9	0.9	1.0	1.0	0.9	1.0	1.0	1.1	1.0	1.0	1.0	0.9	1.8	1.8	1.0	1.3	1.3	1.2	1.0	1.1	0.9		Diurnal Maximum

C - Calibration A - Automated Daily Zero Span

Hourly Maximums for TRS at Smoky Heights March 2009



Pollutant Rose for TRS at Smoky Heights March 2009



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

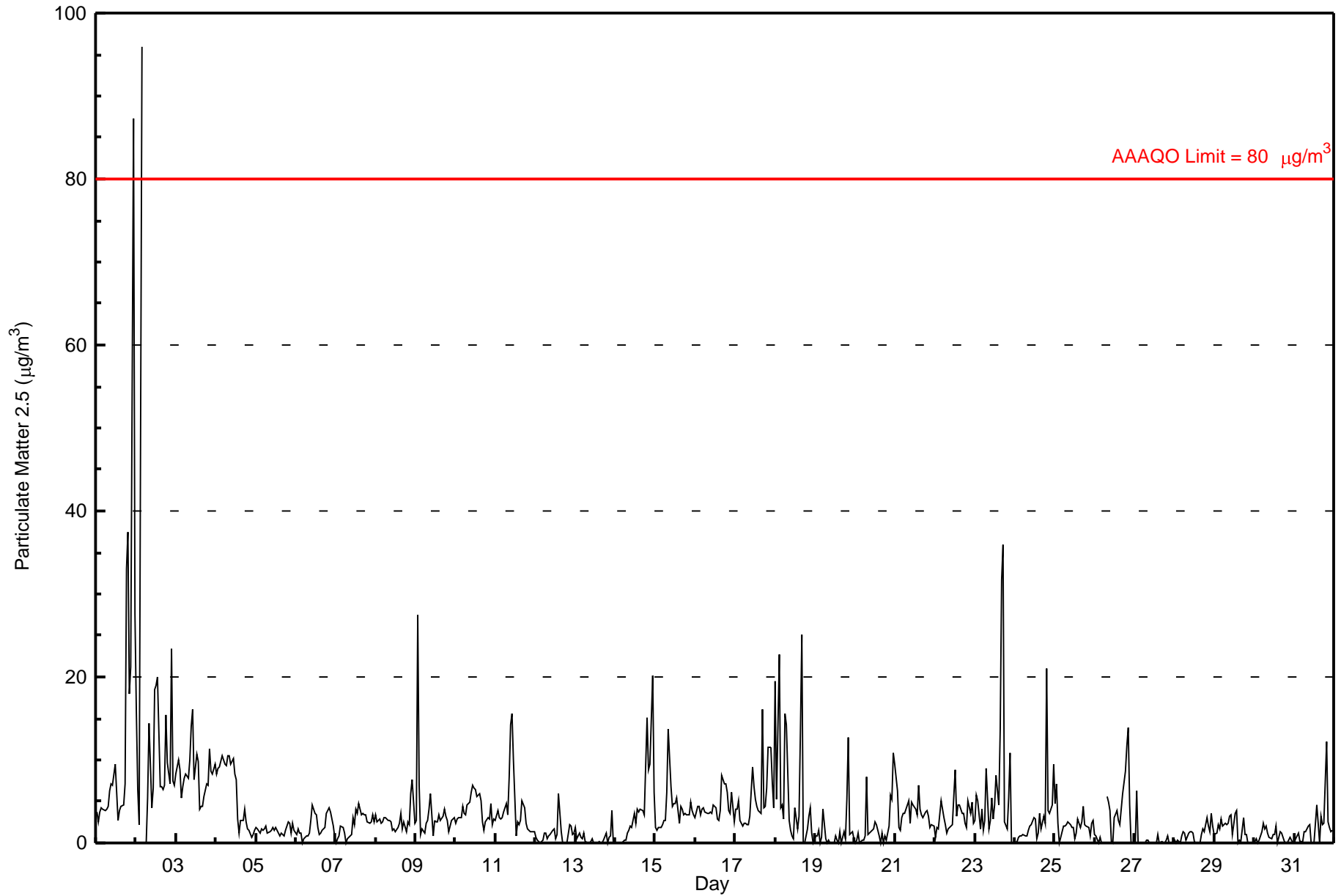
**Smoky Heights - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 2 24-hr: 0	Hours in Service: 744
Maximum Value: 95.9 µg/m ³ on Mar 2 04:00	Maximum Daily Average: 13.9 µg/m ³ on Mar 2
Minimum Value: 0 µg/m ³ on Mar 2 07:00	Hours of Data: 739
Minimum Daily Average: 0.4 µg/m ³ on Mar 27	Hours of Missing Data: 5
Maximum Diurnal Average: 6.3 µg/m ³ at hour 23	Hours of Calibration: 0
Monthly Average: 3.86 µg/m ³	Percent Operational Time: 99.3
Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 1.0 Median = 2.4 Q ₃ = 4.3 P ₉₀ = 8.3 P ₉₉ = 24.1	

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-Mar	4	3	4	4	4	4	4	4	6	7	7	10	6	3	4	4	5	7	33	37	18	21	87	28	13.1	87.3
2-Mar	16	6	2	96	BD	BD	0	5	14	4	7	18	19	20	7	7	6	7	15	10	7	23	7	7	13.9	95.9
3-Mar	8	10	9	5	7	8	8	8	10	14	16	8	11	10	4	4	4	6	7	7	11	9	8	10	8.4	16.0
4-Mar	8	9	9	10	10	9	9	11	10	9	10	8	8	3	1	3	3	4	2	2	1	1	1	2	6.0	10.6
5-Mar	2	2	1	2	2	2	2	1	1	2	2	1	2	1	1	1	1	1	2	3	2	1	2	2	1.6	2.6
6-Mar	1	2	1	1	0	1	1	1	1	3	5	4	3	2	1	1	2	2	4	4	4	4	2	1	2.0	4.5
7-Mar	0	1	1	2	2	1	0	1	1	1	3	2	4	3	5	3	4	3	3	3	2	3	3	3	2.2	4.8
8-Mar	3	3	3	2	3	3	3	3	3	3	2	2	1	2	2	4	2	3	1	3	2	6	8	2	2.8	7.6
9-Mar	3	27	7	1	2	1	2	3	4	6	1	3	3	3	3	3	3	4	3	3	1	3	3	3	3.9	27.4
10-Mar	2	3	3	3	4	4	3	5	5	6	7	7	6	6	6	5	3	2	2	3	3	5	2	3	4.1	7.0
11-Mar	3	4	3	3	3	4	5	3	8	14	16	10	1	3	2	3	5	4	2	2	2	1	1	1	4.3	15.6
12-Mar	1	0	0	0	0	1	1	1	1	1	2	2	1	1	6	1	0	0	BD	0	2	2	1	1	1.1	5.9
13-Mar	2	0	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	4	0	0.6	4.0
14-Mar	0	0	0	0	0	0	0	1	1	2	2	3	2	4	4	4	4	3	9	15	9	10	20	6	4.2	20.2
15-Mar	2	1	2	2	2	3	3	6	14	7	4	5	5	5	2	4	4	3	4	3	3	5	4	3	4.1	13.7
16-Mar	3	4	4	3	4	4	4	4	4	4	3	5	4	3	3	4	8	7	7	6	4	4	6	3	4.4	8.2
17-Mar	4	4	5	3	2	2	2	2	2	3	9	7	5	4	4	3	16	4	4	7	12	12	7	4	5.4	16.1
18-Mar	19	5	23	4	5	3	16	14	3	2	1	0	4	2	3	14	25	0	0	2	3	4	1	0	6.4	25.1
19-Mar	1	1	1	0	1	4	1	0	0	0	0	1	0	0	1	0	1	0	1	5	13	1	1	1	1.4	12.8
20-Mar	0	0	1	0	0	0	1	8	1	1	2	2	3	2	1	0	1	0	1	0	2	6	5	11	2.0	10.8
21-Mar	9	6	2	1	3	4	4	5	5	2	5	4	3	7	4	3	3	4	4	4	3	2	2	2	3.9	9.5
22-Mar	1	2	2	3	5	3	2	1	2	2	2	6	9	3	5	5	4	3	2	2	5	4	5	2	3.3	8.8
23-Mar	3	6	5	2	4	2	3	9	2	3	5	3	5	8	5	14	32	36	3	2	5	11	0	0	6.9	35.9
24-Mar	0	0	1	1	1	1	1	1	2	2	2	3	3	0	1	4	2	3	2	21	4	4	5	9	3.0	21.1
25-Mar	5	7	2	0	1	2	2	2	3	2	2	2	0	1	3	2	2	4	2	2	2	1	2	3	2.3	7.2
26-Mar	1	1	0	1	0	0	BD	6	5	4	0	0	3	4	3	2	4	6	9	12	14	5	0	0	3.4	13.9
27-Mar	0	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0.4	6.2
28-Mar	0	0	0	0	1	1	1	0	1	1	1	1	0	0	0	0	1	2	1	3	2	1	4	2	1.1	3.5
29-Mar	1	1	2	2	3	2	2	2	2	3	3	1	4	4	0	0	0	3	1	1	0	0	0	0	1.6	3.9
30-Mar	0	1	0	0	1	2	2	2	1	1	1	1	1	2	0	1	1	1	0	0	0	1	0	0	0.8	2.4
31-Mar	0	0	1	0	0	0	1	1	2	2	0	BD	0	5	2	0	3	2	2	12	3	2	1	2	1.9	12.2
	3.3	3.8	3.1	4.9	2.4	2.4	2.8	3.5	3.7	3.6	3.9	3.9	3.8	3.5	2.8	3.3	4.8	4.0	4.3	5.6	4.6	4.8	6.3	3.5		Diurnal Average
	19.5	27.4	22.8	95.9	10.5	9.5	15.5	14.2	14.4	14.3	16.0	18.4	19.0	20.0	7.0	13.7	31.7	35.9	33.1	37.4	18.0	23.5	87.3	27.7		Diurnal Maximum

BD - Baseline Drift
 Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 80 µg/m³ 24-hr 30 µg/m³

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

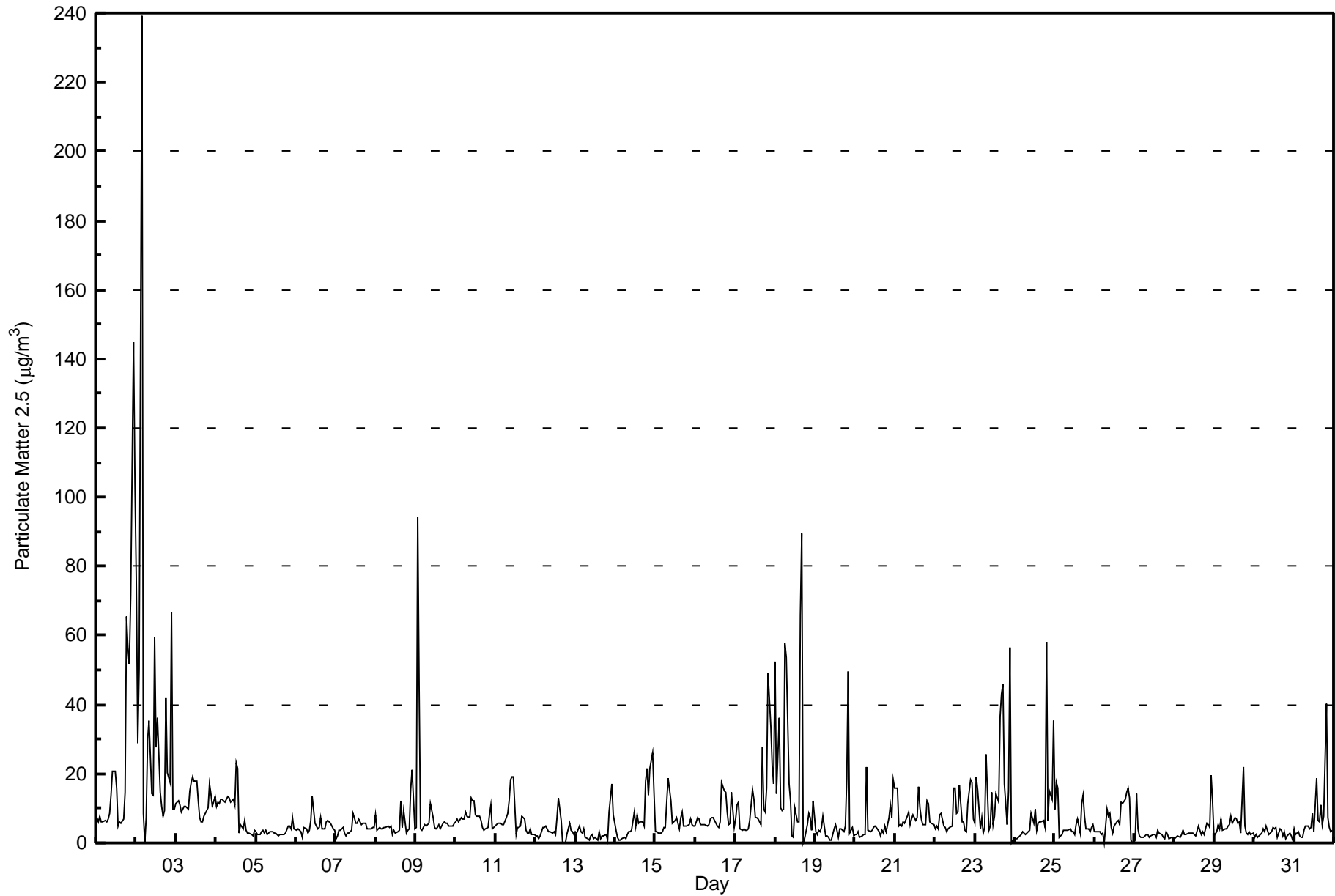


**Peace Airshed Zone Association
Summary of Hourly Maximums**

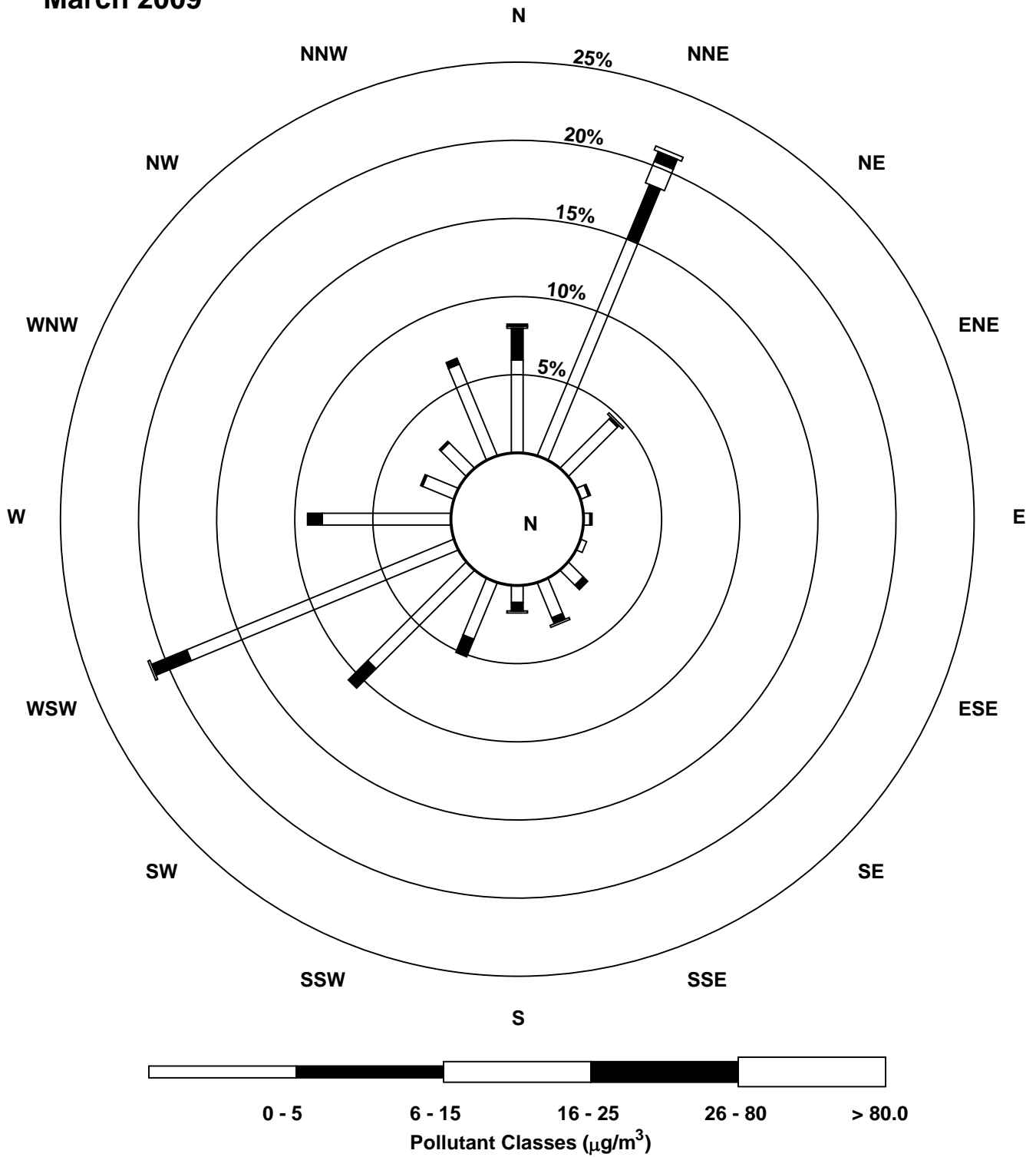
**Smoky Heights - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
March 1, 2009 to April 1, 2009**

Maximum Value: 239.1 µg/m ³ on Mar 2 04:00		Maximum Daily Average: 34.8 µg/m ³ on Mar 2		Hours in Service: 744																							
Minimum Value: 0 µg/m ³ on Mar 12 17:00		Minimum Daily Average: 2.7 µg/m ³ on Mar 27		Hours of Data: 744																							
Maximum Diurnal Average: 14.1 µg/m ³ at hour 22		Minimum Diurnal Average: 4.6 µg/m ³ at hour 6		Hours of Missing Data: 0																							
Monthly Average: 8.85 µg/m ³		Percentiles: P ₁ = 0.1 P ₁₀ = 2.1 Q ₁ = 3.2 Median = 5.0 Q ₃ = 8.6 P ₉₀ = 16.7 P ₉₉ = 68.8		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-Mar	8	6	8	6	6	6	6	7	9	14	21	21	16	5	6	6	7	15	65	57	52	72	145	104	27.7	144.8	
2-Mar	75	29	51	239	8	0	7	30	35	14	14	60	28	36	14	10	8	9	42	20	17	67	10	10	34.8	239.1	
3-Mar	11	12	11	9	10	11	11	10	15	17	19	18	18	12	7	6	6	8	9	10	17	14	10	13	11.9	19.2	
4-Mar	11	12	12	13	12	12	13	13	13	12	13	11	23	21	3	5	4	7	4	3	3	3	2	4	9.4	23.2	
5-Mar	3	3	2	3	4	3	4	3	3	3	3	3	3	2	2	2	2	2	3	5	5	4	7	4	3.3	7.1	
6-Mar	4	4	4	3	2	4	4	3	4	6	14	6	5	4	4	7	4	4	6	7	6	6	4	4	4.9	13.5	
7-Mar	1	2	3	4	5	3	2	3	3	3	8	7	6	6	7	5	5	6	6	4	4	4	5	4	4.4	8.4	
8-Mar	8	4	4	4	4	4	5	5	4	5	2	3	3	3	4	12	4	9	3	4	4	16	21	4	5.8	21.0	
9-Mar	5	94	45	4	3	5	5	5	6	11	7	4	4	4	5	4	6	6	6	6	5	5	5	6	10.7	94.2	
10-Mar	6	7	6	7	7	7	9	8	8	13	12	12	8	8	8	6	5	3	4	5	8	11	4	4	7.3	13.0	
11-Mar	5	6	6	6	5	5	7	9	12	18	19	19	2	4	4	5	8	7	4	3	3	4	3	2	6.9	19.1	
12-Mar	2	2	1	2	4	4	5	4	3	3	3	2	7	13	6	0	0	0	2	2	6	3	3	2	3.5	13.2	
13-Mar	3	3	5	3	3	4	2	1	1	2	2	1	2	1	3	1	2	2	2	1	9	13	17	8	3.9	17.1	
14-Mar	4	1	1	1	1	2	1	2	3	3	4	9	5	8	6	6	6	5	18	21	14	22	26	14	7.6	25.9	
15-Mar	3	3	3	3	3	4	4	12	19	12	6	6	7	7	4	7	9	5	5	5	5	7	5	5	6.2	18.5	
16-Mar	5	7	7	5	5	5	5	5	5	7	7	7	6	5	5	6	17	15	15	9	5	5	15	5	7.5	17.5	
17-Mar	7	11	12	4	4	4	4	4	4	6	16	13	7	7	7	5	28	10	9	16	49	34	23	17	12.4	49.2	
18-Mar	52	14	36	10	9	10	58	54	17	12	2	2	10	6	6	66	90	0	1	5	9	7	4	12	20.5	89.6	
19-Mar	3	2	4	3	5	8	2	2	2	1	1	4	5	4	2	4	4	3	5	19	49	3	4	2	5.8	49.4	
20-Mar	3	3	3	2	2	2	2	22	3	3	4	4	5	4	3	2	4	3	5	3	7	11	7	18	5.3	21.9	
21-Mar	16	16	5	5	5	6	6	8	9	5	7	8	6	7	16	10	7	5	5	12	12	6	6	5	8.1	16.3	
22-Mar	4	5	4	8	9	5	4	3	4	4	5	16	16	9	9	17	6	6	4	3	11	18	18	7	8.1	18.2	
23-Mar	6	19	15	4	7	3	5	25	3	5	15	5	8	14	12	36	43	46	17	5	15	57	0	1	15.3	56.6	
24-Mar	1	1	2	2	3	3	2	3	3	4	8	6	10	4	6	6	6	7	5	58	6	15	13	35	8.7	58.4	
25-Mar	10	17	16	2	2	4	4	4	4	4	3	3	2	5	7	3	12	14	8	4	4	3	4	5	6.0	17.4	
26-Mar	3	3	3	3	3	3	0	10	8	9	4	3	5	6	7	5	12	12	13	15	16	13	1	0	6.4	15.9	
27-Mar	1	14	4	2	2	2	2	3	2	2	2	2	3	2	2	4	3	3	2	1	3	3	1	2	2	2.7	14.1
28-Mar	1	2	2	2	2	4	3	2	3	3	3	3	2	2	5	4	3	3	3	5	5	4	20	12	4.1	19.7	
29-Mar	2	3	5	4	7	4	4	4	5	5	8	6	7	7	5	6	3	22	5	3	2	3	2	3	5.3	21.8	
30-Mar	2	2	2	2	3	4	3	5	3	3	3	5	4	4	1	4	4	2	3	1	2	3	2	1	2.9	5.1	
31-Mar	4	3	3	2	2	2	4	5	5	4	5	9	3	19	7	6	11	5	8	40	7	5	3	4	6.8	40.2	
		8.6	10.0	9.2	11.9	4.7	4.6	6.2	8.7	7.0	7.0	7.7	9.0	7.4	7.6	6.2	8.9	10.5	7.8	9.1	11.5	11.7	14.1	12.6	10.3	Diurnal Average	
		74.8	94.2	50.6	239.1	12.4	11.6	57.8	53.7	35.5	18.3	20.9	59.6	27.8	36.3	16.3	66.0	89.6	45.9	65.3	58.4	51.6	71.7	144.8	104.3	Diurnal Maximum	

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



Pollutant Rose for PM_{2.5} at Smoky Heights March 2009

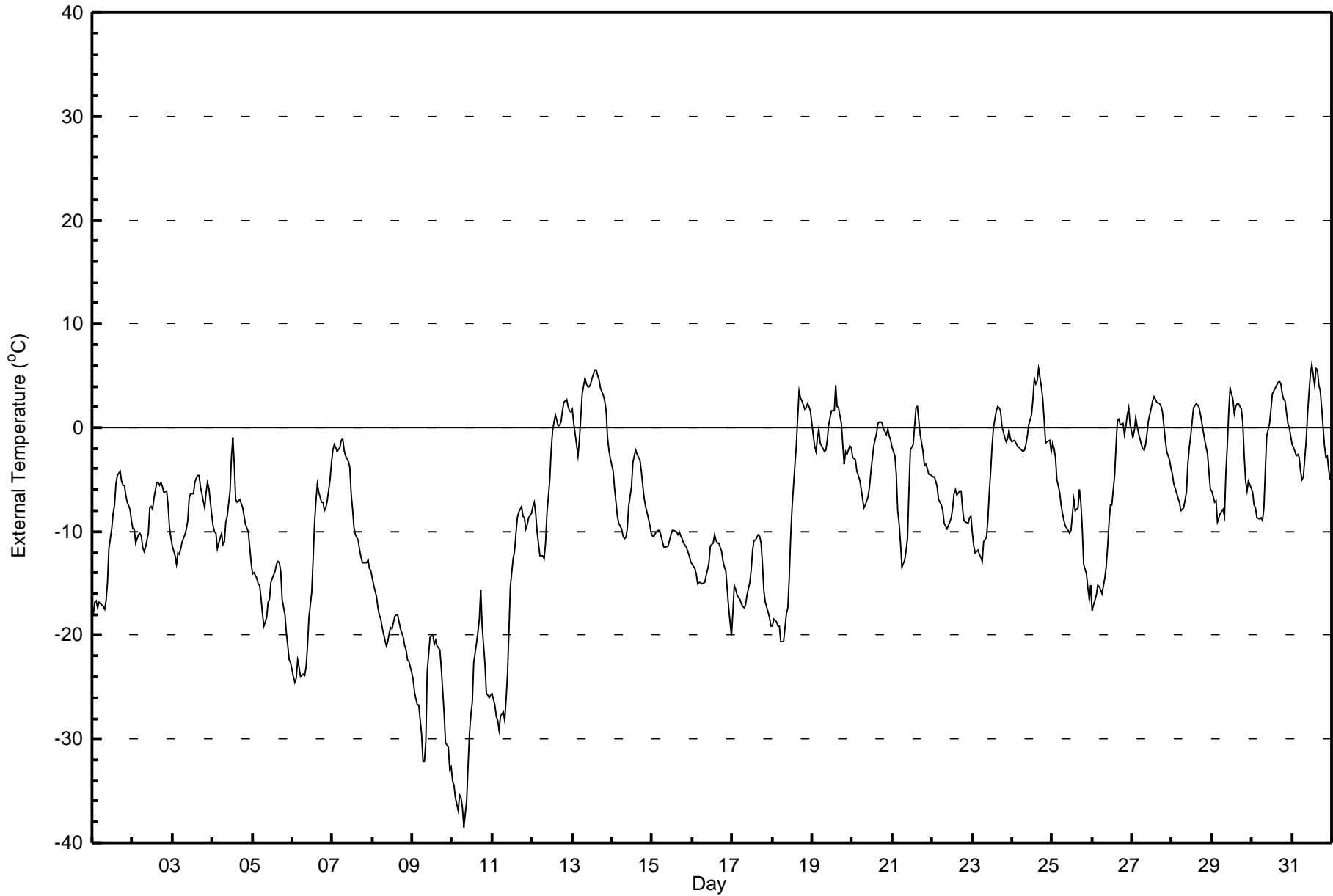


**Peace Airshed Zone Association
Summary of Hourly Averages**

**Smoky Heights - External Temperature (ET) - °C
March 1, 2009 to April 1, 2009**

Maximum Value: 6.1 °C on Mar 31 13:00		Maximum Daily Average: 2.2 °C on Mar 13																			Hours in Service: 744						
Minimum Value: -39 °C on Mar 10 08:00		Minimum Daily Average: -28.4 °C on Mar 10																			Hours of Data: 744						
Maximum Diurnal Average: -4.2 °C at hour 17		Minimum Diurnal Average: -12.8 °C at hour 8																			Hours of Missing Data: 0						
Monthly Average: -8.62 °C		Percentiles: P ₁ = -34.5 P ₁₀ = -20.5 Q ₁ = -13.2 Median = -7.7 Q ₃ = -1.8 P ₉₀ = 1.8 P ₉₉ = 4.9																			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-Mar	-18	-17	-17	-17	-17	-17	-17	-17	-17	-15	-12	-10	-8	-7	-5	-5	-4	-5	-6	-6	-7	-7	-8	-9	-11.1	-4.2	
2-Mar	-10	-10	-11	-10	-10	-10	-11	-12	-12	-10	-8	-8	-7	-5	-5	-5	-6	-5	-6	-6	-6	-7	-10	-11	-8.5	-5.2	
3-Mar	-11	-12	-13	-12	-12	-12	-11	-10	-10	-9	-7	-6	-6	-5	-5	-5	-6	-7	-8	-6	-5	-6	-8	-8	-8.3	-4.6	
4-Mar	-10	-10	-10	-12	-11	-10	-11	-11	-9	-8	-6	-3	-1	-4	-7	-7	-7	-7	-8	-9	-9	-10	-11	-13	-8.5	-0.9	
5-Mar	-14	-14	-14	-15	-15	-16	-18	-19	-18	-17	-17	-15	-14	-14	-13	-13	-13	-14	-17	-18	-20	-21	-22	-23	-16.4	-12.9	
6-Mar	-24	-25	-24	-22	-23	-24	-24	-24	-23	-21	-18	-16	-13	-9	-7	-5	-6	-7	-7	-8	-8	-7	-5	-3	-14.7	-3.5	
7-Mar	-2	-2	-2	-2	-2	-1	-1	-2	-3	-3	-4	-6	-8	-10	-10	-11	-12	-12	-13	-13	-13	-13	-14	-14	-7.2	-1.1	
8-Mar	-14	-15	-16	-17	-18	-18	-19	-20	-21	-21	-20	-19	-19	-18	-18	-18	-19	-19	-20	-21	-21	-22	-22	-24	-19.3	-14.5	
9-Mar	-24	-26	-26	-27	-27	-29	-32	-32	-30	-23	-20	-20	-20	-21	-21	-21	-21	-23	-25	-28	-30	-31	-33	-33	-26.0	-19.9	
10-Mar	-34	-34	-36	-37	-35	-36	-37	-39	-36	-33	-29	-28	-26	-23	-21	-20	-18	-16	-19	-23	-26	-26	-26	-26	-28.4	-15.7	
11-Mar	-26	-27	-28	-28	-29	-28	-27	-28	-26	-24	-20	-15	-13	-12	-10	-9	-8	-8	-9	-9	-10	-9	-9	-8	-17.4	-7.6	
12-Mar	-8	-7	-8	-10	-12	-12	-12	-13	-11	-8	-5	-2	0	1	1	0	0	1	2	2	3	2	2	2	-4.0	2.7	
13-Mar	2	0	-2	-3	-1	1	3	5	4	4	4	4	5	6	6	5	5	4	3	3	2	-1	-2	-3	2.2	5.6	
14-Mar	-4	-6	-7	-8	-9	-10	-10	-11	-11	-10	-8	-6	-3	-3	-2	-3	-3	-4	-6	-7	-8	-8	-9	-10	-6.9	-2.2	
15-Mar	-10	-10	-10	-10	-10	-10	-11	-11	-11	-11	-11	-10	-10	-10	-10	-10	-10	-10	-11	-11	-12	-12	-12	-13	-10.8	-9.8	
16-Mar	-13	-14	-14	-15	-15	-15	-15	-15	-14	-14	-13	-11	-11	-10	-11	-11	-11	-12	-13	-13	-14	-16	-17	-20	-13.6	-10.3	
17-Mar	-18	-15	-16	-16	-17	-17	-17	-17	-17	-16	-15	-14	-12	-11	-11	-10	-10	-11	-13	-16	-17	-18	-18	-19	-15.0	-10.2	
18-Mar	-19	-19	-19	-19	-19	-21	-21	-21	-18	-17	-15	-11	-8	-4	-2	1	3	3	3	2	2	2	2	2	-8.7	3.5	
19-Mar	-1	-2	-2	-1	0	-1	-2	-2	-2	-1	0	2	2	2	4	2	2	0	-2	-4	-2	-3	-2	-2	-0.6	4.0	
20-Mar	-3	-3	-3	-4	-5	-6	-7	-8	-8	-7	-6	-4	-3	-2	-1	0	1	0	0	0	-1	0	-1	-1	-2.9	0.6	
21-Mar	-2	-3	-4	-8	-9	-11	-13	-13	-12	-11	-6	-2	-2	0	2	2	1	-1	-2	-4	-4	-4	-4	-5	-4.8	2.0	
22-Mar	-5	-5	-5	-6	-7	-8	-8	-9	-10	-10	-9	-9	-8	-6	-6	-7	-6	-6	-8	-9	-9	-9	-9	-8	-7.5	-4.7	
23-Mar	-10	-11	-12	-12	-12	-12	-13	-11	-11	-9	-6	-4	-2	0	2	2	2	2	0	-1	-1	-1	0	-1	-5.1	2.0	
24-Mar	-1	-1	-1	-2	-2	-2	-2	-2	-2	-1	0	1	3	5	4	4	6	4	3	1	-1	-1	-1	-2	0.3	5.6	
25-Mar	-2	-2	-3	-5	-6	-7	-8	-9	-9	-10	-10	-10	-8	-7	-8	-8	-6	-7	-10	-13	-14	-15	-17	-15	-8.8	-1.5	
26-Mar	-18	-17	-16	-15	-15	-16	-16	-15	-13	-12	-9	-7	-7	-5	-2	1	1	0	0	-1	0	1	2	0	-7.4	1.9	
27-Mar	-1	0	1	0	-1	-2	-2	-2	-2	-1	1	2	3	3	3	2	2	2	1	0	-1	-2	-3	-4	0.0	3.0	
28-Mar	-4	-5	-6	-7	-7	-8	-8	-8	-6	-4	-2	-1	1	2	2	2	2	1	0	-1	-2	-3	-4	-6	-3.0	2.3	
29-Mar	-6	-7	-7	-9	-9	-8	-8	-9	-4	-2	1	4	3	1	2	2	2	2	0	-3	-5	-6	-5	-6	-3.2	3.8	
30-Mar	-6	-8	-8	-9	-9	-9	-9	-8	-4	-1	0	2	3	3	4	4	4	4	3	3	3	0	0	-1	-1.5	4.5	
31-Mar	-2	-2	-3	-3	-3	-4	-5	-5	-1	1	3	5	6	4	6	6	4	3	2	-2	-3	-3	-4	-5	-0.1	6.1	
		-10.2	-10.6	-11.1	-11.7	-11.9	-12.3	-12.7	-12.8	-11.8	-10.4	-8.5	-7.0	-6.0	-5.2	-4.5	-4.3	-4.2	-4.8	-5.8	-7.1	-7.8	-8.2	-8.7	-9.3	Diurnal Average	
		1.8	0.4	0.9	0.1	-0.1	1.0	3.3	4.8	4.2	3.9	3.9	5.2	6.1	5.6	5.8	5.6	5.6	4.2	3.3	2.7	2.7	2.3	2.0	1.6	Diurnal Maximum	

Hourly Averages for External Temperature at Smoky Heights March 2009



Peace Airshed Zone Association
Summary of Hourly Averages

Smoky Heights
 March 1, 2009 to April 1, 2009
 WS (km/h), WD (deg)

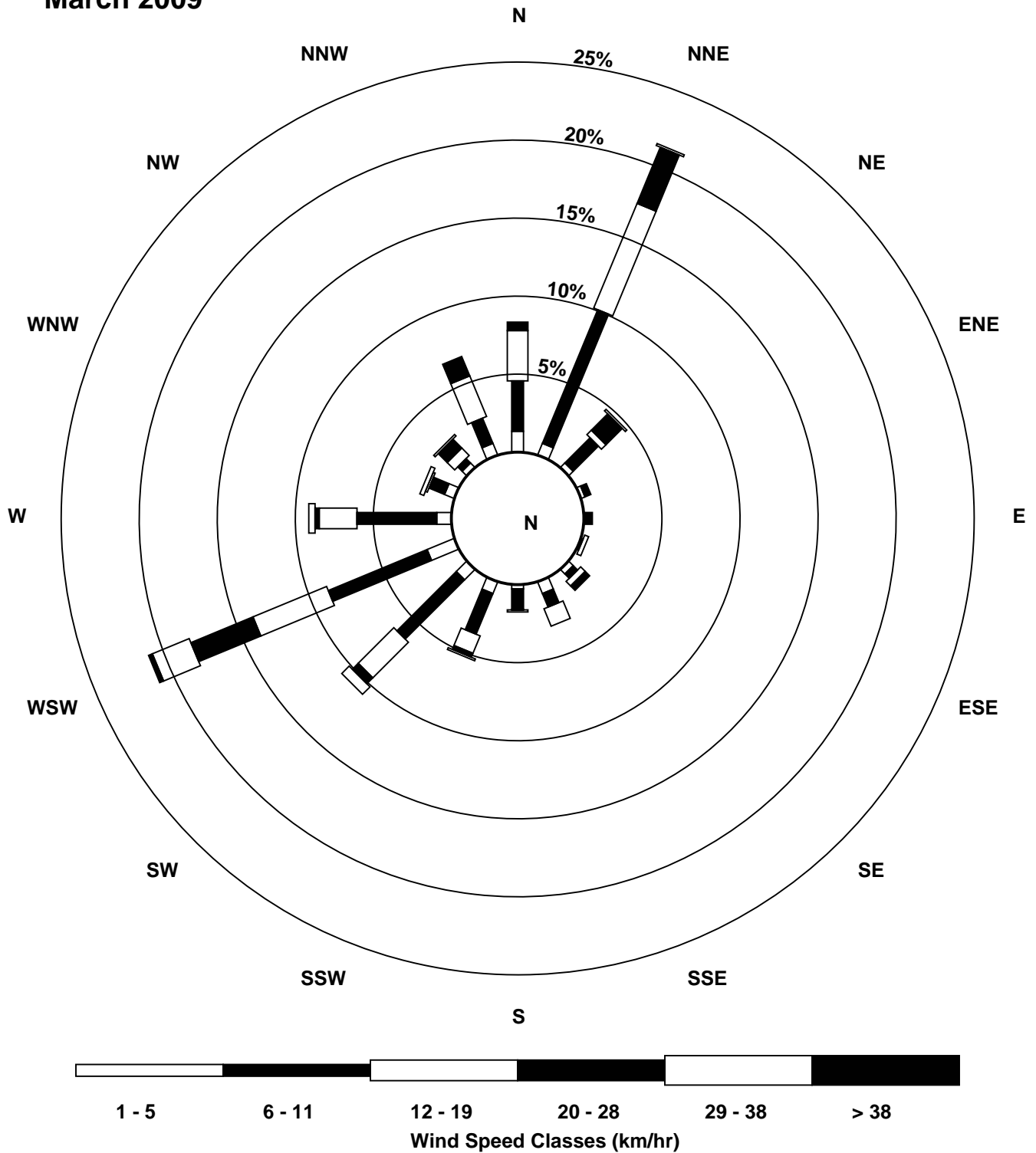
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1 Spd	10	6	9	10	9	8	9	8	7	4	2	7	10	15	14	14	11	12	13	14	14	13	9	7	4.3	15.4
Dir	247	258	226	232	234	230	232	240	234	239	321	28	30	32	27	19	4	5	13	15	23	17	14	1	349.3	32.1
2 Spd	10	8	7	8	8	7	10	10	12	12	9	10	12	12	8	10	9	7	3	9	8	5	12	8	6.7	12.4
Dir	23	15	25	19	29	29	32	11	19	27	28	23	11	19	357	355	350	342	6	268	58	241	258	259	6.8	257.9
3 Spd	5	5	8	11	5	4	2	6	3	3	1	5	9	7	9	12	10	8	8	6	11	11	10	11	5.9	12.1
Dir	226	220	252	274	233	193	195	179	198	150	148	181	143	164	227	248	251	240	251	248	240	249	208	206	224.8	247.8
4 Spd	9	9	11	11	11	11	9	8	8	9	10	12	8	19	27	21	24	19	21	21	20	19	19	18	8.2	27.0
Dir	240	237	215	257	255	255	243	225	217	203	242	230	269	6	23	16	354	352	341	344	345	349	345	348	323.6	23.4
5 Spd	13	12	14	14	16	16	11	7	10	11	8	8	8	10	10	11	12	10	7	10	11	7	7	7	7.6	16.3
Dir	357	348	331	313	320	325	322	269	284	299	223	212	226	246	248	247	247	238	244	268	267	252	222	208	279.6	324.8
6 Spd	5	6	6	10	9	11	13	13	14	13	13	12	11	9	8	5	10	12	15	17	13	13	10	12	10.2	17.0
Dir	205	213	211	235	209	218	224	226	223	211	236	247	230	253	278	267	262	259	251	269	244	225	218	217	235.2	269.4
7 Spd	19	21	19	8	12	19	29	32	41	36	36	33	38	37	28	25	27	22	20	21	14	22	20	17	18.5	41.4
Dir	212	216	226	221	216	233	254	255	251	256	261	300	300	310	305	310	319	343	336	326	310	341	5	353	285.4	251.5
8 Spd	21	19	22	20	16	16	19	16	19	19	19	17	13	13	14	14	15	11	6	9	9	7	14	10	13.8	22.0
Dir	353	347	349	351	353	352	343	344	341	339	344	347	345	12	19	6	354	348	326	280	282	329	37	45	350.0	348.6
9 Spd	11	6	7	7	8	5	4	3	5	2	6	4	5	8	7	5	5	3	7	6	5	8	8	7	3.6	10.9
Dir	42	23	10	340	356	3	9	291	271	347	35	43	26	360	15	37	31	253	270	282	270	262	272	255	340.7	42.0
10 Spd	8	10	7	9	8	8	7	8	11	9	7	11	12	6	5	6	3	2	3	6	2	4	10	16	5.7	16.4
Dir	246	260	206	194	213	210	206	186	192	190	200	262	268	271	289	275	284	162	337	331	330	228	247	264	237.3	263.8
11 Spd	16	11	9	8	9	10	9	7	9	11	11	10	12	18	19	14	16	20	20	17	8	9	13	15	11.5	20.4
Dir	263	257	244	235	227	200	205	218	196	186	170	200	237	235	230	249	259	248	255	256	202	217	223	246	232.8	255.3
12 Spd	11	15	14	11	13	13	12	13	11	11	14	18	17	15	34	19	14	14	19	21	17	9	4	7	13.5	33.9
Dir	241	242	239	234	225	230	226	243	245	240	237	238	224	233	264	249	214	195	208	212	215	251	238	165	231.6	263.6
13 Spd	13	8	3	6	12	14	16	33	33	31	25	19	20	29	23	23	22	10	8	15	8	13	9	9	13.3	33.2
Dir	167	172	324	233	207	252	257	264	256	255	245	240	251	252	242	240	243	259	257	238	274	32	29	37	249.5	263.9
14 Spd	9	10	11	10	10	9	11	10	11	12	10	9	9	12	14	16	17	16	15	17	18	20	20	23	13.2	22.8
Dir	34	32	36	35	30	40	34	36	36	34	36	25	31	22	20	15	26	22	23	18	23	25	22	24	27.0	24.4
15 Spd	26	26	27	22	23	23	24	24	23	25	27	24	19	18	16	17	17	17	17	19	18	15	14	14	19.9	26.9
Dir	30	32	32	25	28	24	23	19	19	20	21	20	17	15	4	5	356	346	348	352	353	353	354	346	13.7	31.8
16 Spd	18	14	12	11	13	12	10	10	9	10	9	7	10	10	13	13	11	8	7	6	5	4	6	1	9.4	17.6
Dir	352	356	347	342	348	344	346	342	343	349	350	8	17	25	14	8	15	11	8	359	325	344	11	71	357.3	351.8
17 Spd	6	10	11	9	11	12	12	13	12	11	10	10	9	10	13	12	11	9	9	9	8	8	8	7	9.9	12.9
Dir	34	26	28	40	34	31	33	33	37	31	20	19	21	19	20	17	16	6	14	22	23	27	19	5	24.3	20.3
18 Spd	8	10	12	10	12	7	8	7	7	7	9	6	4	2	3	3	4	8	13	5	15	16	11	11	3.8	15.7
Dir	18	16	21	13	20	19	20	27	28	29	33	32	19	31	349	2	54	148	159	206	301	276	274	253	359.8	275.7
19 Spd	10	9	6	9	11	12	14	7	9	10	8	8	9	8	5	7	7	8	8	6	11	9	8	6	4.1	13.5
Dir	229	265	259	244	229	205	181	257	226	186	180	237	267	268	255	283	280	280	294	13	27	56	81	84	241.8	180.8
20 Spd	7	8	10	16	17	20	22	21	21	23	22	21	18	20	20	24	27	28	24	29	21	21	18	15	17.3	28.9
Dir	59	45	35	23	30	35	31	25	33	36	33	34	33	33	37	50	52	51	50	52	56	129	118	149	47.3	51.8
21 Spd	24	20	24	21	18	12	8	6	5	8	4	0	6	2	5	10	12	13	13	15	13	14	16	19	1.8	24.2
Dir	145	227	231	232	230	239	248	279	262	275	250	288	139	241	3	39	21	19	16	20	31	33	28	31	311.2	144.6
22 Spd	20	20	21	23	24	24	23	27	30	25	19	18	18	19	19	18	17	13	11	10	10	10	6	8	17.8	30.0
Dir	32	35	36	25	20	22	25	28	32	26	23	21	18	24	25	27	22	5	345	345	9	29	16	22	23.2	32.1

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

Smoky Heights
March 1, 2009 to April 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	7	8	10	10	10	8	11	12	11	10	12	12	12	11	11	12	11	11	10	9	7	18	19	8.4	18.9
Dir	14	19	18	28	24	19	4	20	29	29	27	24	23	19	6	11	17	17	19	14	20	85	133	143	30.3	143.0
24 Spd	23	19	16	17	15	14	14	12	11	11	8	14	9	4	6	4	2	9	7	6	8	4	3	2	8.4	22.6
Dir	145	144	150	153	158	156	148	161	150	139	164	121	153	153	154	139	360	119	90	31	27	67	134	357	140.3	145.5
25 Spd	5	5	13	19	19	22	20	24	23	21	18	14	9	6	13	10	4	6	4	5	5	5	7	9	9.4	24.0
Dir	155	354	355	341	336	316	321	328	334	330	327	304	294	283	238	239	26	0	298	241	258	277	243	268	314.8	328.1
26 Spd	4	5	5	9	7	9	11	14	16	13	15	10	16	13	13	10	15	11	9	9	15	11	28	19	11.3	28.0
Dir	244	239	229	229	221	225	226	222	223	198	204	242	266	267	260	257	257	223	236	242	247	231	238	246	237.1	237.6
27 Spd	14	24	34	30	39	31	25	26	27	27	29	31	32	32	35	33	31	31	26	21	21	21	25	25	27.7	38.9
Dir	249	255	232	245	252	253	242	241	246	247	252	246	248	243	246	246	247	256	259	249	241	250	243	243	247.1	252.2
28 Spd	23	19	19	22	20	20	19	18	21	24	26	23	23	23	21	20	18	15	12	10	10	11	13	13	18.1	26.5
Dir	246	245	254	263	258	256	253	261	257	241	250	249	243	242	253	241	240	239	238	271	263	269	273	266	251.5	249.6
29 Spd	10	8	3	3	2	3	2	4	2	5	4	1	8	16	13	13	11	9	7	5	5	6	9	7	5.0	16.0
Dir	279	272	332	263	7	266	256	192	222	135	160	127	247	267	255	259	263	264	253	245	187	179	188	197	244.9	266.7
30 Spd	7	9	10	6	8	11	8	9	12	24	29	30	33	30	33	31	32	31	22	21	21	16	16	14	18.9	33.5
Dir	249	241	232	219	224	230	229	226	227	206	204	216	234	238	237	229	236	238	245	243	238	247	247	228	231.5	234.1
31 Spd	13	15	12	12	14	12	14	3	3	8	1	6	6	7	6	7	12	11	4	3	8	11	11	11	6.1	14.8
Dir	257	255	263	260	267	263	271	298	33	332	239	10	35	316	17	27	5	354	341	232	253	276	276	264	289.8	255.1
Spd	2.0	3.7	3.8	4.7	4.4	4.7	4.4	5.2	5.0	4.0	4.1	4.5	5.5	6.3	6.6	5.8	6.4	5.1	5.1	5.8	4.8	3.7	3.0	3.3	Diurnal Average	
Dir	282.6	289.0	292.1	293.8	290.3	286.5	290.7	289.6	285.8	282.9	275.8	290.0	287.3	300.3	299.2	306.7	312.8	309.1	304.8	305.5	308.7	309.3	288.0	276.3	Diurnal Maximum	
Spd	25.5	26.1	33.6	30.1	38.9	30.7	29.2	33.2	41.4	36.1	35.6	32.8	37.6	37.2	35.3	32.5	32.0	30.8	26.0	28.9	21.1	21.6	28.0	25.3	Diurnal Maximum	
Dir	29.7	31.9	232.4	244.9	252.2	253.0	253.7	263.9	251.5	255.9	260.7	300.3	299.6	309.6	246.2	245.9	235.6	255.6	259.4	51.8	55.7	340.8	237.6	242.6	Diurnal Maximum	
Maximum Speed Value: 41 km/h on Mar 7 09:00		Minimum Speed Value: 0 km/h on Mar 21 12:00																		Hours in Service: 744						
Maximum Daily Speed Average: 27.7 km/h on Mar 27		Minimum Daily Speed Average: 1.8 km/h on Mar 9																		Hours of Data: 744						
Maximum Diurnal Speed Average: 6.6 km/h at hour 15		Minimum Diurnal Speed Average: 2.0 km/h at hour 1																		Hours of Missing Data: 0						
Monthly Average Velocity: 4.59 km/h 295.45 deg		Speed Percentiles: P ₁ = 1.9 P ₁₀ = 5.3 Q ₁ = 8.0 Median = 11.2 Q ₃ = 17.4 P ₉₀ = 23.3 P ₉₉ = 35.1																		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	14	60	69	27	0	0	170																			
NorthEast	7	56	29	33	2	0	127																			
East	1	4	0	0	0	0	5																			
SouthEast	7	8	11	3	0	0	29																			
South	6	23	7	0	0	0	36																			
SouthWest	13	73	60	30	15	0	191																			
West	13	61	42	16	13	2	147																			
NorthWest	7	8	11	9	4	0	39																			
Total	68	293	229	118	34	2	744																			

Wind Rose for WS at Smoky Heights March 2009



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

**Smoky Heights - Wind Speed (WS) - km/h
March 1, 2009 to April 1, 2009**

Maximum Speed: 41 km/h on Mar 7 09:00	Maximum Daily Speed Average: 28.0 km/h on Mar 27	Hours in Service: 744
Minimum Speed: 3 km/h on Mar 21 12:00	Minimum Daily Speed Average: 6.4 km/h on Mar 9	Hours of Data: 744
Maximum Diurnal Speed Average: 15.2 km/h at hour 15	Minimum Diurnal Speed Average: 11.7 km/h at hour 22	Hours of Missing Data: 0
Monthly Average Speed: 13.33 km/h	Percentiles: P ₁ = 3.0 P ₁₀ = 5.8 Q ₁ = 8.3 Median = 11.3 Q ₃ = 17.6 P ₉₀ = 23.3 P ₉₉ = 34.7	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-Mar	10	7	9	10	9	8	9	8	7	4	3	7	10	15	14	14	11	12	13	14	14	13	9	7	9.9	15.4
2-Mar	10	9	7	8	9	8	11	10	12	12	9	11	12	12	8	11	9	7	4	13	8	6	12	9	9.4	13.0
3-Mar	7	6	9	13	7	5	4	6	4	4	3	8	9	7	9	12	10	8	9	6	11	11	10	11	7.9	13.1
4-Mar	9	9	11	11	11	11	9	8	8	9	10	12	13	20	27	21	24	19	21	21	20	20	19	19	15.0	27.1
5-Mar	13	12	14	14	16	16	11	8	10	13	8	8	8	10	10	11	12	10	7	10	11	8	7	7	10.7	16.3
6-Mar	5	6	6	10	10	11	13	13	14	13	13	12	11	10	8	5	10	12	15	17	14	13	10	13	11.0	17.1
7-Mar	20	21	19	8	12	20	29	33	41	36	36	33	38	37	28	26	27	22	20	22	15	22	20	18	25.1	41.4
8-Mar	21	20	22	21	16	17	19	16	19	19	19	17	13	13	14	15	15	11	6	9	9	9	14	10	15.2	22.2
9-Mar	11	6	7	7	9	5	4	4	5	4	6	4	6	9	7	6	5	6	7	6	5	8	8	7	6.4	10.9
10-Mar	8	10	8	9	8	8	7	8	11	9	7	11	12	6	5	6	3	3	4	6	3	4	10	16	7.6	16.4
11-Mar	16	11	9	9	9	10	9	7	9	11	11	11	13	18	20	15	16	20	20	17	8	10	13	15	12.8	20.5
12-Mar	11	15	14	11	13	13	12	14	11	11	14	18	17	15	34	20	14	14	19	21	17	9	4	8	14.5	34.1
13-Mar	13	8	4	7	12	14	16	33	33	31	25	19	20	30	24	23	22	11	9	15	9	13	9	9	17.0	33.2
14-Mar	9	10	11	10	10	9	11	10	11	12	10	9	9	12	14	16	17	16	15	17	18	20	20	23	13.3	22.9
15-Mar	26	26	27	22	23	23	24	24	23	25	27	24	20	18	16	17	17	17	17	19	19	16	14	14	20.7	26.9
16-Mar	18	15	13	11	13	12	11	10	9	10	9	8	10	10	13	13	12	8	7	6	5	4	6	3	9.9	17.7
17-Mar	6	10	11	9	11	12	12	13	12	11	10	10	9	10	13	12	11	10	9	9	9	8	8	7	10.0	12.9
18-Mar	9	10	12	10	12	7	8	7	7	7	9	6	5	3	3	3	4	8	13	8	15	16	12	13	8.6	16.1
19-Mar	10	9	7	10	12	13	14	8	9	10	8	8	9	8	5	7	7	9	8	8	11	9	8	7	8.8	13.8
20-Mar	8	8	11	17	17	20	22	21	21	23	22	21	18	20	20	24	27	28	25	29	21	23	18	17	20.0	28.9
21-Mar	25	22	24	21	18	13	8	7	6	8	5	3	6	3	7	10	12	13	13	15	13	15	16	19	12.5	25.4
22-Mar	21	20	21	23	24	24	23	28	30	25	19	19	18	19	19	19	17	13	11	10	11	10	6	8	18.2	30.0
23-Mar	6	8	8	10	10	10	8	11	12	11	10	12	12	11	11	12	11	11	10	9	9	18	19	19	10.9	19.0
24-Mar	23	19	16	17	15	14	14	12	11	11	10	15	10	5	6	6	3	10	7	6	8	5	7	4	10.6	22.6
25-Mar	6	6	13	19	19	22	20	24	23	21	18	15	9	6	13	10	6	6	5	6	5	5	7	9	12.3	24.1
26-Mar	4	5	5	9	8	9	11	14	16	13	15	11	16	13	13	10	15	13	10	9	15	11	28	19	12.2	28.0
27-Mar	14	24	34	30	39	31	25	26	27	27	29	32	32	32	35	33	31	31	26	21	21	21	25	25	28.0	39.0
28-Mar	23	19	19	22	20	20	19	18	21	24	27	23	23	23	21	20	18	15	12	11	10	10	11	13	18.4	26.6
29-Mar	10	8	6	4	3	4	3	6	3	5	5	4	9	16	13	13	11	9	7	5	6	7	9	7	7.3	16.1
30-Mar	7	9	10	6	8	11	9	10	13	24	29	30	34	30	33	31	32	31	23	21	21	16	16	15	19.5	33.6
31-Mar	14	16	13	12	14	13	14	5	4	8	5	7	6	9	7	7	12	11	5	4	8	11	11	11	9.4	15.9
	12.7	12.3	12.8	12.9	13.4	13.3	13.2	13.6	14.3	14.7	14.0	13.8	14.1	14.6	15.2	14.4	14.3	13.3	12.2	12.6	11.9	11.7	12.5	12.3	Diurnal Average	
	25.6	26.1	33.6	30.3	39.0	30.8	29.3	33.2	41.4	36.2	36.3	32.9	37.8	37.4	35.4	32.6	32.1	30.8	26.1	28.9	21.2	23.0	28.0	25.3	Diurnal Maximum	

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
March 1, 2009 to April 1, 2009**

Maximum Value: 93.4 deg on Mar 21 12:00																								Hours in Service: 744	
Minimum Value: 1.8 deg on Mar 28 00:00																								Hours of Data: 744	
Percentiles: P ₁ = 2.4 P ₁₀ = 3.9 Q ₁ = 5.1 Median = 8.2 Q ₃ = 14.6 P ₉₀ = 28.5 P ₉₉ = 64.5																								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-Mar	13	24	9	10	9	5	6	5	5	30	50	10	7	4	7	4	7	8	4	5	6	9	22	14	49.8
2-Mar	7	15	10	13	15	24	13	23	10	5	13	14	7	6	22	12	12	10	44	57	28	23	7	35	57.1
3-Mar	46	27	21	33	36	38	63	12	47	45	87	50	10	16	24	4	7	7	8	24	14	6	18	12	87.3
4-Mar	14	7	12	8	6	5	8	9	13	15	19	14	53	13	5	6	9	11	8	9	7	7	7	10	53.2
5-Mar	9	10	8	5	7	5	7	26	17	36	15	18	11	11	10	12	4	5	8	7	4	28	8	7	35.9
6-Mar	11	9	16	9	19	4	4	4	3	9	9	2	12	26	11	16	11	10	6	4	17	6	8	14	25.6
7-Mar	18	4	4	8	7	11	5	6	3	3	13	6	6	6	7	9	8	8	9	6	13	14	8	9	17.7
8-Mar	9	10	8	8	9	10	7	7	7	8	8	10	16	11	8	10	11	11	18	5	5	38	15	4	37.7
9-Mar	5	11	6	12	11	19	15	36	9	57	8	25	52	19	26	34	31	71	21	5	10	5	7	21	70.5
10-Mar	18	4	24	7	7	9	5	8	6	7	17	5	3	9	10	16	53	27	57	12	57	36	17	5	57.4
11-Mar	4	7	11	15	10	5	6	25	13	5	23	17	15	3	9	9	3	4	5	8	18	11	15	5	24.6
12-Mar	7	5	8	7	6	11	10	13	8	9	5	3	4	6	7	17	7	8	4	5	7	14	42	16	42.3
13-Mar	4	14	44	31	15	7	6	4	7	6	8	10	8	4	8	5	5	15	13	3	33	6	9	15	43.7
14-Mar	11	6	3	8	6	8	5	6	5	5	6	6	7	6	4	6	5	3	4	3	4	3	3	4	11.2
15-Mar	4	3	2	4	4	3	3	3	3	3	3	4	6	7	9	8	10	7	6	7	8	8	8	7	10.0
16-Mar	7	9	7	6	6	6	7	8	8	11	14	25	9	9	9	7	11	11	12	14	8	16	12	79	79.0
17-Mar	14	9	9	6	4	3	3	4	4	10	4	4	7	8	5	7	6	9	5	5	5	4	7	12	14.5
18-Mar	7	4	4	7	4	7	7	8	11	8	5	10	58	51	31	35	29	15	5	53	8	14	18	35	57.8
19-Mar	18	10	30	27	21	18	11	30	15	10	9	19	6	6	13	10	12	14	9	40	3	13	11	14	39.7
20-Mar	17	7	10	4	8	3	3	3	3	3	3	4	3	3	5	6	5	4	5	3	6	27	6	28	28.3
21-Mar	17	21	4	4	3	16	23	32	34	9	34	93	12	56	59	14	3	5	4	4	6	7	4	6	93.4
22-Mar	6	4	4	6	2	2	4	4	3	4	5	5	7	5	5	5	4	16	7	7	14	10	12	9	16.2
23-Mar	12	13	6	4	5	10	7	8	5	4	5	4	4	5	8	5	4	4	4	4	7	38	10	5	37.7
24-Mar	4	5	6	5	5	6	10	6	6	11	28	22	29	34	23	70	61	20	17	17	4	40	80	54	80.0
25-Mar	28	46	13	7	10	10	8	5	6	8	10	19	19	22	7	9	72	24	37	18	19	13	11	6	71.6
26-Mar	31	16	12	6	13	8	8	7	7	16	16	20	4	4	4	5	5	26	28	17	15	11	5	9	31.1
27-Mar	5	11	4	6	3	4	6	3	3	4	6	5	7	6	4	5	5	4	4	9	7	4	2	2	11.4
28-Mar	2	4	7	3	2	5	6	2	6	3	5	5	4	4	9	7	4	3	6	11	11	10	24	10	23.6
29-Mar	7	12	50	33	61	21	53	45	34	20	29	91	22	3	11	8	4	7	13	18	23	30	25	24	91.4
30-Mar	15	16	8	24	9	10	9	10	7	5	5	6	5	4	6	5	5	5	10	5	7	9	13	9	23.5
31-Mar	24	22	6	8	5	5	5	62	38	12	85	27	18	43	30	18	11	13	23	28	14	12	7	2	85.1
46.1	45.6	50.5	33.0	61.2	37.7	62.7	62.2	47.4	56.6	87.3	93.4	57.8	56.4	59.2	70.1	71.6	70.5	57.4	57.1	57.3	40.3	80.0	79.0		

PASZA

Beaverlodge Station

Monthly Summary Tables, Graphs and Roses

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

**Beaverlodge - Sulphur Dioxide (SO₂) - ppb
March 1, 2009 to April 1, 2009**

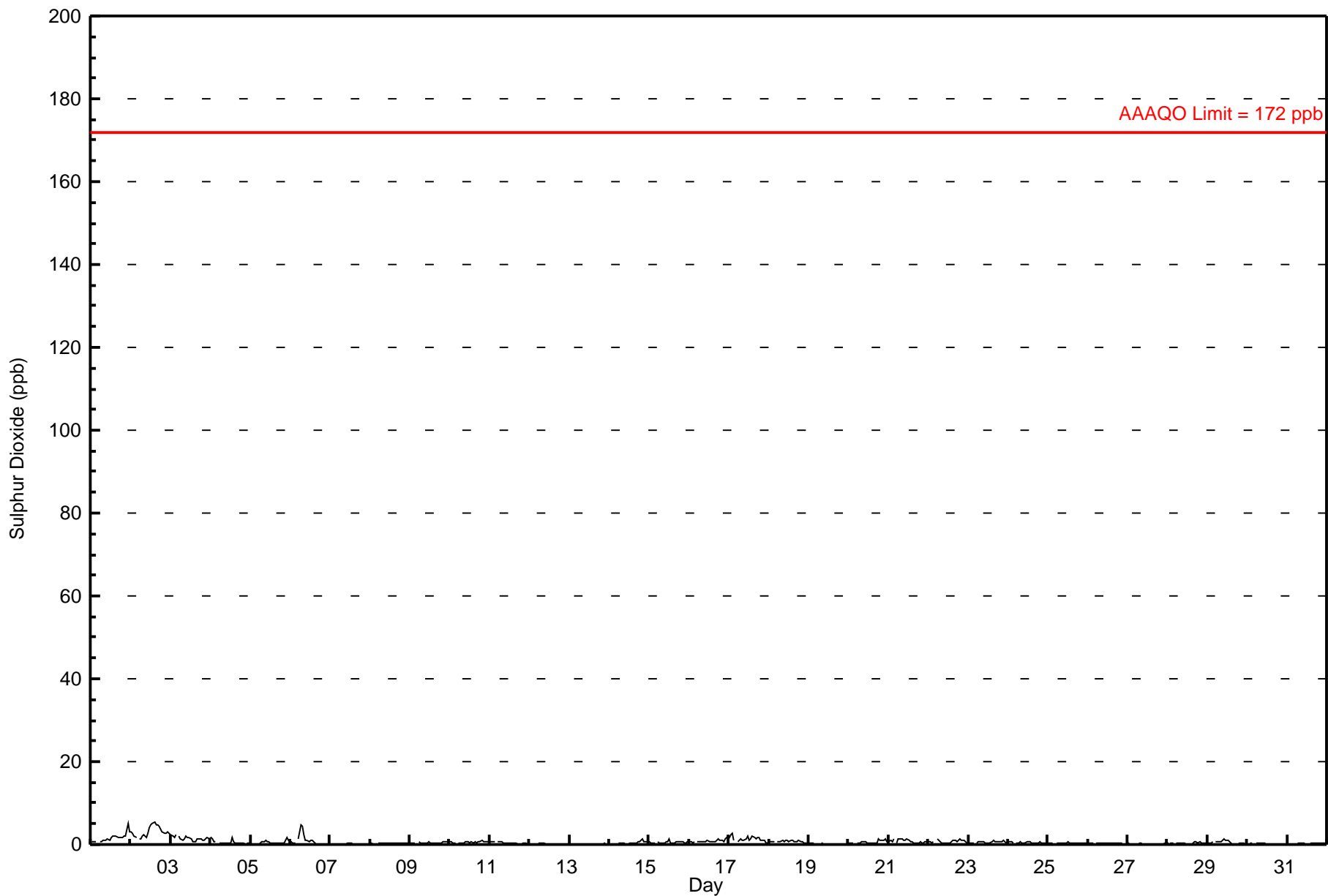
Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 5.4 ppb on Mar 2 15:00	Maximum Daily Average: 3.1 ppb on Mar 2
Hours of Data: 713	
Hours of Missing Data: 31	
Hours of Calibration: 31	
Percent Operational Time: 100.0	
Minimum Value: 0 ppb on Mar 27 06:00	Minimum Daily Average: 0.1 ppb on Mar 13
Maximum Diurnal Average: 0.7 ppb at hour 23	Minimum Diurnal Average: 0.5 ppb at hour 4
Monthly Average: 0.62 ppb	Percentiles: P ₁ = 0.0 P ₁₀ = 0.1 Q ₁ = 0.2 Median = 0.4 Q ₃ = 0.7 P ₉₀ = 1.3 P ₉₉ = 4.5

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-Mar	1	1	1	1	A	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	5	3	1.6	5.2
2-Mar	3	3	2	2	A	1	1	2	2	2	3	4	5	5	5	5	5	4	4	3	3	3	3	3	3.1	5.4
3-Mar	2	2	2	2	A	2	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	2	1	1.4	2.4
4-Mar	2	1	1	1	A	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0.5	1.7
5-Mar	0	0	0	0	A	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	2	1	0.5	1.7
6-Mar	1	0	0	0	A	1	5	4	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.9	4.6
7-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
8-Mar	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
9-Mar	0	0	0	0	A	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	1	1	0.4	0.6
10-Mar	1	1	0	0	A	0	0	0	1	1	1	1	0	1	0	1	0	1	1	1	1	1	1	1	0.6	0.8
11-Mar	1	1	1	1	A	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.7
12-Mar	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
13-Mar	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
14-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0.4	1.5
15-Mar	1	0	0	0	A	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	0	0	1	0.6	1.5
16-Mar	1	1	0	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	0.8	1.9
17-Mar	2	2	3	1	A	1	1	1	1	1	1	2	1	1	2	2	1	2	2	1	1	1	0	0	1.4	2.9
18-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0.7	1.1
19-Mar	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
20-Mar	0	0	0	0	A	0	0	0	1	1	1	0	0	0	0	0	0	0	2	1	1	1	1	1	0.6	1.5
21-Mar	1	1	1	1	A	0	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	1	1	0.8	1.5
22-Mar	1	1	0	1	A	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0.7	1.5
23-Mar	0	0	1	1	A	0	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0.6	1.1
24-Mar	1	1	1	0	A	0	0	1	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0.5	0.8
25-Mar	0	0	0	0	A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
26-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.3	0.5
27-Mar	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
28-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0.3	0.6
29-Mar	0	0	0	1	A	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.4	1.2
30-Mar	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
31-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4

0.6	0.6	0.5	0.5	--	0.5	0.6	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	Diurnal Average	
3.0	2.7	2.9	2.3	--	2.0	4.6	4.4	2.3	1.9	2.8	4.0	4.8	5.0	5.4	4.9	4.8	4.3	3.7	3.2	2.8	2.8	5.2	3.0	Diurnal Maximum		

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 March 2009



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

**Beaverlodge - Sulphur Dioxide (SO₂) - ppb
March 1, 2009 to April 1, 2009**

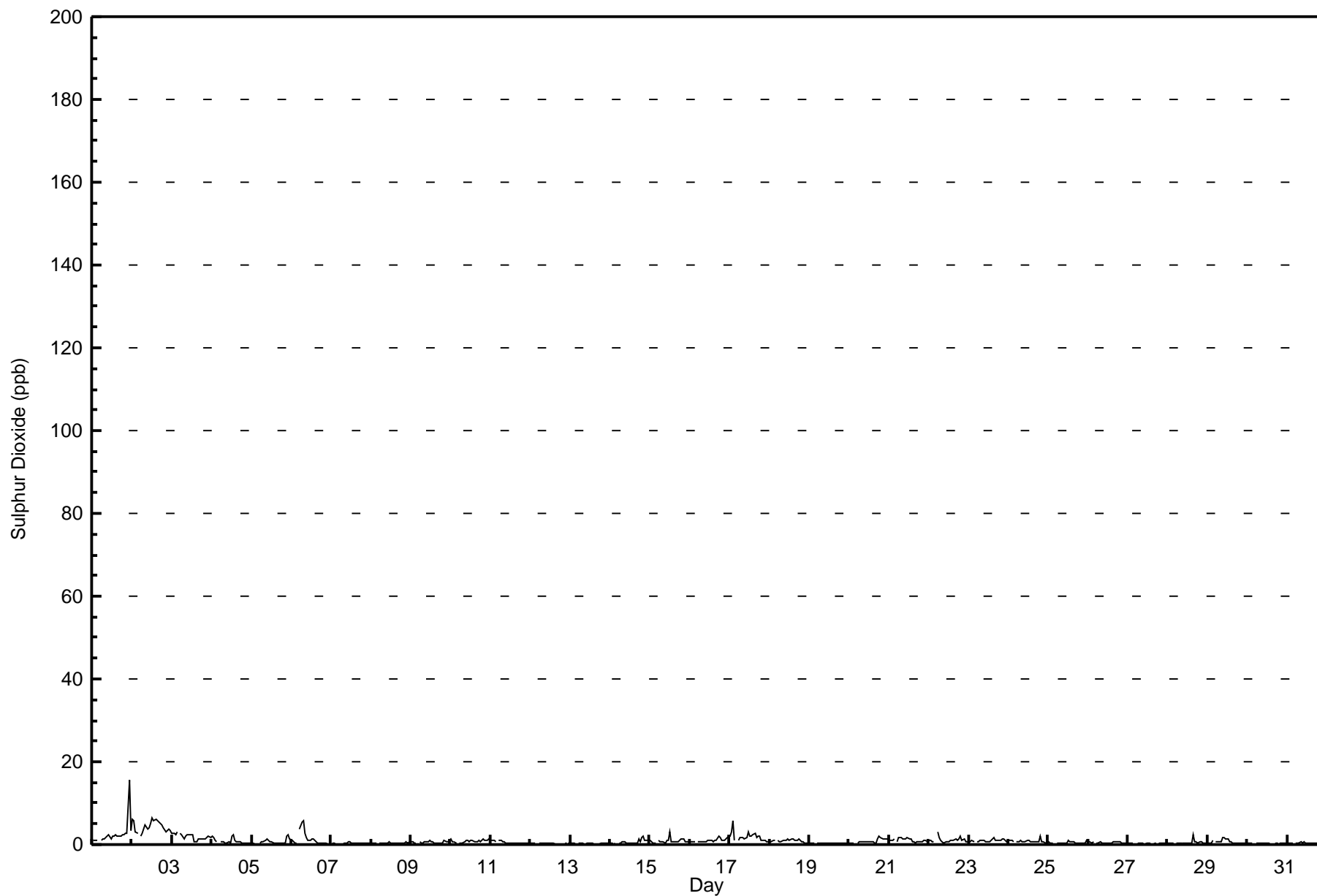
Maximum Value: 15.6 ppb on Mar 1 23:00	Maximum Daily Average: 4.3 ppb on Mar 2	Hours in Service: 744
Minimum Value: 0 ppb on Mar 12 21:00	Minimum Daily Average: 0.2 ppb on Mar 27	Hours of Data: 713
Maximum Diurnal Average: 1.2 ppb at hour 23	Minimum Diurnal Average: 0.7 ppb at hour 4	Hours of Missing Data: 31
Monthly Average: 0.89 ppb	Percentiles: P ₁ = 0.1 P ₁₀ = 0.2 Q ₁ = 0.3 Median = 0.6 Q ₃ = 1.0 P ₉₀ = 1.9 P ₉₉ = 5.7	Hours of Calibration: 31
		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-Mar	1	1	1	1	A	1	1	2	2	2	2	1	2	2	2	2	2	2	2	2	3	3	16	3	2.5	15.6
2-Mar	6	6	3	3	A	2	3	4	5	4	4	5	6	6	6	6	5	5	5	4	3	3	4	3	4.3	6.4
3-Mar	3	3	3	3	A	3	2	1	2	2	2	2	2	1	1	1	1	1	1	1	1	2	2	2	1.9	3.0
4-Mar	2	2	1	1	A	1	1	1	0	0	1	0	2	2	1	1	1	1	0	0	0	0	0	0	0.7	2.3
5-Mar	0	0	0	0	A	0	1	1	1	1	1	1	1	0	0	0	0	1	0	0	0	2	2	1	0.7	2.4
6-Mar	1	1	0	0	A	4	6	6	3	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1.3	5.6
7-Mar	0	0	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
8-Mar	0	0	0	0	A	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0.4	0.6
9-Mar	1	1	0	0	A	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0.6	1.0
10-Mar	1	1	1	0	A	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.3
11-Mar	1	1	1	1	A	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.0
12-Mar	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
13-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
14-Mar	0	0	0	0	A	0	0	1	1	1	0	0	0	0	0	0	0	1	1	2	2	1	1	1	0.6	2.1
15-Mar	1	1	0	0	A	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	0.9	3.2
16-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	2	2	1.0	2.1
17-Mar	2	3	6	1	A	1	2	2	2	1	2	3	2	2	2	3	2	2	2	1	1	1	1	1	1.9	5.8
18-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.9	1.4
19-Mar	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
20-Mar	0	0	0	0	A	0	1	1	1	1	1	1	1	1	0	0	0	1	2	2	1	1	1	1	0.8	1.9
21-Mar	1	1	1	2	A	1	2	2	1	1	1	2	1	1	1	1	0	1	1	1	1	1	1	1	1.1	1.9
22-Mar	1	1	1	1	A	3	2	1	1	0	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1.1	3.1
23-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0.9	1.7
24-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	0	0	0.8	1.9
25-Mar	1	0	0	0	A	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	1	0.5	0.9
26-Mar	1	1	0	1	A	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0.5	0.8
27-Mar	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	0.3
28-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	2	1	1	0	1	1	0	0	0	0.5	2.4
29-Mar	0	0	0	1	A	1	1	1	1	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0.7	1.7
30-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
31-Mar	0	0	0	0	A	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.7

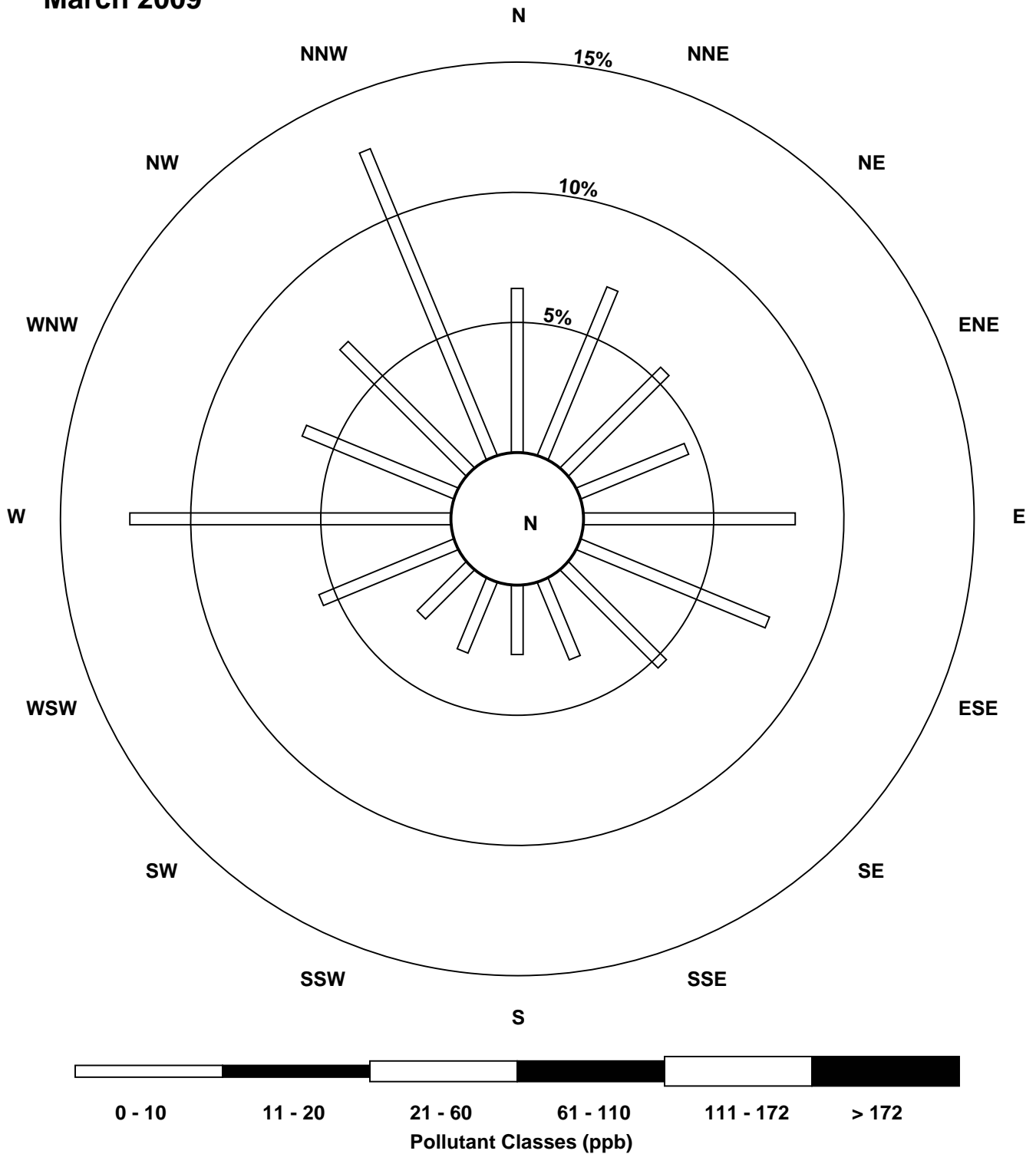
0.9	0.9	0.8	0.7	--	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.8	0.9	1.2	0.8	Diurnal Average	
6.0	5.6	5.8	3.0	--	3.7	5.6	5.6	4.6	3.7	4.2	5.2	6.4	5.7	6.0	5.8	5.4	5.1	4.8	4.0	3.2	3.4	15.6	3.4	Diurnal Maximum		

A - Automated Daily Zero Span

Hourly Maximums for SO₂ at Beaverlodge March 2009



Pollutant Rose for SO₂ at Beaverlodge March 2009



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

**Beaverlodge - Nitrogen Dioxide (NO₂) - ppb
March 1, 2009 to April 1, 2009**

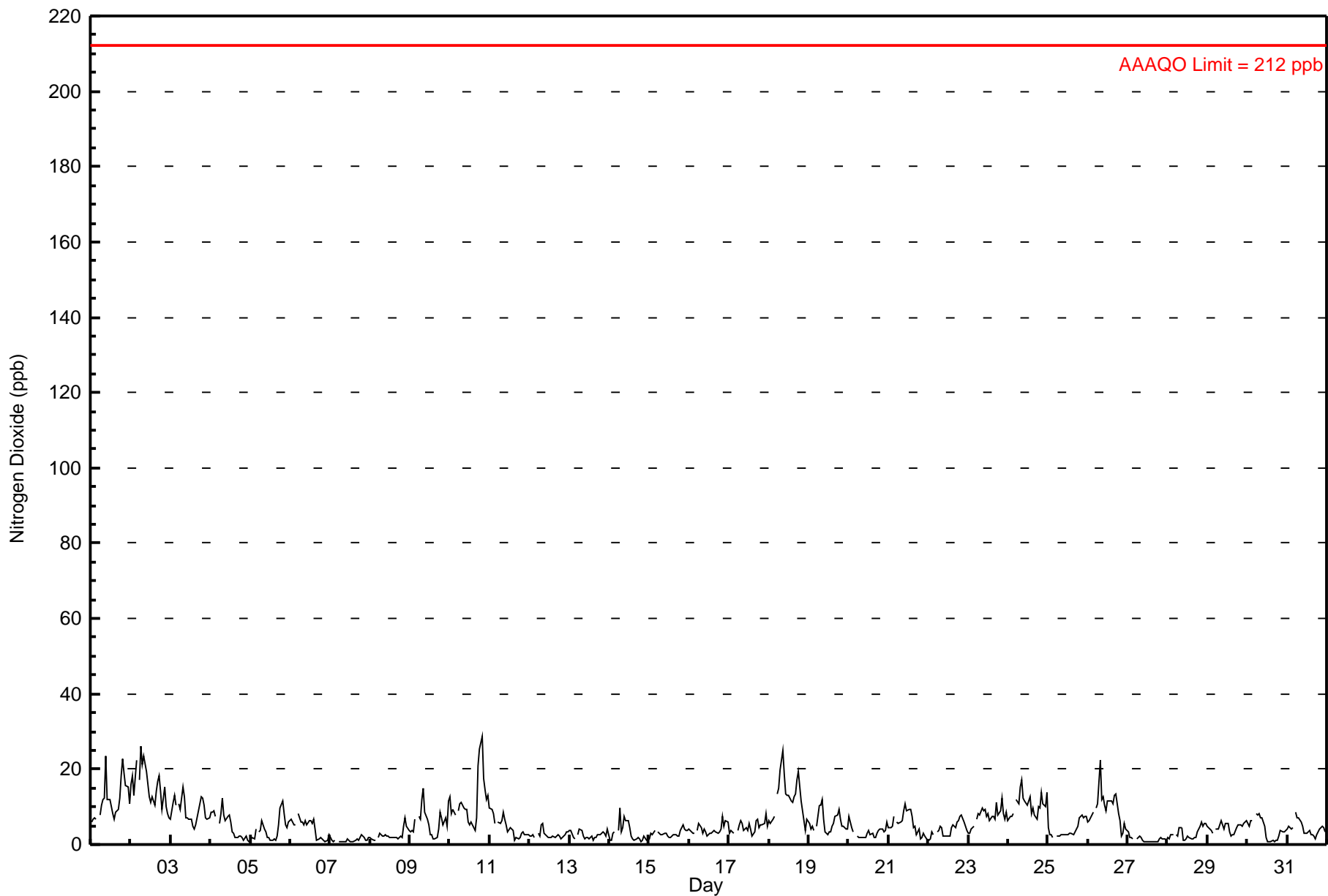
Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 28.7 ppb on Mar 10 20:00	Maximum Daily Average: 15.4 ppb on Mar 2
Minimum Value: 1 ppb on Mar 7 08:00	Hours of Data: 713
Minimum Daily Average: 1.2 ppb on Mar 7	Hours of Missing Data: 31
Maximum Diurnal Average: 8.0 ppb at hour 8	Hours of Calibration: 31
Monthly Average: 5.62 ppb	Percent Operational Time: 100.0
Percentiles: P ₁ = 0.9 P ₁₀ = 1.5 Q ₁ = 2.3 Median = 4.3 Q ₃ = 7.5 P ₉₀ = 11.6 P ₉₉ = 22.3	

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-Mar	6	7	7	7	A	8	10	12	12	24	12	12	10	8	7	8	9	12	18	23	19	16	15	11	11.9	23.5
2-Mar	16	18	13	22	A	17	26	21	23	20	16	13	11	13	10	14	17	18	14	9	15	10	8	7	15.4	26.0
3-Mar	7	11	13	10	A	11	9	15	13	7	7	7	7	5	4	5	7	9	13	12	11	7	7	7	8.8	15.3
4-Mar	9	9	9	7	A	6	8	12	8	6	7	8	6	3	3	2	2	2	2	2	1	2	1	1	5.1	12.1
5-Mar	1	2	2	4	A	3	4	6	4	3	2	2	1	1	1	1	2	5	10	12	8	5	4	6	3.9	11.6
6-Mar	7	6	5	5	A	8	6	6	5	6	5	6	6	6	7	4	1	1	2	2	1	1	1	3	4.4	8.2
7-Mar	2	1	1	1	A	1	1	1	1	1	2	1	1	1	1	1	1	1	2	2	2	1	1	2	1.2	2.5
8-Mar	2	1	1	1	A	2	3	2	2	3	2	2	2	2	2	2	2	2	2	2	5	7	5	4	2.5	7.0
9-Mar	3	4	4	7	A	8	7	12	15	8	7	5	3	3	1	1	2	4	9	7	5	7	5	11	6.0	15.1
10-Mar	13	8	10	8	A	9	11	11	10	9	9	6	5	6	5	4	7	21	25	29	17	15	12	13	11.4	28.7
11-Mar	10	9	8	6	A	6	6	6	9	7	5	3	4	4	4	1	2	2	2	3	3	3	3	3	4.7	9.8
12-Mar	2	2	2	2	A	3	2	5	5	3	2	2	2	2	2	2	2	3	2	2	2	3	3	3	2.6	5.4
13-Mar	4	4	2	2	A	3	4	4	2	2	2	2	1	2	1	2	2	3	3	3	4	3	2	4	2.6	4.3
14-Mar	1	1	3	3	A	4	10	4	5	8	6	6	5	2	2	1	1	2	2	1	1	2	1	1	3.1	9.6
15-Mar	2	3	3	4	A	3	3	3	3	3	3	2	2	2	3	3	3	2	2	4	5	4	4	4	2.9	5.3
16-Mar	4	3	3	3	A	4	6	4	3	4	3	2	3	3	3	4	3	3	3	4	7	5	6	6	4.0	7.5
17-Mar	3	4	4	3	A	4	5	6	6	4	4	4	6	4	2	3	6	7	4	5	5	6	8	5	4.7	8.2
18-Mar	7	6	7	7	A	14	15	20	25	19	13	13	13	12	11	13	13	17	19	12	9	6	4	7	12.2	24.9
19-Mar	5	4	5	4	A	5	10	11	12	7	3	3	3	3	5	6	7	8	9	7	5	5	4	4	5.9	11.8
20-Mar	7	6	4	4	A	2	2	2	2	2	2	3	4	2	3	2	2	3	4	4	4	3	4	6	3.3	7.4
21-Mar	4	4	5	7	A	6	6	6	6	9	11	9	9	9	8	4	5	3	4	2	2	3	2	1	5.5	10.7
22-Mar	1	2	4	3	A	3	4	5	4	2	2	2	2	2	5	5	5	6	6	7	8	6	5	4	4.0	7.9
23-Mar	3	3	4	5	A	7	8	8	10	9	9	7	8	6	7	8	7	11	8	9	12	8	7	9	7.5	12.3
24-Mar	6	8	7	8	A	12	11	15	17	12	12	10	11	13	8	10	8	7	10	10	14	11	10	14	10.6	17.1
25-Mar	4	3	3	2	A	2	2	2	3	3	3	3	3	3	3	3	3	4	5	7	8	7	8	8	3.9	8.0
26-Mar	6	6	8	9	A	10	11	22	12	13	10	9	12	11	11	11	13	13	8	6	2	3	5	4	9.4	22.2
27-Mar	3	2	2	1	A	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1.4	3.3
28-Mar	2	2	3	3	A	3	2	4	4	1	1	2	2	2	1	2	2	2	3	5	6	5	5	6	2.9	5.8
29-Mar	5	4	4	3	A	4	4	5	6	5	4	6	5	4	2	3	3	4	5	5	5	5	5	6	4.5	6.5
30-Mar	5	5	6	6	A	8	8	8	7	7	5	2	1	1	1	1	1	1	1	2	4	3	3	4	4.0	8.4
31-Mar	4	5	4	4	A	9	7	7	6	5	3	3	3	4	3	3	2	1	3	4	4	5	5	3	4.2	8.7

5.0	4.9	4.9	5.2	--	5.9	6.9	8.0	7.8	6.8	5.6	5.0	4.9	4.5	4.1	4.1	4.6	5.7	6.5	6.5	6.4	5.4	5.1	5.4	Diurnal Average	
15.9	18.4	13.1	22.2	--	17.1	26.0	22.2	24.9	23.5	15.9	12.9	13.1	12.6	11.5	14.1	16.7	20.7	25.2	28.7	18.9	15.5	15.1	13.7	Diurnal Maximum	

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 March 2009



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

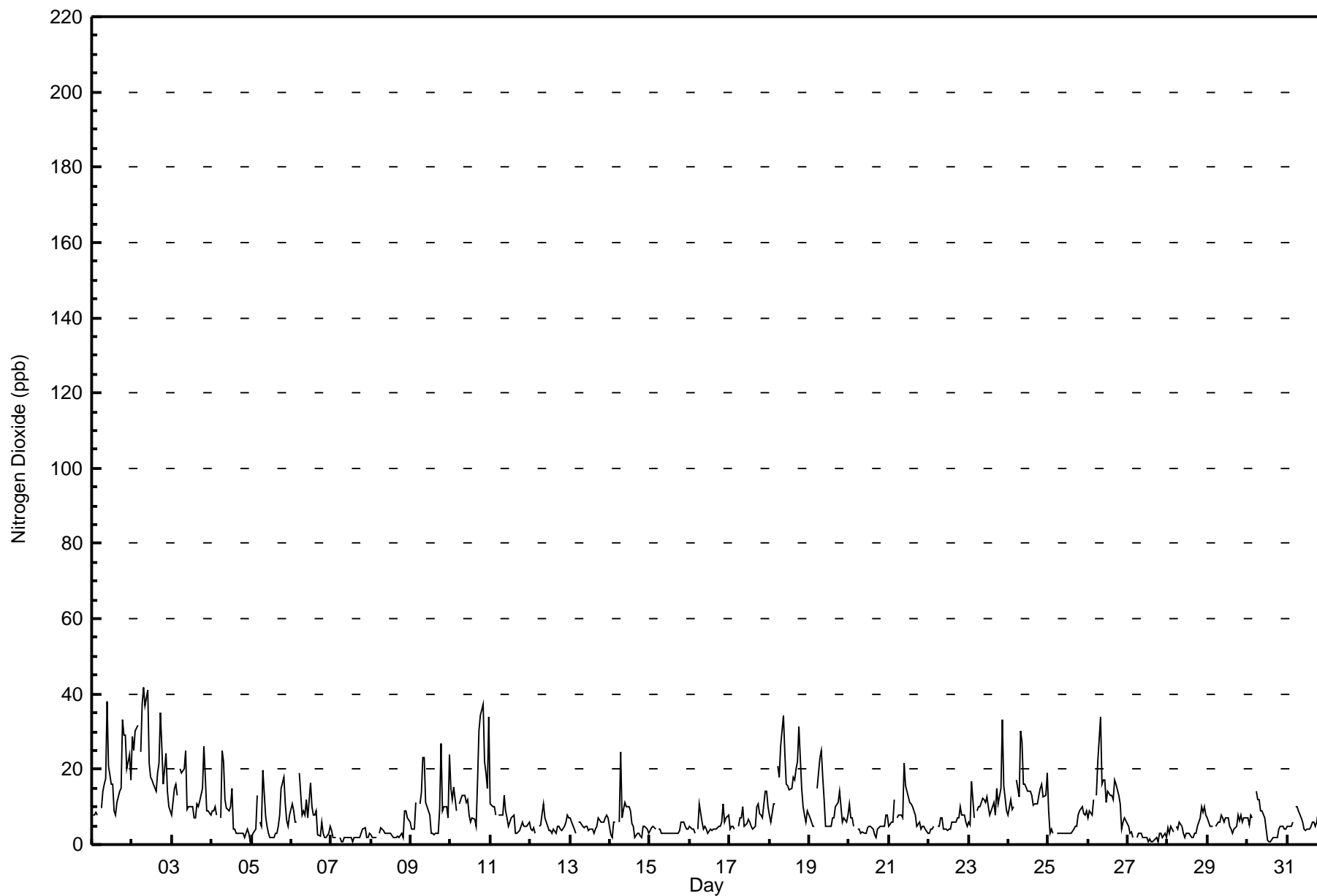
**Beaverlodge - Nitrogen Dioxide (NO₂) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 41.6 ppb on Mar 2 08:00	Maximum Daily Average: 24.3 ppb on Mar 2	Hours in Service: 744
Minimum Value: 1 ppb on Mar 7 08:00	Minimum Daily Average: 2.1 ppb on Mar 7	Hours of Data: 713
Maximum Diurnal Average: 12.7 ppb at hour 8	Minimum Diurnal Average: 5.9 ppb at hour 14	Hours of Missing Data: 31
Monthly Average: 8.43 ppb	Percentiles: P ₁ = 0.9 P ₁₀ = 2.9 Q ₁ = 3.9 Median = 6.0 Q ₃ = 10.6 P ₉₀ = 17.0 P ₉₉ = 34.1	Hours of Calibration: 31
		Percent Operational Time: 100.0

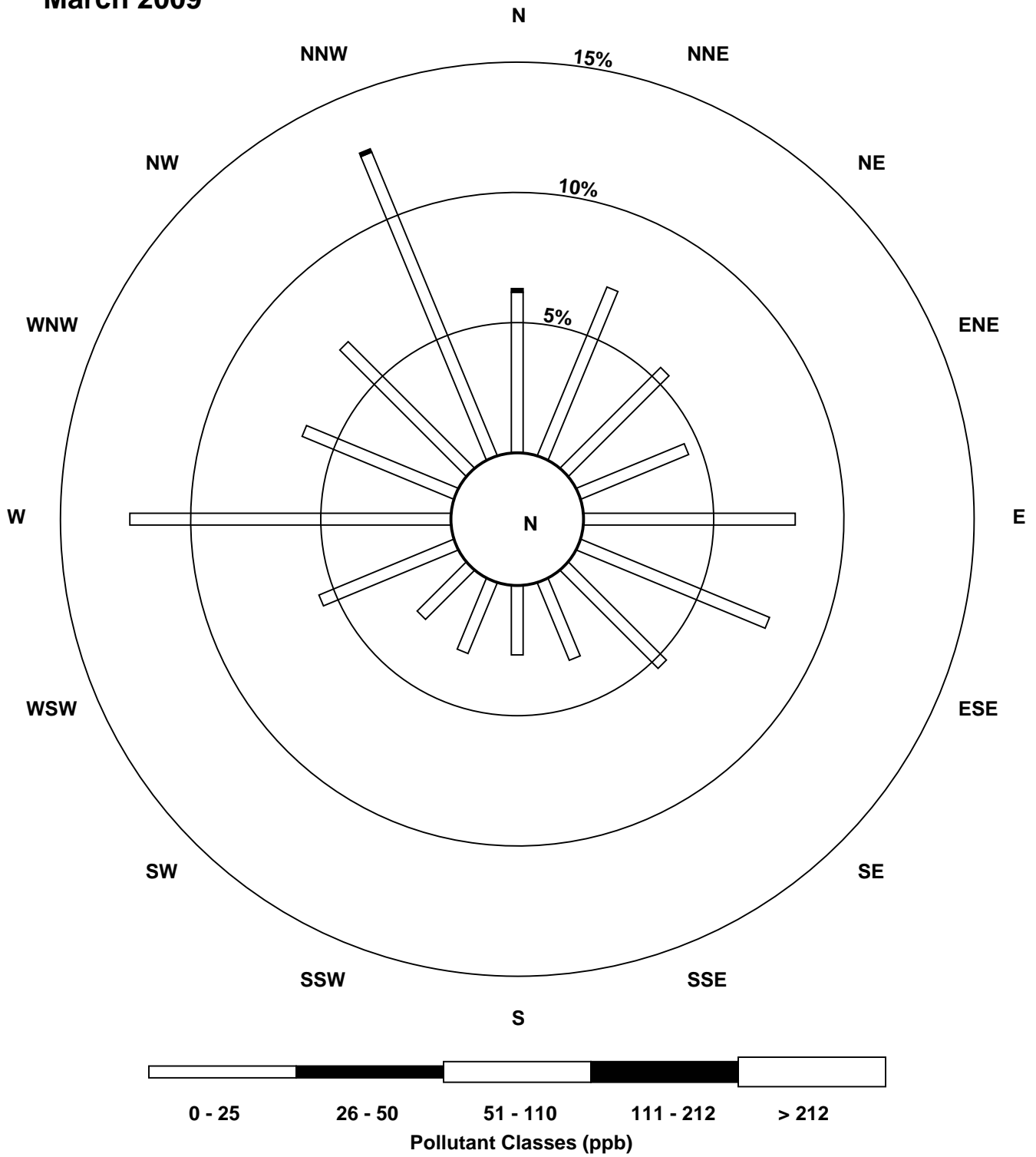
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Mar	8	8	9	8	A	10	14	16	18	38	21	16	16	9	8	11	14	15	33	29	29	20	24	17	17.0	38.2
2-Mar	29	25	30	32	A	25	37	42	37	41	22	18	17	16	14	19	22	35	26	16	24	14	10	9	24.3	41.6
3-Mar	8	15	16	13	A	20	19	20	25	9	10	10	10	7	7	11	10	11	15	26	18	9	9	8	13.3	26.1
4-Mar	9	9	10	8	A	7	25	22	12	10	9	10	15	4	4	3	3	3	3	3	2	4	3	1	7.7	25.1
5-Mar	2	3	4	13	A	6	5	20	8	5	3	2	2	2	3	3	5	8	15	18	11	6	5	8	6.7	19.6
6-Mar	11	9	6	6	A	19	8	9	8	12	7	16	10	8	8	9	3	2	6	3	2	2	3	5	7.5	19.0
7-Mar	4	2	2	2	A	2	1	1	2	2	2	2	2	1	2	2	2	2	3	4	5	2	2	3	2.1	4.5
8-Mar	3	2	2	2	A	3	5	4	3	3	3	3	3	2	2	2	2	2	3	2	9	9	7	6	3.5	9.0
9-Mar	4	4	4	11	A	11	14	23	23	11	9	8	3	3	3	3	3	9	27	9	10	10	7	24	10.1	26.9
10-Mar	15	12	15	9	A	11	12	13	13	11	12	8	6	7	7	5	17	30	34	37	22	19	15	34	15.8	37.2
11-Mar	11	10	10	8	A	8	8	8	13	9	7	5	7	7	8	3	3	4	5	6	5	5	5	6	7.0	13.0
12-Mar	4	4	4	3	A	5	5	8	11	7	5	4	4	3	4	3	5	5	4	4	5	6	8	7	5.1	11.0
13-Mar	7	6	4	3	A	6	6	5	4	5	5	4	4	4	3	4	5	7	6	6	6	7	8	7	5.2	8.0
14-Mar	3	2	6	6	A	6	25	7	9	11	10	10	9	6	5	2	3	3	2	2	5	5	4	3	6.2	24.7
15-Mar	4	4	5	4	A	4	4	3	3	3	3	3	3	3	3	3	3	3	4	6	6	5	4	4	3.7	6.0
16-Mar	5	4	4	3	A	4	11	6	4	5	4	3	4	4	4	4	4	5	5	6	11	6	7	8	5.2	11.0
17-Mar	4	5	5	4	A	5	7	7	10	5	6	7	6	5	4	5	10	11	8	8	7	14	14	10	7.2	14.0
18-Mar	8	6	11	11	A	21	18	26	34	24	16	16	14	15	18	17	20	22	31	15	10	8	6	9	16.4	34.2
19-Mar	7	6	5	5	A	15	23	25	18	12	5	5	5	5	7	7	10	11	14	10	6	7	6	8	9.7	25.1
20-Mar	11	7	7	5	A	4	4	3	3	3	3	4	5	5	4	3	2	4	5	5	5	5	8	8	4.9	11.0
21-Mar	5	6	6	12	A	7	8	8	7	22	16	14	11	11	10	9	8	5	6	4	5	5	4	3	8.3	21.5
22-Mar	3	4	4	5	A	5	5	7	7	4	4	4	4	4	6	6	6	7	7	10	8	8	6	5	5.6	10.0
23-Mar	6	5	17	7	A	9	10	10	12	12	11	13	10	8	10	11	8	15	11	15	33	16	12	9	11.7	33.2
24-Mar	8	12	10	10	A	17	13	30	27	16	16	14	14	14	13	10	11	11	13	15	16	13	13	19	14.6	30.2
25-Mar	9	3	4	3	A	3	3	3	3	3	3	3	3	3	3	4	5	5	8	9	10	8	8	9	5.0	10.0
26-Mar	7	9	8	12	A	13	22	34	16	17	17	11	14	13	13	12	17	16	13	11	4	6	7	7	13.0	34.0
27-Mar	5	3	3	2	A	2	3	3	3	2	2	2	1	2	1	1	2	2	1	3	3	2	3	2	2.2	5.0
28-Mar	4	3	5	3	A	5	4	6	5	3	2	3	3	3	2	2	3	3	5	7	10	9	10	8	4.6	10.0
29-Mar	7	5	5	5	A	5	6	6	8	7	6	7	7	5	4	3	4	5	8	6	8	6	7	7	5.9	8.0
30-Mar	7	5	8	7	A	14	12	12	9	9	7	4	1	1	1	2	2	2	2	4	5	5	4	4	5.5	14.0
31-Mar	5	5	5	6	A	10	10	9	7	6	4	4	4	4	5	6	6	5	6	11	7	10	7	6	6.4	11.0
	7.1	6.5	7.5	7.3	--	9.0	11.1	12.7	11.7	10.5	8.0	7.5	7.0	5.9	5.9	5.9	7.0	8.6	10.6	10.0	9.9	8.1	7.6	8.5	Diurnal Average	
	28.7	25.2	30.2	31.6	--	24.7	37.2	41.6	37.0	41.1	21.8	18.0	17.0	16.0	17.7	18.9	21.8	35.2	34.2	37.2	33.2	20.0	23.8	33.9	Diurnal Maximum	

A - Automated Daily Zero Span

Hourly Maximums for NO₂ at Beaverlodge March 2009



Pollutant Rose for NO₂ at Beaverlodge March 2009



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

**Beaverlodge - Nitrogen Oxide (NO) - ppb
March 1, 2009 to April 1, 2009**

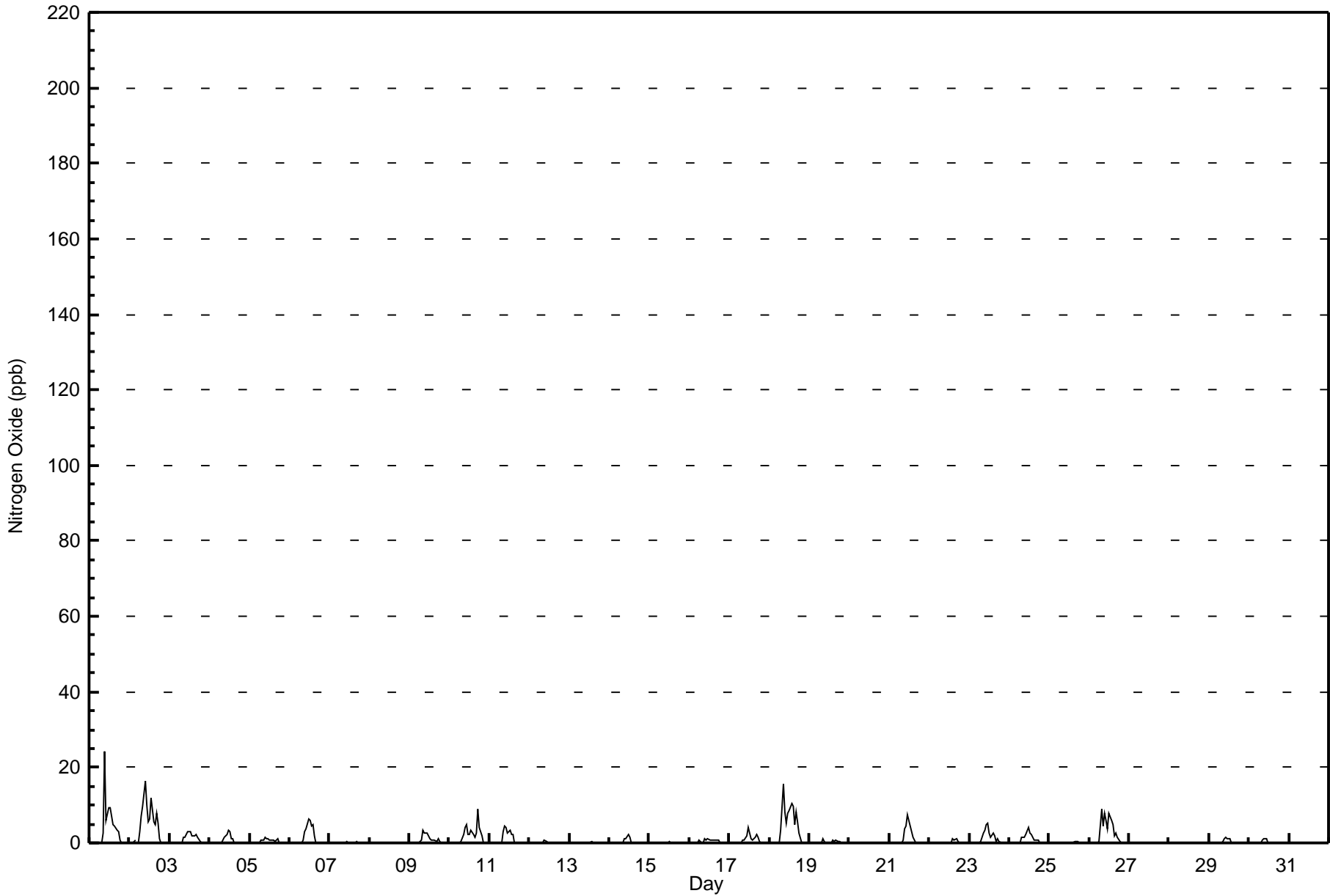
Maximum Value: 24.2 ppb on Mar 1 10:00	Maximum Daily Average: 4.2 ppb on Mar 2	Hours in Service: 744
Minimum Value: 0 ppb on Mar 1 01:00	Minimum Daily Average: 0.0 ppb on Mar 8	Hours of Data: 713
Maximum Diurnal Average: 2.9 ppb at hour 10	Minimum Diurnal Average: 0.0 ppb at hour 2	Hours of Missing Data: 31
Monthly Average: 0.83 ppb	Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.0 Q ₃ = 0.6 P ₉₀ = 2.7 P ₉₉ = 9.7	Hours of Calibration: 31
		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-Mar	0	0	0	0	A	0	0	0	3	24	6	9	9	7	5	4	3	3	1	0	0	0	0	0	3.2	24.2
2-Mar	0	0	0	1	A	0	3	7	10	16	10	6	6	12	6	5	8	5	1	0	0	0	0	0	4.2	16.4
3-Mar	0	0	0	0	A	0	0	0	1	2	2	3	3	2	2	2	2	1	0	0	0	0	0	0	0.9	2.9
4-Mar	0	0	0	0	A	0	0	0	1	1	2	3	3	1	1	0	0	0	0	0	0	0	0	0	0.6	3.4
5-Mar	0	0	0	0	A	0	0	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0.4	1.4
6-Mar	0	0	0	0	A	0	0	0	1	3	4	6	6	4	5	2	0	0	0	0	0	0	0	0	1.4	6.3
7-Mar	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
8-Mar	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-Mar	0	0	0	0	A	0	0	1	3	3	3	2	1	1	1	1	0	1	1	0	0	0	0	0	0.7	3.2
10-Mar	0	0	0	0	A	0	0	0	2	4	5	2	2	3	2	2	3	9	4	2	0	0	0	0	1.8	9.0
11-Mar	0	0	0	0	A	0	0	0	3	4	4	3	3	2	2	0	0	0	0	0	0	0	0	0	0.9	4.4
12-Mar	0	0	0	0	A	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.8
13-Mar	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	0.3
14-Mar	0	0	0	0	A	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0.3	2.1
15-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4
16-Mar	0	0	0	0	A	0	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.4	1.3
17-Mar	0	0	0	0	A	0	0	0	1	1	2	4	2	1	1	1	2	1	0	0	0	0	0	0	0.7	4.0
18-Mar	0	0	0	0	A	0	0	3	16	8	5	8	8	11	10	5	8	5	3	0	0	0	0	0	3.9	15.8
19-Mar	0	0	0	0	A	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0.2	1.1
20-Mar	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-Mar	0	0	0	0	A	0	0	0	1	4	4	7	4	3	1	1	0	0	0	0	0	0	0	0	1.1	7.3
22-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.1	1.0
23-Mar	0	0	0	0	A	0	0	0	2	4	5	5	3	1	3	2	0	1	0	0	0	0	0	0	1.2	5.4
24-Mar	0	0	0	0	A	0	0	1	2	1	2	4	3	2	2	1	1	1	0	0	0	0	0	0	0.8	4.3
25-Mar	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	0.3
26-Mar	0	0	0	0	A	0	0	9	4	8	6	4	8	6	5	2	2	1	0	0	0	0	0	0	2.4	8.8
27-Mar	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
28-Mar	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
29-Mar	0	0	0	0	A	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.2	1.4
30-Mar	0	0	0	0	A	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1.1
31-Mar	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

0.0	0.0	0.0	0.0	--	0.0	0.1	0.7	1.7	2.9	2.1	2.3	2.2	1.9	1.5	1.0	1.1	1.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	Diurnal Average
0.1	0.0	0.1	0.6	--	0.0	2.8	8.8	15.8	24.2	10.1	9.2	9.2	11.9	9.8	5.0	8.1	9.0	4.0	1.7	0.1	0.0	0.0	0.2	Diurnal Maximum	

A - Automated Daily Zero Span

Hourly Averages for NO at Beaverlodge March 2009



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

**Beaverlodge - Nitrogen Oxide (NO) - ppb
March 1, 2009 to April 1, 2009**

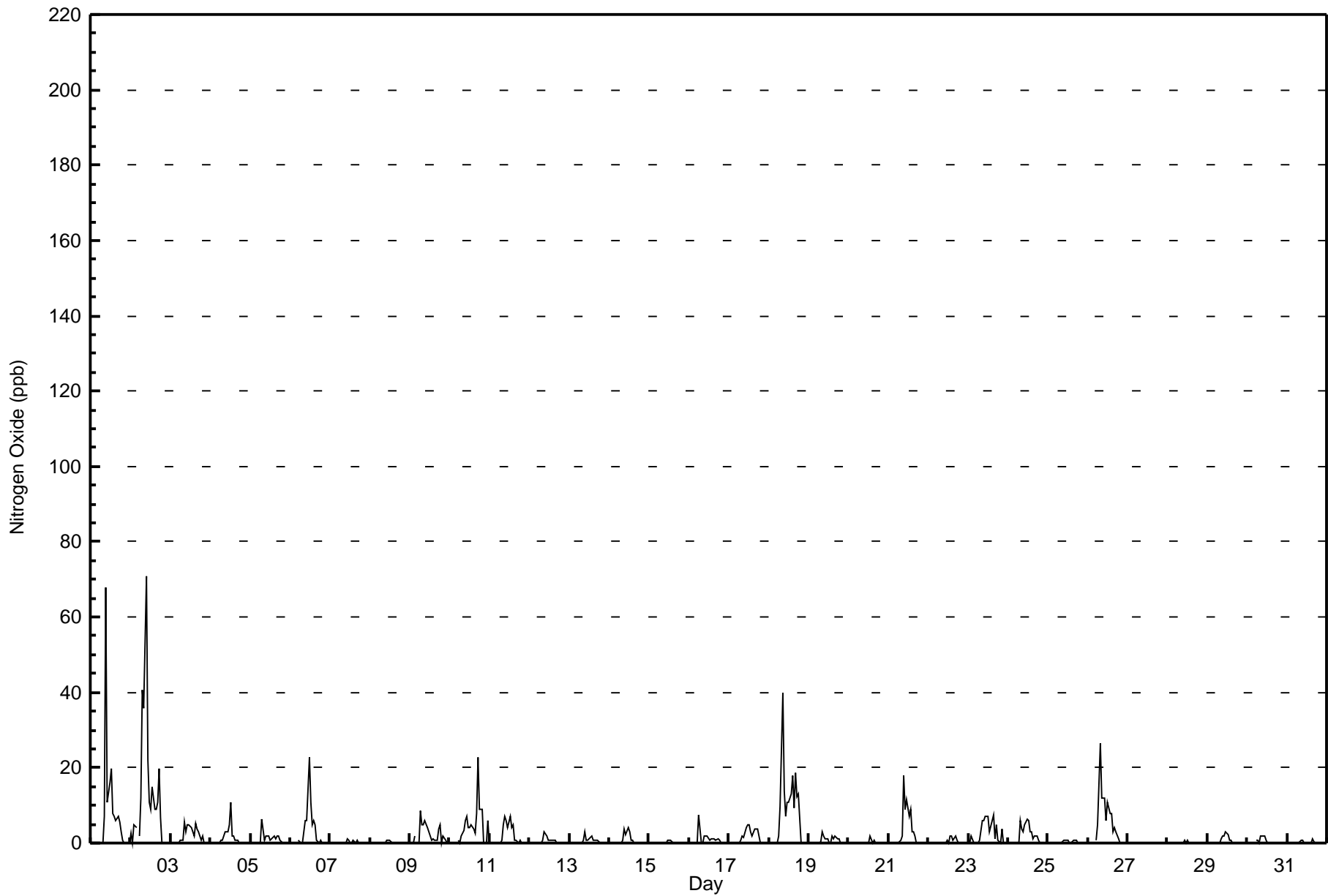
Maximum Value: 70.7 ppb on Mar 2 10:00	Maximum Daily Average: 12.4 ppb on Mar 2	Hours in Service: 744
Minimum Value: 0 ppb on Mar 1 01:00	Minimum Daily Average: 0.0 ppb on Mar 27	Hours of Data: 713
Maximum Diurnal Average: 7.9 ppb at hour 10	Minimum Diurnal Average: 0.0 ppb at hour 2	Hours of Missing Data: 31
Monthly Average: 1.98 ppb	Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.0 Q ₃ = 1.9 P ₉₀ = 5.9 P ₉₉ = 20.6	Hours of Calibration: 31
		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-Mar	0	0	0	0	A	0	0	0	7	68	11	16	20	8	7	6	7	6	3	1	0	0	0	0	6.9	67.8
2-Mar	3	0	5	4	A	2	12	41	36	71	22	11	9	15	9	9	11	20	7	0	0	0	0	0	12.4	70.7
3-Mar	0	0	0	0	A	0	1	1	6	3	5	5	4	3	2	5	4	3	1	2	0	0	0	0	1.9	5.7
4-Mar	0	0	0	0	A	0	1	1	2	3	3	5	11	2	2	1	1	0	0	0	0	0	0	0	1.3	10.9
5-Mar	0	0	0	0	A	0	0	6	1	2	2	2	1	2	2	1	2	2	1	0	0	0	0	0	1.0	6.2
6-Mar	0	0	0	0	A	1	0	0	3	6	6	23	11	5	6	5	1	0	1	0	0	0	0	0	2.9	22.8
7-Mar	0	0	0	0	A	0	0	0	0	0	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0.2	1.0
8-Mar	0	0	0	0	A	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
9-Mar	0	0	0	2	A	0	9	5	5	6	4	3	2	1	1	1	1	4	5	0	2	1	0	0	2.2	8.7
10-Mar	0	0	0	0	A	1	0	2	3	6	7	4	4	5	4	2	8	23	9	9	0	0	0	6	4.0	22.7
11-Mar	0	0	0	0	A	0	0	1	5	7	6	4	7	4	5	1	1	0	1	0	0	0	0	0	1.8	6.9
12-Mar	0	0	0	0	A	0	0	0	1	3	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0.4	2.9
13-Mar	0	0	0	0	A	0	0	0	1	3	1	1	1	2	1	1	1	1	0	0	0	0	0	0	0.5	2.9
14-Mar	0	0	0	0	A	0	0	0	1	4	2	4	3	1	1	0	0	0	0	0	0	0	0	0	0.7	3.9
15-Mar	0	0	0	0	A	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0.1	0.9
16-Mar	0	0	0	0	A	0	7	0	0	2	2	2	1	1	1	1	1	1	1	0	0	0	0	0	0.9	7.4
17-Mar	0	0	0	0	A	0	0	1	2	2	4	5	5	3	2	4	4	4	2	0	0	0	0	0	1.6	4.9
18-Mar	0	0	0	0	A	0	2	10	40	14	7	11	11	13	18	9	19	12	13	0	0	0	0	0	7.8	39.9
19-Mar	0	0	0	0	A	0	0	0	3	2	1	1	0	0	2	1	2	1	1	0	0	0	0	0	0.6	2.9
20-Mar	0	0	0	0	A	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0.1	1.9
21-Mar	0	0	0	0	A	0	0	1	2	18	9	12	7	9	3	3	2	0	0	0	0	0	0	0	2.8	17.9
22-Mar	0	0	0	0	A	0	0	0	0	0	0	1	0	2	2	1	2	1	0	0	0	0	0	0	0.4	1.9
23-Mar	0	0	2	0	A	0	0	1	6	6	7	7	7	3	6	8	1	5	1	0	4	0	0	0	2.7	7.6
24-Mar	0	0	0	0	A	0	0	6	4	3	5	7	6	3	3	1	2	2	1	0	0	0	0	0	1.8	6.5
25-Mar	0	0	0	0	A	0	0	0	0	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0.3	0.9
26-Mar	0	0	0	0	A	1	5	26	12	12	12	6	11	8	8	3	4	3	1	0	0	0	0	0	4.9	26.4
27-Mar	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
28-Mar	0	0	0	0	A	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.9
29-Mar	0	0	0	0	A	0	0	0	1	2	2	3	2	1	1	0	0	0	0	0	0	0	0	0	0.5	2.9
30-Mar	0	0	0	0	A	1	1	0	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.9
31-Mar	0	0	0	0	A	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.1	0.9
	0.1	0.0	0.2	0.2	--	0.2	1.2	3.3	4.6	7.9	4.0	4.4	4.1	3.0	2.8	2.1	2.4	2.8	1.5	0.4	0.2	0.0	0.0	0.2	Diurnal Average	
	2.5	0.0	5.0	3.9	--	2.0	11.9	40.6	39.9	70.7	21.9	22.8	19.9	14.9	17.9	9.2	18.8	22.7	12.9	8.8	3.9	0.9	0.0	5.9	Diurnal Maximum	

A - Automated Daily Zero Span

Hourly Maximums for NO at Beaverlodge

March 2009



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

**Beaverlodge - Oxides of Nitrogen (NO_x) - ppb
March 1, 2009 to April 1, 2009**

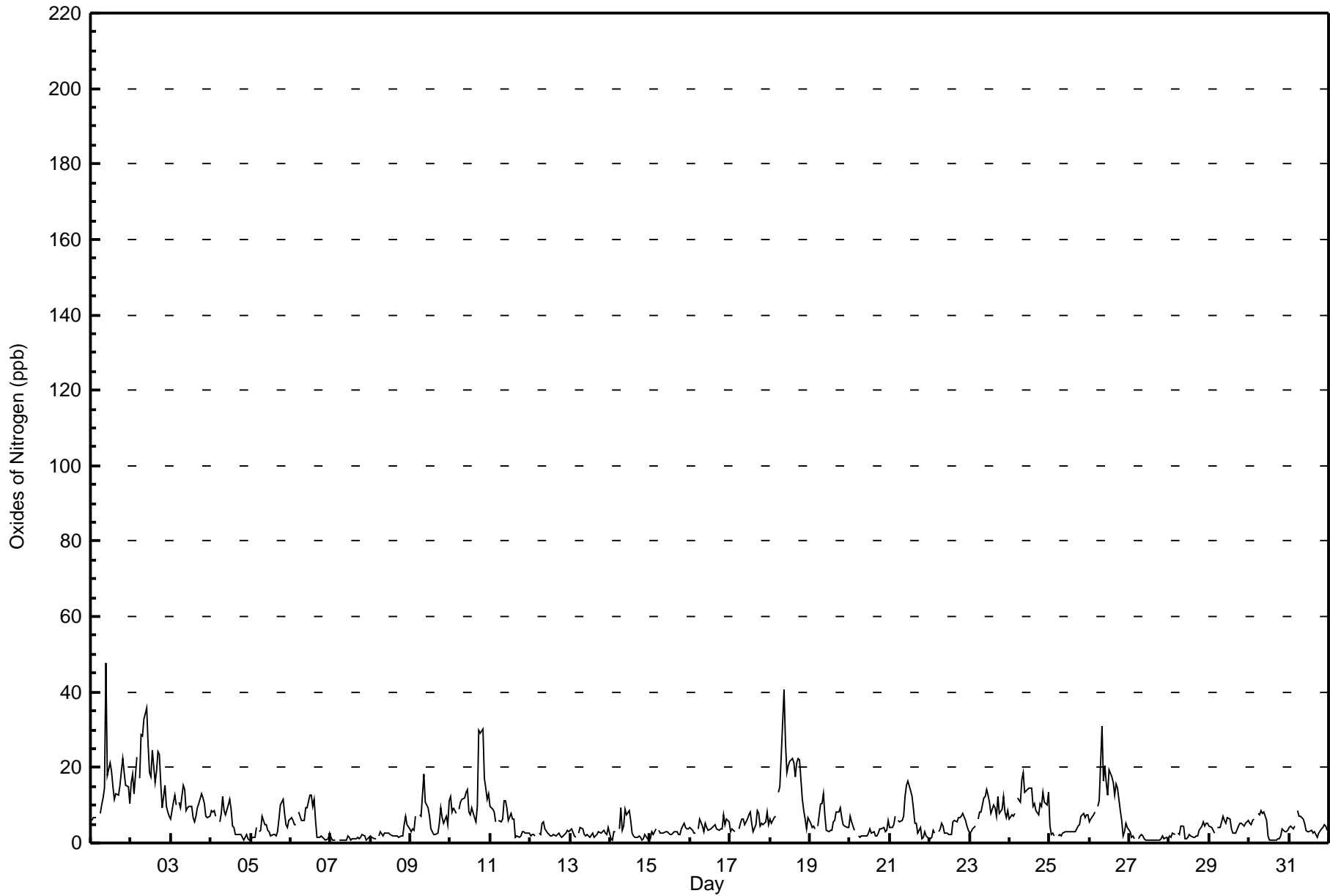
Maximum Value: 47.6 ppb on Mar 1 10:00	Maximum Daily Average: 19.4 ppb on Mar 2	Hours in Service: 744
Minimum Value: 1 ppb on Mar 30 14:00	Minimum Daily Average: 1.2 ppb on Mar 7	Hours of Data: 713
Maximum Diurnal Average: 9.7 ppb at hour 10	Minimum Diurnal Average: 4.7 ppb at hour 2	Hours of Missing Data: 31
Monthly Average: 6.40 ppb	Percentiles: P ₁ = 0.9 P ₁₀ = 1.5 Q ₁ = 2.4 Median = 4.6 Q ₃ = 8.2 P ₉₀ = 13.5 P ₉₉ = 29.3	Hours of Calibration: 31
		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-Mar	6	7	7	7	A	8	10	12	15	48	18	21	19	15	12	13	13	15	19	23	19	15	15	11	15.0	47.6
2-Mar	16	18	13	23	A	17	29	28	33	36	26	18	18	24	16	19	24	24	16	9	15	10	8	7	19.4	35.9
3-Mar	7	11	13	10	A	11	9	15	14	9	9	10	10	7	6	7	9	10	13	12	10	7	7	7	9.7	15.3
4-Mar	9	8	9	7	A	6	8	12	8	8	10	11	9	5	4	2	2	2	2	2	1	2	1	1	5.6	12.1
5-Mar	1	2	1	4	A	3	3	7	5	5	3	3	2	2	2	2	3	6	10	11	8	5	4	6	4.3	11.4
6-Mar	7	6	5	5	A	8	6	6	6	9	9	13	13	10	12	6	1	1	2	1	1	1	1	2	5.7	12.6
7-Mar	2	1	1	1	A	1	1	1	1	1	2	1	1	1	1	1	2	1	2	2	2	1	1	2	1.2	2.4
8-Mar	2	1	1	1	A	2	3	2	2	3	3	3	2	2	2	2	2	2	2	2	5	7	5	4	2.5	6.9
9-Mar	3	4	3	7	A	8	7	13	18	11	9	7	4	3	2	2	2	5	9	7	5	7	5	11	6.7	18.2
10-Mar	12	8	9	8	A	9	11	12	12	13	14	8	7	9	7	5	10	30	29	30	17	14	12	13	13.1	30.4
11-Mar	10	9	8	6	A	6	5	6	11	11	9	6	8	6	6	1	2	2	2	3	3	2	3	2	5.6	11.3
12-Mar	2	2	2	2	A	3	2	5	6	4	3	2	2	2	2	2	2	3	2	1	2	3	3	3	2.6	5.7
13-Mar	4	4	2	2	A	3	4	4	2	2	2	2	2	3	2	2	2	3	3	3	3	3	2	4	2.6	4.1
14-Mar	1	1	3	3	A	4	9	3	5	9	7	9	6	3	2	1	2	2	1	1	1	2	1	1	3.3	9.5
15-Mar	1	3	2	4	A	3	3	3	3	3	3	3	2	2	3	3	3	2	2	4	5	4	4	4	3.0	5.2
16-Mar	4	3	3	3	A	4	6	5	3	5	4	3	4	4	5	5	4	3	4	4	7	5	6	6	4.3	7.3
17-Mar	3	4	3	3	A	4	5	6	6	5	6	8	8	5	3	5	8	8	5	5	5	5	8	5	5.4	8.5
18-Mar	6	5	7	7	A	13	15	23	41	27	19	21	22	22	21	18	21	22	22	12	9	6	4	7	16.0	40.7
19-Mar	5	4	5	4	A	5	10	11	13	7	3	3	3	3	6	6	8	8	9	7	5	5	4	4	6.0	13.1
20-Mar	7	6	4	3	A	2	1	2	2	2	2	3	4	3	3	2	2	3	4	4	4	3	3	6	3.2	7.2
21-Mar	4	4	5	7	A	6	6	6	7	12	15	16	14	12	9	5	5	3	4	1	2	3	2	1	6.5	16.3
22-Mar	1	1	3	2	A	3	4	5	4	2	2	2	2	2	5	6	6	7	7	7	8	6	5	3	4.2	7.8
23-Mar	3	3	4	5	A	7	8	8	12	12	14	13	11	8	10	9	7	12	8	9	12	8	7	9	8.6	14.0
24-Mar	6	7	7	8	A	12	11	17	19	13	14	15	14	15	10	10	8	8	10	10	14	11	10	14	11.4	18.5
25-Mar	4	2	2	2	A	2	2	2	3	3	3	3	3	3	3	3	4	4	5	7	8	7	7	7	3.9	7.8
26-Mar	6	6	7	8	A	10	11	31	16	20	16	13	19	18	16	13	16	15	9	6	2	3	5	4	11.7	30.9
27-Mar	3	2	2	1	A	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1.3	3.0
28-Mar	2	1	2	2	A	3	2	4	5	1	1	1	2	2	2	1	2	2	3	5	6	5	5	5	2.8	5.7
29-Mar	5	4	4	3	A	4	4	6	7	6	5	7	6	4	2	3	3	4	5	5	5	5	5	6	4.6	7.1
30-Mar	5	5	6	6	A	8	8	8	8	8	6	2	1	1	1	1	1	1	1	2	4	3	3	3	4.0	8.5
31-Mar	4	5	4	4	A	9	7	7	6	5	3	3	3	3	3	3	2	2	3	4	4	5	4	3	4.2	8.6

4.8	4.7	4.8	5.1	--	5.8	6.9	8.8	9.5	9.7	7.8	7.4	7.1	6.4	5.7	5.2	5.7	6.8	6.9	6.4	6.2	5.3	4.9	5.2	Diurnal Average	
15.9	18.2	13.1	22.7	--	17.0	28.7	30.9	40.7	47.6	25.9	21.2	21.7	24.5	21.1	19.0	24.3	29.7	29.1	30.4	18.6	15.4	15.0	13.5	Diurnal Maximum	

A - Automated Daily Zero Span

Hourly Averages for NO_x at Beaverlodge March 2009



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

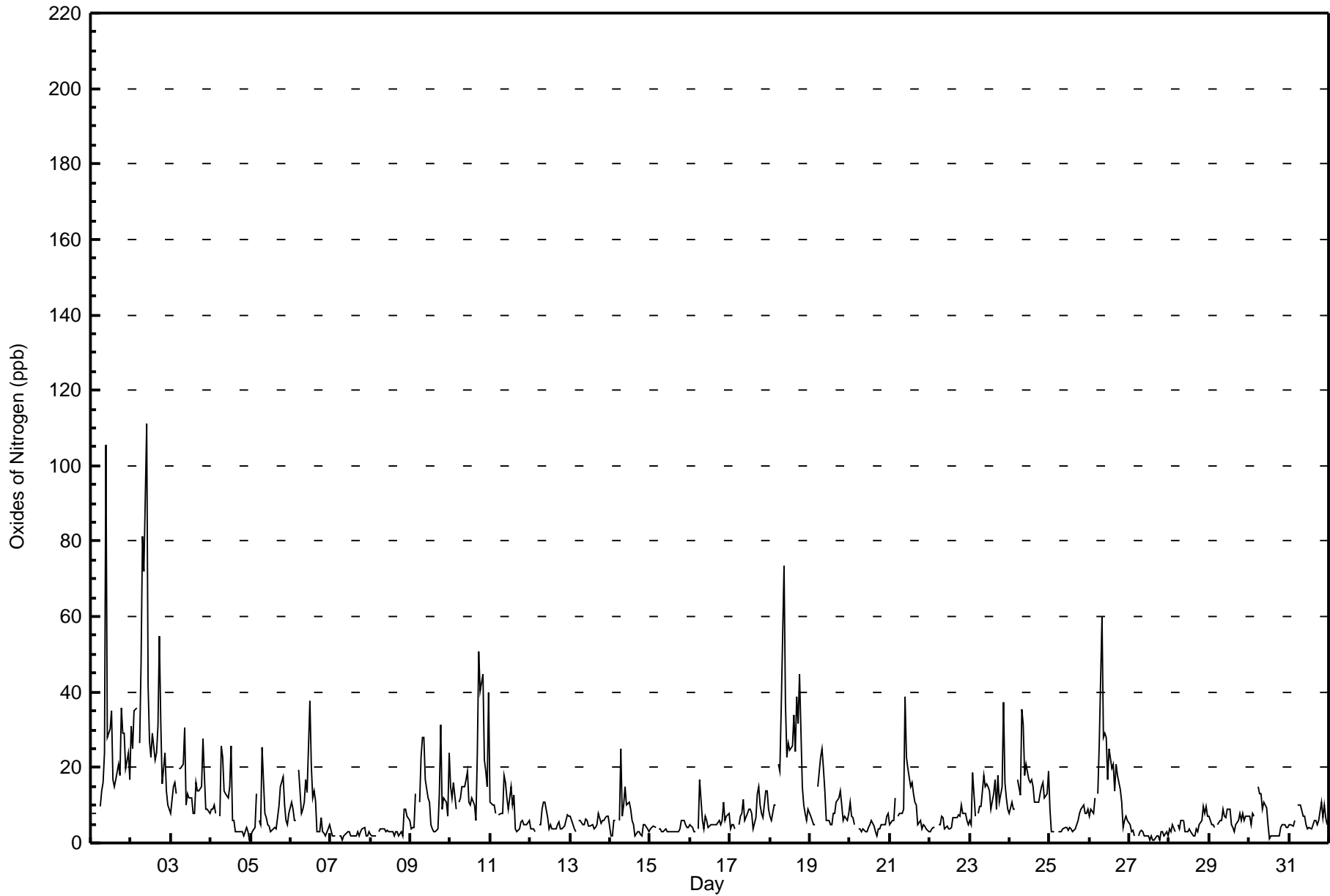
**Beaverlodge - Oxides of Nitrogen (NO_x) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 110.9 ppb on Mar 2 10:00	Maximum Daily Average: 35.7 ppb on Mar 2	Hours in Service: 744
Minimum Value: 1 ppb on Mar 7 08:00	Minimum Daily Average: 2.3 ppb on Mar 27	Hours of Data: 713
Maximum Diurnal Average: 18.0 ppb at hour 10	Minimum Diurnal Average: 6.4 ppb at hour 2	Hours of Missing Data: 31
Monthly Average: 10.07 ppb	Percentiles: P ₁ = 1.8 P ₁₀ = 2.9 Q ₁ = 3.9 Median = 6.9 Q ₃ = 11.9 P ₉₀ = 21.3 P ₉₉ = 51.7	Hours of Calibration: 31
		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-Mar	8	8	8	8	A	10	14	16	24	105	28	30	35	17	15	17	21	18	36	29	29	20	24	17	23.2	105.4
2-Mar	31	25	35	36	A	27	48	81	72	111	42	27	23	29	22	24	31	55	32	16	24	14	10	9	35.7	110.9
3-Mar	8	15	16	13	A	20	20	21	31	10	13	12	12	8	8	16	14	14	15	28	18	9	9	8	14.5	30.6
4-Mar	9	9	10	8	A	7	26	23	14	13	12	15	26	6	6	3	3	3	3	3	2	4	3	1	9.0	25.9
5-Mar	2	3	4	13	A	6	5	25	8	7	5	4	3	4	4	4	7	10	15	17	10	6	5	8	7.6	25.5
6-Mar	11	9	6	6	A	20	8	9	11	17	14	38	21	12	14	11	3	3	7	3	3	2	4	5	10.1	37.7
7-Mar	3	2	2	2	A	2	2	1	2	3	3	3	2	2	2	2	3	2	3	4	4	2	2	3	2.3	3.9
8-Mar	2	2	2	2	A	3	4	4	4	3	3	3	3	3	2	3	3	2	3	2	9	9	7	6	3.6	8.9
9-Mar	4	4	4	13	A	11	23	28	28	17	12	11	5	4	3	3	4	13	31	9	12	11	7	24	12.1	31.3
10-Mar	15	12	16	9	A	11	12	15	15	17	19	11	10	12	10	6	24	51	40	45	22	19	15	40	19.3	50.9
11-Mar	11	10	10	8	A	8	8	8	18	16	12	9	15	10	13	4	3	4	6	6	5	5	5	6	8.6	17.9
12-Mar	4	4	4	3	A	5	5	9	11	11	7	4	5	4	4	4	5	6	4	4	5	6	7	7	5.5	10.9
13-Mar	7	6	4	3	A	6	6	5	5	6	6	5	5	5	4	4	5	8	5	6	6	7	7	7	5.5	7.9
14-Mar	2	2	6	6	A	6	25	7	10	15	10	11	9	6	5	2	3	3	2	2	5	5	4	3	6.4	24.8
15-Mar	4	4	5	4	A	4	4	3	3	4	3	3	3	3	3	3	3	3	4	6	6	5	4	4	3.7	5.9
16-Mar	5	4	3	3	A	4	17	6	4	7	6	4	5	5	5	5	5	6	5	6	11	6	7	8	5.9	16.9
17-Mar	4	5	5	4	A	5	7	8	12	6	8	9	9	8	4	7	13	15	10	8	7	14	14	9	8.2	14.9
18-Mar	7	6	10	10	A	21	19	36	74	37	23	27	25	26	34	24	39	32	45	15	10	8	6	9	23.5	73.6
19-Mar	7	6	5	5	A	15	23	25	20	14	6	6	5	5	8	8	11	12	14	10	6	7	6	8	10.0	24.9
20-Mar	11	7	7	5	A	4	4	3	4	3	3	4	5	6	5	3	2	4	4	5	5	5	7	8	4.9	10.9
21-Mar	5	6	6	12	A	7	8	8	9	39	23	20	15	16	13	11	10	5	6	4	5	5	4	3	10.3	38.9
22-Mar	3	4	4	4	A	5	5	7	7	4	5	4	4	4	7	7	7	8	7	10	8	8	6	5	5.7	9.9
23-Mar	6	5	19	7	A	8	10	10	18	15	16	15	14	9	13	17	9	18	11	15	37	16	12	9	13.3	37.1
24-Mar	8	11	9	9	A	17	13	35	31	18	21	17	16	17	15	11	11	11	13	15	16	12	13	19	15.5	35.3
25-Mar	9	3	3	3	A	3	3	3	4	4	4	3	4	4	3	4	5	6	8	9	10	8	8	9	5.1	9.9
26-Mar	7	9	8	12	A	13	26	60	28	29	28	17	25	20	21	14	21	18	14	11	4	6	7	6	17.5	59.9
27-Mar	5	3	3	2	A	2	3	3	3	2	2	2	1	2	1	1	2	2	1	3	3	2	3	2	2.3	4.9
28-Mar	4	3	5	3	A	5	4	6	6	3	3	3	4	3	2	2	4	3	5	6	10	8	10	7	4.6	9.9
29-Mar	7	5	5	4	A	5	6	6	9	7	7	9	9	5	4	3	5	6	8	6	8	6	7	7	6.2	8.9
30-Mar	7	5	8	7	A	15	13	13	9	11	9	5	1	2	2	2	2	2	2	4	5	5	4	4	5.9	14.9
31-Mar	5	5	5	6	A	10	10	10	7	7	5	4	4	4	5	6	6	5	6	11	7	10	7	5	6.4	10.9
	7.1	6.4	7.6	7.3	--	9.0	12.1	15.9	16.0	18.0	11.4	10.7	10.3	8.3	8.2	7.4	9.1	11.1	11.7	10.2	10.0	7.9	7.5	8.5	Diurnal Average	
	30.9	24.9	35.1	35.8	--	26.7	47.9	81.3	73.6	110.9	41.9	37.7	34.9	28.9	33.9	24.1	38.8	54.9	44.9	44.9	37.1	19.6	23.9	40.0	Diurnal Maximum	

A - Automated Daily Zero Span

Hourly Maximums for NO_x at Beaverlodge March 2009



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

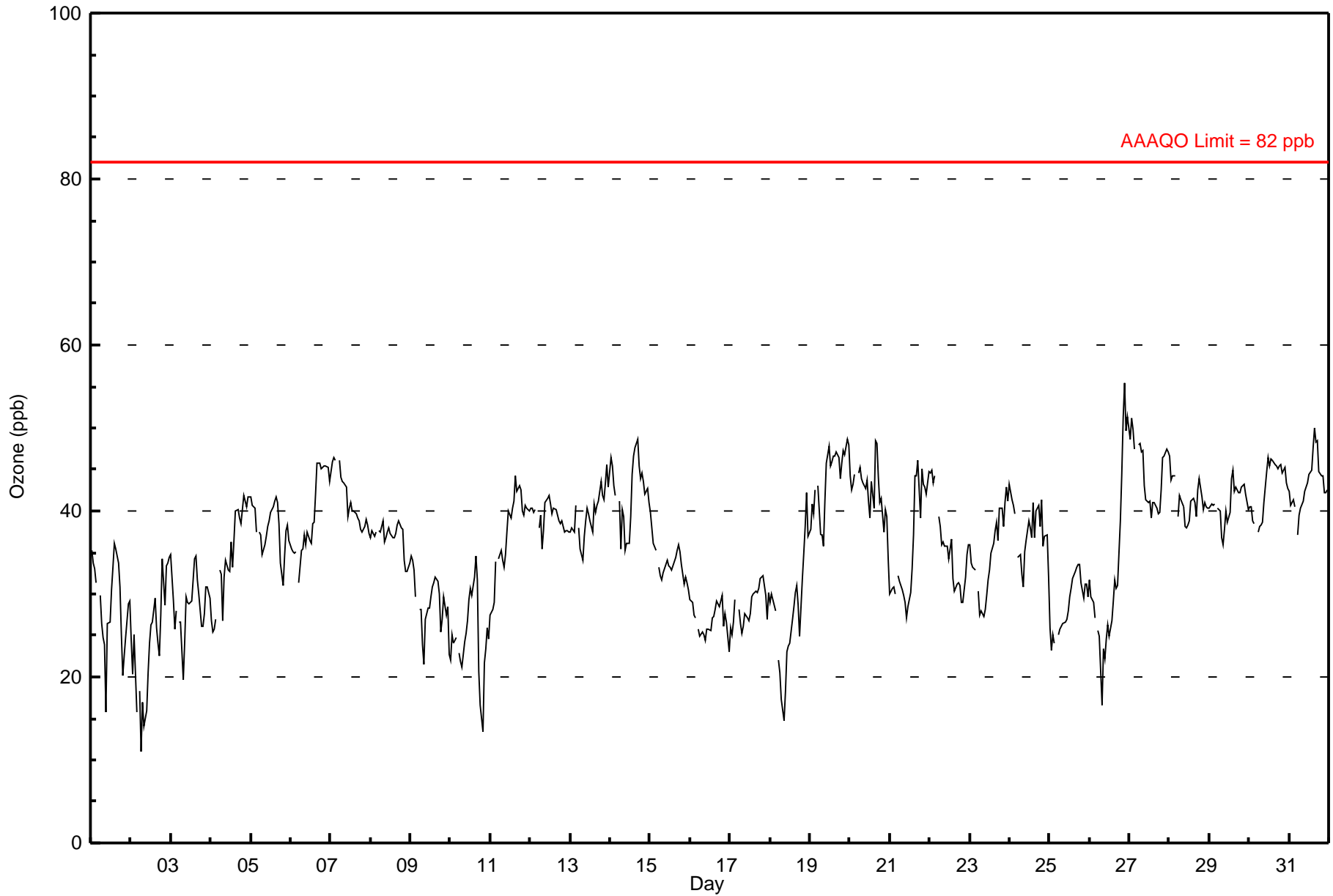
**Beaverlodge - Ozone (O₃) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 55.4 ppb on Mar 26 22:00	Maximum Daily Average: 44.6 ppb on Mar 27
Minimum Value: 11 ppb on Mar 2 07:00	Hours of Data: 713
Maximum Diurnal Average: 38.3 ppb at hour 16	Hours of Missing Data: 31
Monthly Average: 35.64 ppb	Hours of Calibration: 31
Minimum Daily Average: 24.1 ppb on Mar 2	Percent Operational Time: 100.0
Minimum Diurnal Average: 31.7 ppb at hour 8	
Percentiles: P ₁ = 16.6 P ₁₀ = 25.7 Q ₁ = 29.9 Median = 36.9 Q ₃ = 41.1 P ₉₀ = 44.8 P ₉₉ = 49.5	

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-Mar	35	34	33	31	A	30	26	25	24	16	26	27	31	33	36	35	34	31	25	20	23	25	29	29	28.6	36.1
2-Mar	24	20	25	16	A	18	11	17	14	16	21	24	26	27	29	26	24	23	27	34	29	33	34	34	24.1	34.4
3-Mar	35	29	26	28	A	27	27	20	24	30	29	29	29	32	34	35	32	30	26	26	28	31	31	30	28.9	34.7
4-Mar	27	26	26	27	A	33	32	27	32	34	33	33	36	33	36	40	40	39	38	40	42	41	42	42	34.7	41.9
5-Mar	42	41	40	37	A	38	37	35	36	37	38	39	40	41	41	42	41	38	34	31	35	38	38	36	38.0	41.7
6-Mar	35	35	35	35	A	31	35	35	37	36	38	37	36	38	39	42	46	46	45	45	45	46	45	44	39.4	45.8
7-Mar	45	46	46	46	A	46	44	44	43	43	39	40	41	40	40	40	39	39	38	38	38	39	38	37	41.3	46.4
8-Mar	37	38	37	37	A	38	37	39	36	37	37	38	37	37	37	37	38	39	38	38	34	33	33	34	36.7	38.9
9-Mar	35	34	33	30	A	28	28	24	21	27	28	28	30	31	31	32	32	30	25	27	30	28	29	23	28.8	34.6
10-Mar	22	25	24	25	A	23	22	21	24	25	27	29	31	30	32	35	32	21	17	13	22	23	26	25	24.9	34.5
11-Mar	27	28	29	34	A	34	35	34	33	35	37	40	39	40	41	44	42	43	43	40	40	41	40	40	37.4	44.2
12-Mar	40	40	40	40	A	38	39	35	38	41	42	42	41	40	40	40	39	39	39	38	38	38	37	37	39.2	41.8
13-Mar	37	38	37	41	A	38	35	34	37	39	40	40	39	37	41	40	41	41	43	42	41	43	46	43	39.7	45.7
14-Mar	46	45	43	42	A	41	35	40	39	35	36	36	39	44	47	48	49	45	44	45	44	42	43	41	42.2	48.7
15-Mar	40	38	36	35	A	33	32	32	33	34	34	33	33	33	34	34	35	36	35	33	31	32	31	30	33.9	39.8
16-Mar	29	29	27	27	A	26	25	25	25	24	26	26	26	27	27	28	29	28	29	30	26	28	27	23	26.9	29.8
17-Mar	26	25	27	29	A	28	26	25	26	28	27	27	28	30	30	30	30	31	32	32	32	30	27	30	28.5	32.2
18-Mar	29	30	29	28	A	22	21	17	15	18	23	24	24	27	28	30	31	29	25	32	35	38	42	37	27.6	42.1
19-Mar	38	41	40	43	A	43	37	37	36	41	46	48	45	46	47	47	47	46	44	46	47	47	49	48	43.8	48.6
20-Mar	44	43	43	44	A	45	45	44	43	43	44	41	39	44	40	48	48	44	41	42	37	40	39	34	42.5	48.4
21-Mar	30	31	31	30	A	32	32	31	30	29	27	28	30	33	37	44	44	46	39	45	43	43	42	45	35.8	46.1
22-Mar	45	45	43	44	A	39	38	36	36	36	34	35	37	32	30	31	31	31	29	29	32	35	36	36	35.7	44.9
23-Mar	36	34	33	33	A	30	27	28	27	28	30	32	33	35	36	38	39	36	40	40	38	41	43	41	34.7	42.9
24-Mar	43	41	41	40	A	34	35	32	31	35	36	39	38	37	41	37	40	41	38	41	36	37	37	32	37.5	43.2
25-Mar	26	23	25	24	A	25	26	26	26	27	27	28	30	31	32	33	33	33	34	31	29	31	31	30	28.8	33.6
26-Mar	32	30	29	27	A	26	25	17	23	22	25	26	25	27	29	32	31	31	39	44	51	55	50	51	32.4	55.4
27-Mar	49	51	50	47	A	48	48	47	47	43	41	41	41	39	41	41	40	40	40	43	46	47	47	47	44.6	51.1
28-Mar	47	44	44	44	A	39	42	41	40	38	38	38	39	41	41	41	39	43	44	42	40	41	40	40	41.2	46.6
29-Mar	40	41	41	41	A	40	40	37	36	38	40	39	40	44	45	42	43	42	42	43	43	43	42	40	40.9	44.9
30-Mar	40	41	39	38	A	37	38	38	39	41	45	47	45	46	46	46	45	45	45	46	45	45	43	43	42.8	46.5
31-Mar	42	41	41	40	A	37	39	40	41	42	43	43	44	45	48	50	48	48	45	44	44	42	42	43	43.3	50.0
	36.2	35.6	35.3	35.0	--	33.8	33.0	31.7	32.1	32.8	34.2	34.7	35.2	36.2	37.4	38.3	38.2	37.2	36.3	36.8	36.8	37.8	38.0	36.9	Diurnal Average	
	48.6	51.1	49.8	47.4	--	48.0	48.1	47.2	47.2	43.0	45.7	47.8	45.4	46.3	47.6	50.0	48.7	48.5	45.5	45.8	51.2	55.4	49.6	51.4	Diurnal Maximum	

A - Automated Daily Zero Span
 Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 82 ppb 24-hr na

Hourly Averages for O₃ at Beaverlodge March 2009



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

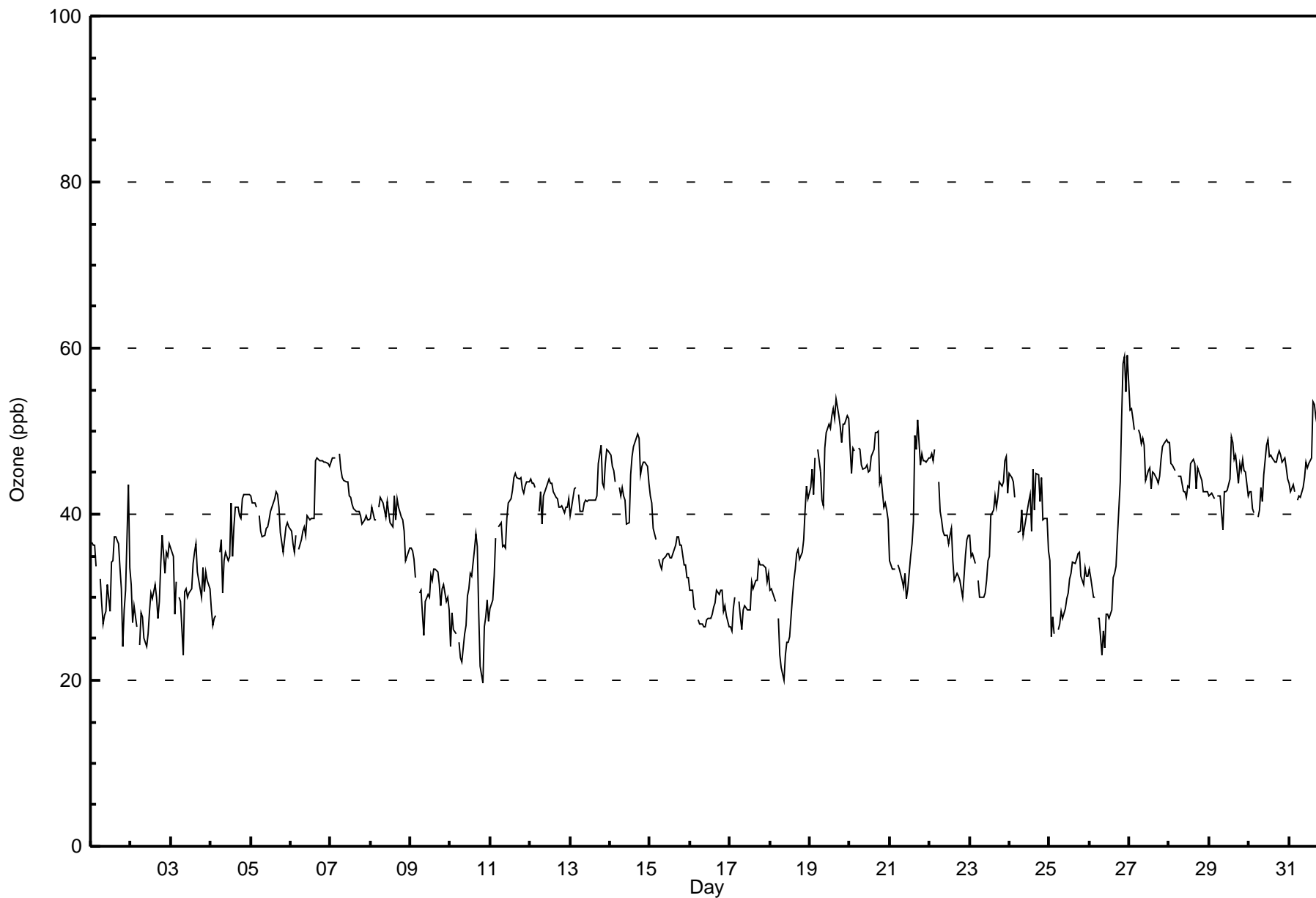
**Beaverlodge - Ozone (O₃) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 59.1 ppb on Mar 27 00:00	Maximum Daily Average: 48.6 ppb on Mar 19	Hours in Service: 744
Minimum Value: 20 ppb on Mar 10 20:00	Minimum Daily Average: 27.9 ppb on Mar 10	Hours of Data: 713
Maximum Diurnal Average: 40.8 ppb at hour 23	Minimum Diurnal Average: 35.0 ppb at hour 8	Hours of Missing Data: 31
Monthly Average: 38.46 ppb	Percentiles: P ₁ = 23.0 P ₁₀ = 28.2 Q ₁ = 32.4 Median = 39.4 Q ₃ = 44.1 P ₉₀ = 47.3 P ₉₉ = 53.0	Hours of Calibration: 31
		Percent Operational Time: 100.0

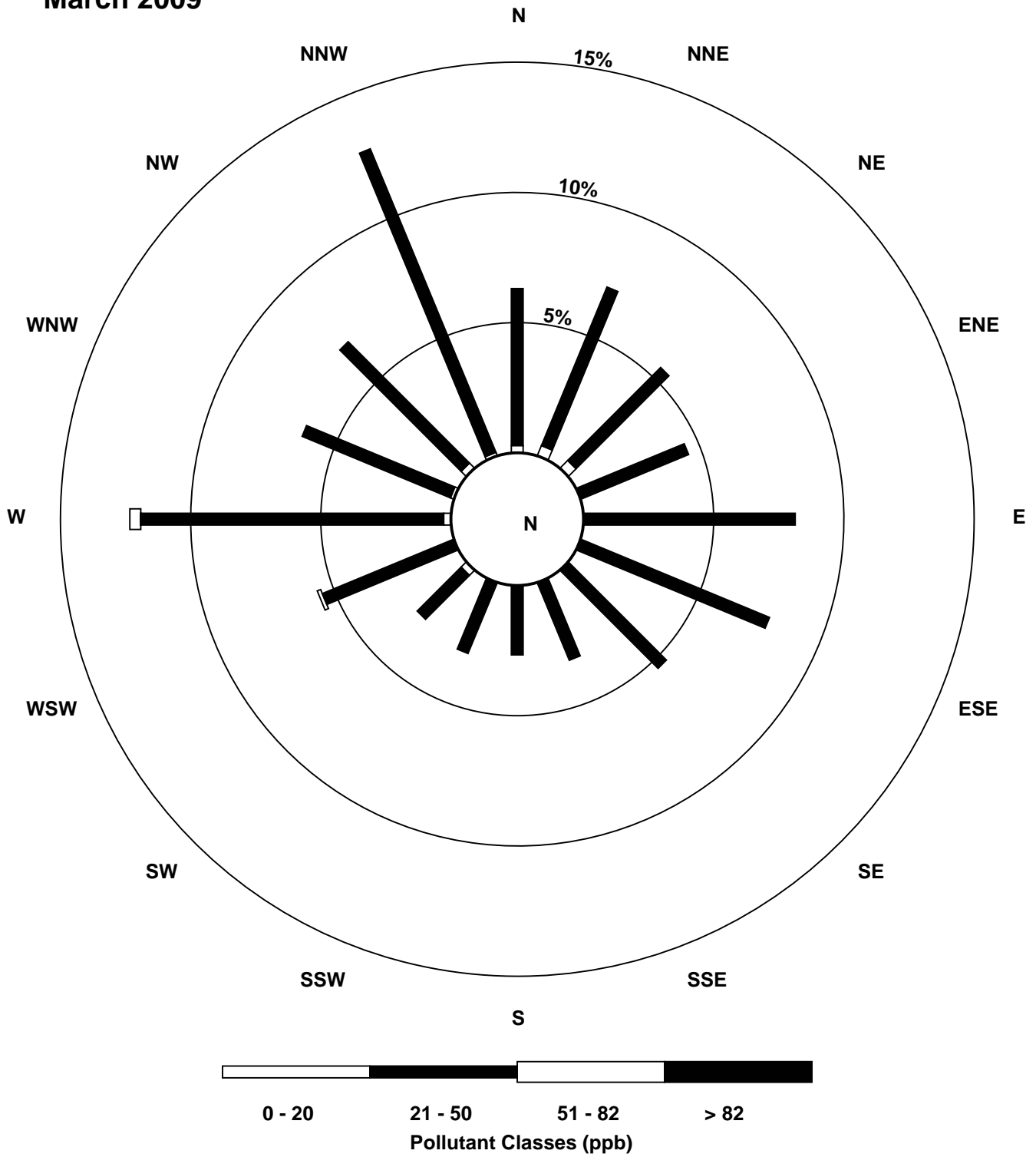
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																									
1-Mar	37	36	36	34	A	32	29	27	28	28	32	28	34	34	37	37	36	33	31	24	28	31	44	33	32.7	43.6																							
2-Mar	32	27	29	26	A	24	28	28	25	24	26	28	30	30	32	30	27	30	34	37	33	35	35	36	29.9	37.5																							
3-Mar	36	35	28	32	A	30	30	23	31	31	30	31	31	34	35	36	33	32	30	33	31	33	32	31	31.6	36.5																							
4-Mar	29	27	27	28	A	35	37	30	34	35	34	35	41	35	38	41	41	40	39	42	42	42	42	42	36.5	42.4																							
5-Mar	42	41	41	41	A	40	38	37	37	38	38	39	40	41	42	43	42	41	38	35	37	38	39	38	39.6	42.7																							
6-Mar	38	36	35	37	A	36	37	38	38	37	40	39	39	39	39	46	47	47	46	46	46	46	46	46	41.2	46.9																							
7-Mar	46	47	47	47	A	47	45	44	44	44	44	44	42	42	41	41	40	40	40	39	39	40	39	39	42.6	47.3																							
8-Mar	39	41	39	39	A	41	42	41	41	40	41	40	39	39	42	39	42	41	40	39	38	34	35	36	39.5	42.2																							
9-Mar	36	36	35	32	A	30	31	28	25	29	30	30	33	32	33	33	33	32	29	31	32	30	30	28	31.3	35.9																							
10-Mar	24	28	26	26	A	25	23	22	26	27	30	31	33	33	36	38	36	28	22	20	26	28	30	27	27.9	37.6																							
11-Mar	29	30	33	37	A	38	39	36	36	36	39	41	42	43	44	45	44	44	44	43	43	43	44	44	39.9	44.9																							
12-Mar	44	44	44	43	A	40	43	39	42	43	44	44	44	44	43	42	42	41	41	41	40	41	41	42	42.2	44.3																							
13-Mar	40	41	43	43	A	42	40	40	41	42	42	42	42	42	42	42	42	46	48	44	43	46	48	48	43.0	48.3																							
14-Mar	47	46	45	44	A	43	42	43	42	42	39	39	45	47	48	49	50	49	45	46	46	46	46	44	44.9	49.7																							
15-Mar	42	41	38	37	A	35	34	33	35	35	35	35	35	35	36	36	37	37	36	36	34	34	32	32	35.7	42.3																							
16-Mar	31	31	29	29	A	27	27	27	26	26	27	27	27	28	29	29	31	30	31	31	28	29	28	26	28.5	30.9																							
17-Mar	26	26	29	30	A	29	28	26	28	29	28	28	28	32	31	32	32	34	34	34	34	34	32	33	30.4	34.4																							
18-Mar	31	31	30	29	A	27	23	22	20	23	25	25	25	30	32	33	35	36	35	35	37	40	43	42	30.9	43.4																							
19-Mar	43	45	42	47	A	48	45	42	41	48	50	51	50	52	53	52	54	52	51	49	51	51	52	51	48.6	53.9																							
20-Mar	48	45	48	48	A	48	48	46	45	46	46	45	45	47	48	50	50	50	44	44	41	41	40	39	45.8	50.0																							
21-Mar	34	33	33	33	A	34	33	32	31	33	30	31	35	36	39	50	48	51	46	47	46	46	46	47	39.0	51.3																							
22-Mar	47	47	46	48	A	44	40	39	38	37	37	36	37	38	34	32	33	32	32	31	30	35	37	37	37.9	47.8																							
23-Mar	37	35	35	34	A	32	30	30	30	30	32	34	35	40	40	42	41	42	44	43	44	46	47	43	37.7	46.9																							
24-Mar	45	44	44	42	A	38	38	40	38	38	39	41	42	38	45	41	45	45	41	44	39	39	40	36	41.1	45.5																							
25-Mar	34	25	28	26	A	26	27	28	28	29	30	30	32	33	34	34	35	35	35	33	31	33	32	32	30.9	35.5																							
26-Mar	33	32	30	30	A	27	27	23	26	24	28	28	27	28	32	33	34	37	44	52	58	59	55	59	36.0	59.1																							
27-Mar	53	53	52	50	A	50	50	49	49	48	44	45	46	43	45	45	44	44	45	47	48	49	49	49	47.6	52.7																							
28-Mar	49	46	46	45	A	45	45	45	43	43	42	43	43	46	47	46	43	46	45	44	43	43	43	43	44.4	48.6																							
29-Mar	42	43	42	42	A	42	42	40	38	43	43	43	44	49	49	47	47	44	46	45	47	45	45	42	43.9	49.3																							
30-Mar	43	43	41	40	A	40	40	43	42	45	48	49	47	47	47	46	46	47	48	47	46	47	46	44	44.8	49.0																							
31-Mar	44	43	44	43	A	42	42	42	43	44	46	46	46	47	54	53	52	51	49	49	48	48	47	44	46.4	53.5																							
																								38.7	38.0	37.6	37.5	--	36.8	36.2	35.0	35.2	36.1	36.8	37.1	38.1	38.8	40.3	40.7	40.7	40.6	39.8	39.8	39.7	40.5	40.8	39.9	Diurnal Average	
																								52.5	52.7	51.5	50.2	--	50.2	49.6	48.5	49.1	48.2	49.9	50.9	50.4	51.9	53.5	53.2	53.9	51.9	50.6	51.6	58.1	59.0	54.7	59.1	Diurnal Maximum	

A - Automated Daily Zero Span

Hourly Maximums for O₃ at Beaverlodge March 2009



Pollutant Rose for O₃ at Beaverlodge March 2009



**Peace Airshed Zone Association
Summary of Eight Hour Running Averages**

**Beaverlodge - Ozone (O₃) - ppb
March 1, 2009 to April 1, 2009**

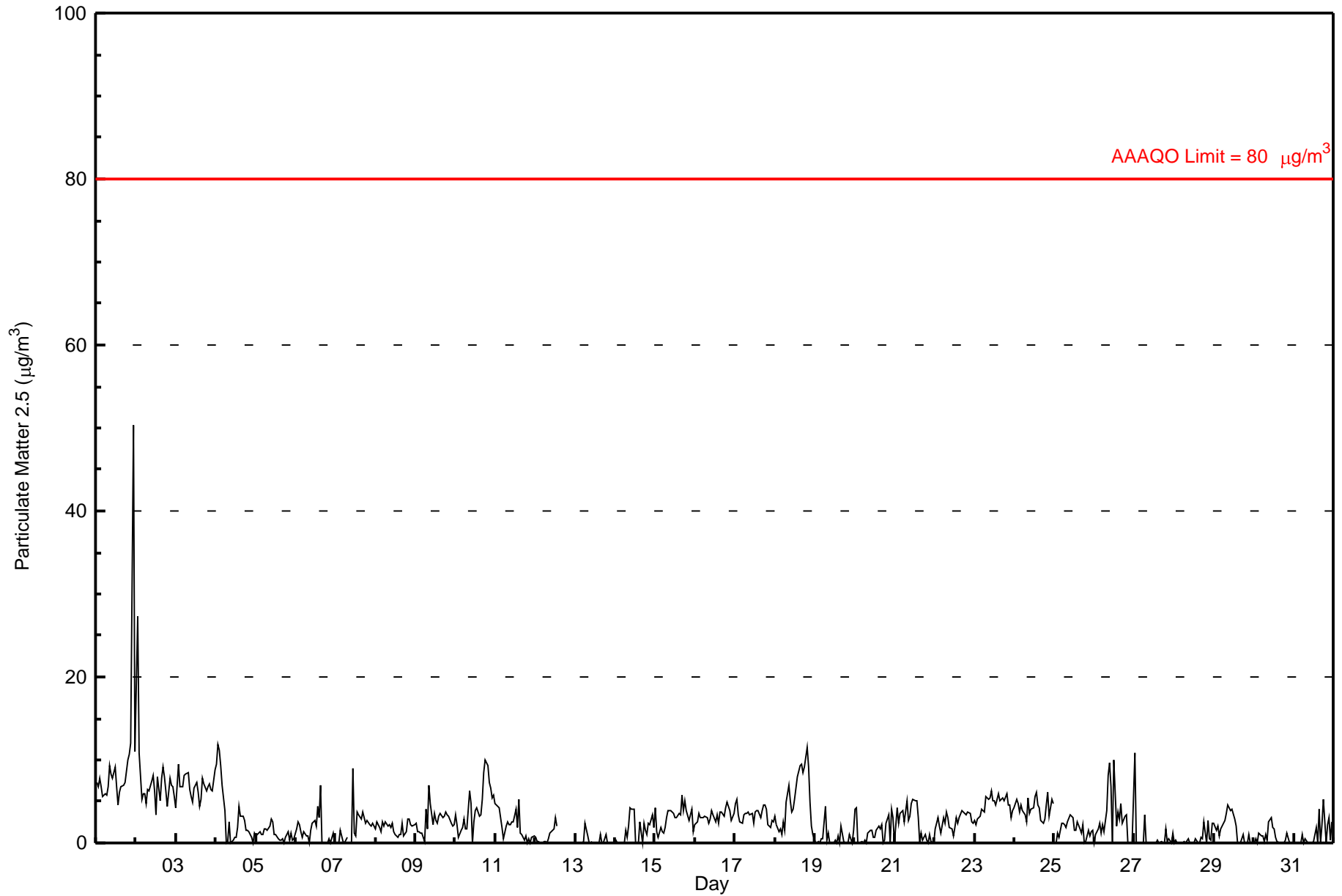
Number of Exceedences (AAAQO): 8-hr: 0 Maximum Value: 50.6 ppb on Mar 27 04:00																						Hours in Service: 744			
Minimum Value: 16.1 ppb on Mar 2 11:00																						Hours of Data: 744			
Percentiles: P ₁ = 20.0 P ₁₀ = 26.2 Q ₁ = 29.8 Median = 37.2 Q ₃ = 40.9 P ₉₀ = 44.0 P ₉₉ = 48.4																						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-Mar	33	33	33	33	33	33	32	31	29	26	25	25	26	26	27	29	30	32	31	31	30	29	28	27	33.3
2-Mar	26	24	24	24	24	23	21	19	17	17	16	17	18	19	22	23	24	25	26	27	27	28	29	30	29.8
3-Mar	31	32	32	31	31	30	29	27	26	26	26	27	27	28	30	31	31	31	30	30	30	30	29	29	32.0
4-Mar	28	28	28	28	28	28	29	28	29	30	31	32	33	33	33	35	36	36	37	38	39	40	40	40	40.5
5-Mar	41	41	41	41	41	40	39	38	38	37	37	37	37	38	38	39	40	40	39	38	38	37	37	36	41.1
6-Mar	36	35	35	36	36	35	35	35	35	35	35	36	36	37	37	38	39	40	41	42	43	44	45	45	45.2
7-Mar	45	45	45	45	45	45	45	45	45	45	44	43	43	42	41	41	40	40	40	39	39	39	39	38	45.5
8-Mar	38	38	38	38	38	37	37	37	37	37	37	37	37	37	37	37	37	38	38	38	37	37	36	36	37.9
9-Mar	35	35	34	33	33	32	32	30	28	27	27	26	27	27	28	29	30	30	30	30	30	29	29	28	35.3
10-Mar	27	26	26	26	25	24	23	23	23	23	24	25	25	26	27	29	30	29	28	26	25	24	24	22	30.0
11-Mar	22	23	24	27	27	29	30	32	33	33	35	36	36	37	38	39	40	41	42	42	42	42	41	41	41.7
12-Mar	41	40	40	40	40	40	40	39	39	39	39	39	40	40	40	41	40	40	40	39	39	39	38	38	40.8
13-Mar	38	38	38	38	38	38	38	37	37	37	38	38	38	38	38	39	40	40	40	41	41	42	42	43	42.6
14-Mar	43	44	44	44	44	44	42	42	41	39	38	38	38	38	40	41	42	43	44	45	46	45	44	44	45.6
15-Mar	43	42	41	40	39	38	37	35	34	34	33	33	33	33	34	34	34	34	34	34	34	34	33	33	42.9
16-Mar	32	31	31	30	30	29	28	27	26	26	26	25	25	26	26	27	27	28	28	28	28	28	28	28	32.4
17-Mar	27	27	26	26	26	26	26	27	27	27	27	27	27	27	28	28	29	29	30	30	31	31	31	31	30.9
18-Mar	30	30	30	29	29	28	27	25	23	21	21	20	20	21	22	24	26	27	27	28	30	31	33	34	33.6
19-Mar	34	36	38	39	40	40	40	40	39	39	40	41	42	42	43	44	46	46	46	46	46	46	47	47	46.7
20-Mar	46	46	46	46	45	45	45	44	44	44	44	44	43	43	42	43	43	44	43	43	43	43	43	41	46.3
21-Mar	38	37	36	34	34	32	31	31	31	31	30	30	30	30	31	32	34	36	38	40	42	43	43	43	43.4
22-Mar	43	43	44	44	44	43	43	41	40	39	38	37	36	36	35	35	34	33	33	32	31	31	31	32	43.9
23-Mar	32	33	33	33	34	34	33	32	30	30	29	29	29	30	31	32	34	35	36	37	38	39	39	40	39.9
24-Mar	40	41	41	41	41	41	39	38	36	35	35	35	35	35	36	37	38	39	39	39	39	39	38	38	41.5
25-Mar	36	34	32	30	29	28	26	25	25	26	26	26	27	28	28	29	30	31	32	32	32	32	32	32	36.0
26-Mar	31	31	30	30	30	29	28	26	25	24	24	23	24	24	24	26	27	28	30	32	35	39	42	44	44.0
27-Mar	46	49	50	51	50	49	49	49	48	47	46	45	45	44	43	42	41	41	40	41	41	42	43	44	50.6
28-Mar	45	45	46	46	46	45	44	43	42	41	40	40	40	40	40	40	40	40	41	41	41	41	41	41	45.8
29-Mar	41	41	41	41	41	41	40	40	39	39	39	38	39	39	40	40	41	42	42	43	43	43	43	42	43.0
30-Mar	42	42	41	41	41	40	39	39	39	39	40	41	41	42	43	44	45	46	46	46	45	45	45	45	45.7
31-Mar	44	44	43	43	42	41	41	40	40	40	41	41	41	42	43	45	45	46	46	47	47	46	46	45	46.6
46.3 48.8 50.2 50.6 50.5 49.4 49.2 48.6 48.4 47.2 46.0 45.1 44.6 43.5 43.4 44.6 45.8 46.4 46.5 46.6 46.6 46.3 46.5 46.7																									
Diurnal Maximums																									
Alberta Ambient Air Quality Objectives (AAAQO): 8-hr 65 ppb																									

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

**Beaverlodge - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0		Hours in Service: 744																																														
Maximum Value: 50.3 µg/m ³ on Mar 1 23:00		Maximum Daily Average: 9.5 µg/m ³ on Mar 1																																														
Minimum Value: 0 µg/m ³ on Mar 4 07:00		Hours of Data: 736																																														
Maximum Diurnal Average: 3.8 µg/m ³ at hour 23		Hours of Missing Data: 8																																														
Monthly Average: 2.78 µg/m ³		Hours of Calibration: 0																																														
Minimum Daily Average: 0.3 µg/m ³ on Mar 13		Percent Operational Time: 98.9																																														
Minimum Diurnal Average: 2.0 µg/m ³ at hour 5																																																
Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.5 Median = 2.2 Q ₃ = 4.0 P ₉₀ = 6.4 P ₉₉ = 11.0																																																
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-Mar	7	7	8	7	6	6	6	7	9	8	8	9	7	5	6	7	7	7	9	10	11	12	50	11	9.5	50.3																						
2-Mar	19	27	11	5	6	6	5	6	6	7	8	6	3	8	5	8	9	8	6	4	8	7	6	6	8.0	27.3																						
3-Mar	4	10	7	7	7	8	8	9	6	6	5	7	7	6	4	5	8	7	6	7	7	6	6	9	6.8	9.5																						
4-Mar	10	12	11	9	7	4	0	0	2	0	0	1	1	2	4	3	3	3	2	2	1	1	0	1	3.3	11.9																						
5-Mar	1	1	1	1	1	2	2	2	2	3	3	1	1	0	0	0	0	0	1	1	0	1	0	0	1.1	2.8																						
6-Mar	2	2	2	1	1	1	1	1	0	1	2	3	2	4	3	7	0	0	0	0	0	0	1	0	1.5	7.0																						
7-Mar	0	0	0	1	0	0	0	1	BD	0	9	1	1	4	3	3	4	3	2	3	2	2	2	2	1.9	9.0																						
8-Mar	2	2	2	1	3	2	2	2	2	2	2	1	1	1	1	1	2	1	1	3	3	2	2	2	1.9	3.0																						
9-Mar	2	1	1	1	1	0	4	2	7	5	2	4	3	2	3	4	3	3	4	3	3	2	2	2	2.8	6.9																						
10-Mar	3	2	1	1	2	3	2	2	6	5	0	3	4	4	3	3	5	9	10	9	7	7	5	6	4.3	10.1																						
11-Mar	5	4	4	3	2	1	2	2	2	2	2	3	4	2	5	1	1	0	1	0	0	0	1	1	2.1	5.2																						
12-Mar	1	0	0	0	0	0	0	1	1	2	2	3	2	2	BD	0	0	0	0	0	0	0	BD	0	0.5	3.0																						
13-Mar	0	0	0	0	0	0	2	1	0	0	0	0	BD	BD	0	0	1	0	0	1	0	0	0	0	0.3	2.3																						
14-Mar	0	0	0	0	0	0	2	1	2	4	4	4	0	0	0	3	0	2	2	1	2	2	3	2	1.4	4.2																						
15-Mar	4	1	1	2	1	1	2	3	4	4	4	4	3	3	4	3	6	4	5	4	3	3	4	1	3.1	5.7																						
16-Mar	2	3	4	3	3	3	3	3	2	3	4	3	3	3	2	4	4	3	4	5	4	4	3	4	3.3	5.0																						
17-Mar	5	5	3	3	2	3	4	4	4	3	4	2	4	4	4	3	4	5	5	4	2	2	3	3	3.5	5.3																						
18-Mar	3	2	1	2	1	3	2	5	7	5	4	4	5	8	9	9	9	8	9	12	9	5	2	1	5.2	11.6																						
19-Mar	0	0	0	0	1	0	4	0	1	0	0	0	0	0	1	0	2	0	0	0	0	1	0	2	0.5	4.4																						
20-Mar	4	4	0	0	0	0	0	0	1	2	1	1	1	2	2	2	2	0	0	2	3	0	4	3	1.5	4.3																						
21-Mar	0	4	2	4	4	4	2	5	3	3	5	5	5	5	3	0	1	0	1	0	0	1	0	0	2.4	5.2																						
22-Mar	2	2	3	2	1	3	2	4	3	2	2	1	2	3	2	3	4	4	4	3	4	4	3	2	2.7	3.9																						
23-Mar	3	2	3	3	4	4	4	6	5	5	6	5	5	5	6	5	5	5	5	6	5	5	3	4	4.5	6.2																						
24-Mar	4	5	5	4	5	4	3	3	5	4	4	4	6	6	5	4	3	2	3	5	6	3	5	5	4.3	6.2																						
25-Mar	BD	0	1	1	2	2	2	2	3	3	3	3	2	2	2	2	1	2	0	0	2	1	1	1	1.7	3.5																						
26-Mar	0	1	2	2	1	2	1	4	8	10	7	0	10	2	4	3	5	2	3	3	0	0	BD	0	3.1	10.0																						
27-Mar	11	0	0	BD	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0.8	10.9																						
28-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	3	0	3	1	0	2	0.5	2.7																						
29-Mar	2	2	2	1	2	2	3	4	5	4	4	4	3	2	0	0	0	1	0	0	0	1	0	0	1.7	4.7																						
30-Mar	0	1	0	1	1	1	0	1	0	3	3	2	2	1	0	0	0	0	0	0	1	0	0	0	0.7	3.1																						
31-Mar	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	4	0	2	5	0	2	3	0	3	1.0	5.2																						
																								3.2	3.3	2.4	2.2	2.0	2.2	2.3	2.5	3.3	3.1	3.2	2.7	2.9	2.8	2.8	2.9	2.9	2.7	2.9	2.9	2.9	2.4	3.8	2.4	Diurnal Average
																								19.0	27.3	11.3	9.3	6.9	8.2	8.3	8.5	9.2	9.6	9.0	9.1	10.0	8.0	8.6	9.3	9.4	8.5	10.1	11.6	10.7	12.1	50.3	11.0	Diurnal Maximum
BD - Baseline Drift																																																
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 80 µg/m ³ 24-hr 30 µg/m ³																																																

Hourly Averages for PM_{2.5} at Beaverlodge March 2009

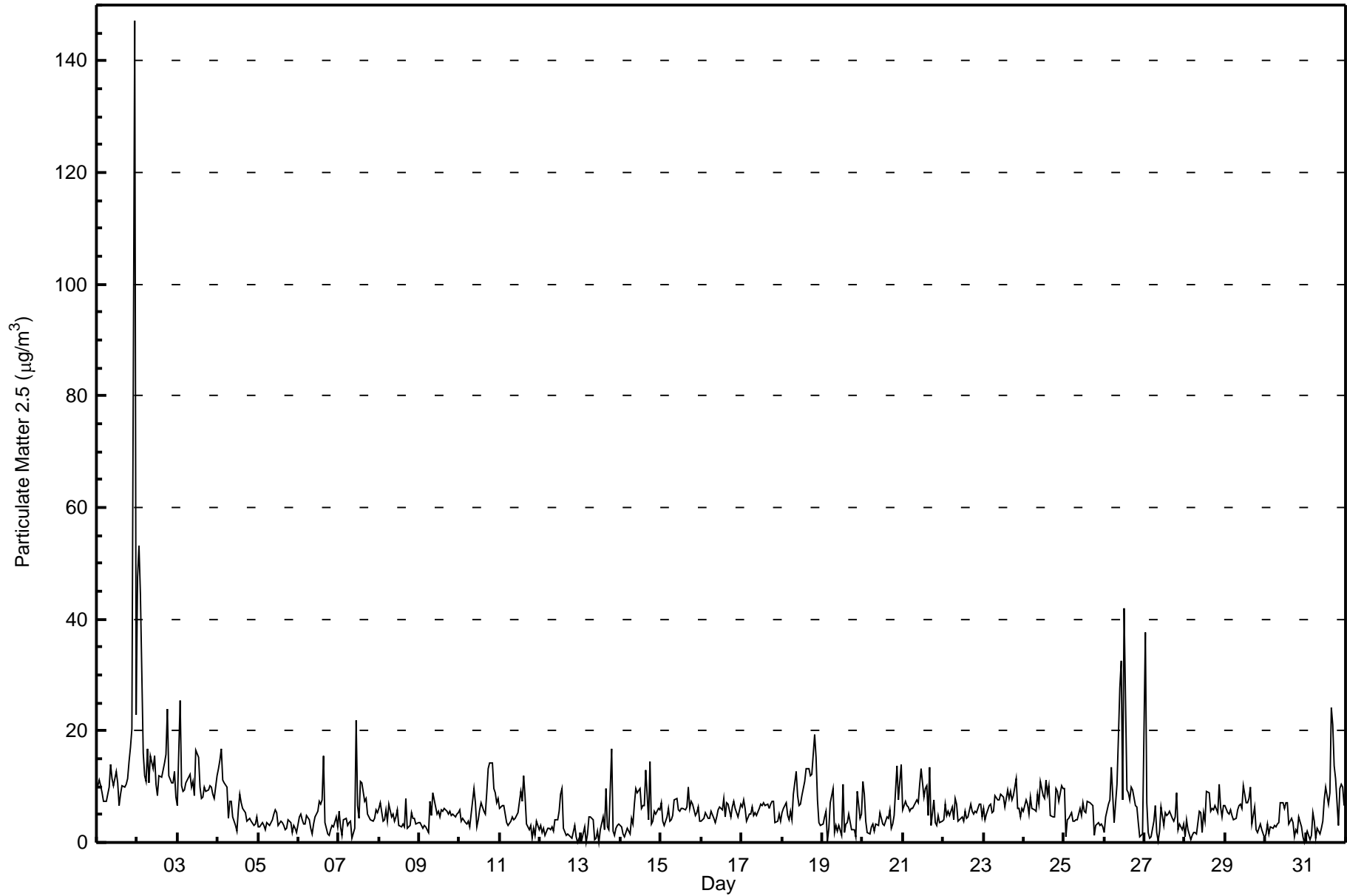


**Peace Airshed Zone Association
Summary of Hourly Maximums**

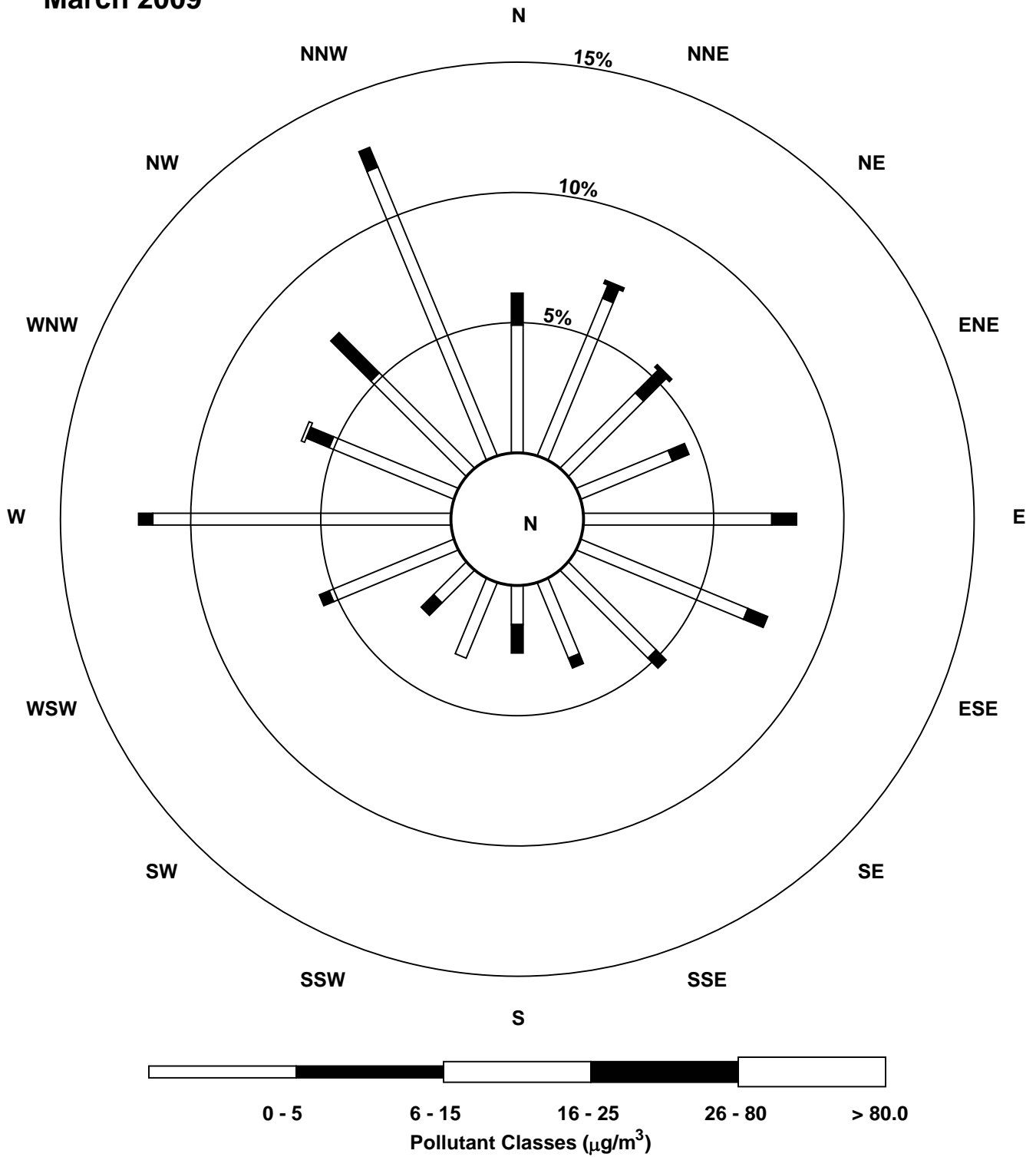
**Beaverlodge - Particulate Matter 2.5 (PM_{2.5}) - µg/m³
March 1, 2009 to April 1, 2009**

Maximum Value: 147.3 µg/m ³ on Mar 1 23:00		Maximum Daily Average: 17.5 µg/m ³ on Mar 2		Hours in Service: 744																							
Minimum Value: 0 µg/m ³ on Mar 12 23:00		Minimum Daily Average: 2.7 µg/m ³ on Mar 12		Hours of Data: 744																							
Maximum Diurnal Average: 9.6 µg/m ³ at hour 23		Minimum Diurnal Average: 4.6 µg/m ³ at hour 4		Hours of Missing Data: 0																							
Monthly Average: 6.50 µg/m ³		Percentiles: P ₁ = 0.5 P ₁₀ = 2.0 Q ₁ = 3.4 Median = 5.3 Q ₃ = 7.6 P ₉₀ = 11.0 P ₉₉ = 27.9		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-Mar	10	11	10	9	7	7	9	10	14	11	10	13	11	7	9	10	10	10	11	14	17	20	147	23	17.2	147.3	
2-Mar	48	53	45	16	12	11	17	11	15	13	16	10	8	12	12	13	14	16	24	12	11	11	13	8	17.5	53.2	
3-Mar	7	25	10	9	9	11	11	12	10	11	8	17	15	10	8	8	10	9	9	10	10	9	8	12	10.8	25.4	
4-Mar	13	15	17	11	11	10	4	7	7	5	3	2	6	9	7	6	5	4	4	4	4	3	3	5	6.9	16.8	
5-Mar	3	3	3	3	2	4	3	3	4	5	6	5	3	4	3	3	2	3	4	4	2	3	3	2	3.3	5.9	
6-Mar	5	5	4	3	3	5	4	2	1	3	5	6	7	7	8	15	4	2	1	2	3	3	5	3	4.4	15.5	
7-Mar	6	3	1	4	4	3	4	4	1	3	22	7	4	11	11	7	8	5	5	4	4	4	6	5	5.6	22.0	
8-Mar	6	7	4	4	6	4	7	5	5	4	5	6	3	3	3	3	8	3	3	5	4	4	3	4	4.5	7.9	
9-Mar	4	3	2	3	3	2	7	5	9	8	5	6	5	6	6	6	6	5	6	5	5	5	5	5	5.0	9.0	
10-Mar	6	4	4	3	3	4	3	5	10	7	3	4	6	7	6	5	9	13	14	14	10	9	7	8	6.8	14.2	
11-Mar	6	7	7	5	4	3	4	5	4	4	5	5	9	7	12	8	3	2	3	1	2	1	4	2	4.8	12.0	
12-Mar	3	2	2	1	3	3	2	3	2	4	4	5	9	10	2	1	2	1	1	1	3	1	0	1	2.7	9.6	
13-Mar	1	1	3	0	1	4	5	4	0	1	2	0	2	5	2	10	3	2	17	2	1	2	3	3	3.1	16.7	
14-Mar	3	2	1	2	3	1	4	3	7	10	9	10	6	7	7	13	4	15	3	4	6	5	6	6	5.6	14.5	
15-Mar	7	4	3	5	6	4	4	5	8	8	6	6	6	6	6	6	10	6	7	7	5	5	6	4	5.8	9.8	
16-Mar	4	4	5	5	4	4	6	4	4	4	6	6	6	8	5	7	7	5	6	7	6	5	5	7	5.5	7.8	
17-Mar	6	8	6	4	5	5	6	5	5	5	6	7	7	7	7	7	6	7	7	7	4	4	5	4	5.8	7.5	
18-Mar	5	6	7	5	4	6	4	9	13	8	7	7	8	11	13	13	13	12	12	19	15	8	4	3	8.9	19.4	
19-Mar	3	5	6	0	3	7	10	2	3	2	3	1	10	2	3	4	5	2	2	2	1	9	4	5	3.9	10.3	
20-Mar	11	9	4	2	2	3	3	2	3	3	5	4	3	3	4	4	6	2	3	5	14	8	11	14	5.4	14.0	
21-Mar	6	7	7	6	6	6	6	7	8	7	10	13	8	10	10	5	14	3	8	3	3	5	4	4	6.9	13.6	
22-Mar	4	7	5	6	5	6	4	8	7	4	4	5	4	6	4	5	7	6	5	6	5	7	7	5	5.4	7.9	
23-Mar	6	4	5	7	7	5	6	8	8	8	8	9	9	8	6	10	8	9	8	8	12	6	6	5	6	7.1	11.5
24-Mar	6	8	7	5	8	6	6	6	9	7	11	8	8	11	9	10	5	5	5	10	9	7	10	10	7.7	11.3	
25-Mar	10	1	4	4	5	4	4	4	4	6	5	7	6	5	7	7	7	7	1	3	4	3	3	3	4.7	9.6	
26-Mar	2	5	7	8	14	8	4	10	19	28	33	8	42	9	9	8	10	9	7	6	4	1	1	1	10.4	41.9	
27-Mar	38	7	2	1	1	4	7	2	0	2	6	3	5	5	5	6	4	4	4	9	2	3	2	3	5.2	37.5	
28-Mar	1	4	2	0	1	2	2	2	5	5	2	5	4	9	9	6	6	6	7	5	11	6	5	7	4.7	10.6	
29-Mar	7	5	5	6	5	4	4	6	7	7	6	10	7	7	8	10	3	6	2	2	2	3	2	1	5.3	10.0	
30-Mar	2	3	1	3	3	3	3	3	4	7	7	6	7	7	3	4	4	1	2	2	5	3	1	0	3.5	7.2	
31-Mar	1	2	0	1	5	4	1	3	2	3	4	8	10	7	9	24	21	14	11	3	10	10	10	7	7.0	24.2	
		7.6	7.3	6.1	4.6	5.0	4.9	5.2	5.3	6.3	6.5	7.5	6.7	7.9	7.1	7.0	7.8	7.2	6.2	6.6	6.2	6.0	5.6	9.6	5.4	Diurnal Average	
		47.5	53.2	44.6	16.1	13.5	10.8	16.7	12.3	18.7	27.8	32.5	16.5	41.9	11.8	13.1	24.2	21.1	15.8	24.0	19.4	17.0	20.2	147.3	22.8	Diurnal Maximum	

Hourly Maximums for PM_{2.5} at Beaverlodge March 2009



Pollutant Rose for PM_{2.5} at Beaverlodge March 2009



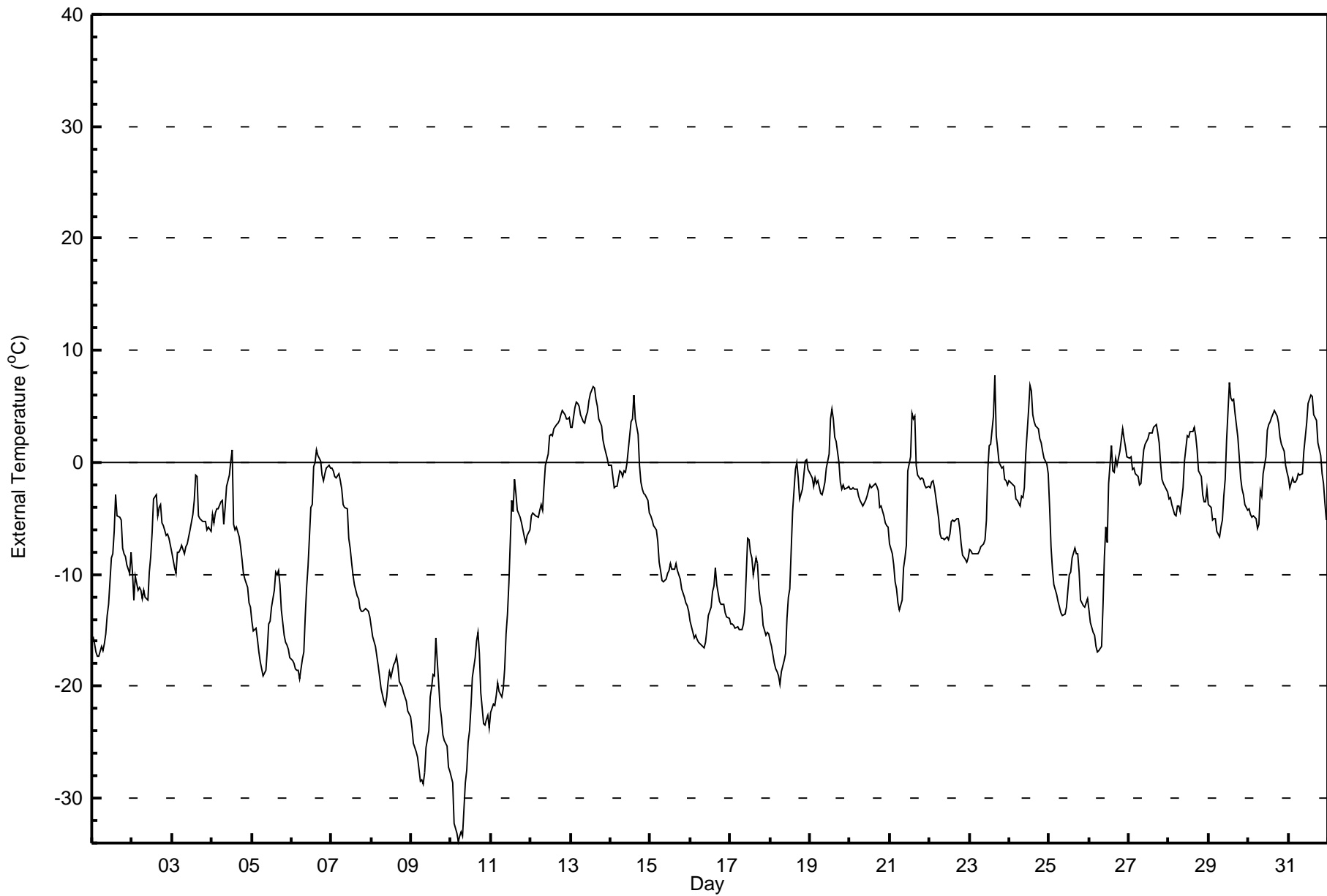
**Peace Airshed Zone Association
Summary of Hourly Averages**

**Beaverlodge - External Temperature (ET) - °C
March 1, 2009 to April 1, 2009**

Maximum Value: 7.8 °C on Mar 23 16:00		Maximum Daily Average: 3.9 °C on Mar 13		Hours in Service: 744																							
Minimum Value: -34 °C on Mar 10 05:00		Minimum Daily Average: -25.2 °C on Mar 10		Hours of Data: 744																							
Maximum Diurnal Average: -2.6 °C at hour 16		Minimum Diurnal Average: -10.6 °C at hour 8		Hours of Missing Data: 0																							
Monthly Average: -7.08 °C		Percentiles: P ₁ = -28.6 P ₁₀ = -18.5 Q ₁ = -12.9 Median = -5.2 Q ₃ = -1.1 P ₉₀ = 2.6 P ₉₉ = 5.9		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-Mar	-16	-16	-17	-17	-17	-16	-17	-16	-15	-14	-13	-9	-8	-6	-3	-5	-5	-5	-8	-8	-8	-9	-10	-8	-11.1	-2.9	
2-Mar	-10	-12	-10	-11	-11	-11	-12	-11	-12	-12	-10	-8	-6	-3	-3	-5	-4	-4	-5	-6	-7	-6	-7	-7	-8.1	-3.0	
3-Mar	-8	-9	-10	-8	-8	-8	-7	-8	-8	-7	-7	-6	-5	-3	-1	-1	-5	-5	-5	-5	-5	-6	-6	-6	-6.2	-1.1	
4-Mar	-5	-5	-4	-4	-4	-3	-3	-6	-4	-2	-1	0	1	-6	-6	-6	-7	-8	-9	-10	-10	-11	-13	-13	-5.8	1.1	
5-Mar	-14	-15	-15	-16	-17	-18	-18	-19	-19	-17	-14	-14	-13	-11	-10	-10	-10	-11	-13	-15	-16	-16	-17	-17	-14.8	-9.7	
6-Mar	-18	-18	-18	-19	-19	-19	-18	-17	-14	-11	-9	-4	-4	0	0	1	1	0	-1	-2	-1	0	0	0	-8.0	1.1	
7-Mar	-1	-1	-1	-1	-1	-2	-2	-4	-4	-4	-7	-8	-9	-10	-11	-12	-12	-13	-13	-13	-13	-13	-13	-14	-7.6	-0.5	
8-Mar	-15	-16	-16	-17	-18	-19	-20	-21	-22	-21	-20	-19	-19	-18	-18	-17	-18	-20	-20	-21	-21	-21	-22	-23	-19.3	-14.7	
9-Mar	-24	-25	-25	-26	-26	-28	-28	-29	-28	-26	-24	-21	-20	-19	-19	-16	-20	-22	-23	-24	-25	-25	-27	-28	-24.1	-15.7	
10-Mar	-28	-29	-32	-33	-34	-33	-33	-33	-29	-27	-25	-24	-22	-19	-17	-16	-15	-17	-21	-23	-23	-23	-23	-24	-25.2	-15.2	
11-Mar	-22	-22	-22	-21	-20	-20	-21	-20	-18	-15	-14	-11	-3	-4	-2	-3	-4	-5	-5	-6	-7	-7	-7	-6	-11.9	-1.6	
12-Mar	-5	-4	-5	-5	-5	-4	-4	-4	-2	0	1	2	3	2	3	3	4	4	4	5	4	4	4	4	0.4	4.6	
13-Mar	3	3	5	5	5	5	4	4	3	4	4	5	6	7	7	6	5	4	3	2	1	1	0	0	3.9	6.7	
14-Mar	0	-1	-2	-2	-2	-1	-1	-1	-1	-1	0	2	4	4	6	4	3	0	-2	-2	-3	-3	-3	-5	-0.4	6.1	
15-Mar	-5	-5	-6	-6	-7	-9	-10	-11	-11	-10	-10	-10	-9	-10	-10	-9	-10	-10	-10	-11	-12	-12	-13	-13	-9.5	-4.7	
16-Mar	-14	-15	-16	-15	-16	-16	-16	-16	-17	-16	-15	-14	-13	-11	-11	-9	-11	-12	-13	-13	-13	-13	-14	-14	-13.9	-9.4	
17-Mar	-14	-14	-15	-15	-15	-15	-15	-15	-14	-13	-7	-7	-8	-9	-10	-8	-9	-11	-12	-13	-15	-15	-15	-15	-12.5	-6.8	
18-Mar	-16	-16	-18	-18	-19	-19	-20	-19	-18	-17	-14	-12	-11	-4	-3	-1	0	-1	-3	-2	-1	0	0	-1	-9.7	0.2	
19-Mar	-1	-1	-2	-1	-2	-2	-3	-3	-2	-2	0	1	4	5	4	2	2	0	-2	-2	-2	-2	-2	-2	-0.6	4.8	
20-Mar	-2	-2	-2	-2	-2	-3	-3	-4	-4	-3	-3	-2	-2	-2	-2	-2	-2	-3	-4	-4	-5	-5	-6	-6	-3.2	-1.8	
21-Mar	-7	-8	-9	-11	-11	-13	-13	-12	-9	-9	-7	-1	0	4	4	4	0	-1	-2	-1	-2	-2	-2	-2	-4.6	4.4	
22-Mar	-2	-2	-2	-2	-3	-5	-6	-7	-7	-7	-7	-7	-6	-5	-5	-5	-5	-5	-6	-7	-8	-9	-9	-9	-5.7	-1.6	
23-Mar	-8	-8	-8	-8	-8	-8	-8	-8	-7	-7	-7	-5	-1	1	2	4	8	2	1	0	-1	0	-1	-2	-2	-3.0	7.8
24-Mar	-2	-2	-2	-2	-3	-3	-4	-3	-3	-2	1	5	7	6	4	4	3	3	2	2	1	0	0	-1	0.4	6.9	
25-Mar	-4	-8	-10	-11	-12	-12	-13	-13	-14	-14	-13	-11	-10	-10	-9	-8	-8	-8	-10	-12	-13	-13	-13	-12	-10.8	-4.1	
26-Mar	-13	-14	-15	-15	-16	-17	-17	-16	-13	-8	-6	-7	-2	2	-1	-1	0	0	1	2	3	2	1	1	-6.3	3.0	
27-Mar	0	1	-1	-1	-1	-1	-2	-2	0	1	2	2	3	3	3	3	3	3	2	0	-1	-2	-2	-3	0.3	3.3	
28-Mar	-3	-3	-4	-5	-5	-4	-4	-4	-2	0	1	2	2	3	3	3	2	1	-1	-1	-3	-4	-3	-2	-1.3	3.1	
29-Mar	-4	-4	-5	-5	-5	-6	-7	-6	-5	-3	-2	2	7	6	5	6	4	2	1	-1	-2	-3	-4	-4	-1.4	7.1	
30-Mar	-4	-5	-5	-5	-5	-6	-6	-3	-3	-1	1	3	3	4	4	5	4	4	3	2	2	1	0	-1	-0.3	4.6	
31-Mar	-1	-2	-1	-2	-2	-1	-1	-1	-1	1	2	4	5	6	6	4	4	4	2	1	-1	-2	-4	-5	0.6	6.0	
		-8.5	-9.1	-9.5	-9.7	-10.0	-10.3	-10.6	-10.6	-9.7	-8.5	-7.1	-5.4	-4.0	-3.2	-2.8	-2.6	-3.4	-4.4	-5.5	-6.2	-6.7	-7.1	-7.4	-7.7	Diurnal Average	
		3.2	3.1	4.9	5.4	5.3	5.0	4.3	3.6	3.4	4.1	4.5	5.5	7.1	6.7	6.7	7.8	5.0	4.2	4.3	4.6	4.2	3.9	3.9	4.0	Diurnal Maximum	

Hourly Averages for External Temperature at Beaverlodge

March 2009

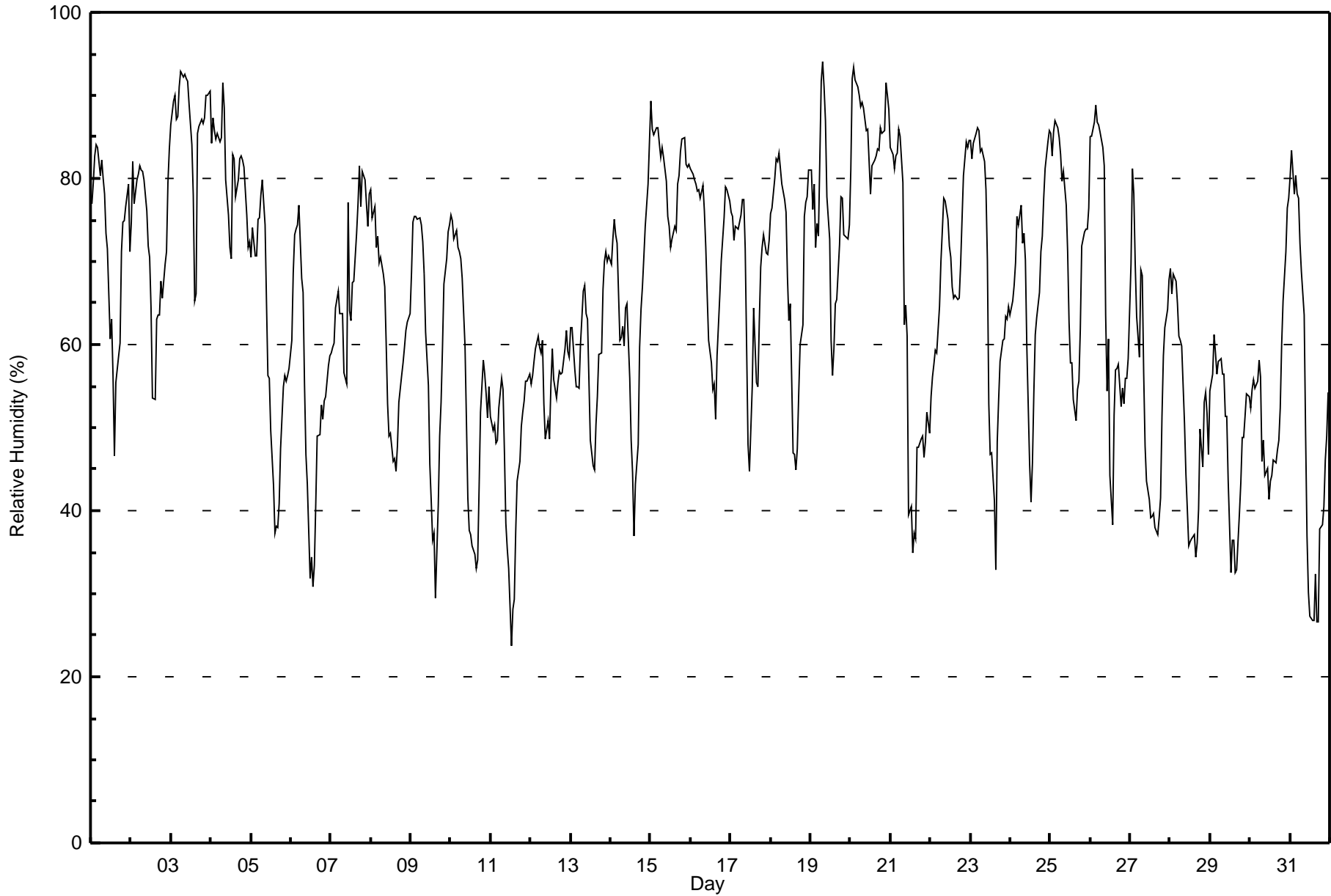


**Peace Airshed Zone Association
Summary of Hourly Averages**

**Beaverlodge - Relative Humidity (RH) - %
March 1, 2009 to April 1, 2009**

Maximum Value: 94.1 % on Mar 19 08:00																				Maximum Daily Average: 86.6 % on Mar 3					Hours in Service: 744	
Minimum Value: 24 % on Mar 11 13:00																				Minimum Daily Average: 45.7 % on Mar 11					Hours of Data: 744	
Maximum Diurnal Average: 74.2 % at hour 3																				Minimum Diurnal Average: 49.8 % at hour 15					Hours of Missing Data: 0	
Monthly Average: 64.71 %																				Percentiles: P ₁ = 29.4 P ₁₀ = 43.2 Q ₁ = 53.7 Median = 65.5 Q ₃ = 77.7 P ₉₀ = 84.4 P ₉₉ = 92.0					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-Mar	77	80	83	84	84	80	82	80	78	73	72	61	63	56	47	55	59	60	71	75	75	77	79	71	71.7	84.1
2-Mar	75	82	77	80	80	82	81	81	80	76	72	71	64	53	53	63	64	64	68	66	70	71	79	84	72.3	83.6
3-Mar	86	89	90	87	87	91	93	92	93	92	92	89	84	78	65	66	85	86	87	87	87	90	90	91	86.6	92.9
4-Mar	84	87	86	85	85	84	85	91	88	80	76	72	70	83	82	78	80	82	83	82	81	76	72	72	81.1	91.5
5-Mar	71	74	71	71	75	75	78	80	74	65	56	56	50	43	37	38	38	41	48	55	56	56	56	57	59.2	79.8
6-Mar	61	69	73	74	74	77	68	66	55	47	43	32	34	31	33	41	49	49	53	51	53	54	57	59	54.3	76.7
7-Mar	59	60	60	64	66	64	64	64	57	55	77	64	63	68	68	73	77	81	77	81	80	77	74	78	68.8	81.5
8-Mar	79	75	77	72	73	70	70	69	67	60	53	49	49	46	46	45	48	53	56	58	60	62	63	64	60.9	78.7
9-Mar	69	75	75	75	75	75	74	72	69	62	55	46	41	36	37	30	41	49	53	60	67	70	74	74	60.6	75.5
10-Mar	76	75	73	74	72	71	70	68	60	51	42	38	37	36	35	33	34	43	52	58	56	54	51	55	54.7	75.6
11-Mar	51	50	50	48	49	52	56	55	47	39	36	33	24	28	29	37	44	46	50	52	53	56	56	57	45.7	56.5
12-Mar	55	56	58	60	61	60	59	60	53	49	51	49	55	60	56	54	55	57	56	57	60	62	59	58	56.6	61.7
13-Mar	62	62	57	55	55	55	60	66	67	64	63	56	48	45	45	50	54	59	59	67	70	71	70	71	59.6	71.1
14-Mar	70	73	75	73	72	61	61	62	60	64	65	56	48	45	37	43	48	60	64	67	70	74	79	84	63.0	84.4
15-Mar	89	86	85	86	86	84	83	84	82	80	75	74	72	73	74	74	79	80	83	85	85	82	81	82	81.0	89.3
16-Mar	81	80	80	79	78	79	78	79	76	72	66	60	58	55	55	51	59	66	70	73	75	79	79	77	71.1	81.2
17-Mar	76	75	73	74	74	75	76	78	77	72	48	45	50	55	64	55	55	63	69	72	73	71	71	73	67.2	77.5
18-Mar	76	76	80	82	82	83	81	79	78	76	68	63	65	47	47	45	47	54	60	62	75	77	78	81	69.3	83.1
19-Mar	81	76	79	72	75	73	92	94	91	87	78	73	61	56	59	65	65	72	78	78	73	73	73	74	74.9	94.1
20-Mar	81	92	93	92	91	90	89	89	88	86	86	82	78	82	82	83	84	83	86	85	86	92	90	88	86.6	93.4
21-Mar	84	83	81	83	83	86	85	80	62	65	61	40	40	35	37	37	48	48	49	49	46	48	52	49	59.6	85.9
22-Mar	54	56	58	59	59	65	70	74	78	77	75	72	71	67	66	66	65	66	70	75	80	84	84	85	69.7	84.5
23-Mar	85	82	84	85	86	86	83	84	82	79	70	53	47	47	41	33	48	53	58	61	61	63	63	65	66.6	86.1
24-Mar	64	65	67	70	75	74	77	72	73	70	60	46	41	46	54	61	63	66	71	73	78	81	84	86	67.5	85.8
25-Mar	85	83	86	87	86	85	83	80	81	77	71	63	58	58	53	51	55	56	62	72	74	74	74	76	72.0	87.0
26-Mar	85	85	87	89	87	86	86	84	82	64	54	61	44	38	52	57	57	58	53	55	53	56	56	58	66.0	88.7
27-Mar	70	81	78	70	63	58	69	68	57	48	44	41	39	39	40	38	37	39	42	51	59	62	64	68	55.2	81.1
28-Mar	69	66	69	68	65	61	60	60	50	44	40	36	36	37	37	34	36	40	50	45	53	54	52	47	50.4	69.2
29-Mar	54	56	61	59	56	58	58	56	56	51	51	44	33	36	36	33	33	40	43	49	49	51	54	54	48.9	61.1
30-Mar	52	55	56	55	56	58	56	46	48	44	45	41	44	44	46	46	47	48	52	60	65	71	76	78	53.8	77.7
31-Mar	80	83	78	80	78	78	72	69	64	49	37	30	27	27	27	32	27	27	38	38	40	46	49	54	51.3	83.4
72.2 73.8 74.2 73.9 73.9 73.4 74.1 73.6 70.1 65.1 60.7 54.6 51.4 50.0 49.8 50.5 54.2 57.7 61.6 64.4 66.6 68.2 69.0 70.0																								Diurnal Average		
89.3 92.1 93.4 91.9 91.0 91.0 92.9 94.1 92.5 92.1 91.6 89.0 84.0 82.9 82.4 82.8 85.4 86.2 87.1 86.7 87.2 91.5 90.0 90.5																								Diurnal Maximum		

Hourly Averages for Relative Humidity at Beaverlodge March 2009



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

**Beaverlodge
March 1, 2009 to April 1, 2009
WS (km/h), WD (deg)**

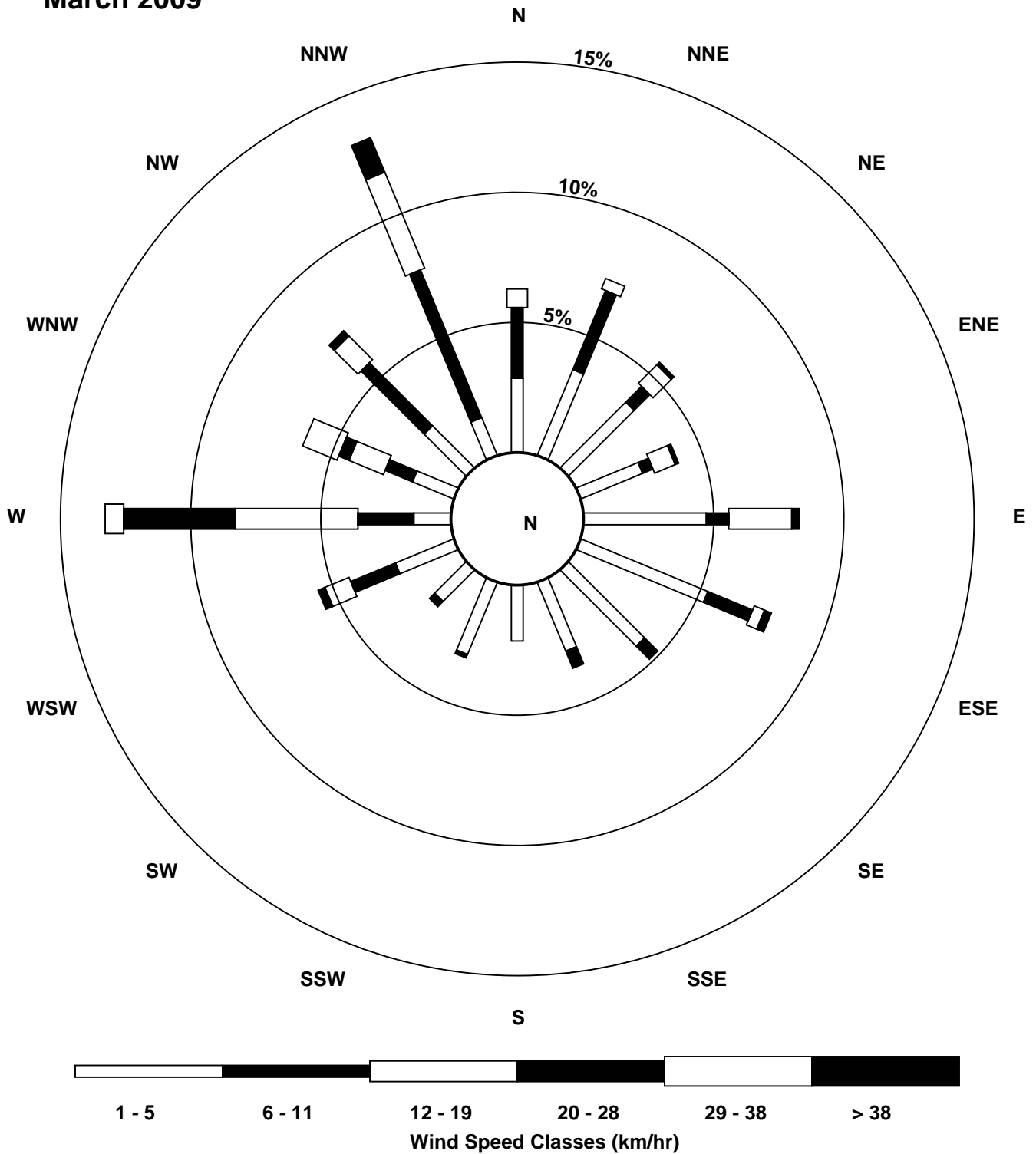
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1 Spd	1	1	0	0	1	3	1	1	3	4	3	2	5	4	2	2	1	1	2	2	1	3	5	3	0.6	5.4
Dir	66	72	124	109	71	49	21	21	54	305	338	61	245	219	168	181	164	230	305	23	340	313	52	35	2.0	245.3
2 Spd	3	3	5	3	2	4	5	4	3	3	6	7	7	4	2	2	2	2	6	6	8	8	6	5	3.2	8.0
Dir	294	29	34	49	318	37	340	8	25	278	325	313	29	227	93	270	34	349	298	2	302	322	336	354	340.5	301.6
3 Spd	5	3	3	3	2	6	3	1	5	3	3	5	6	5	5	1	5	3	2	1	1	1	2	4	1.4	6.0
Dir	2	101	112	43	326	326	317	274	320	311	354	359	352	357	30	24	181	182	139	87	115	86	106	89	11.1	326.5
4 Spd	1	3	3	2	3	1	4	1	0	1	2	1	8	20	18	16	15	14	14	14	14	12	10	9	6.2	20.0
Dir	173	90	97	112	104	122	223	156	128	158	206	240	310	336	345	345	347	343	337	344	351	351	5	8	346.5	335.8
5 Spd	10	5	7	4	7	9	9	11	10	8	7	11	12	9	7	8	7	5	1	3	4	4	5	5	5.1	11.8
Dir	4	342	345	328	330	343	331	330	328	324	326	321	322	319	317	313	292	284	171	99	88	107	118	129	332.2	322.0
6 Spd	6	6	6	5	3	2	4	4	3	3	3	0	2	2	11	22	20	19	15	22	23	14	4	4	5.6	23.2
Dir	156	161	162	145	150	168	146	135	155	147	110	142	122	96	119	254	263	267	257	270	268	272	262	252	246.7	272.5
7 Spd	8	12	6	12	19	24	28	32	27	28	22	19	23	22	20	19	16	16	12	10	12	13	14	11	13.7	31.5
Dir	244	258	245	259	266	265	270	264	279	281	315	344	337	336	338	334	336	339	348	325	335	9	26	18	307.5	263.8
8 Spd	11	11	10	11	13	12	12	10	9	9	9	9	10	12	12	12	10	11	7	6	5	7	9	8	9.1	12.5
Dir	357	9	11	354	344	357	2	24	348	344	351	335	315	309	319	327	359	33	25	12	332	333	341	2	350.6	344.4
9 Spd	9	7	7	6	5	0	5	1	6	8	8	4	5	5	4	1	3	3	1	1	4	2	3	1	3.1	9.1
Dir	33	32	33	29	30	22	27	348	338	339	347	6	14	23	55	125	151	173	204	48	36	359	64	236	20.8	33.0
10 Spd	1	1	2	1	2	4	2	2	2	3	3	4	5	6	7	9	3	2	0	3	1	0	1	1	1.9	9.1
Dir	301	51	192	110	95	71	93	133	160	158	118	89	100	129	128	128	113	324	215	354	52	324	40	75	109.7	128.0
11 Spd	2	2	3	3	1	2	2	2	2	2	3	4	1	3	5	20	21	18	16	12	11	11	10	9	4.4	20.8
Dir	69	78	73	75	312	268	86	103	105	124	87	82	126	85	244	267	256	258	261	260	264	258	257	261	258.0	256.4
12 Spd	9	10	6	6	11	12	13	9	6	8	13	16	22	22	17	19	15	18	21	22	15	10	4	4	12.6	21.9
Dir	260	269	258	264	264	275	279	284	285	265	260	263	268	269	274	266	264	257	268	275	268	259	223	194	266.6	269.0
13 Spd	5	7	17	18	20	13	17	20	22	24	17	19	22	18	17	18	17	15	17	12	9	7	5	1	14.3	24.0
Dir	232	239	281	274	273	296	308	301	287	277	260	271	276	283	282	270	266	260	266	266	258	245	259	209	274.9	277.4
14 Spd	6	4	3	4	2	6	5	4	2	3	4	3	4	5	3	7	9	15	17	18	20	16	18	18	5.3	19.8
Dir	271	255	250	263	273	290	292	17	352	118	94	109	132	116	109	40	70	89	81	77	84	92	94	78	81.8	83.8
15 Spd	16	4	2	3	9	8	9	14	14	11	9	12	12	13	12	10	10	8	7	10	11	12	13	13	8.8	16.3
Dir	77	48	16	16	48	14	26	40	39	32	28	34	33	36	37	35	35	34	30	357	343	336	323	333	25.1	76.9
16 Spd	12	12	13	12	13	11	9	8	10	9	9	9	8	6	6	5	5	5	3	1	3	6	6	6	7.3	13.0
Dir	333	333	334	328	336	331	334	348	339	342	338	327	343	342	345	11	55	56	33	10	356	333	343	18	342.9	335.6
17 Spd	5	4	4	4	4	4	4	4	3	3	1	1	1	4	7	1	2	2	4	3	8	10	9	4	2.8	10.5
Dir	34	22	26	31	29	355	30	51	145	162	205	188	102	64	32	81	190	137	105	115	106	104	107	127	78.3	103.5
18 Spd	3	2	2	1	1	2	1	2	3	5	1	3	3	2	2	1	1	1	7	9	9	5	1	3	1.4	9.2
Dir	215	202	221	100	150	192	151	232	291	322	85	257	200	183	288	251	311	1	346	352	312	323	340	210	295.0	312.5
19 Spd	1	2	3	1	3	5	6	4	4	6	4	3	0	1	2	5	5	4	4	6	4	7	6	10	3.3	9.9
Dir	249	255	70	219	144	144	144	124	122	118	104	104	79	97	174	156	138	114	105	69	83	55	98	105	112.6	105.0
20 Spd	8	8	10	12	16	18	18	19	20	19	20	16	14	16	15	18	19	21	21	18	14	15	8	9	12.7	20.8
Dir	104	113	73	94	98	94	97	97	103	104	103	95	86	81	72	75	69	59	51	50	330	24	338	313	77.2	51.1
21 Spd	17	14	13	11	9	5	5	4	2	4	1	1	2	2	2	4	7	9	13	17	18	13	17	21	4.0	20.6
Dir	312	301	310	300	316	359	6	3	60	30	336	209	88	106	80	57	98	86	82	80	85	103	102	90	51.5	89.6
22 Spd	18	15	7	4	8	7	9	9	9	10	11	11	9	7	8	8	8	4	3	3	2	3	4	7	5.5	18.4
Dir	91	94	85	19	15	348	354	347	350	4	25	34	34	31	323	323	321	325	335	347	96	93	72	87	25.1	90.9

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

Beaverlodge
March 1, 2009 to April 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	4	4	6	4	3	5	5	7	7	4	2	1	3	2	0	4	1	1	1	3	3	3	4	2.3	7.1
Dir	115	180	192	216	163	136	133	146	151	162	173	211	294	75	299	298	42	233	326	220	192	253	177	203	166.6	161.8
24 Spd	3	3	2	4	1	5	4	1	5	4	1	1	2	6	9	9	10	8	9	3	4	3	7	2.0	10.1	
Dir	203	159	138	102	196	246	104	333	319	58	241	260	125	101	97	123	113	123	115	134	303	19	45	318	112.3	123.1
25 Spd	22	23	19	25	23	21	20	20	18	16	16	13	12	11	9	8	7	5	5	5	5	5	5	5	11.1	24.7
Dir	326	335	341	331	328	327	325	331	328	324	327	330	337	334	341	19	358	33	87	111	95	101	95	92	338.7	331.2
26 Spd	3	3	0	4	2	2	1	0	1	1	0	3	1	1	1	3	2	1	4	9	18	10	5	6	1.8	18.2
Dir	122	227	301	73	252	59	69	39	185	188	277	76	219	238	205	52	198	107	235	249	279	278	275	266	261.1	279.3
27 Spd	16	27	20	24	28	28	23	21	19	29	33	32	31	29	34	35	33	29	30	22	17	20	20	20	25.5	35.1
Dir	284	257	260	273	269	272	266	267	268	281	285	284	282	286	282	282	283	282	281	275	261	267	263	267	275.4	282.0
28 Spd	14	14	10	8	10	13	12	1	0	20	19	15	13	16	17	16	14	13	10	5	2	1	1	4	9.9	20.0
Dir	263	274	271	268	277	285	277	137	186	282	283	285	285	273	272	276	284	273	257	278	80	135	56	297	276.7	281.9
29 Spd	1	1	3	5	9	7	7	12	12	11	8	1	2	3	3	3	4	4	5	6	3	2	2	2	1.8	12.0
Dir	347	185	37	336	325	333	339	335	327	325	324	288	130	164	166	186	126	103	117	108	133	121	145	124	347.6	327.0
30 Spd	3	1	2	2	3	1	3	3	2	6	8	20	31	33	30	27	30	25	21	15	12	12	7	6	11.6	33.4
Dir	115	162	134	157	202	199	172	238	136	213	228	265	275	272	261	261	262	263	266	254	244	251	261	250	258.0	271.8
31 Spd	6	1	3	2	1	4	6	6	8	10	12	9	7	6	4	3	6	7	9	4	2	2	2	1	4.0	11.5
Dir	243	195	258	50	287	283	335	332	325	319	326	332	10	17	354	243	296	343	340	18	10	310	277	310	326.9	325.8
Spd	2.2	2.1	2.3	3.0	3.8	4.3	3.8	3.4	3.7	4.5	4.3	4.5	5.0	4.7	4.5	4.6	4.0	3.2	3.2	2.4	3.0	2.6	1.4	1.4	Diurnal Average	
Dir	330.8	301.3	321.3	313.8	308.1	312.9	317.8	326.3	322.3	305.4	314.4	314.7	312.9	313.9	311.2	298.7	295.9	304.7	307.9	327.5	309.9	322.0	2.1	14.3	Diurnal Maximum	
Spd	21.8	26.6	19.9	24.7	27.8	27.7	27.8	31.5	27.0	29.0	33.0	32.1	31.1	33.4	34.1	35.1	32.6	29.4	30.1	21.6	21.5	23.2	20.5	20.6	Diurnal Maximum	
Dir	326.3	257.0	260.0	331.2	268.9	272.1	270.5	263.8	279.2	281.4	285.0	283.9	275.2	271.8	282.2	282.0	282.9	281.6	281.3	274.7	267.8	272.5	263.4	89.6	Diurnal Maximum	
Maximum Speed Value: 35 km/h on Mar 27 16:00																		Minimum Speed Value: 0 km/h on Mar 28 09:00						Hours in Service: 744		
Maximum Daily Speed Average: 25.5 km/h on Mar 27																		Minimum Daily Speed Average: 0.6 km/h on Mar 1						Hours of Data: 744		
Maximum Diurnal Speed Average: 5.0 km/h at hour 13																		Minimum Diurnal Speed Average: 1.4 km/h at hour 23						Hours of Missing Data: 0		
Monthly Average Velocity: 3.32 km/h 314.18 deg																		Speed Percentiles: P ₁ = 0.4 P ₁₀ = 1.3 Q ₁ = 2.8 Median = 5.7 Q ₃ = 11.9 P ₉₀ = 19.2 P ₉₉ = 30.9						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	36	53	15	3	0	0	107																			
NorthEast	47	22	13	2	0	0	84																			
East	68	20	24	6	0	0	118																			
SouthEast	55	18	0	0	0	0	73																			
South	42	4	0	0	0	0	46																			
SouthWest	34	9	1	0	0	0	44																			
West	28	26	45	38	15	0	152																			
NorthWest	28	48	31	13	0	0	120																			
Total	338	200	129	62	15	0	744																			

Wind Rose for WS at Beaverlodge March 2009



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

Beaverlodge - Wind Speed (WS) - km/h
March 1, 2009 to April 1, 2009

Maximum Speed: 35 km/h on Mar 27 16:00	Maximum Daily Speed Average: 25.9 km/h on Mar 27	Hours in Service: 744
Minimum Speed: 0 km/h on Mar 1 04:00	Minimum Daily Speed Average: 2.9 km/h on Mar 1	Hours of Data: 744
Maximum Diurnal Speed Average: 10.6 km/h at hour 17	Minimum Diurnal Speed Average: 6.7 km/h at hour 3	Hours of Missing Data: 0
Monthly Average Speed: 8.62 km/h	Percentiles: P ₁ = 0.9 P ₁₀ = 2.1 Q ₁ = 3.3 Median = 6.1 Q ₃ = 12.0 P ₉₀ = 19.3 P ₉₉ = 31.0	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-Mar	1	1	1	0	1	3	2	3	3	5	5	3	6	4	2	2	2	2	3	4	2	4	5	4	2.9	6.0
2-Mar	4	4	6	5	7	6	8	6	5	6	7	7	8	5	3	3	5	5	10	10	8	8	6	5	6.1	10.1
3-Mar	5	4	4	3	3	6	4	2	5	4	3	5	6	6	5	3	6	3	2	2	2	1	2	4	3.8	6.3
4-Mar	2	3	3	2	3	1	4	2	2	2	3	2	9	20	18	16	15	14	15	14	14	12	11	10	8.3	20.3
5-Mar	10	5	7	5	7	10	9	11	10	8	8	11	12	9	7	9	7	5	2	3	4	4	5	5	7.2	11.9
6-Mar	6	6	6	5	3	2	4	4	3	3	3	0	2	2	2	13	22	21	19	15	22	23	15	5	8.6	23.3
7-Mar	8	12	7	12	19	24	28	32	27	28	23	20	23	22	20	19	16	16	13	10	13	14	15	11	18.0	31.6
8-Mar	12	11	10	12	13	13	12	11	10	10	10	9	11	12	12	12	11	11	7	6	5	7	9	9	10.2	12.9
9-Mar	9	7	7	6	5	0	5	2	6	8	8	5	5	5	2	3	3	2	2	4	3	4	4	2	4.4	9.2
10-Mar	2	2	3	2	2	4	3	2	2	3	3	4	5	6	7	9	5	2	1	4	2	2	2	2	3.4	9.1
11-Mar	2	2	3	3	3	2	2	2	2	3	3	4	2	3	6	20	21	18	16	12	11	11	10	9	7.2	20.9
12-Mar	9	10	6	6	11	12	13	9	7	8	13	16	22	22	17	19	15	18	21	22	16	10	5	4	13.0	22.3
13-Mar	5	7	17	19	20	14	17	20	22	24	17	20	23	18	17	18	17	15	17	12	9	8	5	2	15.1	24.0
14-Mar	6	5	3	4	2	7	6	4	3	3	4	3	4	6	3	7	9	15	17	18	20	16	18	19	8.4	19.8
15-Mar	16	6	4	6	10	8	10	14	14	11	9	12	12	13	12	12	10	10	8	7	10	11	12	13	10.4	16.4
16-Mar	12	12	13	12	13	11	9	8	10	9	9	9	8	7	6	5	5	5	4	1	4	7	6	6	7.9	13.1
17-Mar	5	5	5	4	4	4	4	5	3	3	1	2	1	4	7	5	3	2	4	4	8	11	9	5	4.5	10.5
18-Mar	3	3	2	2	2	3	2	2	3	6	2	4	4	3	3	2	3	3	9	9	9	5	2	3	3.7	9.5
19-Mar	1	2	3	2	4	5	6	4	4	6	4	3	0	1	2	5	5	4	5	6	5	7	6	10	4.2	10.0
20-Mar	8	8	10	12	16	18	18	19	20	19	20	16	14	16	15	18	19	21	21	18	15	15	12	11	15.8	20.8
21-Mar	18	14	13	11	9	6	7	5	3	5	4	1	2	2	3	5	10	9	14	17	18	13	17	21	9.3	20.7
22-Mar	18	16	9	7	9	8	9	9	10	10	11	11	9	8	8	9	8	4	4	4	2	3	5	7	8.2	18.5
23-Mar	6	4	4	6	5	3	5	5	7	7	4	2	3	3	2	0	4	1	1	2	4	4	4	4	3.8	7.4
24-Mar	3	3	2	4	3	5	5	2	5	4	3	1	1	2	6	9	9	10	8	9	7	5	3	7	4.8	10.2
25-Mar	22	24	19	25	23	21	20	20	18	16	16	13	12	11	9	8	8	6	5	5	5	5	5	5	13.5	24.8
26-Mar	3	3	3	4	2	3	1	1	2	2	1	4	2	2	3	4	3	2	5	10	18	10	5	6	4.1	18.2
27-Mar	17	27	20	24	28	28	23	21	19	29	33	32	31	29	34	35	33	30	30	22	17	20	21	20	25.9	35.2
28-Mar	14	14	10	8	10	13	12	2	4	20	19	15	13	16	18	16	14	14	10	5	2	1	2	5	10.8	20.0
29-Mar	4	3	4	5	9	7	7	12	12	11	8	4	2	3	3	3	4	4	5	6	4	2	2	2	5.3	12.0
30-Mar	3	3	3	2	3	3	5	3	2	6	9	21	31	34	30	27	30	26	21	15	12	12	7	6	13.1	33.6
31-Mar	6	3	3	2	1	4	6	6	8	10	12	9	8	7	5	4	7	7	9	4	2	2	5	2	5.5	11.7

7.8	7.3	6.7	7.1	8.0	8.2	8.6	8.1	8.1	9.3	8.9	8.7	9.5	9.7	9.4	10.3	10.6	9.8	9.9	9.0	8.9	8.3	7.6	7.2	Diurnal Average	
21.9	26.7	19.9	24.8	27.9	27.9	27.9	31.6	27.2	29.1	33.1	32.3	31.3	33.6	34.2	35.2	32.7	29.5	30.2	21.7	21.6	23.3	20.5	20.7	Diurnal Maximum	

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
March 1, 2009 to April 1, 2009**

Maximum Value: 90.8 deg on Mar 26 03:00																								Hours in Service:	744
Minimum Value: 2.2 deg on Mar 11 19:00																								Hours of Data:	744
Percentiles: P ₁ = 2.8 P ₁₀ = 4.5 Q ₁ = 6.9 Median = 14.8 Q ₃ = 37.4 P ₉₀ = 65.6 P ₉₉ = 84.9																								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-Mar	38	77	80	73	41	28	74	63	17	47	49	69	27	12	34	31	27	75	64	48	61	54	23	61	79.6
2-Mar	63	78	39	74	72	40	55	58	51	71	34	19	29	34	51	60	59	62	54	85	12	10	10	25	85.2
3-Mar	12	43	53	31	83	9	49	46	11	38	32	23	19	26	30	78	9	20	19	73	45	53	17	22	83.0
4-Mar	56	19	24	39	33	60	23	79	83	51	39	79	42	10	8	9	8	8	8	10	9	10	11	15	82.8
5-Mar	12	16	14	19	14	9	6	5	4	16	17	8	8	14	19	17	10	15	71	20	10	12	7	5	70.5
6-Mar	15	13	10	17	17	25	10	15	19	19	18	21	36	39	33	87	7	9	5	6	4	4	11	24	86.8
7-Mar	13	5	30	7	5	5	5	4	5	3	17	9	9	7	11	9	12	15	15	12	20	16	11	19	30.1
8-Mar	21	15	16	15	11	16	16	18	13	15	19	19	12	11	12	15	25	5	12	7	20	7	4	17	25.0
9-Mar	5	4	5	6	7	82	19	68	8	5	12	31	20	19	28	31	23	6	29	66	8	50	26	72	81.7
10-Mar	62	52	57	48	37	5	34	17	23	23	13	7	8	8	5	3	78	67	79	60	77	80	53	68	79.7
11-Mar	16	10	8	21	72	78	25	16	26	30	15	8	32	18	41	14	4	3	2	4	4	5	8	14	77.6
12-Mar	6	4	6	9	5	4	4	6	10	6	3	4	7	12	12	3	4	4	4	5	23	13	25	30	30.5
13-Mar	24	17	5	7	7	14	5	4	5	4	6	11	7	5	3	9	3	5	7	8	6	18	64	59	64.5
14-Mar	17	13	71	39	71	12	43	30	66	47	20	12	18	8	16	10	10	7	3	4	2	5	6	5	71.2
15-Mar	5	58	78	80	33	13	10	3	4	6	8	5	6	4	5	4	4	4	8	21	9	9	5	5	80.0
16-Mar	4	6	4	6	5	5	7	13	7	10	10	10	18	21	23	23	11	7	10	39	16	13	8	14	39.2
17-Mar	13	11	12	10	7	18	15	19	20	17	61	56	20	17	5	72	42	15	30	18	3	6	6	47	72.3
18-Mar	36	46	49	49	54	29	56	30	82	24	76	39	38	38	66	73	88	75	35	23	8	10	57	23	88.0
19-Mar	77	69	18	88	39	26	10	3	4	14	12	17	50	65	36	15	8	13	22	5	10	9	19	7	88.3
20-Mar	5	9	16	15	6	4	4	6	4	3	4	6	5	7	8	6	3	6	3	13	25	12	48	41	48.2
21-Mar	9	7	3	5	7	24	42	60	65	65	77	60	49	22	72	65	42	17	7	4	5	5	5	5	77.3
22-Mar	7	6	61	52	23	39	14	12	11	16	8	11	4	19	8	8	11	8	13	63	17	15	15	8	63.3
23-Mar	15	38	18	12	25	11	7	10	9	17	13	48	79	31	23	70	23	53	58	76	36	46	41	14	78.5
24-Mar	17	29	47	19	67	17	52	84	17	21	87	62	73	35	14	5	8	4	5	14	76	44	44	13	86.8
25-Mar	4	5	10	5	5	4	5	5	5	6	7	9	9	12	15	13	19	25	24	9	3	5	5	8	24.8
26-Mar	21	24	91	46	59	65	80	89	69	59	86	46	55	47	65	66	51	51	67	12	5	18	35	16	90.8
27-Mar	19	4	4	6	5	7	3	3	5	4	4	5	5	3	5	4	5	4	4	7	3	3	5	3	18.8
28-Mar	7	5	7	8	6	2	5	58	75	3	4	6	7	14	12	8	5	7	6	43	39	56	64	19	74.5
29-Mar	70	85	35	9	6	6	7	3	5	5	8	85	19	13	11	18	25	14	13	8	47	24	18	25	84.8
30-Mar	37	59	25	36	34	71	56	19	39	19	12	14	6	6	3	4	6	8	4	12	3	5	8	22	70.6
31-Mar	20	71	45	84	67	17	7	7	7	6	10	12	18	21	30	47	25	18	11	18	79	59	79	76	84.3
	77.3	84.5	90.8	88.3	83.0	81.7	79.9	89.3	82.8	71.5	86.8	84.8	78.5	65.2	71.5	86.8	88.0	75.3	78.8	85.2	78.6	79.7	78.7	75.7	

PASZA

Portable – Spirit River Station

Monthly Summary Tables, Graphs and Roses

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

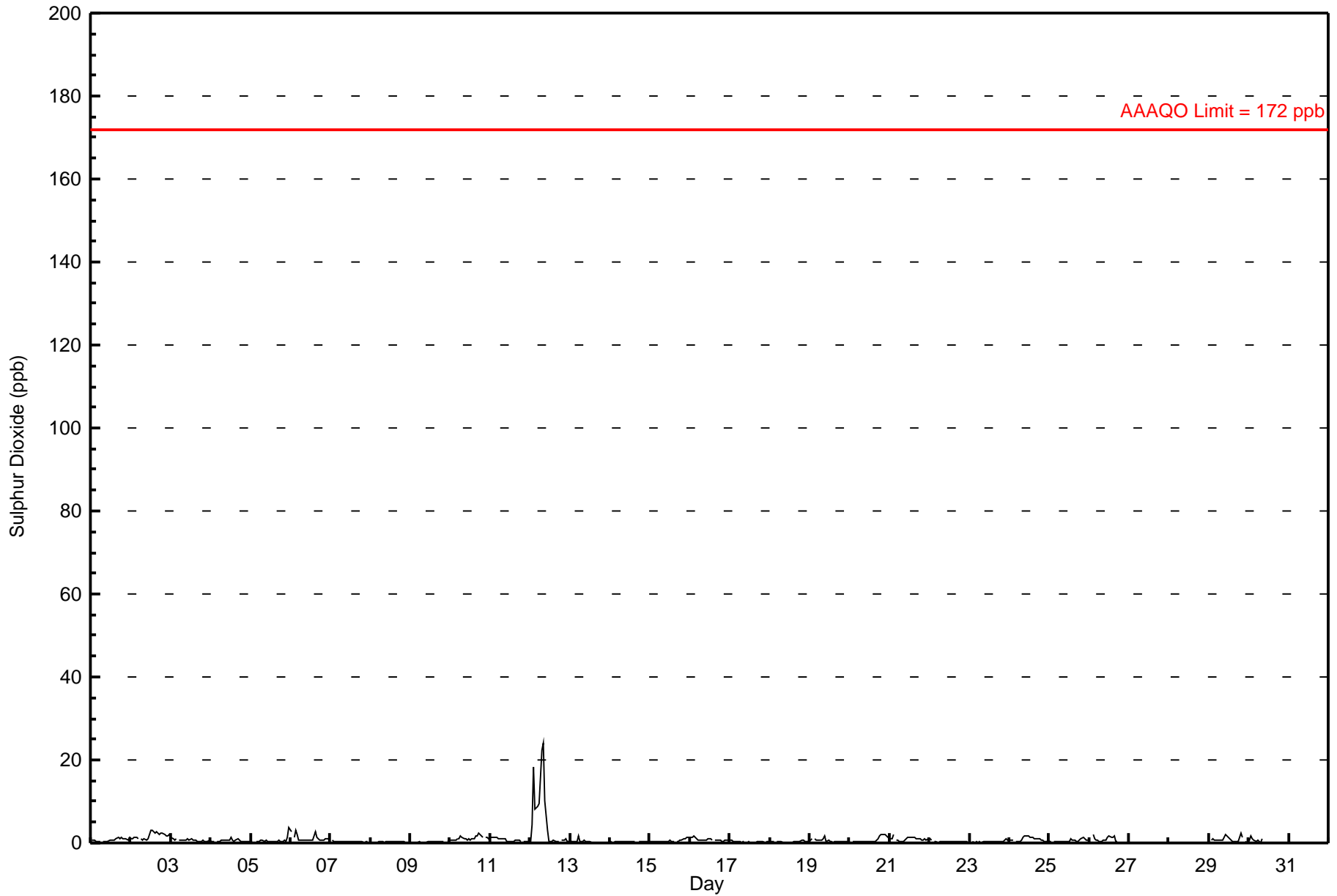
**Portable-Spirit River - Sulphur Dioxide (SO₂) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 711
Maximum Value: 24.0 ppb on Mar 12 09:00	Maximum Daily Average: 5.7 ppb on Mar 12
Minimum Value: 0 ppb on Mar 9 07:00	Hours of Data: 623
Maximum Diurnal Average: 1.5 ppb at hour 3	Hours of Missing Data: 88
Monthly Average: 0.83 ppb	Hours of Calibration: 33
Minimum Daily Average: 0.2 ppb on Mar 8	Percent Operational Time: 92.3
Minimum Diurnal Average: 0.6 ppb at hour 15	
Percentiles: P ₁ = 0.1 P ₁₀ = 0.2 Q ₁ = 0.3 Median = 0.5 Q ₃ = 0.9 P ₉₀ = 1.4 P ₉₉ = 8.7	

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-Mar	1	1	1	0	0	0	A	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	1.4
2-Mar	1	1	1	1	1	1	A	1	1	1	1	1	2	3	3	2	3	2	2	2	2	2	2	2	1.7	3.0
3-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0	0	0	1	0.7	1.4
4-Mar	0	0	0	A	0	0	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0.5	1.3
5-Mar	0	0	A	0	0	0	1	1	0	1	0	0	0	0	0	0	1	1	0	0	1	0	1	4	0.6	3.7
6-Mar	3	A	1	3	2	1	1	1	1	1	1	1	1	1	2	3	1	1	1	1	1	1	1	1	1.2	2.9
7-Mar	A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6
8-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	A	0.2	0.3
9-Mar	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	0.8
10-Mar	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	2	2	2	1	A	1	1	1	1.2	2.4
11-Mar	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0	A	0	0	0	0	0.8	1.5
12-Mar	0	5	18	8	9	9	16	22	24	10	3	0	0	0	1	0	0	0	A	0	1	1	0	0	5.7	24.0
13-Mar	1	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	A	0	0	0	0	0	0	0.3	1.5
14-Mar	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
15-Mar	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	A	0	0	1	1	1	1	1	1	0.5	1.3
16-Mar	1	1	2	2	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0	0	1	1	1	0.9	1.7
17-Mar	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
18-Mar	0	0	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0.3	0.7
19-Mar	1	1	A	1	1	1	1	1	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.6	1.7
20-Mar	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	2	2	1	0.8	2.2
21-Mar	1	1	2	A	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	2.2
22-Mar	1	1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.9
23-Mar	0	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.3	1.1
24-Mar	1	1	1	A	0	0	0	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0.9	1.7
25-Mar	0	0	A	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	1	1	0.5	1.3
26-Mar	1	A	2	1	1	1	0	0	1	1	1	1	2	2	1	2	0	0	D	D	D	D	D	D	--	1.9
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
29-Mar	D	1	1	1	1	1	1	1	1	1	2	2	1	1	0	0	0	0	1	2	1	A	0	0	0.9	2.4
30-Mar	1	2	1	1	0	1	0	0	1	C	C	C	C	C	C	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	1.7
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--
	0.7	0.8	1.5	1.0	0.9	0.8	1.0	1.3	1.4	1.0	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	Diurnal Average	
	2.8	4.5	18.4	8.1	9.0	9.4	15.8	22.5	24.0	10.3	3.0	2.0	3.0	3.0	2.5	2.8	2.3	2.4	2.3	2.4	2.1	2.2	1.8	3.7	Diurnal Maximum	

C - Calibration D - DAS Failure NS - Not in service 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-Spirit River March 2009



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

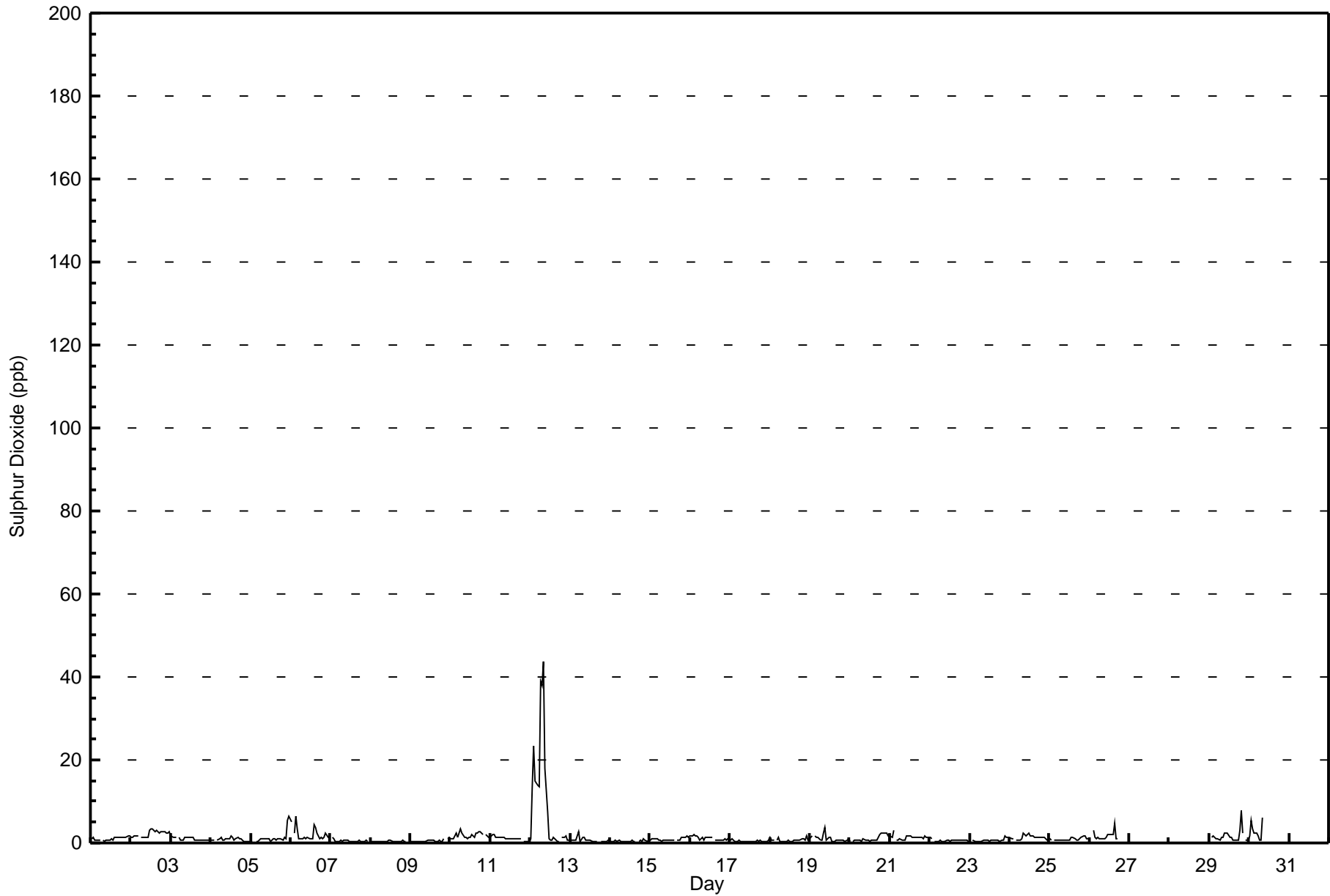
**Portable-Spirit River - Sulphur Dioxide (SO₂) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 43.7 ppb on Mar 12 09:00	Maximum Daily Average: 10.3 ppb on Mar 12	Hours in Service: 711
Minimum Value: 0 ppb on Mar 23 05:00	Minimum Daily Average: 0.4 ppb on Mar 8	Hours of Data: 623
Maximum Diurnal Average: 2.7 ppb at hour 9	Minimum Diurnal Average: 1.0 ppb at hour 18	Hours of Missing Data: 88
Monthly Average: 1.42 ppb	Percentiles: P ₁ = 0.2 P ₁₀ = 0.3 Q ₁ = 0.6 Median = 0.8 Q ₃ = 1.3 P ₉₀ = 2.2 P ₉₉ = 12.7	Hours of Calibration: 33
		Percent Operational Time: 92.3

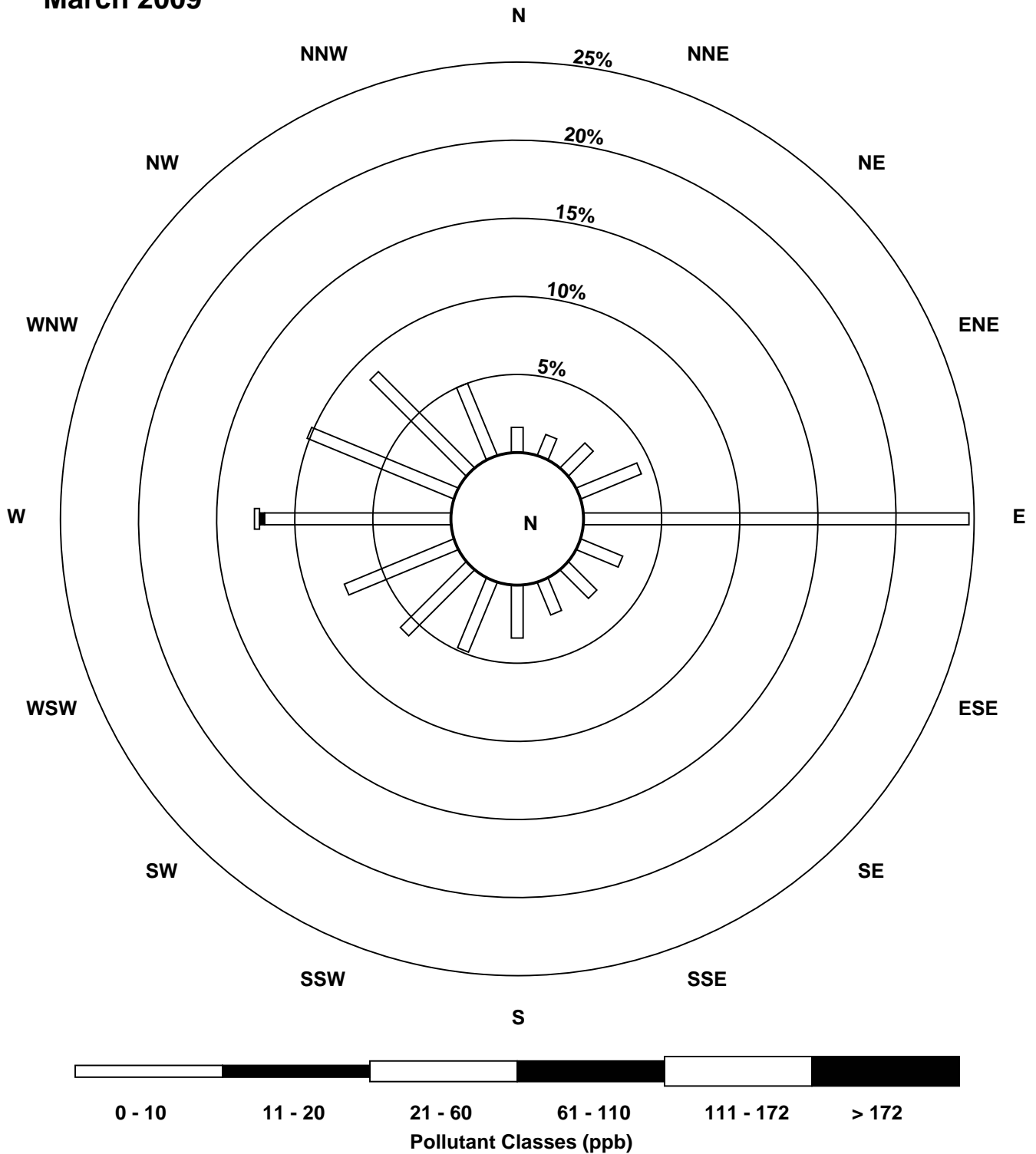
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Mar	1	1	1	1	1	1	A	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1.1	1.8
2-Mar	1	1	2	2	2	A	1	1	1	1	1	3	3	3	3	3	3	2	3	3	3	2	2	3	2.2	3.3
3-Mar	2	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.7
4-Mar	1	1	1	A	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	0	0	0	0	0.9	1.8
5-Mar	0	0	A	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	5	6	1.2	6.5
6-Mar	5	A	2	6	3	1	1	1	1	1	1	1	1	1	4	4	2	1	1	1	1	2	1	1	2.0	6.4
7-Mar	A	1	1	0	0	0	1	0	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	A	0.5	1.2
8-Mar	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	A	0	0.4	0.8
9-Mar	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	0	0	1	A	1	1	0.6	1.4
10-Mar	1	1	1	2	1	2	3	2	1	1	1	1	1	2	1	2	2	3	3	2	A	2	2	1	1.8	3.3
11-Mar	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	0	0	0	0	1.1	1.9
12-Mar	1	13	23	15	14	13	39	38	44	18	7	1	1	1	1	1	0	0	A	1	1	2	1	1	10.3	43.7
13-Mar	1	1	1	1	2	3	0	1	1	1	1	1	0	0	0	0	0	A	0	0	0	0	0	1	0.7	2.7
14-Mar	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	A	0	1	0	1	1	0	1	0.5	0.9
15-Mar	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	A	1	1	1	1	1	1	2	1	0.9	1.8
16-Mar	2	2	2	2	2	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1.2	2.0
17-Mar	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0.5	1.0
18-Mar	1	1	1	A	1	1	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	2	1	0.7	1.7
19-Mar	1	2	A	2	1	1	1	1	2	4	1	1	1	0	0	1	1	1	1	1	1	0	1	1	1.1	3.8
20-Mar	0	A	0	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	2	2	2	2	2	1.1	2.3
21-Mar	2	1	3	A	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	2	1	1	1.3	3.2
22-Mar	1	1	A	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0.6	1.3
23-Mar	0	A	1	0	0	0	0	0	1	1	1	1	0	1	1	1	1	1	0	1	1	2	1	1	0.7	1.8
24-Mar	1	1	1	A	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1.3	2.4
25-Mar	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	0.9	1.9
26-Mar	1	A	3	1	1	1	1	1	1	1	1	2	2	2	2	5	1	1	D	D	D	D	D	D	--	4.9
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
29-Mar	D	1	2	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	3	8	2	A	1	1	1.7	7.8
30-Mar	2	6	3	2	2	2	1	1	6	C	C	C	C	C	C	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	6.2
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--
	1.1	1.7	2.2	1.8	1.5	1.4	2.2	2.1	2.7	1.6	1.2	1.1	1.0	1.0	1.1	1.2	1.0	1.0	1.1	1.3	1.1	1.1	1.2	1.3	Diurnal Average	
	5.2	13.1	23.4	14.9	13.9	13.4	38.9	38.0	43.7	17.9	7.4	3.0	3.3	3.3	4.4	4.9	2.8	2.9	2.9	7.8	2.7	2.3	5.4	6.5	Diurnal Maximum	

C - Calibration D - DAS Failure NS - Not in service A - Automated Daily Zero Span

Hourly Maximums for SO₂ at Portable-Spirit River March 2009



Pollutant Rose for SO₂ at Portable-Spirit River March 2009



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

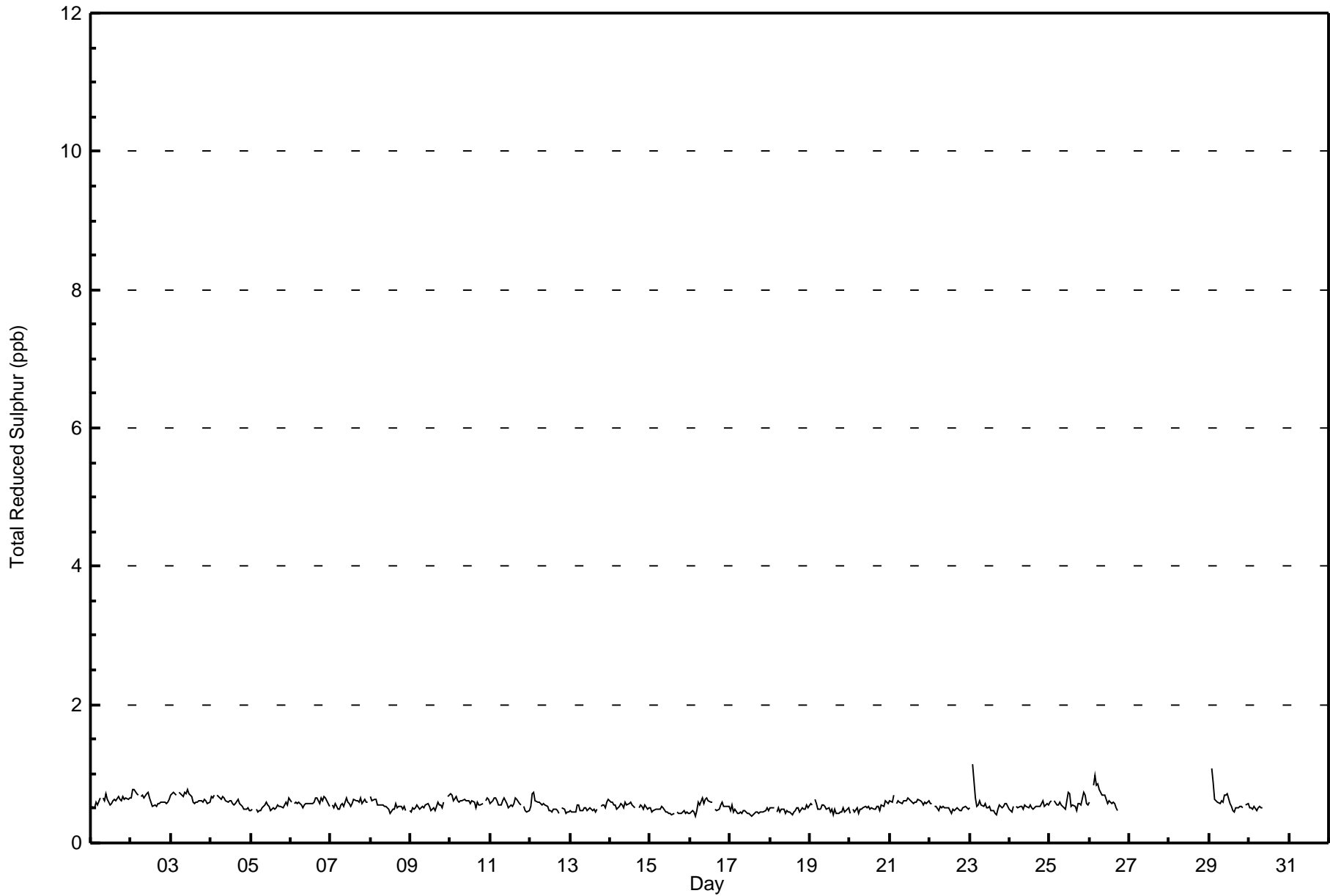
**Portable-Spirit River - Total Reduced Sulphur (TRS) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0 Maximum Value: 1.1 ppb on Mar 23 03:00 Maximum Daily Average: 0.7 ppb on Mar 3	Hours in Service: 713 Hours of Data: 623 Hours of Missing Data: 90 Hours of Calibration: 31 Percent Operational Time: 91.7
Minimum Value: 0 ppb on Mar 17 14:00 Maximum Diurnal Average: 0.6 ppb at hour 3 Monthly Average: 0.55 ppb	Minimum Daily Average: 0.5 ppb on Mar 17 Minimum Diurnal Average: 0.5 ppb at hour 14 Percentiles: P ₁ = 0.4 P ₁₀ = 0.5 Q ₁ = 0.5 Median = 0.5 Q ₃ = 0.6 P ₉₀ = 0.7 P ₉₉ = 0.8

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-Mar	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
2-Mar	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.8
3-Mar	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.8
4-Mar	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0.6	0.7
5-Mar	0	0	A	0	0	0	0	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0.5	0.6
6-Mar	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
7-Mar	A	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.6
8-Mar	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	0	1	0	A	0	0.5	0.7
9-Mar	0	1	0	1	1	0	1	1	1	1	1	0	0	1	0	1	1	1	1	1	1	A	1	1	0.5	0.7
10-Mar	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	0.7
11-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0	0	0	0.6	0.7
12-Mar	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	A	1	0	0	0	0.5	0.7
13-Mar	0	0	0	0	1	1	0	0	1	1	0	0	1	0	0	0	0	0	A	1	1	1	1	1	0.5	0.6
14-Mar	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0	1	0	0	0.5	0.6
15-Mar	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	A	0	0	0	0	0	0	0	0	0.5	0.5
16-Mar	0	0	0	0	0	1	1	1	1	1	1	1	1	1	A	0	0	0	1	1	1	1	1	1	0.5	0.7
17-Mar	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.5	0.5
18-Mar	1	1	0	A	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1	1	0.5	0.6
19-Mar	1	1	A	1	1	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0.5	0.6
20-Mar	0	A	0	0	0	0	0	0	1	1	1	0	1	0	0	0	1	1	0	1	1	1	1	1	0.5	0.6
21-Mar	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	0.7
22-Mar	1	1	A	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0.5	0.6
23-Mar	1	A	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0.6	1.1
24-Mar	0	0	1	A	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0.5	0.6
25-Mar	1	1	A	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0.6	0.7
26-Mar	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	D	D	D	D	D	D	--	1.0
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
29-Mar	D	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	A	1	0.6	1.1
30-Mar	1	1	0	1	0	1	1	1	0	N	N	N	N	C	C	C	C	NS	NS	NS	NS	NS	NS	NS	--	0.5
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--
	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.5	Diurnal Average
	0.7	1.1	1.1	1.0	0.8	0.9	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.6	0.6	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	Diurnal Maximum	

C - Calibration D - DAS Failure N - Not Valid NS - Not in service 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-Spirit River March 2009



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

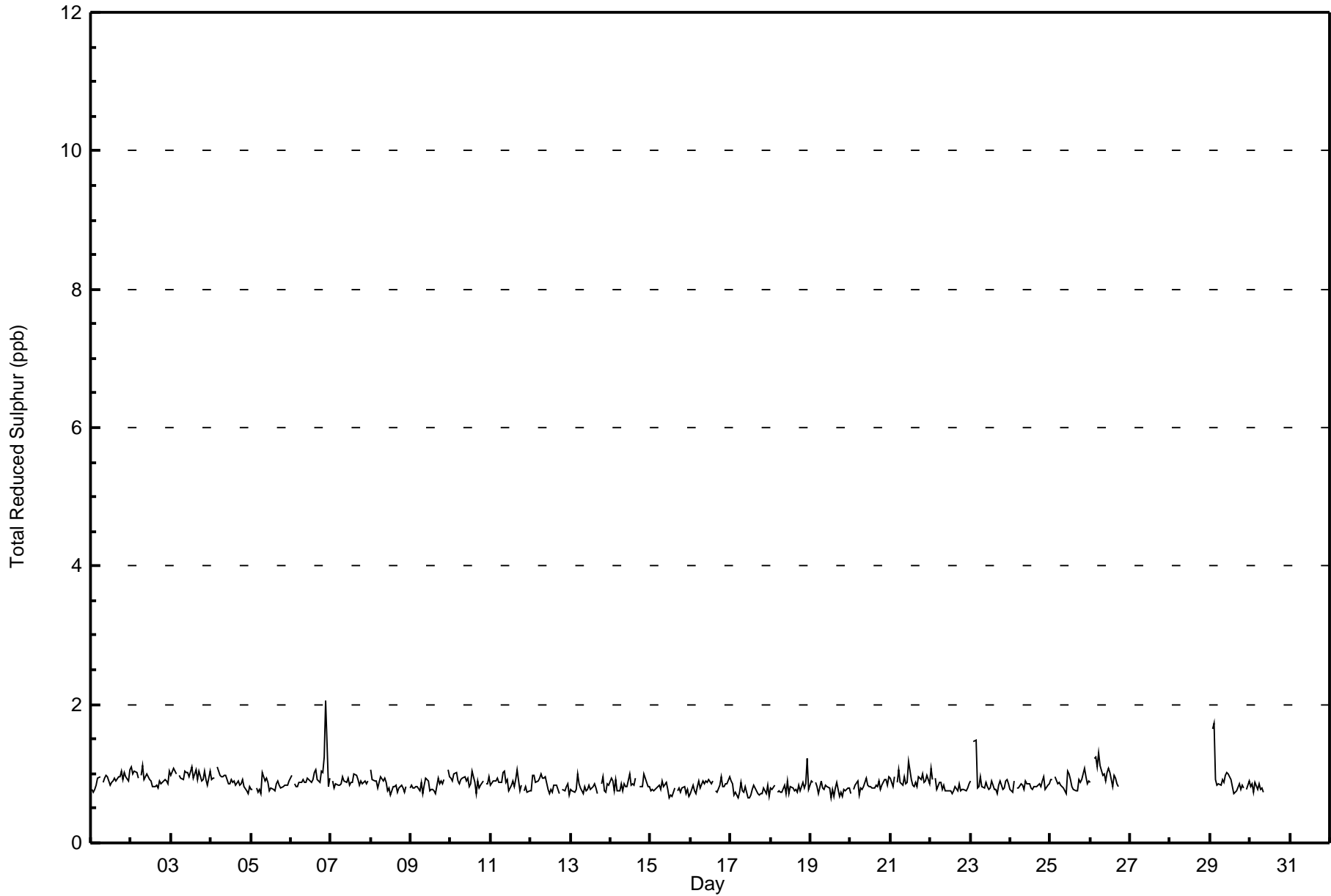
**Portable-Spirit River - Total Reduced Sulphur (TRS) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 2.1 ppb on Mar 6 22:00	Maximum Daily Average: 1.0 ppb on Mar 3	Hours in Service: 713
Minimum Value: 1 ppb on Mar 15 12:00	Minimum Daily Average: 0.7 ppb on Mar 17	Hours of Data: 623
Maximum Diurnal Average: 0.9 ppb at hour 3	Minimum Diurnal Average: 0.8 ppb at hour 17	Hours of Missing Data: 90
Monthly Average: 0.86 ppb	Percentiles: P ₁ = 0.7 P ₁₀ = 0.7 Q ₁ = 0.8 Median = 0.8 Q ₃ = 0.9 P ₉₀ = 1.0 P ₉₉ = 1.2	Hours of Calibration: 31
		Percent Operational Time: 91.7

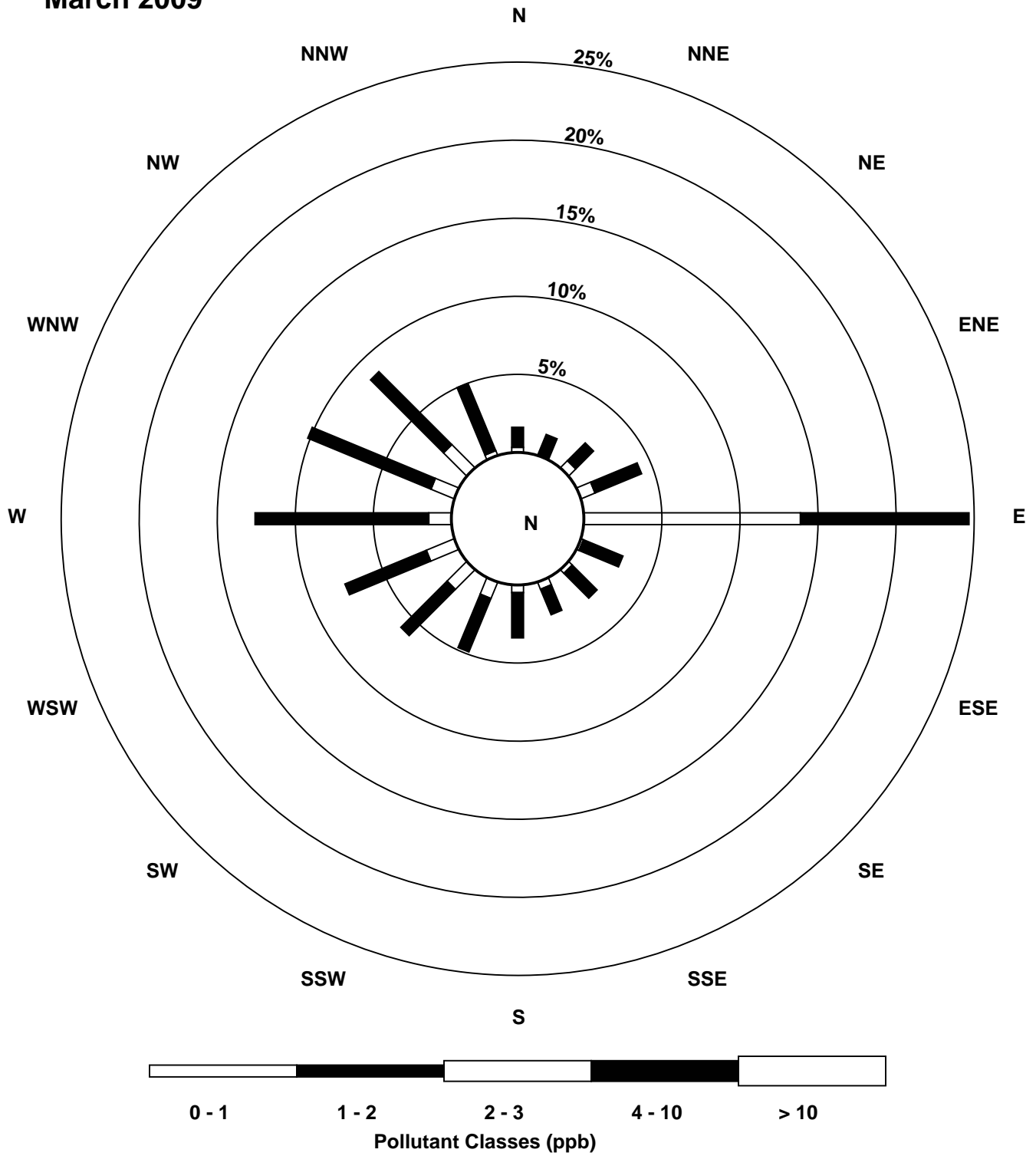
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Mar	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.0
2-Mar	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
3-Mar	1	1	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.1
4-Mar	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
5-Mar	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	1.0
6-Mar	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1.0	2.1
7-Mar	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
8-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	0.8	1.1
9-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.8	1.1
10-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	0.9	1.0
11-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	0.9	1.1
12-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	0.8	1.0
13-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	0.8	1.0
14-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.9	1.0
15-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	0.8	0.9
16-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1	0.8	1.0
17-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	0.9
18-Mar	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
19-Mar	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-Mar	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	1.0
21-Mar	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	1.2
22-Mar	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
23-Mar	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5
24-Mar	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	0.9
25-Mar	1	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.1
26-Mar	1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	D	D	D	D	D	D	--	1.3
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
29-Mar	D	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	0.9	1.7
30-Mar	1	1	1	1	1	1	1	1	1	N	N	N	N	C	C	C	C	NS	NS	NS	NS	NS	NS	NS	--	0.9
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--
	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	Diurnal Average
	1.1	1.6	1.7	1.5	1.1	1.3	1.1	1.1	1.0	1.0	1.0	1.2	1.1	1.0	1.0	1.1	1.1	1.0	1.0	1.0	1.2	2.1	1.2	1.0	Diurnal Maximum	

C - Calibration D - DAS Failure N - Not Valid NS - Not in service A - Automated Daily Zero Span

Hourly Maximums for TRS at Portable-Spirit River March 2009



Pollutant Rose for TRS at Portable-Spirit River March 2009



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

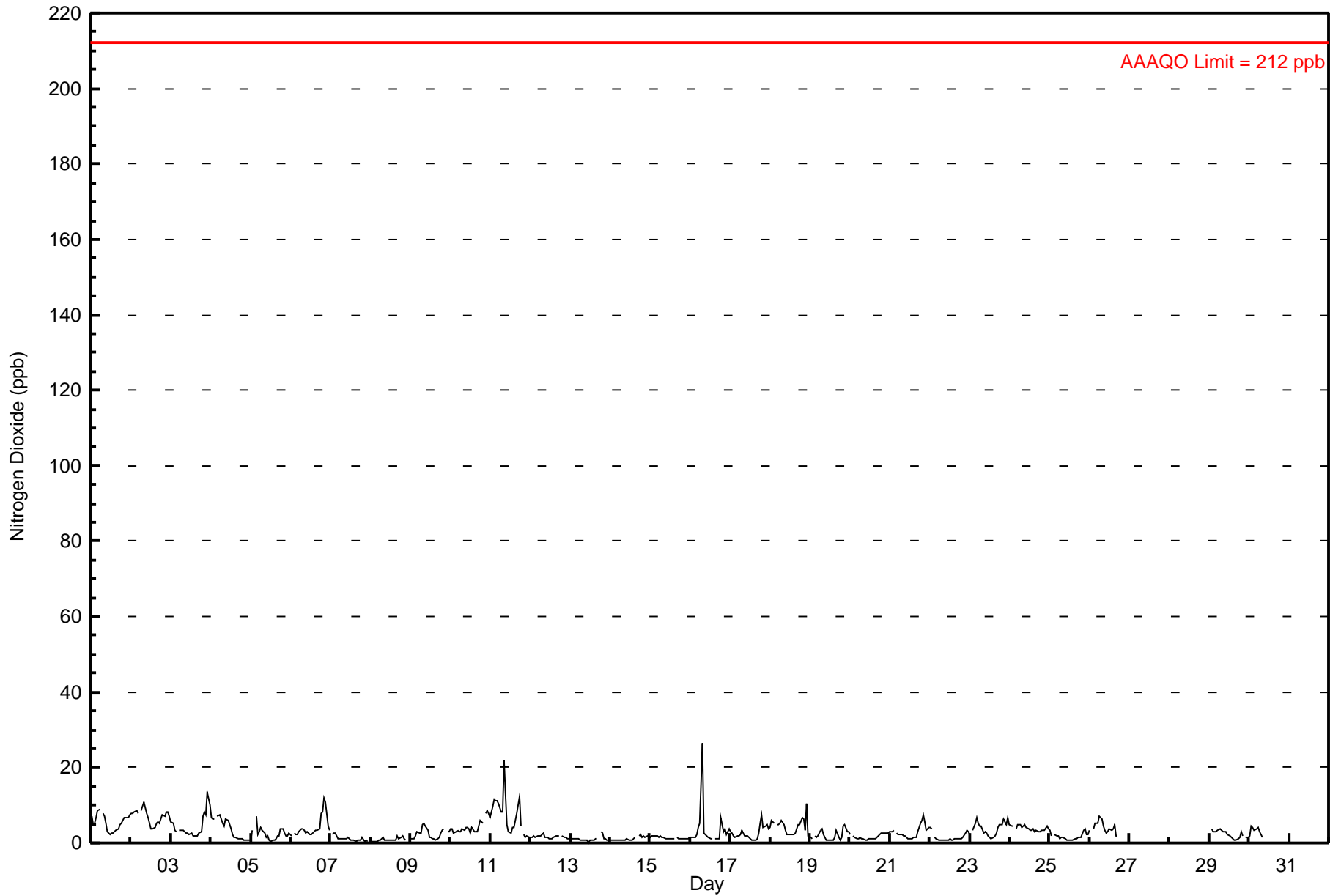
**Portable-Spirit River - Nitrogen Dioxide (NO₂) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 711
Maximum Value: 26.4 ppb on Mar 16 08:00	Maximum Daily Average: 7.3 ppb on Mar 11
Minimum Value: 0 ppb on Mar 13 12:00	Hours of Data: 623
Maximum Diurnal Average: 4.4 ppb at hour 8	Hours of Missing Data: 88
Monthly Average: 3.04 ppb	Hours of Calibration: 33
Minimum Daily Average: 0.9 ppb on Mar 8	Percent Operational Time: 92.3
Minimum Diurnal Average: 1.7 ppb at hour 13	
Percentiles: P ₁ = 0.5 P ₁₀ = 0.8 Q ₁ = 1.2 Median = 2.3 Q ₃ = 3.9 P ₉₀ = 6.6 P ₉₉ = 12.0	

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-Mar	7	5	5	7	9	9	A	8	7	5	3	2	3	3	3	3	4	5	5	6	7	7	7	7	5.5	9.0
2-Mar	8	8	8	9	8	A	9	10	11	8	7	5	4	4	4	5	6	5	6	8	7	8	8	7	7.0	10.9
3-Mar	6	5	3	3	A	3	3	3	3	3	3	2	2	2	2	2	2	3	3	7	8	7	14	10	4.3	13.6
4-Mar	7	6	6	A	7	8	6	5	4	6	6	5	4	2	2	1	1	1	1	1	1	1	1	1	3.6	7.6
5-Mar	1	3	A	7	2	3	4	3	3	1	2	1	1	1	1	1	2	2	4	4	3	2	2	3	2.3	7.2
6-Mar	2	A	3	2	2	3	4	4	3	3	3	2	2	3	3	3	3	4	8	8	12	11	4	4	4.2	12.1
7-Mar	A	2	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	A	1.1	2.7
8-Mar	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	A	1	0.9	2.0
9-Mar	1	1	1	2	3	3	3	5	5	4	3	2	1	1	1	1	1	1	3	3	4	A	3	3	2.4	5.1
10-Mar	4	4	3	3	3	3	3	4	3	4	4	4	3	4	3	3	3	5	6	5	A	8	8	8	4.2	8.5
11-Mar	7	10	12	11	11	11	8	8	22	13	5	3	3	4	4	6	8	12	5	A	2	1	2	1	7.3	22.1
12-Mar	2	2	2	2	2	2	2	2	3	2	1	1	1	1	1	2	2	2	A	2	2	2	1	1	1.6	2.5
13-Mar	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	A	3	3	1	1	1	1	1.0	3.1
14-Mar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	2	2	2	2	1	2	2	1.1	2.1
15-Mar	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	A	1	1	1	1	1	1	1	1	1.3	1.9
16-Mar	1	1	1	2	2	4	5	26	3	2	2	2	1	1	A	1	1	1	7	5	3	4	2	4	3.6	26.4
17-Mar	3	3	2	2	2	2	2	3	2	2	2	2	1	1	1	1	1	3	5	8	4	5	5	4	2.6	7.6
18-Mar	4	6	5	A	5	5	5	6	5	3	2	2	2	2	2	3	4	5	5	7	6	3	10	2	4.3	10.4
19-Mar	1	1	A	2	1	2	3	4	2	1	1	1	1	1	1	2	3	1	1	2	5	5	3	3	2.0	4.8
20-Mar	2	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	1.6	2.6
21-Mar	3	3	3	A	2	2	2	2	2	2	1	1	1	1	1	1	2	3	5	6	7	6	3	4	2.8	7.3
22-Mar	4	4	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	1.5	4.0
23-Mar	2	A	3	5	7	5	4	4	3	3	2	2	1	1	1	2	3	4	5	5	6	6	5	7	3.8	6.8
24-Mar	5	5	5	A	4	5	5	4	5	5	4	4	3	3	4	3	3	3	3	3	3	3	4	4	3.9	5.0
25-Mar	3	2	A	2	2	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	3	4	2	2	1.7	3.9
26-Mar	3	A	4	5	5	5	7	6	4	3	2	3	4	3	4	5	2	2	D	D	D	D	D	D	--	6.9
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
29-Mar	D	4	3	3	3	3	4	3	3	3	3	2	2	2	1	1	1	1	1	3	2	A	2	1	2.3	3.7
30-Mar	2	5	4	3	4	4	3	2	1	C	C	C	C	C	C	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	4.5
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--
	3.1	3.4	3.4	3.3	3.4	3.3	3.4	4.4	3.7	3.0	2.4	1.9	1.7	1.7	1.8	2.0	2.3	2.8	3.4	3.8	3.8	3.8	3.9	3.4		Diurnal Average
	7.9	9.6	11.6	11.1	11.3	10.5	8.7	26.4	22.1	13.0	6.8	5.3	3.8	4.0	4.1	6.1	7.9	12.3	7.7	8.2	12.1	10.7	13.6	10.1		Diurnal Maximum

C - Calibration D - DAS Failure NS - Not in service 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-Spirit River March 2009



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

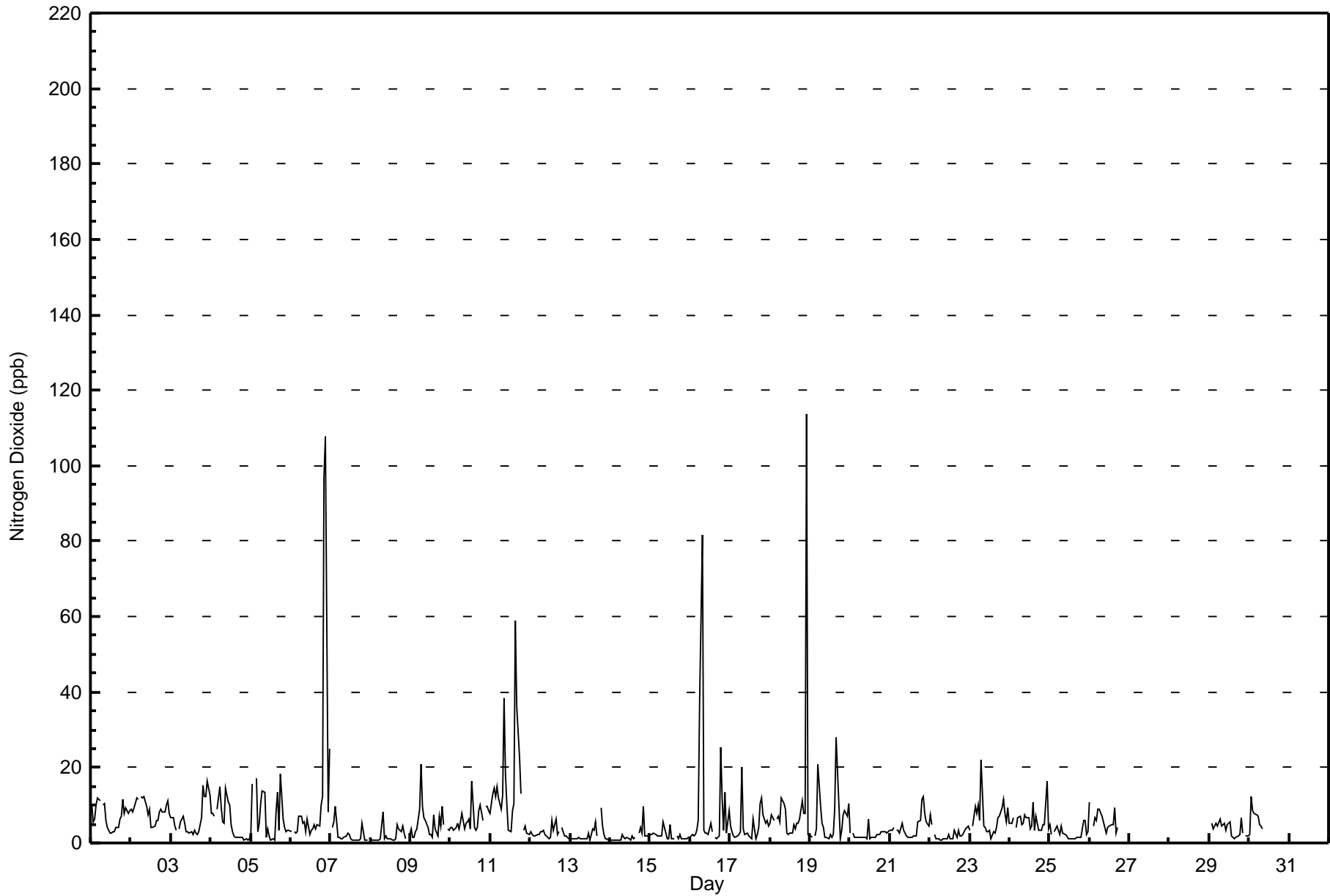
**Portable-Spirit River - Nitrogen Dioxide (NO₂) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 113.9 ppb on Mar 18 23:00	Maximum Daily Average: 14.5 ppb on Mar 6	Hours in Service: 711
Minimum Value: 1 ppb on Mar 8 04:00	Minimum Daily Average: 1.9 ppb on Mar 14	Hours of Data: 623
Maximum Diurnal Average: 9.8 ppb at hour 8	Minimum Diurnal Average: 2.6 ppb at hour 13	Hours of Missing Data: 88
Monthly Average: 5.65 ppb	Percentiles: P ₁ = 0.7 P ₁₀ = 1.2 Q ₁ = 1.8 Median = 3.5 Q ₃ = 6.6 P ₉₀ = 10.5 P ₉₉ = 23.4	Hours of Calibration: 33
		Percent Operational Time: 92.3

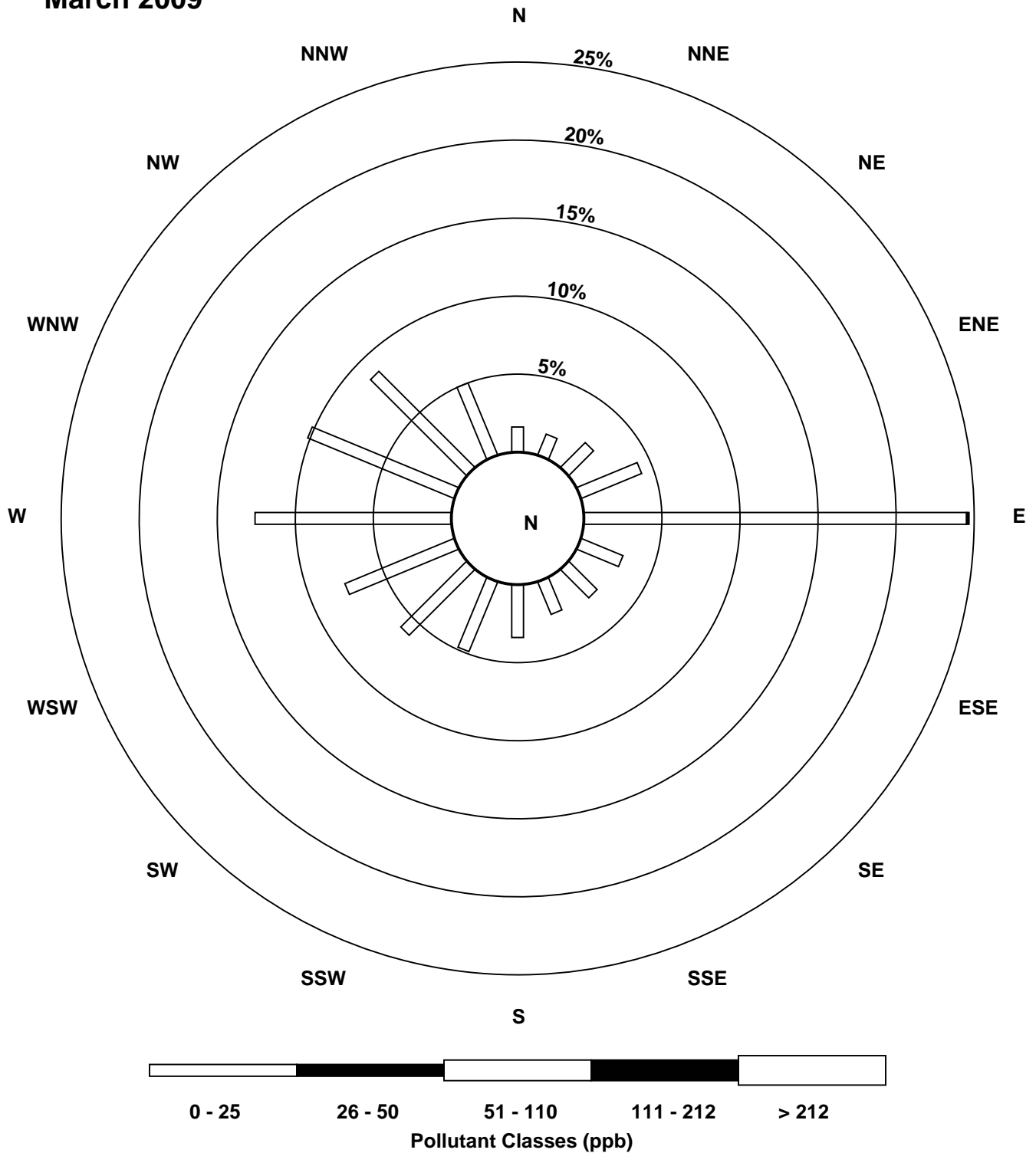
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1-Mar	10	6	6	10	12	11	A	10	10	6	4	3	3	3	3	4	4	6	7	11	8	9	8	9	7.1	12.0	
2-Mar	9	8	9	12	11	A	12	12	12	10	7	9	4	4	5	6	6	8	9	8	8	10	11	8	8.7	12.2	
3-Mar	7	7	4	4	A	4	6	7	5	3	3	3	2	3	3	2	3	7	15	12	12	17	13	6.2	16.5		
4-Mar	8	8	7	A	9	15	9	6	5	15	11	10	5	3	2	2	1	2	2	2	1	1	1	1	5.4	14.8	
5-Mar	2	16	A	17	3	5	10	14	13	2	4	2	1	1	1	9	13	4	18	6	4	3	3	3	6.7	18.3	
6-Mar	3	A	3	3	3	7	7	5	6	3	6	2	3	4	5	4	5	4	10	12	97	108	8	25	14.5	107.6	
7-Mar	A	4	6	10	1	2	1	1	2	2	3	2	1	1	1	1	1	1	1	5	1	1	1	A	2.1	9.8	
8-Mar	1	1	1	1	1	1	1	8	1	2	1	1	1	1	1	1	5	4	3	4	2	1	A	2	2.0	8.2	
9-Mar	4	2	1	3	4	9	21	10	7	6	4	2	2	1	7	4	2	7	4	10	5	A	4	3	5.3	20.9	
10-Mar	4	4	3	4	5	4	5	8	4	5	6	6	4	16	4	3	4	9	10	6	A	10	10	9	6.2	16.5	
11-Mar	8	13	15	12	15	12	9	13	38	18	10	3	3	8	11	59	36	23	13	A	3	4	3	2	14.4	58.9	
12-Mar	3	2	2	2	2	2	3	3	3	2	2	1	1	6	3	6	2	3	A	4	2	2	1	1	2.6	6.5	
13-Mar	1	1	1	1	1	1	1	1	1	1	1	2	1	4	3	6	2	A	9	5	2	1	1	1	2.2	9.3	
14-Mar	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	2	A	3	4	3	10	2	2	2	1.9	9.8	
15-Mar	2	2	3	2	2	2	2	2	6	3	1	1	5	1	1	A	2	1	2	1	1	1	1	1	2.0	5.6	
16-Mar	2	2	2	2	3	6	38	82	3	3	3	2	5	3	A	2	1	2	25	12	4	13	3	9	9.8	81.8	
17-Mar	4	3	2	2	2	2	3	20	4	2	3	2	2	1	6	1	2	4	10	12	8	5	6	5	4.6	20.1	
18-Mar	5	7	6	A	7	7	6	12	10	9	3	2	3	2	5	4	5	5	6	11	8	8	114	2	10.8	113.9	
19-Mar	2	1	A	2	4	21	10	5	4	2	1	1	2	1	2	9	28	10	1	3	7	9	7	10	6.3	27.8	
20-Mar	3	A	3	2	2	1	2	1	1	1	1	6	1	2	1	2	2	2	2	3	3	3	3	3	2.2	6.3	
21-Mar	3	3	4	A	3	3	3	5	3	3	2	1	1	1	2	2	2	6	6	11	12	8	6	5	4.2	12.1	
22-Mar	7	5	A	2	1	1	1	1	1	1	2	1	1	1	1	3	1	3	2	2	2	4	4	4	2.3	7.3	
23-Mar	3	A	5	10	8	10	6	22	4	4	3	3	1	3	3	4	7	7	9	12	8	6	9	6.5	22.0		
24-Mar	5	5	7	A	4	7	7	5	5	7	7	7	4	5	11	4	7	3	3	3	5	5	16	4	5.9	16.3	
25-Mar	5	2	A	3	4	4	2	4	3	2	2	1	1	1	1	1	1	2	2	2	6	6	2	3	2.6	5.9	
26-Mar	11	A	4	7	6	9	9	7	6	4	3	4	4	5	5	9	2	4	D	D	D	D	D	D	--	10.8	
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
29-Mar	D	5	4	4	5	4	6	4	5	5	3	5	6	2	2	1	1	2	2	7	2	A	2	2	3.7	6.7	
30-Mar	2	12	9	8	8	7	5	4	4	C	C	C	C	C	C	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	12.4	
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	
	4.4	5.0	4.5	5.1	4.7	5.9	6.9	9.8	6.0	4.5	3.5	3.2	2.6	3.1	3.5	5.7	5.6	4.8	6.7	6.8	9.0	9.7	9.5	5.5		Diurnal Average	
	10.8	15.8	14.5	17.2	14.8	21.0	37.7	81.8	38.4	18.3	10.9	10.2	5.5	16.5	10.7	58.9	36.3	22.7	25.3	15.3	96.8	107.6	113.9	25.1		Diurnal Maximum	

C - Calibration D - DAS Failure NS - Not in service A - Automated Daily Zero Span

Hourly Maximums for NO₂ at Portable-Spirit River March 2009



Pollutant Rose for NO₂ at Portable-Spirit River March 2009



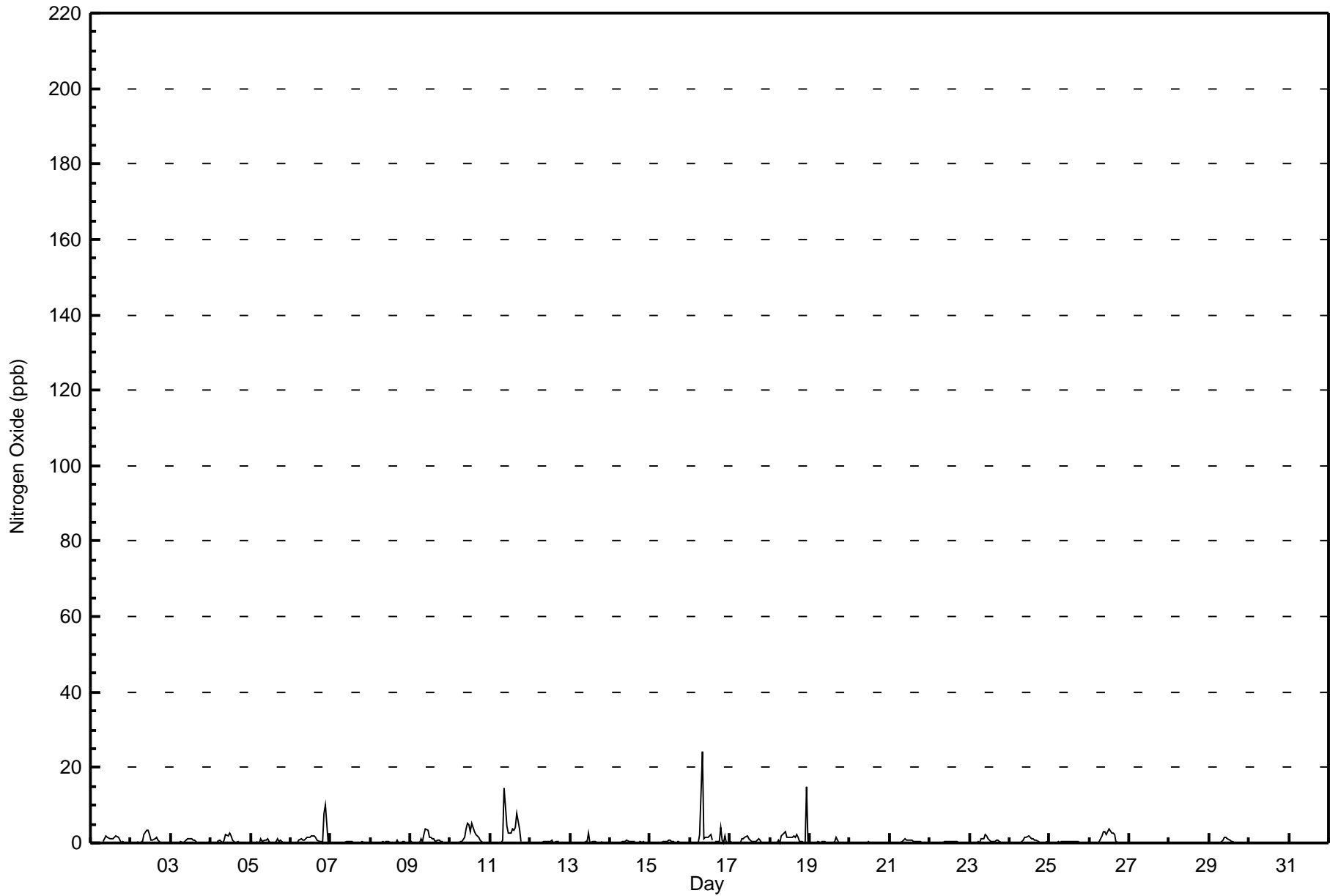
**Peace Airshed Zone Association
Summary of Hourly Averages**

**Portable-Spirit River - Nitrogen Oxide (NO) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 24.4 ppb on Mar 16 08:00	Maximum Daily Average: 2.5 ppb on Mar 11	Hours in Service: 711
Minimum Value: 0 ppb on Mar 5 21:00	Minimum Daily Average: 0.1 ppb on Mar 20	Hours of Data: 623
Maximum Diurnal Average: 1.7 ppb at hour 10	Minimum Diurnal Average: 0.1 ppb at hour 3	Hours of Missing Data: 88
Monthly Average: 0.66 ppb	Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.1 Median = 0.2 Q ₃ = 0.6 P ₉₀ = 1.7 P ₉₉ = 6.3	Hours of Calibration: 33
		Percent Operational Time: 92.3

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-Mar	0	0	0	0	0	0	A	0	1	2	1	1	1	1	1	2	1	1	0	0	0	0	0	0	0.7	1.8									
2-Mar	0	0	0	0	0	A	0	0	2	3	3	2	1	1	1	1	1	0	0	0	0	0	0	0	0.8	3.4									
3-Mar	0	0	0	0	A	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	1.0									
4-Mar	0	0	0	A	0	1	0	0	1	2	2	3	2	1	0	0	0	0	0	0	0	0	0	0	0.6	2.5									
5-Mar	0	0	A	0	0	0	1	0	1	1	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0.4	1.3									
6-Mar	0	A	0	0	0	1	1	1	1	1	2	1	2	2	2	2	1	0	0	0	8	10	0	0	1.5	10.2									
7-Mar	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									
8-Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	A	0	0.2	0.8									
9-Mar	0	0	0	0	0	0	1	0	2	4	4	2	1	1	1	1	1	1	0	0	0	A	0	0	0.8	3.9									
10-Mar	0	0	0	0	0	0	0	0	2	4	5	5	3	5	3	2	2	2	1	0	A	0	0	0	1.5	5.4									
11-Mar	0	0	0	0	0	0	0	1	14	10	4	3	2	4	3	4	8	4	0	A	0	0	0	0	2.5	14.4									
12-Mar	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	A	0	0	0	0	0	0.2	0.7									
13-Mar	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	A	0	0	0	0	0	0	0.2	2.7									
14-Mar	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	A	0	0	0	0	0	0	0	0.2	0.6									
15-Mar	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	A	0	0	0	0	0	0	0	0	0.2	0.8									
16-Mar	0	0	0	0	0	0	2	24	1	2	2	2	2	1	A	0	0	0	4	1	0	2	0	0	1.9	24.4									
17-Mar	0	0	0	0	0	0	0	1	1	1	2	1	1	0	0	0	1	1	1	0	0	0	0	0	0.5	1.8									
18-Mar	0	0	0	A	0	1	0	2	3	3	2	2	2	1	2	2	2	1	0	0	0	0	15	0	1.6	15.0									
19-Mar	0	0	A	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.2	1.5									
20-Mar	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-Mar	0	0	0	A	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3	1.1									
22-Mar	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									
23-Mar	0	A	0	0	0	0	0	1	1	2	2	1	1	0	0	0	1	1	0	0	0	0	0	0	0.6	2.3									
24-Mar	0	0	0	A	0	0	0	0	1	2	2	2	1	1	1	1	1	0	0	0	0	0	1	0	0.5	1.7									
25-Mar	0	0	A	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.3	0.5									
26-Mar	0	A	0	0	0	0	0	2	3	3	2	3	4	3	3	2	0	0	D	D	D	D	D	D	--	3.7									
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--									
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--									
29-Mar	D	0	0	0	0	0	0	0	1	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0.4	1.5									
30-Mar	0	0	0	0	0	0	0	0	0	C	C	C	C	C	C	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	0.0									
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--									
	0.1	0.1	0.1	0.1	0.1	0.2	0.3	1.3	1.4	1.7	1.5	1.3	1.1	1.0	0.8	0.8	0.9	0.6	0.4	0.1	0.4	0.6	0.7	0.1	Diurnal Average										
	0.5	0.5	0.2	0.3	0.4	0.9	2.4	24.4	14.4	9.9	5.4	5.0	3.7	5.4	3.2	4.2	7.8	3.8	4.1	0.6	7.7	10.2	15.0	0.4	Diurnal Maximum										
C - Calibration																								D - DAS Failure		NS - Not in service				A - Automated Daily Zero Span					

Hourly Averages for NO at Portable-Spirit River March 2009



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

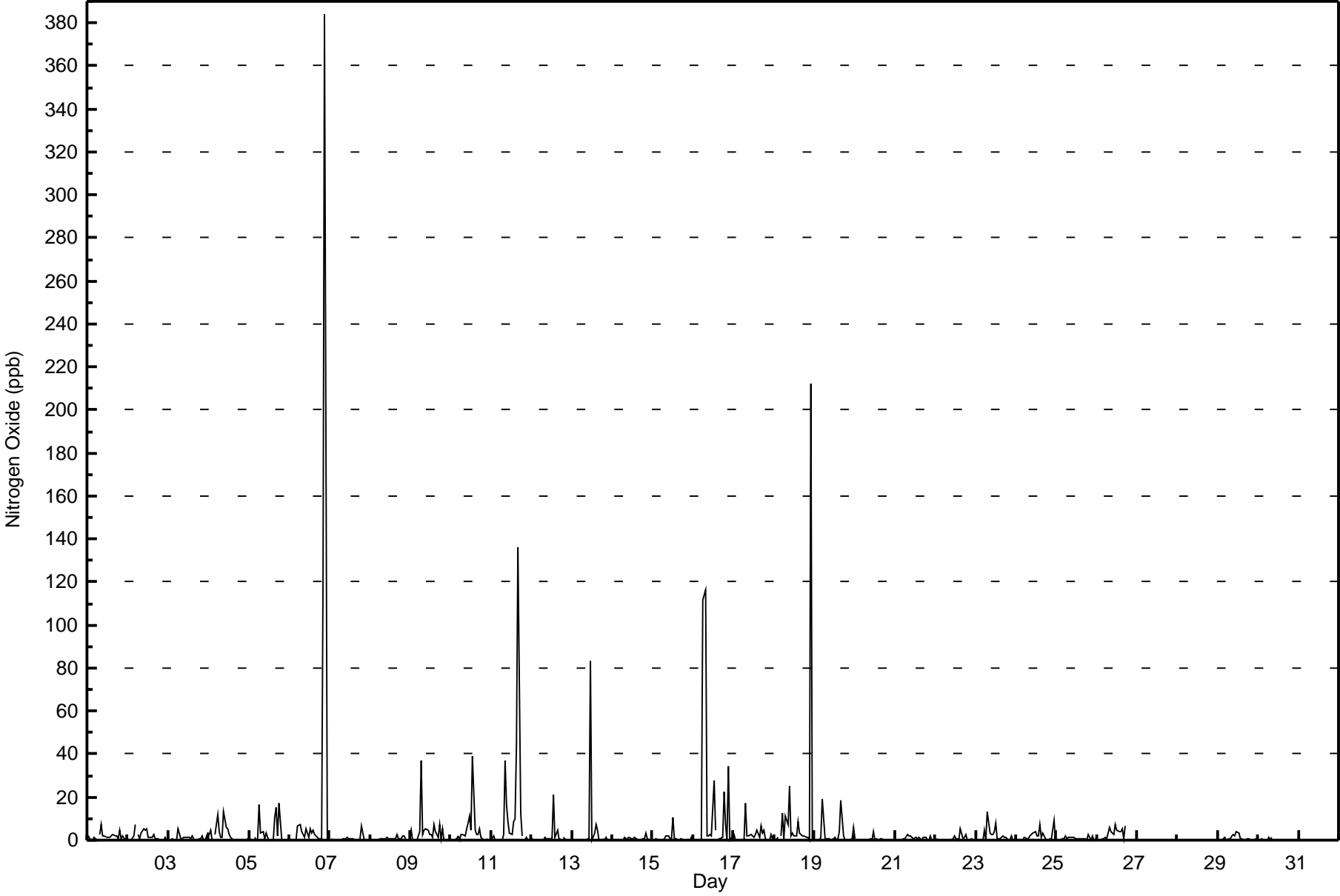
**Portable-Spirit River - Nitrogen Oxide (NO) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 384.0 ppb on Mar 6 22:00	Maximum Daily Average: 24.4 ppb on Mar 6	Hours in Service: 711
Minimum Value: 0 ppb on Mar 9 03:00	Minimum Daily Average: 0.4 ppb on Mar 20	Hours of Data: 623
Maximum Diurnal Average: 18.0 ppb at hour 22	Minimum Diurnal Average: 0.3 ppb at hour 3	Hours of Missing Data: 88
Monthly Average: 4.00 ppb	Percentiles: P ₁ = 0.0 P ₁₀ = 0.1 Q ₁ = 0.2 Median = 0.6 Q ₃ = 2.2 P ₉₀ = 5.2 P ₉₉ = 108.0	Hours of Calibration: 33
		Percent Operational Time: 92.3

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-Mar	2	1	0	0	1	0	A	2	7	2	2	1	1	1	2	3	2	2	1	5	0	2	0	1	1.7	7.2
2-Mar	0	0	0	2	7	A	2	1	4	5	5	5	1	1	2	2	1	1	1	0	0	0	2	0	1.9	7.5
3-Mar	0	0	1	0	A	0	5	1	1	1	1	1	1	1	2	1	0	0	0	1	2	0	0	3	1.1	5.3
4-Mar	2	4	0	A	3	12	4	1	1	13	6	5	3	1	0	0	0	0	0	0	0	0	0	1	2.6	13.1
5-Mar	1	1	A	1	0	0	16	3	4	1	3	1	0	0	0	11	15	2	17	0	0	0	0	0	3.4	17.0
6-Mar	1	A	0	0	0	6	7	4	3	1	5	2	5	3	5	2	2	1	0	1	123	384	0	4	24.4	384.0
7-Mar	A	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	6	0	0	0	A	0.6	6.3
8-Mar	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	3	1	0	2	2	1	A	0	0.7	2.6
9-Mar	5	0	0	0	0	4	37	3	5	5	5	3	3	2	7	4	1	7	0	5	0	A	0	0	4.2	37.1
10-Mar	0	0	0	0	2	0	3	3	2	5	8	11	5	39	5	3	3	5	1	0	A	1	0	0	4.2	38.7
11-Mar	0	2	0	0	0	0	0	2	37	17	9	3	3	8	10	44	136	13	2	A	0	2	0	0	12.6	136.3
12-Mar	1	0	0	0	0	0	0	0	1	1	1	0	1	21	1	4	0	0	A	1	0	0	0	0	1.5	21.3
13-Mar	0	0	0	0	0	0	0	0	0	0	0	83	0	3	8	5	0	A	1	0	1	0	0	0	4.5	83.1
14-Mar	0	0	0	0	0	0	0	1	0	1	1	1	0	1	1	1	A	1	1	0	3	0	0	0	0.7	3.4
15-Mar	0	0	1	0	0	0	0	0	2	2	1	1	11	1	1	A	0	0	0	0	0	0	0	1	1.0	10.8
16-Mar	0	0	0	0	0	1	112	116	2	2	3	2	28	5	A	1	1	1	22	7	0	34	0	2	14.8	116.4
17-Mar	3	0	0	0	0	0	0	17	2	2	3	2	2	3	5	1	7	4	5	0	0	0	3	0	2.4	17.1
18-Mar	0	0	1	A	2	13	1	11	7	25	2	3	2	2	8	3	3	2	2	1	1	0	212	0	13.2	212.4
19-Mar	0	0	A	0	2	19	1	1	0	1	0	1	1	0	1	4	18	2	0	0	0	0	1	6	2.5	19.0
20-Mar	1	A	0	0	0	0	0	0	0	1	0	4	0	1	0	0	1	0	0	0	0	0	0	0	0.4	4.1
21-Mar	0	0	0	A	0	1	0	2	2	2	1	1	1	1	1	1	0	2	1	0	0	2	0	0	0.8	2.4
22-Mar	0	1	A	0	0	0	0	0	0	0	1	2	0	0	0	5	0	1	3	0	0	0	0	0	0.7	5.2
23-Mar	0	A	0	0	0	5	0	13	3	3	3	4	8	0	1	1	2	1	1	0	0	2	0	0	2.1	13.0
24-Mar	0	0	0	A	0	2	0	0	2	2	4	4	2	2	7	1	4	0	0	0	1	0	9	0	1.8	9.0
25-Mar	0	0	A	0	1	2	1	1	1	2	1	1	1	1	1	1	1	1	0	3	0	2	0	0	0.8	2.7
26-Mar	1	A	0	0	0	1	1	6	4	4	3	7	5	4	4	5	1	7	D	D	D	D	D	D	--	7.2
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
29-Mar	D	0	0	1	1	0	1	1	2	2	2	4	3	1	1	0	0	1	0	0	0	A	1	0	1.0	4.1
30-Mar	0	0	1	0	0	0	1	0	2	C	C	C	C	C	C	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	1.6
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--
	0.7	0.5	0.3	0.3	0.9	2.5	7.2	6.9	3.4	3.8	2.6	5.7	3.3	3.8	2.8	4.0	7.8	2.2	2.5	1.4	5.5	18.0	9.2	0.9	Diurnal Average	
	4.5	4.4	1.3	1.9	7.5	19.0	111.5	116.4	37.2	25.2	8.7	83.1	28.1	38.7	10.1	44.1	136.3	12.9	22.2	7.3	122.8	384.0	212.4	6.2	Diurnal Maximum	

C - Calibration D - DAS Failure NS - Not in service A - Automated Daily Zero Span

Hourly Maximums for NO at Portable-Spirit River March 2009



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

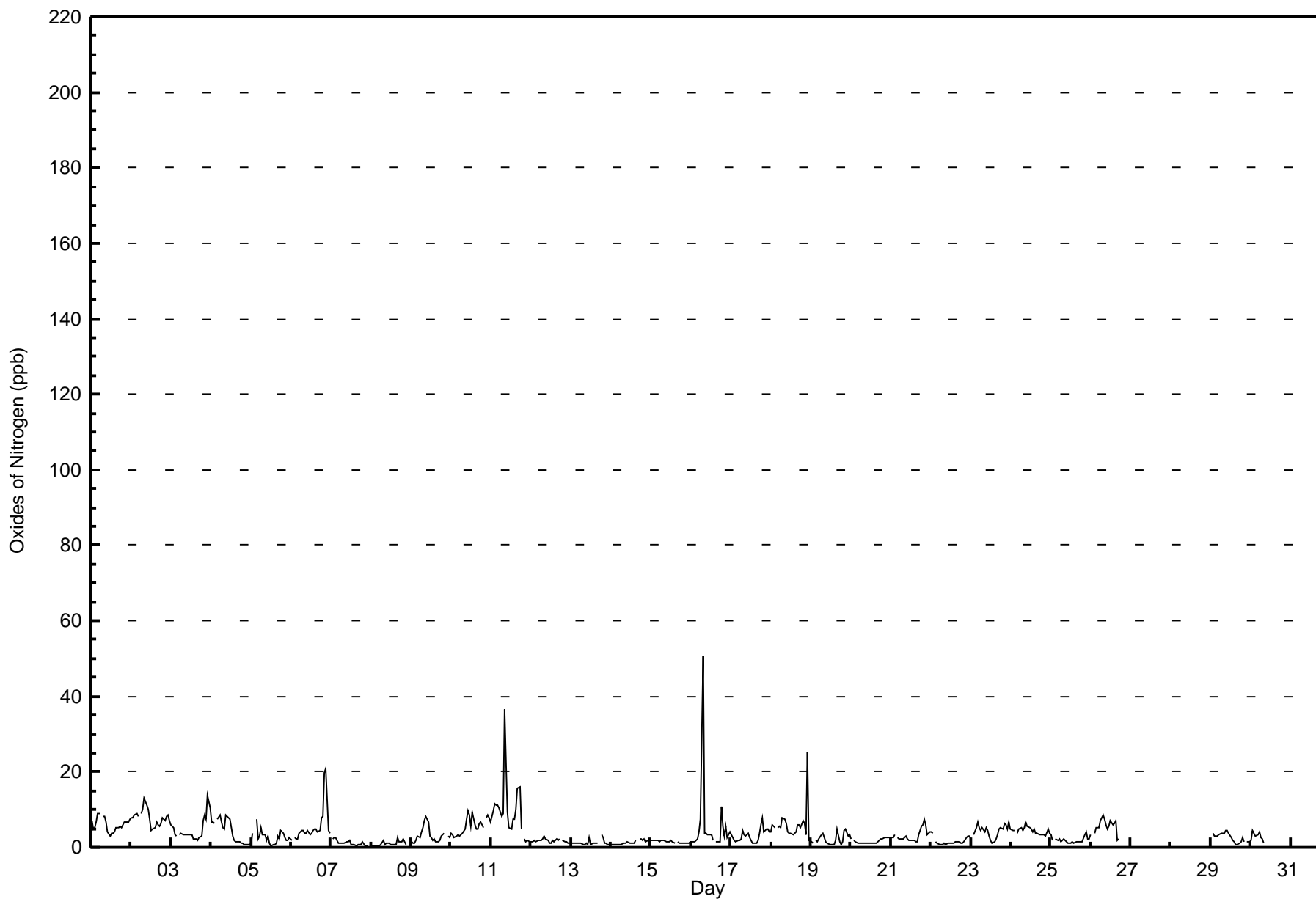
**Portable-Spirit River - Oxides of Nitrogen (NO_x) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 50.7 ppb on Mar 16 08:00	Maximum Daily Average: 9.8 ppb on Mar 11	Hours in Service: 711
Minimum Value: 0 ppb on Mar 7 21:00	Minimum Daily Average: 1.0 ppb on Mar 8	Hours of Data: 623
Maximum Diurnal Average: 5.6 ppb at hour 8	Minimum Diurnal Average: 2.5 ppb at hour 15	Hours of Missing Data: 88
Monthly Average: 3.65 ppb	Percentiles: P ₁ = 0.5 P ₁₀ = 1.0 Q ₁ = 1.4 Median = 2.7 Q ₃ = 4.9 P ₉₀ = 7.4 P ₉₉ = 19.0	Hours of Calibration: 33
		Percent Operational Time: 92.3

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-Mar	7	5	5	7	9	9	A	8	8	7	4	3	4	4	4	5	5	6	5	6	7	7	7	7	6.1	9.0																						
2-Mar	8	8	8	9	8	A	9	10	13	11	10	8	5	5	5	7	6	6	6	8	7	8	8	7	7.8	13.2																						
3-Mar	6	5	3	3	A	3	4	3	3	3	3	3	2	2	2	2	3	3	7	8	7	14	10	4.6	13.7																							
4-Mar	7	7	6	A	7	9	7	5	5	9	8	7	5	3	2	2	1	1	1	1	1	1	1	1	4.2	8.7																						
5-Mar	1	4	A	8	2	3	5	3	3	2	3	1	1	1	1	3	2	4	4	3	2	2	3	2.6	7.5																							
6-Mar	2	A	3	2	2	4	5	4	4	4	4	3	4	4	5	5	4	4	8	8	20	21	4	5.6	20.8																							
7-Mar	A	2	3	3	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	2	0	1	0	A	1.1	2.6																						
8-Mar	1	0	0	0	1	1	1	2	1	1	1	1	1	1	1	1	3	1	2	2	1	1	A	1	1.0	2.7																						
9-Mar	2	1	1	2	3	3	4	5	7	8	7	3	3	2	2	1	2	2	3	3	4	A	3	3	3.1	8.3																						
10-Mar	4	4	3	3	3	3	3	4	5	8	10	9	6	9	6	5	5	6	7	5	A	8	9	8	5.7	9.5																						
11-Mar	7	10	12	11	11	11	8	9	36	23	9	5	5	8	7	10	16	16	5	A	2	2	2	1	9.8	36.5																						
12-Mar	2	2	2	2	2	2	2	2	3	2	2	1	1	2	1	2	2	2	A	2	2	1	1	1	1.7	2.9																						
13-Mar	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	A	3	3	1	1	1	1	1.2	3.2																						
14-Mar	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	A	2	2	2	2	2	2	2	1.3	2.3																						
15-Mar	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	A	2	1	1	1	1	1	1	1	1.5	2.0																						
16-Mar	1	2	1	2	2	4	7	51	4	4	3	3	3	2	A	1	1	1	11	6	3	6	3	4	5.5	50.7																						
17-Mar	3	3	2	2	2	2	2	5	3	3	4	3	2	1	1	1	2	4	6	8	4	5	5	4	3.1	7.7																						
18-Mar	4	6	5	A	5	5	5	8	7	6	4	4	4	3	4	4	6	6	5	7	6	3	25	2	5.9	25.4																						
19-Mar	1	1	A	2	1	2	3	4	2	1	1	1	1	1	1	2	5	1	1	1	5	5	3	3	2.2	4.9																						
20-Mar	2	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	3	3	2	1.6	2.5																						
21-Mar	3	3	3	A	2	2	2	2	3	2	2	2	2	2	2	2	2	3	6	6	7	6	3	4	3.1	7.3																						
22-Mar	4	4	A	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	1.6	4.0																						
23-Mar	2	A	3	5	7	5	5	5	4	5	4	3	2	1	1	2	4	5	5	5	6	6	5	7	4.3	6.9																						
24-Mar	5	5	5	A	4	5	5	4	5	7	5	5	5	4	5	4	4	3	3	3	3	3	5	4	4.4	6.6																						
25-Mar	3	2	A	2	2	2	1	2	2	2	1	1	1	1	1	1	2	2	2	1	3	4	2	2	1.9	3.9																						
26-Mar	3	A	4	5	5	5	7	8	7	6	5	6	7	6	6	7	2	2	D	D	D	D	D	D	--	8.4																						
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--																						
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--																						
29-Mar	D	4	3	3	3	3	4	4	4	4	4	3	2	2	1	1	1	2	3	2	A	2	1	2.6	4.3																							
30-Mar	2	4	4	3	3	4	3	2	1	C	C	C	C	C	C	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	4.4																						
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--																						
																								3.2	3.5	3.4	3.3	3.4	3.5	3.7	5.6	5.0	4.7	3.8	3.2	2.7	2.6	2.5	2.8	3.1	3.3	3.8	3.9	4.1	4.3	4.5	3.5	Diurnal Average
																								8.0	9.7	11.7	11.2	11.3	10.5	8.9	50.7	36.5	22.9	10.1	8.7	7.2	9.3	7.3	10.2	15.6	16.1	10.7	8.3	19.8	20.8	25.4	10.4	Diurnal Maximum

C - Calibration D - DAS Failure NS - Not in service A - Automated Daily Zero Span

Hourly Averages for NO_x at Portable-Spirit River March 2009



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

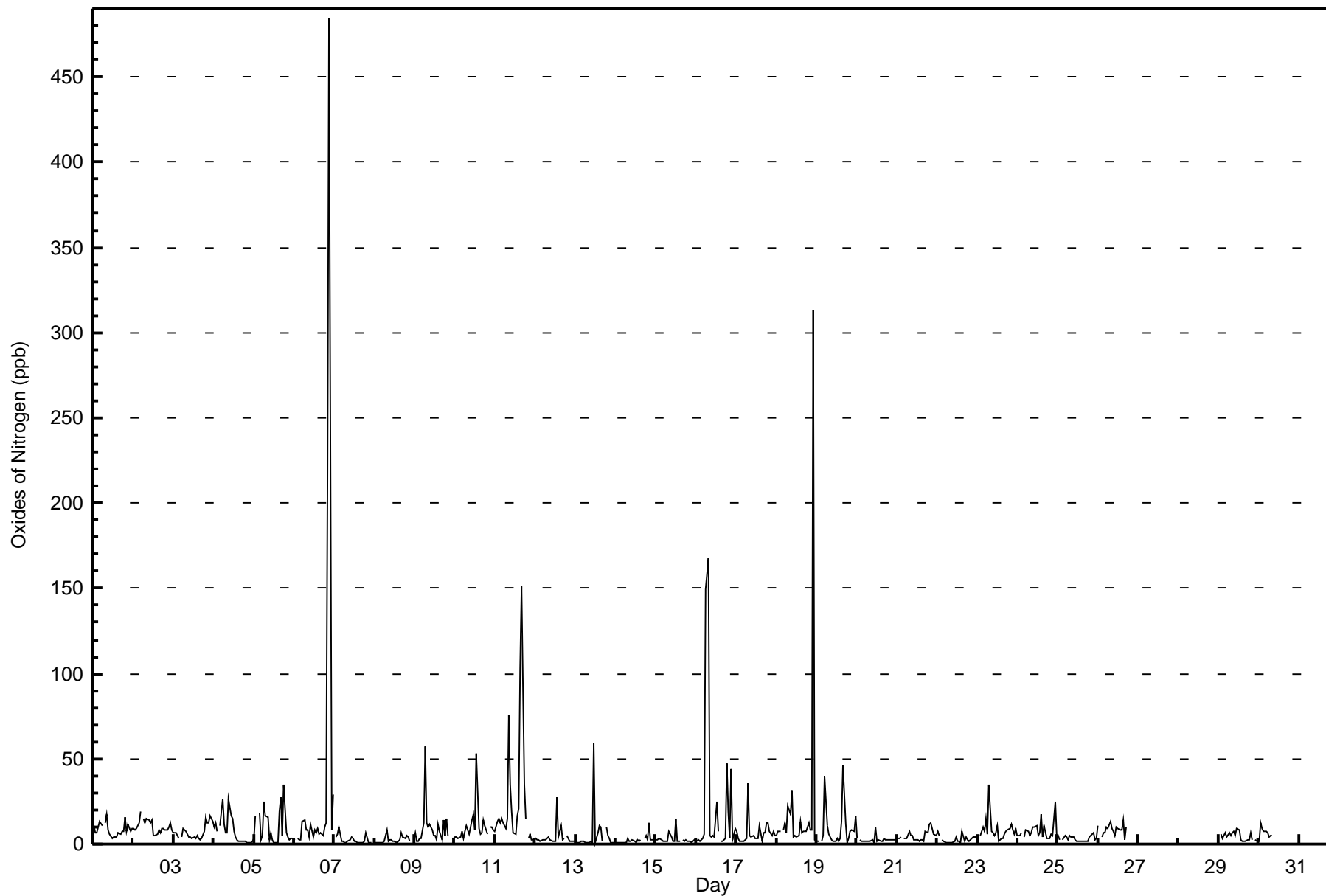
**Portable-Spirit River - Oxides of Nitrogen (NO_x) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 484.5 ppb on Mar 6 22:00	Maximum Daily Average: 38.3 ppb on Mar 6	Hours in Service: 711
Minimum Value: 1 ppb on Mar 8 02:00	Minimum Daily Average: 2.4 ppb on Mar 14	Hours of Data: 623
Maximum Diurnal Average: 27.0 ppb at hour 22	Minimum Diurnal Average: 4.6 ppb at hour 3	Hours of Missing Data: 88
Monthly Average: 9.21 ppb	Percentiles: P ₁ = 0.7 P ₁₀ = 1.3 Q ₁ = 2.2 Median = 4.6 Q ₃ = 8.5 P ₉₀ = 13.9 P ₉₉ = 148.0	Hours of Calibration: 33
		Percent Operational Time: 92.3

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-Mar	11	6	7	10	13	11	A	12	18	8	6	4	4	4	5	6	6	7	8	16	8	11	8	9	8.6	17.6	
2-Mar	9	8	9	12	19	A	15	13	15	14	12	14	5	5	6	8	7	9	9	8	8	10	13	8	10.3	18.9	
3-Mar	7	7	5	4	A	4	9	8	6	4	4	4	3	5	3	2	3	7	16	13	12	17	13	6.9	16.7		
4-Mar	10	12	7	A	11	27	12	7	7	27	17	15	8	4	2	2	2	2	2	2	1	1	1	2	7.7	27.0	
5-Mar	3	16	A	18	3	5	25	17	16	2	7	3	1	1	1	19	28	5	35	6	4	3	3	3	9.8	35.2	
6-Mar	3	A	3	3	3	13	14	9	8	5	11	4	8	7	10	6	6	5	10	13	219	484	8	29	38.3	484.5	
7-Mar	A	4	6	10	1	1	1	1	2	2	4	3	2	1	1	1	1	1	2	7	1	1	1	A	2.4	9.8	
8-Mar	1	1	1	1	1	1	2	9	2	3	2	2	1	1	1	2	7	4	3	5	4	2	A	2	2.5	8.6	
9-Mar	6	2	1	3	4	12	57	13	10	11	9	5	5	2	12	8	2	14	5	15	5	A	4	3	9.0	57.1	
10-Mar	4	4	3	4	7	4	7	10	6	10	14	17	8	53	9	6	7	14	11	6	A	10	10	9	10.1	53.0	
11-Mar	8	14	15	12	15	12	9	15	75	35	19	7	6	17	21	103	151	35	15	A	3	6	3	2	25.9	151.2	
12-Mar	3	2	2	2	2	2	3	3	4	3	2	2	2	27	5	11	2	3	A	5	2	2	1	1	4.0	27.3	
13-Mar	1	1	1	1	1	2	1	1	1	2	1	59	1	7	11	10	2	A	10	5	3	1	1	1	5.4	59.4	
14-Mar	1	1	1	1	1	1	1	3	2	2	3	1	1	3	2	2	A	4	5	3	13	2	2	2	2.4	12.9	
15-Mar	2	2	3	2	2	2	2	2	8	4	2	2	15	2	2	A	2	1	2	1	1	1	1	2	2.8	15.0	
16-Mar	2	2	2	2	3	6	149	168	5	4	5	4	25	7	A	2	2	3	48	19	4	44	3	9	22.6	168.1	
17-Mar	7	3	2	2	2	2	3	36	5	4	5	3	3	3	11	2	6	7	12	12	8	5	8	5	6.6	36.1	
18-Mar	5	7	7	A	8	12	6	22	18	31	4	5	4	5	13	7	8	7	7	12	8	8	313	2	22.7	312.8	
19-Mar	2	1	A	2	5	40	11	6	4	2	1	2	3	2	3	13	46	12	1	3	8	9	8	17	8.7	46.2	
20-Mar	3	A	3	2	1	1	1	1	1	2	1	10	1	2	1	2	3	2	2	3	3	3	3	3	2.4	10.4	
21-Mar	3	3	4	A	3	3	3	8	5	5	3	2	2	2	3	3	2	7	7	11	12	9	6	5	4.8	12.2	
22-Mar	7	5	A	2	1	1	1	1	1	1	4	1	1	1	8	2	4	2	2	2	2	4	4	4	2.7	7.9	
23-Mar	3	A	5	10	8	15	6	35	7	7	5	7	11	1	4	4	6	8	8	9	12	8	6	10	8.4	35.1	
24-Mar	5	5	7	A	4	8	7	5	7	10	10	11	5	7	17	4	11	3	3	3	5	5	25	4	7.5	25.2	
25-Mar	5	2	A	3	5	4	2	5	4	4	3	2	2	2	1	2	2	2	2	4	6	7	2	3	3.2	6.6	
26-Mar	11	A	5	7	6	10	9	13	9	8	5	10	9	9	8	14	3	10	D	D	D	D	D	D	--	14.3	
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
29-Mar	D	5	4	5	7	4	7	5	7	8	5	9	9	3	2	1	2	2	2	7	3	A	2	2	4.5	8.9	
30-Mar	2	12	9	8	7	7	4	5	5	C	C	C	C	C	C	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	12.3	
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	
	4.8	5.3	4.6	5.2	5.4	7.8	13.7	15.4	9.2	8.0	6.0	7.8	5.4	6.7	6.0	9.6	12.2	6.7	8.8	7.8	14.2	27.0	18.0	6.1	Diurnal Average		
	11.0	16.2	14.8	18.3	18.9	39.9	149.4	168.1	75.3	34.6	18.7	59.4	25.0	53.0	20.7	102.6	151.2	35.1	47.5	18.9	219.0	484.5	312.8	29.2	Diurnal Maximum		

C - Calibration D - DAS Failure NS - Not in service A - Automated Daily Zero Span

Hourly Maximums for NO_x at Portable-Spirit River March 2009



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

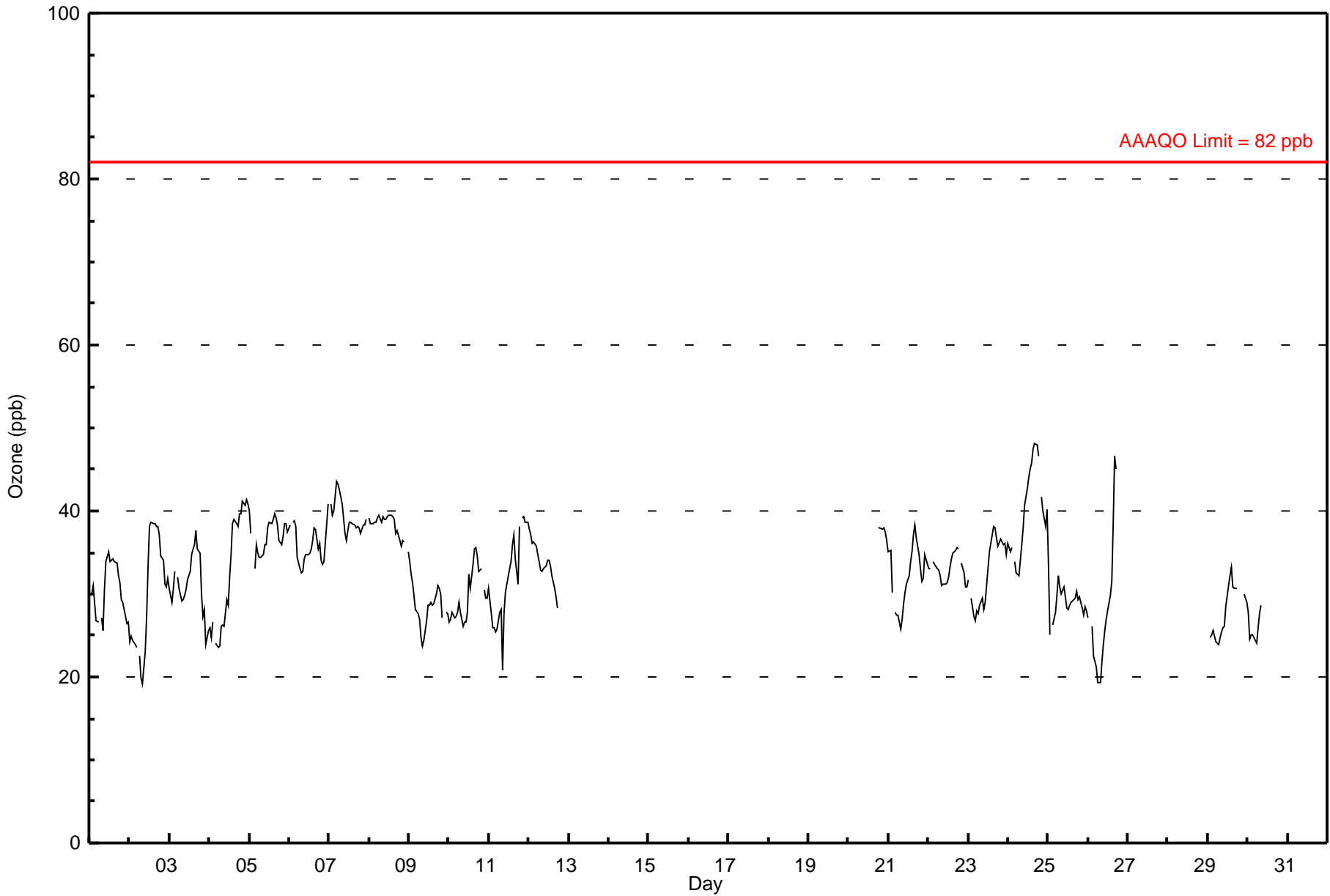
**Portable-Spirit River - Ozone (O₃) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 711
Maximum Value: 48.1 ppb on Mar 24 17:00	Maximum Daily Average: 40.1 ppb on Mar 24
Minimum Value: 19 ppb on Mar 2 09:00	Hours of Data: 435
Maximum Diurnal Average: 36.8 ppb at hour 17	Hours of Missing Data: 276
Monthly Average: 32.70 ppb	Hours of Calibration: 32
Minimum Daily Average: 27.7 ppb on Mar 29	Percent Operational Time: 65.7
Minimum Diurnal Average: 29.0 ppb at hour 9	
Percentiles: P ₁ = 20.8 P ₁₀ = 25.7 Q ₁ = 28.4 Median = 33.0 Q ₃ = 37.1 P ₉₀ = 39.0 P ₉₉ = 45.9	

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-Mar	30	30	31	29	27	27	A	27	26	31	34	35	34	34	34	34	34	32	31	29	29	28	26	27	30.4	35.0
2-Mar	24	25	24	24	24	A	23	20	19	23	27	33	38	39	38	38	38	38	37	35	34	31	31	32	30.3	38.6
3-Mar	31	29	31	33	A	32	31	29	29	30	31	32	33	35	35	36	38	35	35	30	27	28	24	26	31.2	37.6
4-Mar	26	25	27	A	24	24	24	26	26	26	29	29	32	35	38	39	38	38	40	40	41	41	41	41	32.6	41.3
5-Mar	40	37	A	33	36	35	34	34	35	36	36	38	39	38	39	40	39	38	36	36	37	38	38	37	37.0	39.9
6-Mar	38	A	39	39	38	34	33	33	33	34	35	35	35	35	36	38	38	35	36	34	34	34	38	41	35.9	40.8
7-Mar	A	41	39	40	44	43	43	42	41	37	36	38	39	39	38	38	38	38	38	37	38	38	39	A	39.3	43.6
8-Mar	39	38	39	39	39	39	39	39	39	39	39	39	40	40	39	39	37	38	36	36	36	36	A	35	38.3	39.5
9-Mar	34	32	31	30	28	28	27	25	24	24	27	29	29	29	29	29	30	31	31	30	27	A	28	28	28.6	34.0
10-Mar	27	27	28	27	27	28	29	28	26	27	27	28	32	31	34	35	36	35	33	33	A	31	29	29	29.8	35.6
11-Mar	31	28	26	26	25	26	28	28	21	28	30	31	33	34	36	37	34	31	38	A	39	39	39	39	31.6	39.4
12-Mar	38	37	36	36	36	35	34	33	33	33	33	34	34	33	32	31	30	28	A	N	N	N	N	N	33.7	37.7
13-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
14-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
15-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
16-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
17-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
18-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
19-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
20-Mar	N	N	N	N	N	N	N	N	N	N	C	C	C	C	C	A	39	N	38	38	38	38	38	36	--	39.4
21-Mar	35	35	30	A	28	27	27	26	27	29	30	31	32	34	35	37	38	37	35	33	32	32	35	33	32.1	38.2
22-Mar	33	33	A	34	34	33	33	32	31	31	31	31	32	33	34	35	35	36	35	N	34	33	31	31	33.0	35.6
23-Mar	32	A	29	27	27	28	28	29	30	28	29	31	33	35	37	38	38	37	36	37	36	36	36	35	32.6	38.2
24-Mar	36	35	36	A	34	33	32	34	36	38	41	43	44	45	46	47	48	48	47	N	42	40	38	40	40.1	48.1
25-Mar	34	25	A	26	28	30	32	31	30	31	30	28	28	29	29	29	30	29	30	28	27	28	28	28	29.1	33.6
26-Mar	27	A	26	23	22	21	19	19	22	24	26	27	28	30	31	38	47	45	D	D	D	D	D	D	--	46.5
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
29-Mar	D	25	25	26	25	24	24	25	25	26	26	29	31	32	33	31	31	31	N	N	N	A	30	29	27.7	33.2
30-Mar	28	25	25	25	24	24	26	28	29	C	C	C	C	C	C	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	28.6
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--
32.3 31.0 30.7 30.4 29.9 30.0 29.8 29.3 29.0 30.2 31.4 32.6 34.0 34.7 35.6 36.3 36.8 35.9 35.9 34.1 34.5 34.4 33.5 33.3																								Diurnal Average		
39.9 40.8 39.5 40.1 43.6 43.2 42.6 41.7 40.8 39.0 40.8 42.6 44.1 45.0 45.7 47.5 48.1 47.9 46.6 39.7 41.6 40.7 41.3 40.9																								Diurnal Maximum		

C - Calibration D - DAS Failure N - Not Valid NS - Not in service A - Automated Daily Zero Span
 Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 82 ppb 24-hr na

Hourly Averages for O₃ at Portable-Spirit River March 2009



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

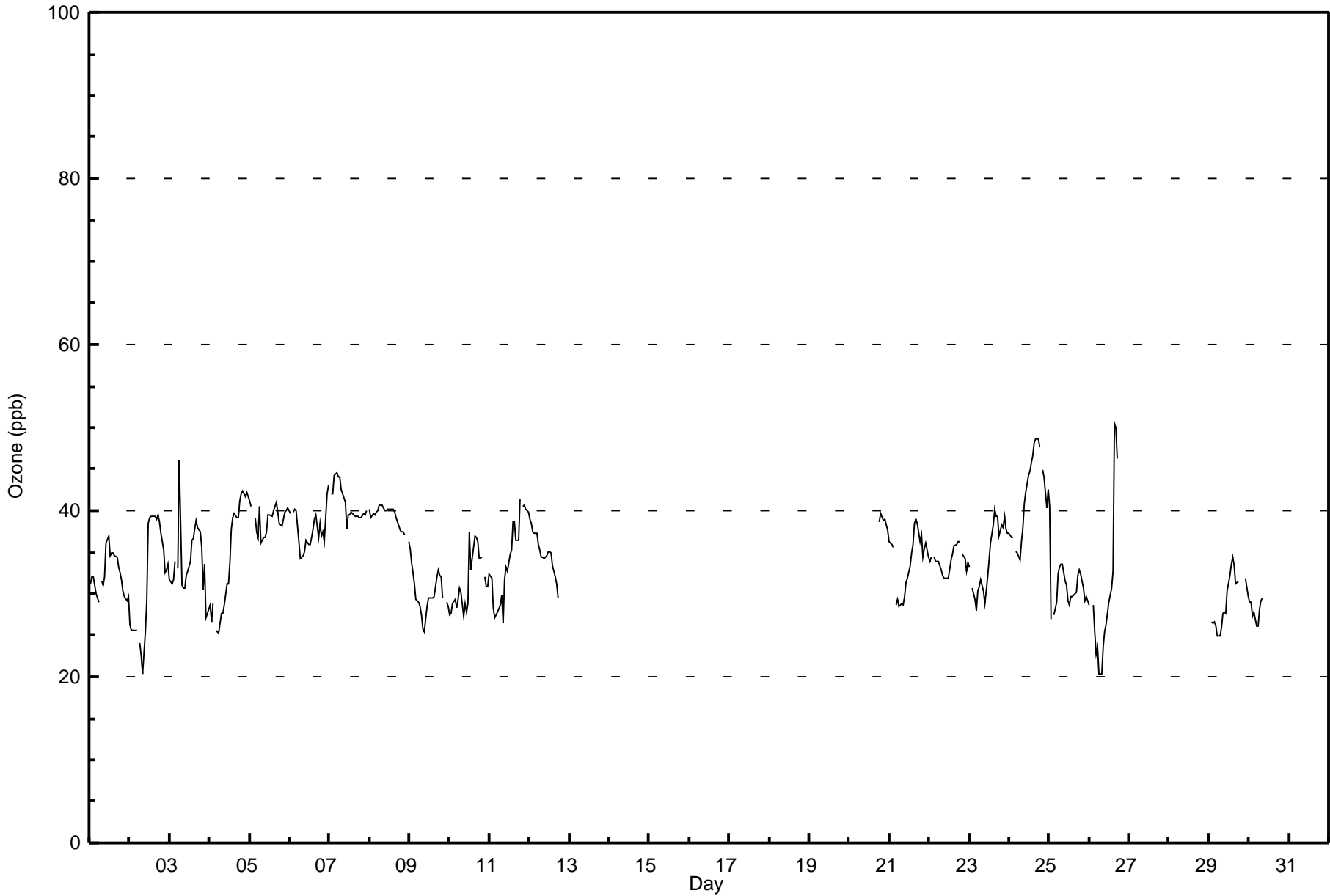
**Portable-Spirit River - Ozone (O₃) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 50.5 ppb on Mar 26 16:00	Maximum Daily Average: 41.8 ppb on Mar 24	Hours in Service: 711
Minimum Value: 20 ppb on Mar 26 07:00	Minimum Daily Average: 29.1 ppb on Mar 29	Hours of Data: 435
Maximum Diurnal Average: 38.1 ppb at hour 16	Minimum Diurnal Average: 31.0 ppb at hour 9	Hours of Missing Data: 276
Monthly Average: 34.41 ppb	Percentiles: P ₁ = 22.6 P ₁₀ = 27.6 Q ₁ = 30.0 Median = 34.4 Q ₃ = 38.9 P ₉₀ = 40.5 P ₉₉ = 48.6	Hours of Calibration: 32
		Percent Operational Time: 65.7

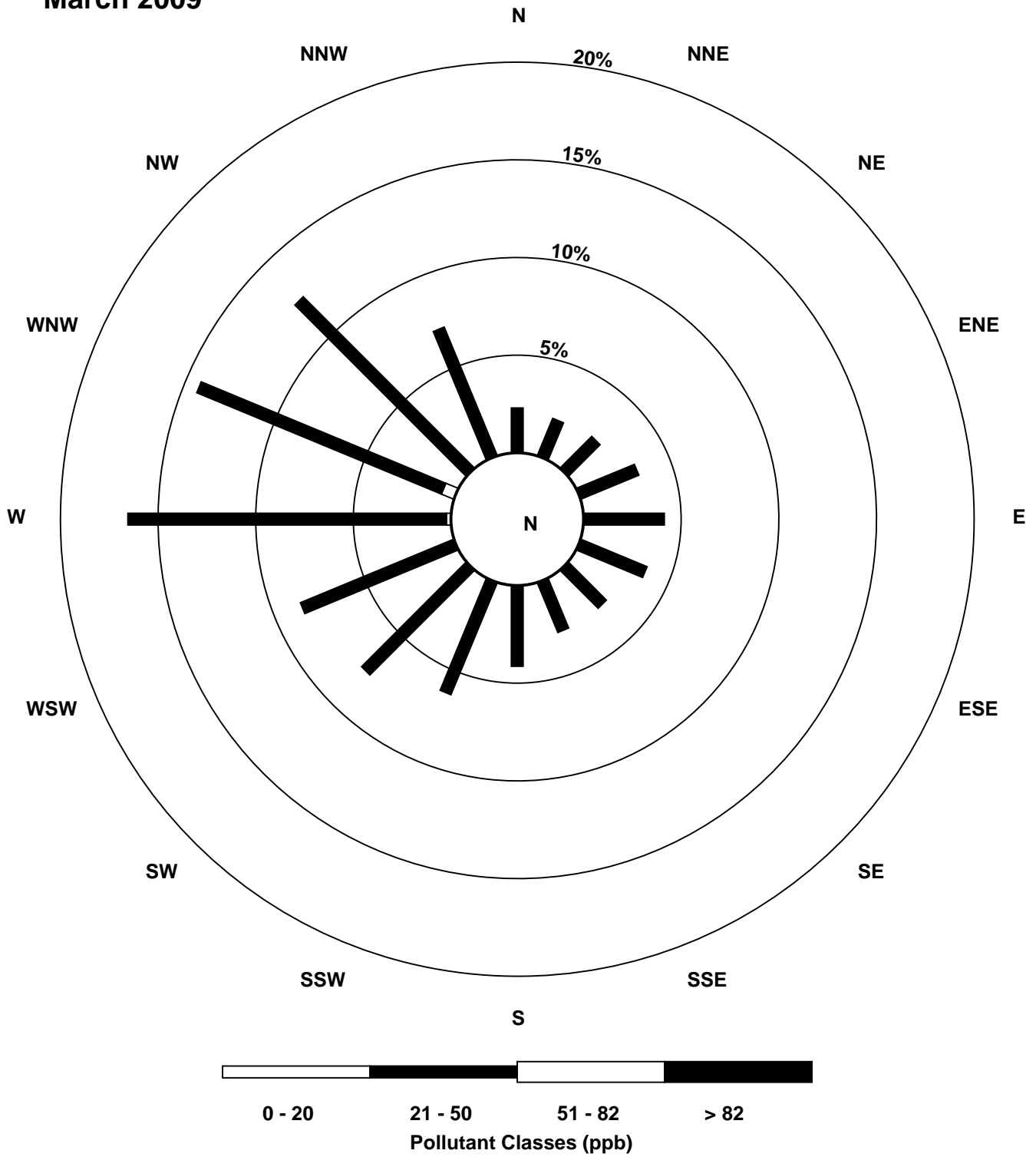
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Mar	31	32	32	31	30	29	A	32	31	32	36	37	35	35	35	35	34	33	33	32	30	30	29	30	32.3	36.9
2-Mar	26	26	26	26	26	A	24	22	20	25	29	38	39	39	39	39	39	39	39	37	35	33	33	34	31.9	39.5
3-Mar	32	31	32	34	A	33	46	31	31	31	32	33	34	36	37	38	39	38	38	36	31	34	27	28	33.9	46.1
4-Mar	29	27	29	A	26	25	26	28	28	29	31	31	34	38	39	40	39	39	41	42	42	42	42	42	34.2	42.4
5-Mar	41	41	A	39	38	37	41	36	37	37	38	39	40	39	40	41	41	40	38	38	39	40	40	40	39.1	41.2
6-Mar	40	A	40	40	40	38	34	34	35	35	37	36	36	37	38	39	40	37	39	37	37	36	42	43	37.7	43.0
7-Mar	A	42	42	44	45	44	44	43	42	41	38	39	40	40	40	39	39	39	39	39	40	39	40	A	40.8	44.6
8-Mar	40	39	40	39	40	40	41	41	40	40	40	40	40	40	40	39	39	38	38	37	37	A	36	39.3	40.7	
9-Mar	35	34	33	31	29	29	29	28	26	25	29	30	29	30	30	30	32	33	32	32	30	A	29	28	30.0	35.5
10-Mar	27	28	29	29	28	29	31	30	27	29	28	29	37	33	36	37	37	36	34	34	A	32	31	31	31.4	37.4
11-Mar	32	32	28	27	27	28	29	30	26	32	33	33	35	35	39	39	36	36	41	A	40	41	40	40	33.9	41.4
12-Mar	39	38	37	37	37	36	35	34	34	34	35	35	35	35	33	32	31	30	A	N	N	N	N	N	35.0	39.1
13-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
14-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
15-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
16-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
17-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
18-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
19-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
20-Mar	N	N	N	N	N	N	N	N	N	N	C	C	C	C	C	A	41	N	39	40	39	39	38	38	--	40.7
21-Mar	36	36	36	A	29	29	28	29	29	30	31	32	33	35	36	38	39	38	36	37	34	35	36	34	33.8	38.9
22-Mar	34	34	A	34	34	34	33	33	32	32	32	33	34	35	36	36	36	36	N	37	35	34	33	34	33.9	36.3
23-Mar	33	A	31	29	28	30	31	32	30	29	30	32	34	36	38	40	39	39	37	38	38	39	38	37	34.4	40.2
24-Mar	37	37	37	A	35	35	34	36	38	41	42	44	45	46	47	48	49	49	48	N	45	44	40	43	41.8	48.7
25-Mar	41	27	A	28	29	32	33	34	34	32	31	29	29	30	30	30	30	32	33	32	31	29	30	29	31.0	40.6
26-Mar	29	A	29	25	23	24	20	20	24	25	26	28	29	31	33	50	50	46	D	D	D	D	D	D	--	50.5
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
29-Mar	D	27	26	27	26	25	25	26	28	28	28	30	32	34	34	33	31	32	N	N	N	A	32	30	29.1	34.4
30-Mar	29	29	27	28	26	26	28	29	30	C	C	C	C	C	C	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	29.6
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--
	34.0	32.9	32.5	32.3	31.3	31.8	32.2	31.3	31.0	31.9	32.9	34.1	35.2	35.9	36.7	38.1	38.1	37.5	37.7	36.6	36.5	36.5	35.3	35.1	Diurnal Average	
	41.2	42.1	42.1	44.3	44.6	44.1	46.1	42.6	42.0	41.1	42.2	44.2	44.7	45.7	46.7	50.5	50.0	48.6	47.6	42.0	44.9	44.0	42.2	43.0	Diurnal Maximum	

C - Calibration D - DAS Failure N - Not Valid NS - Not in service A - Automated Daily Zero Span

Hourly Maximums for O₃ at Portable-Spirit River March 2009



Pollutant Rose for O₃ at Portable-Spirit River March 2009



**Peace Airshed Zone Association
Summary of Eight Hour Running Averages**

**Portable-Spirit River - Ozone (O₃) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedences (AAAQO): 8-hr: 0	Hours in Service: 718
Maximum Value: 46.4 ppb on Mar 24 20:00	Hours of Data: 448
Minimum Value: 21.7 ppb on Mar 26 09:00	Hours of Missing Data: 270
	Hours of Calibration: 22
	Percent Operational Time: 65.5
Percentiles: P ₁ = 22.5 P ₁₀ = 26.3 Q ₁ = 28.9 Median = 32.9 Q ₃ = 36.3 P ₉₀ = 38.6 P ₉₉ = 44.7	

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-Mar	31	31	30	30	29	29	29	29	28	28	28	29	30	31	32	33	34	34	34	33	32	31	31	30	33.9
2-Mar	28	28	27	26	25	25	24	23	23	22	23	24	26	28	30	32	34	36	38	38	37	36	35	34	37.7
3-Mar	34	32	32	31	31	31	31	31	31	31	31	30	31	31	32	33	34	34	35	35	34	33	32	30	34.8
4-Mar	29	28	27	26	26	25	25	25	25	25	26	26	27	28	30	32	33	35	36	38	39	39	40	40	40.0
5-Mar	40	40	40	39	38	38	37	36	35	35	35	36	36	36	37	38	38	38	38	38	38	38	38	38	40.2
6-Mar	38	37	38	38	38	38	37	36	35	35	35	34	34	34	34	35	36	36	36	36	36	36	36	36	38.3
7-Mar	36	37	37	38	40	41	42	42	42	41	41	40	40	39	39	38	38	38	38	38	38	38	38	38	41.6
8-Mar	38	38	38	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	38	38	37	37	39.2
9-Mar	36	35	34	34	32	31	31	29	28	27	27	26	26	27	27	27	28	29	29	30	29	29	29	29	36.0
10-Mar	29	28	28	27	27	27	28	28	27	27	27	27	28	28	29	30	31	32	33	33	34	34	33	32	33.6
11-Mar	31	30	30	29	28	28	27	27	26	26	26	27	28	29	30	31	33	33	34	35	36	36	37	37	37.1
12-Mar	38	38	38	38	37	37	36	36	35	34	34	34	34	33	33	33	32	32	32	31	N	N	N	N	38.4
13-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
14-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
15-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
16-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
17-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
18-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
19-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
20-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	38	38	38.1
21-Mar	37	37	36	36	34	33	31	30	29	28	28	28	29	30	31	32	33	34	35	35	35	35	35	34	37.3
22-Mar	34	33	33	33	33	34	33	33	33	32	32	32	32	32	32	32	33	33	34	34	35	35	34	33	34.6
23-Mar	33	32	32	31	30	29	29	28	28	28	28	29	29	30	31	33	34	35	36	36	37	37	37	36	36.8
24-Mar	36	36	36	36	35	35	34	34	34	35	35	36	38	39	41	42	44	45	46	46	46	45	44	43	46.4
25-Mar	41	38	36	35	33	32	31	29	29	30	30	30	30	30	29	29	29	29	29	29	29	29	29	29	41.1
26-Mar	29	28	28	27	26	25	24	22	22	22	22	22	23	24	26	28	31	34	35	37	N	N	N	N	36.6
27-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
28-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
29-Mar	N	N	N	N	N	25	25	25	25	25	25	25	26	27	28	29	30	30	31	31	N	N	N	N	31.5
30-Mar	N	N	N	27	27	26	26	26	26	26	26	N	N	N	N	N	N	N	N	N	N	N	N	N	26.9
31-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
	41.1	40.1	40.1	39.2	39.6	40.9	41.5	41.6	41.5	41.1	40.7	40.4	39.8	39.2	40.8	42.4	44.0	45.2	45.9	46.4	46.1	45.3	44.3	43.2	

N - Not Valid
 Alberta Ambient Air Quality Objectives (AAAQO): 8-hr 65 ppb

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

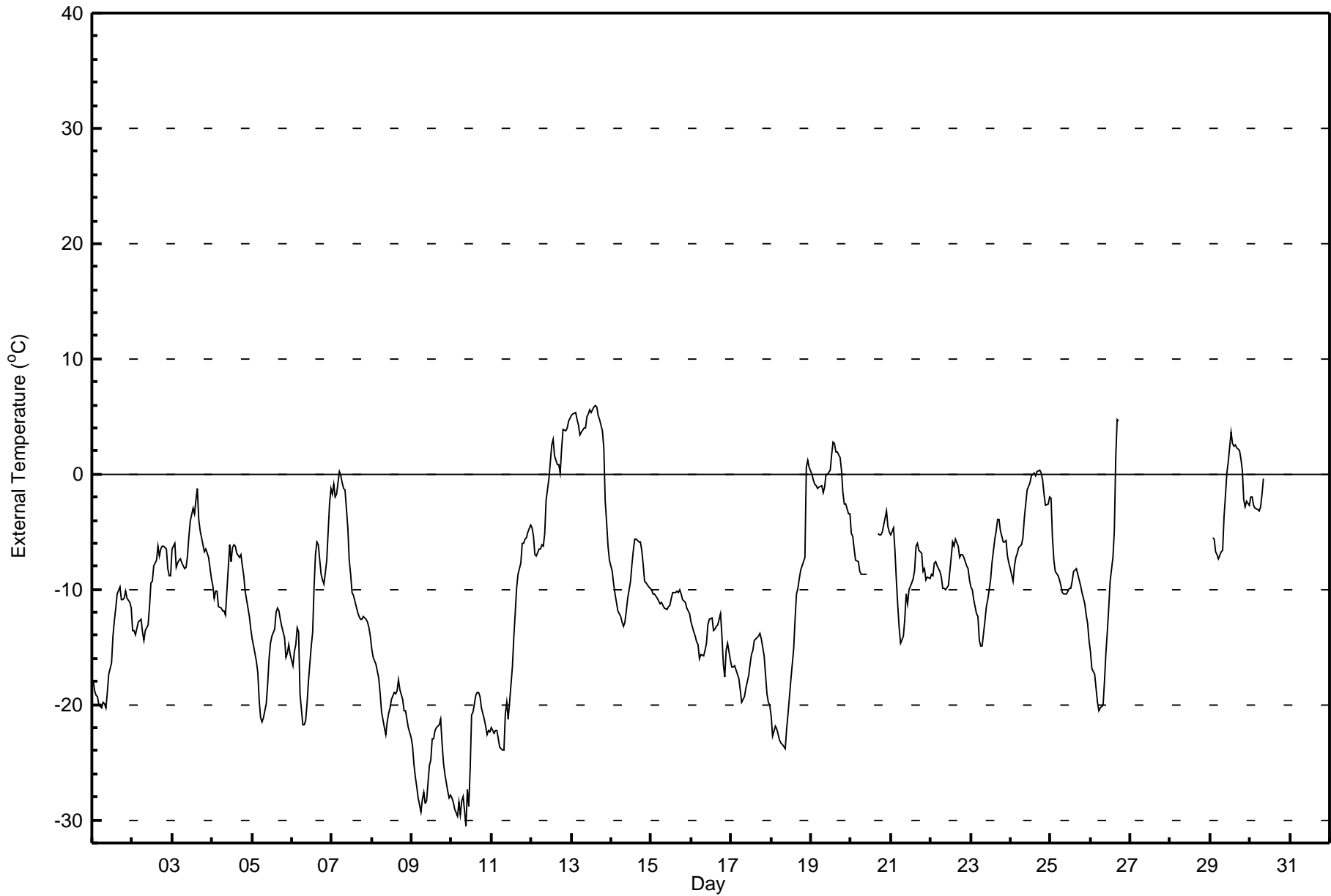
**Portable-Spirit River - External Temperature (ET) - °C
March 1, 2009 to April 1, 2009**

Maximum Value: 5.9 °C on Mar 13 15:00	Maximum Daily Average: 3.1 °C on Mar 13	Hours in Service: 705
Minimum Value: -30 °C on Mar 10 09:00	Minimum Daily Average: -25.6 °C on Mar 9	Hours of Data: 644
Maximum Diurnal Average: -7.2 °C at hour 17	Minimum Diurnal Average: -13.5 °C at hour 8	Hours of Missing Data: 61
Monthly Average: -10.50 °C	Percentiles: P ₁ = -28.6 P ₁₀ = -21.5 Q ₁ = -15.4 Median = -9.9 Q ₃ = -5.7 P ₉₀ = -0.1 P ₉₉ = 5.3	Hours of Calibration: 0
		Percent Operational Time: 91.4

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-Mar	-18	-19	-19	-19	-20	-20	-20	-20	-20	-19	-17	-16	-14	-13	-12	-10	-10	-11	-11	-11	-10	-11	-11	-12	-15.1	-9.7	
2-Mar	-14	-14	-14	-13	-13	-13	-14	-14	-14	-13	-12	-9	-9	-8	-7	-6	-7	-6	-6	-6	-6	-8	-9	-9	-10.2	-6.3	
3-Mar	-6	-6	-8	-8	-7	-7	-8	-8	-8	-7	-5	-4	-3	-4	-2	-1	-4	-5	-6	-7	-7	-7	-9	-6.0	-1.2		
4-Mar	-10	-11	-10	-10	-12	-12	-12	-12	-12	-10	-6	-8	-6	-6	-6	-7	-7	-7	-8	-9	-10	-12	-12	-13	-9.5	-6.1	
5-Mar	-14	-15	-16	-17	-20	-21	-22	-21	-20	-18	-16	-15	-14	-13	-12	-12	-12	-13	-13	-14	-16	-16	-15	-16	-15.8	-11.6	
6-Mar	-17	-15	-15	-13	-14	-19	-22	-22	-21	-20	-18	-15	-14	-10	-7	-6	-6	-9	-9	-10	-9	-7	-3	-1	-12.5	-1.2	
7-Mar	-2	-1	-2	-2	0	0	-1	-1	-1	-5	-7	-9	-10	-11	-11	-12	-12	-13	-13	-12	-13	-13	-13	-14	-7.4	0.2	
8-Mar	-15	-16	-17	-17	-18	-19	-21	-22	-23	-21	-21	-20	-20	-19	-19	-19	-18	-19	-20	-20	-21	-21	-22	-23	-19.5	-15.1	
9-Mar	-24	-25	-26	-27	-28	-29	-28	-28	-29	-28	-25	-25	-23	-23	-22	-22	-22	-21	-23	-25	-26	-28	-28	-28	-25.6	-21.2	
10-Mar	-28	-28	-29	-30	-28	-30	-28	-28	-30	-27	-29	-26	-21	-21	-19	-19	-19	-19	-20	-21	-22	-23	-22	-22	-24.6	-18.9	
11-Mar	-22	-23	-22	-22	-23	-24	-24	-24	-21	-20	-21	-20	-17	-14	-12	-10	-9	-8	-6	-6	-6	-6	-5	-4	-15.3	-4.5	
12-Mar	-5	-5	-7	-7	-7	-6	-6	-6	-5	-2	0	1	3	3	2	1	1	0	2	4	4	4	5	5	-1.0	4.8	
13-Mar	5	5	5	5	4	3	4	4	4	5	5	6	5	6	6	6	5	5	4	2	-2	-4	-6	-8	3.1	5.9	
14-Mar	-8	-10	-10	-11	-12	-12	-13	-13	-13	-12	-11	-9	-8	-7	-6	-6	-6	-6	-7	-8	-9	-9	-10	-10	-9.4	-5.6	
15-Mar	-10	-10	-10	-11	-11	-11	-11	-11	-12	-12	-12	-11	-11	-10	-10	-10	-10	-10	-10	-11	-11	-12	-12	-12	-10.9	-10.0	
16-Mar	-13	-14	-14	-15	-15	-16	-16	-16	-15	-15	-13	-13	-12	-14	-13	-13	-13	-12	-14	-16	-18	-15	-15	-16	-14.4	-12.1	
17-Mar	-17	-17	-17	-17	-18	-19	-20	-20	-19	-19	-17	-17	-16	-15	-14	-14	-14	-14	-14	-14	-15	-16	-19	-20	-20	-16.9	-13.8
18-Mar	-21	-23	-22	-22	-23	-23	-23	-24	-24	-22	-21	-19	-18	-15	-13	-10	-10	-9	-8	-8	-7	1	1	1	-15.1	1.2	
19-Mar	0	-1	-1	-1	-1	-1	-1	-2	-1	0	0	2	3	3	2	2	2	1	0	-2	-3	-3	-3	-3	-0.4	2.7	
20-Mar	-5	-5	-7	-7	-8	-8	-9	-9	-9	-9	N	N	N	N	N	N	-5	-5	-5	-5	-4	-3	-5	-5	-6.3	-3.3	
21-Mar	-5	-5	-7	-9	-11	-13	-15	-14	-13	-10	-11	-10	-9	-9	-8	-6	-6	-7	-7	-8	-8	-9	-9	-9	-9.2	-4.6	
22-Mar	-9	-9	-8	-8	-8	-8	-9	-10	-10	-10	-10	-8	-7	-6	-6	-6	-6	-7	-7	-7	-7	-8	-8	-8	-8.0	-5.6	
23-Mar	-10	-10	-11	-12	-12	-14	-15	-15	-13	-12	-11	-10	-9	-8	-6	-5	-4	-4	-5	-6	-6	-6	-7	-8	-9.0	-3.9	
24-Mar	-8	-9	-8	-7	-7	-6	-6	-5	-4	-3	-1	-1	0	0	0	0	0	0	0	-1	-2	-3	-3	-2	-3.1	0.3	
25-Mar	-2	-6	-7	-8	-9	-9	-10	-10	-10	-10	-10	-10	-10	-9	-8	-8	-9	-9	-10	-10	-11	-12	-13	-14	-9.5	-2.2	
26-Mar	-15	-17	-17	-19	-20	-20	-20	-20	-18	-16	-14	-12	-9	-7	-5	1	5	5	D	D	D	D	D	D	-12.1	4.7	
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--	
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--	
29-Mar	D	-5	-6	-7	-7	-7	-7	-7	-4	-2	0	1	4	3	2	2	2	2	1	0	-2	-3	-2	-3	-1.9	3.6	
30-Mar	-2	-2	-3	-3	-3	-3	-3	-2	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	-0.4	
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	
	-10.9	-11.2	-11.7	-12.1	-12.4	-13.2	-13.5	-13.5	-13.0	-12.5	-11.7	-10.7	-9.5	-8.7	-8.0	-7.3	-7.2	-7.4	-8.3	-8.9	-9.5	-9.7	-9.8	-10.2	Diurnal Average		
	5.1	5.2	5.3	4.7	4.3	3.4	3.6	4.0	4.0	4.9	5.3	5.6	5.4	5.8	5.9	5.8	5.1	4.7	3.7	3.9	3.7	4.0	4.6	4.8	Diurnal Maximum		

D - DAS Failure N - Not Valid NS - Not in service

Hourly Averages for External Temperature at Portable-Spirit River March 2009



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

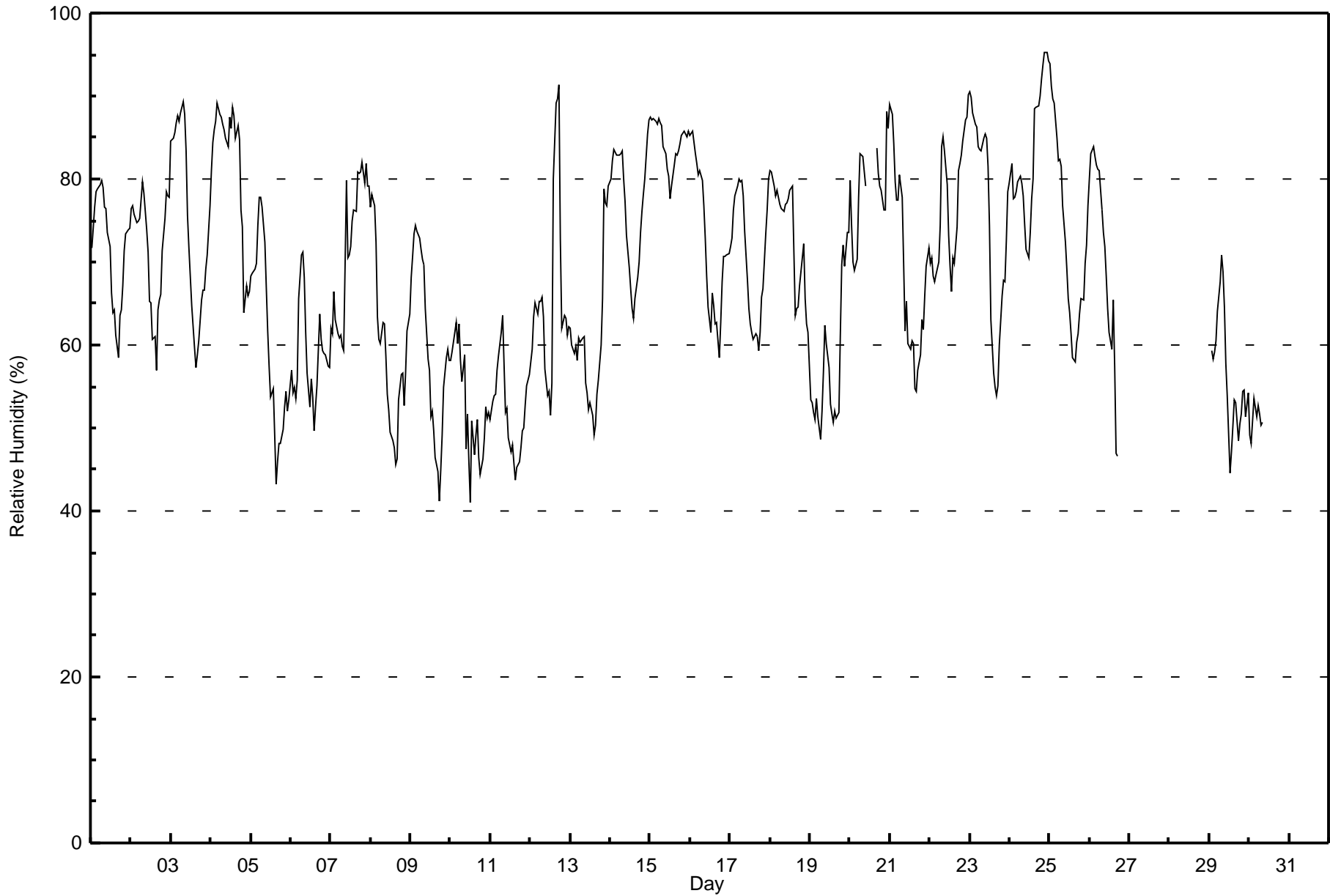
**Portable-Spirit River - Relative Humidity (RH) - %
March 1, 2009 to April 1, 2009**

Maximum Value: 95.2 % on Mar 24 22:00	Maximum Daily Average: 84.3 % on Mar 15	Hours in Service: 705
Minimum Value: 41 % on Mar 10 13:00	Minimum Daily Average: 52.1 % on Mar 11	Hours of Data: 644
Maximum Diurnal Average: 73.8 % at hour 8	Minimum Diurnal Average: 60.8 % at hour 16	Hours of Missing Data: 61
Monthly Average: 68.41 %	Percentiles: P ₁ = 44.7 P ₁₀ = 51.6 Q ₁ = 58.5 Median = 68.2 Q ₃ = 79.2 P ₉₀ = 85.3 P ₉₉ = 90.3	Hours of Calibration: 0
		Percent Operational Time: 91.4

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-Mar	72	74	77	78	79	79	80	79	77	76	73	72	66	64	64	61	59	64	64	67	71	73	74	74	71.6	79.9																							
2-Mar	76	77	76	75	75	75	77	80	78	74	71	65	65	61	61	57	64	65	66	71	75	79	78	78	71.7	79.7																							
3-Mar	85	85	86	87	88	87	88	89	88	83	76	72	65	62	60	57	59	61	65	67	67	69	71	77	74.6	89.3																							
4-Mar	81	84	86	87	89	88	88	87	86	85	84	87	86	89	88	85	86	85	76	74	64	67	66	67	81.8	89.2																							
5-Mar	68	69	69	70	74	78	78	77	72	67	62	57	54	55	49	43	46	48	48	50	53	54	52	53	60.2	77.8																							
6-Mar	57	54	55	54	56	66	71	71	68	62	57	53	56	54	50	53	55	64	61	59	59	59	58	57	58.5	71.2																							
7-Mar	62	61	66	63	61	61	61	60	59	80	70	71	72	75	76	76	81	81	81	82	79	82	79	79	71.7	82.0																							
8-Mar	77	78	77	72	63	61	60	63	62	59	54	52	50	49	48	46	46	53	56	57	53	57	62	64	59.0	78.2																							
9-Mar	68	71	73	74	74	73	72	70	70	64	58	57	51	52	50	46	45	41	45	49	55	59	60	58	59.8	74.5																							
10-Mar	58	59	60	63	60	63	58	56	59	47	52	46	41	51	47	49	51	46	44	46	49	52	51	52	52.6	62.8																							
11-Mar	51	53	54	54	57	59	62	64	58	52	52	49	47	48	46	44	45	46	48	50	50	53	55	56	52.1	63.5																							
12-Mar	58	60	63	65	64	65	65	66	63	57	54	54	52	55	80	89	90	91	73	62	63	63	61	62	65.7	91.3																							
13-Mar	62	60	59	60	58	61	60	61	61	55	54	52	53	51	49	50	54	56	60	66	79	77	77	79	60.6	79.2																							
14-Mar	80	82	84	83	83	83	83	83	80	77	73	69	67	64	63	66	68	70	74	76	78	80	85	87	76.7	87.1																							
15-Mar	87	87	87	87	87	87	87	86	84	83	81	80	78	79	82	83	83	83	84	85	86	85	85	86	84.3	87.4																							
16-Mar	85	86	84	83	82	81	81	80	77	73	68	65	62	66	65	63	63	59	63	68	71	71	71	71	72.2	85.8																							
17-Mar	72	73	76	78	79	80	80	80	78	74	68	64	63	62	61	61	61	59	62	66	67	73	76	80	70.5	80.0																							
18-Mar	81	81	79	78	79	78	77	76	76	77	77	78	79	79	71	64	64	65	67	71	72	66	62	62	73.2	81.1																							
19-Mar	53	53	52	51	54	51	49	52	57	62	60	57	53	52	51	52	51	52	61	70	72	70	74	74	57.6	73.6																							
20-Mar	80	74	70	69	70	78	83	83	83	79	N	N	N	N	N	N	84	81	79	79	76	76	88	86	78.8	88.2																							
21-Mar	89	88	84	80	77	77	81	78	70	62	65	60	60	60	60	55	54	57	59	63	62	66	70	72	68.7	89.0																							
22-Mar	70	70	68	68	68	70	74	84	85	83	79	73	69	66	71	70	74	81	82	83	84	87	87	90	76.6	90.1																							
23-Mar	90	90	88	87	86	84	84	83	85	85	85	81	74	63	57	55	54	55	60	66	68	68	73	78	74.9	90.5																							
24-Mar	80	82	78	78	79	80	80	79	78	75	71	71	73	78	80	89	89	89	90	92	94	95	95	94	82.8	95.2																							
25-Mar	94	91	90	89	85	82	82	82	77	72	69	66	64	61	58	58	60	61	64	66	65	70	72	77	73.2	94.0																							
26-Mar	80	83	84	83	82	81	81	76	74	72	68	64	62	60	65	57	47	47	D	D	D	D	D	D	70.3	83.8																							
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--																							
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--																							
29-Mar	D	59	58	59	61	64	68	71	69	65	58	54	45	47	50	53	53	48	50	52	54	55	51	54	56.5	70.9																							
30-Mar	49	48	51	53	51	53	52	50	51	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	53.5																							
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--																							
																								72.8	72.6	72.7	72.4	72.2	73.0	73.6	73.8	72.3	70.4	67.0	64.3	61.7	61.7	61.5	60.8	62.5	63.2	64.7	66.7	68.0	69.4	70.5	71.8	Diurnal Average	
																								94.0	91.2	89.6	89.1	89.2	87.8	87.9	89.3	87.8	85.4	84.9	87.4	86.1	88.6	87.7	89.1	89.7	91.3	89.9	92.0	93.8	95.2	95.2	94.3	Diurnal Maximum	

D - DAS Failure N - Not Valid NS - Not in service

Hourly Averages for Relative Humidity at Portable-Spirit River March 2009



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

Portable-Spirit River
March 1, 2009 to April 1, 2009
WS (km/h), WD (deg)

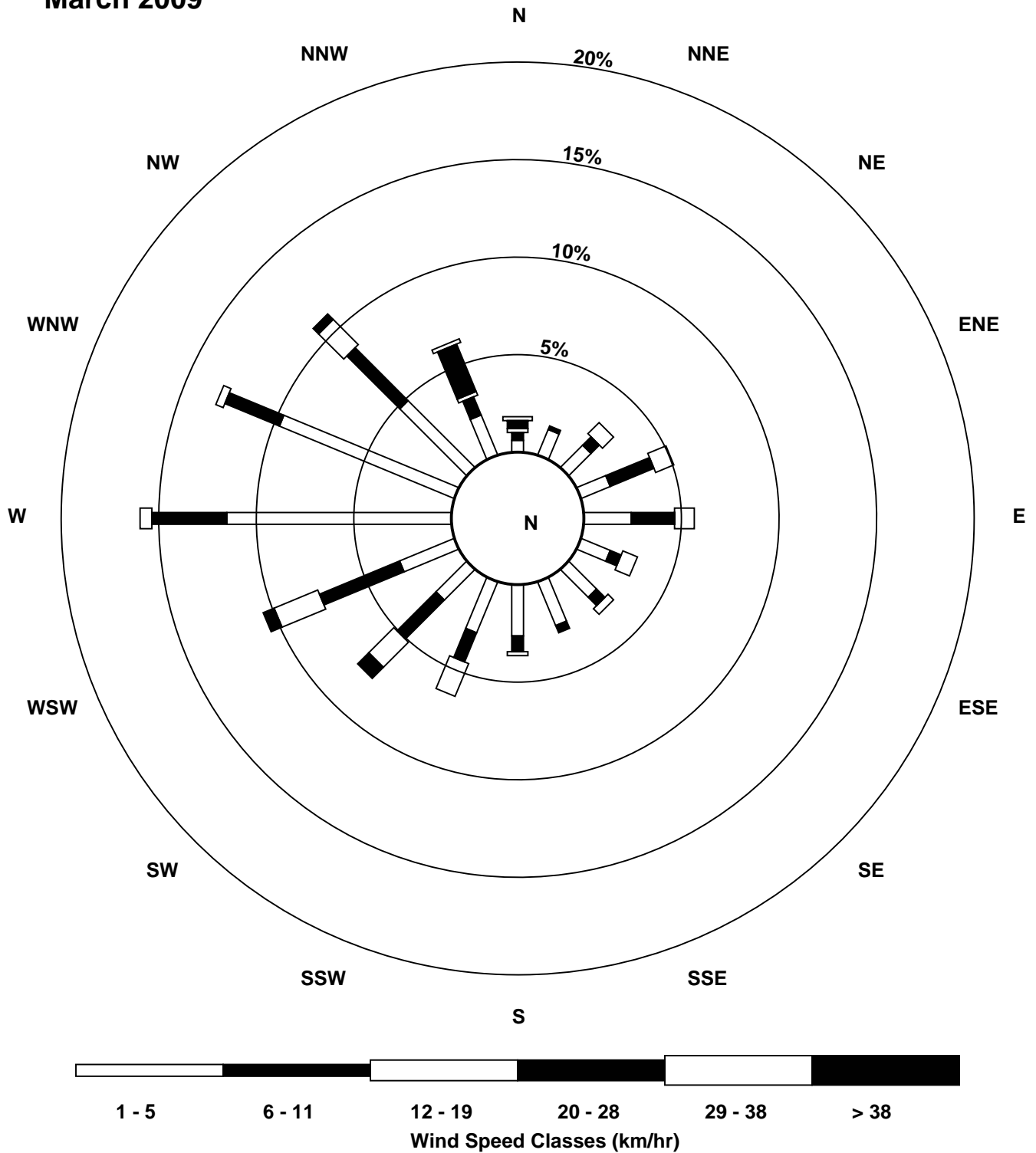
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1 Spd	3	3	4	3	3	2	3	3	1	1	2	3	1	0	2	3	1	3	4	4	1	3	3	4	1.5	3.7	
Dir	276	298	276	282	294	272	268	301	276	352	34	54	123	72	187	169	163	237	254	261	355	240	277	309	272.7	253.9	
2 Spd	2	7	9	4	0	3	3	4	3	3	4	2	3	2	6	1	5	3	3	2	2	10	8	4	3.2	10.5	
Dir	311	260	245	280	297	268	326	285	276	286	267	293	226	156	210	310	217	293	307	287	12	235	254	278	261.2	234.8	
3 Spd	3	2	10	18	13	13	5	5	3	4	4	4	5	10	7	4	8	2	2	6	6	3	5	1	5.0	17.8	
Dir	283	278	252	240	248	252	276	283	287	288	286	279	275	254	259	298	342	293	281	231	230	194	150	21	259.7	239.7	
4 Spd	4	4	3	2	3	3	3	3	8	6	3	12	9	20	20	30	21	23	26	17	20	14	22	13	11.2	29.6	
Dir	305	300	270	296	313	312	339	20	351	234	311	339	312	345	9	351	349	335	347	325	325	323	329	323	335.6	351.2	
5 Spd	8	7	5	4	2	2	4	4	5	5	5	6	9	8	5	2	8	11	9	8	8	12	9	4	4.1	12.1	
Dir	311	307	305	300	295	290	293	286	276	284	297	314	328	333	321	254	235	234	245	216	201	203	200	115	267.9	203.3	
6 Spd	5	12	11	4	11	3	3	4	4	2	2	1	1	2	1	1	4	3	3	4	3	2	5	5	2.2	11.6	
Dir	191	200	204	191	240	318	319	322	334	316	15	100	110	242	232	12	333	274	283	276	307	163	194	221	241.1	199.9	
7 Spd	2	2	1	7	12	11	12	14	13	12	9	13	18	15	17	23	19	17	11	9	21	22	25	25	11.8	24.9	
Dir	316	272	220	210	254	258	261	263	263	297	293	304	309	310	315	322	320	321	316	313	331	331	347	340	308.7	339.9	
8 Spd	29	25	26	24	23	23	15	10	8	9	9	9	9	10	10	8	3	3	3	4	10	12	8	4	11.7	28.7	
Dir	340	337	336	341	335	328	323	315	310	309	310	309	313	315	316	313	305	274	275	315	334	352	359	7	328.6	340.1	
9 Spd	3	4	5	5	5	7	5	5	6	2	2	3	0	4	4	4	3	2	6	8	9	11	12	10	4.2	11.5	
Dir	348	295	274	269	267	260	267	257	234	288	308	5	181	166	189	175	173	191	204	233	248	248	257	257	248.4	257.3	
10 Spd	11	10	8	2	1	2	1	0	2	1	3	2	7	16	15	15	12	11	7	2	5	3	4	3	2.3	16.5	
Dir	256	261	258	212	233	24	358	189	52	67	52	68	152	124	124	110	106	119	107	80	275	286	268	273	138.9	124.3	
11 Spd	4	2	4	0	3	5	2	3	1	1	4	2	2	2	2	2	2	5	5	7	8	11	13	11	2.1	12.6	
Dir	261	292	236	271	81	84	71	153	160	348	87	65	121	137	118	148	186	207	263	252	234	249	250	259	232.6	250.5	
12 Spd	7	4	5	6	7	5	7	5	8	4	4	7	5	7	10	9	2	4	7	17	13	15	14	15	6.7	17.4	
Dir	264	276	278	279	261	268	265	268	261	269	279	286	289	259	261	257	157	93	250	241	233	224	211	216	248.9	240.7	
13 Spd	16	15	16	9	16	14	9	20	20	24	18	17	17	8	8	6	4	3	2	3	16	13	14	15	6.9	23.9	
Dir	223	213	210	238	238	248	263	253	257	256	257	258	256	269	274	278	293	302	274	98	83	87	73	77	244.5	255.8	
14 Spd	12	12	8	10	8	7	6	5	5	6	3	3	2	1	2	3	6	5	3	8	9	8	10	8	5.7	12.1	
Dir	75	89	84	80	89	78	93	96	76	103	95	128	130	137	158	152	143	123	129	71	83	64	61	61	88.2	74.8	
15 Spd	9	9	11	15	16	P	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	16.0	
Dir	65	59	53	48	56	P	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	55.6	
16 Spd	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--	
Dir	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--	
17 Spd	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--	
Dir	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--	
18 Spd	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--	
Dir	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--	
19 Spd	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--	
Dir	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--	
20 Spd	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	13	12	16	10	11	5	9	2	--	16.2
Dir	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	59	40	48	45	67	32	32	257	--	47.9
21 Spd	4	4	8	6	4	2	1	1	1	1	5	2	5	5	6	2	3	3	0	7	6	6	3	6	1.8	8.1	
Dir	270	271	283	291	288	278	276	273	281	177	343	17	139	143	150	125	185	188	185	252	233	345	302	255	258.0	283.1	
22 Spd	4	5	3	9	12	11	14	12	6	10	10	3	1	1	2	1	3	4	3	2	1	3	4	4	2.5	14.0	
Dir	296	328	40	51	62	73	82	86	63	74	80	94	296	205	145	161	227	234	250	265	287	258	246	249	70.0	81.9	

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

Portable-Spirit River
March 1, 2009 to April 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	5	3	2	1	1	1	1	1	2	1	2	3	4	3	4	2	2	2	4	2	3	1	2	1.5	5.5
Dir	235	251	289	175	130	114	327	108	106	91	128	212	186	224	181	191	203	195	286	270	250	296	311	259	228.7	235.1
24 Spd	4	4	3	1	2	2	2	2	1	1	2	7	11	9	13	14	11	8	8	2	2	3	2	5	3.5	14.5
Dir	69	71	98	280	324	320	299	50	324	51	54	83	99	96	102	104	99	87	78	70	333	275	296	336	83.2	103.8
25 Spd	4	8	9	7	7	11	11	10	6	7	6	7	7	6	4	4	4	3	3	3	6	5	3	1	5.0	10.9
Dir	282	286	287	290	298	306	306	307	301	300	295	287	286	285	276	276	282	280	267	258	190	199	193	213	285.0	305.6
26 Spd	1	1	2	3	2	2	6	3	1	2	3	2	2	1	7	10	20	17	D	D	D	D	D	D	2.8	19.6
Dir	244	232	304	314	304	296	290	292	272	303	333	102	100	104	127	193	223	224	D	D	D	D	D	D	233.2	223.0
27 Spd	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
Dir	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
28 Spd	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
Dir	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
29 Spd	D	4	4	6	5	6	7	6	6	6	3	6	3	5	8	7	9	9	11	11	14	16	18	19	6.3	19.5
Dir	D	269	274	265	272	265	259	263	263	304	270	237	195	146	134	219	203	184	170	174	182	201	201	194	209.8	193.8
30 Spd	16	17	16	11	17	17	21	25	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	24.9
Dir	211	220	222	230	227	230	226	230	236	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	230.2
31 Spd	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--
Dir	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--
Spd	2.9	3.3	3.9	2.8	3.1	3.8	3.4	3.8	3.8	3.0	2.4	2.7	2.1	1.4	0.5	1.2	0.9	1.5	1.7	2.8	1.9	3.1	2.6	2.6	Diurnal Average	
Dir	282.9	274.3	268.0	286.6	279.7	280.9	281.6	268.0	271.3	287.4	305.4	303.8	279.3	287.6	248.1	300.7	274.9	265.1	304.1	263.9	279.6	266.2	282.6	277.3		
Spd	28.7	24.7	26.1	23.9	23.2	22.5	20.8	24.9	20.9	23.9	17.6	17.0	17.6	19.6	20.5	29.6	20.5	22.5	26.3	17.4	20.6	21.7	24.8	24.9	Diurnal Maximum	
Dir	340.1	336.9	335.8	340.8	334.8	327.6	225.8	230.2	235.7	255.8	257.1	257.7	308.7	345.0	9.0	351.2	349.0	334.8	347.0	240.7	330.7	331.2	347.2	339.9		
Maximum Speed Value: 30 km/h on Mar 4 16:00																		Minimum Speed Value: 0 km/h on Mar 11 04:00						Hours in Service:		705
Maximum Daily Speed Average: 11.8 km/h on Mar 7																		Minimum Daily Speed Average: 1.5 km/h on Mar 23						Hours of Data:		519
Maximum Diurnal Speed Average: 3.9 km/h at hour 3																		Minimum Diurnal Speed Average: 0.5 km/h at hour 15						Hours of Missing Data:		186
Monthly Average Velocity: 2.51 km/h 279.52 deg																		Speed Percentiles: P ₁ = 0.4 P ₁₀ = 1.6 Q ₁ = 2.7 Median = 4.9 Q ₃ = 9.6 P ₉₀ = 15.6 P ₉₉ = 24.1						Percent Operational Time:		73.6
All monthly, daily, and diurnal averages have been calculated using vector methods																										
P - Power Failure D - DAS Failure N - Not Valid NS - Not in service																										
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		14	5	2	7	2	0	30																		
NorthEast		11	11	7	0	0	0	29																		
East		25	16	14	0	0	0	55																		
SouthEast		23	6	3	0	0	0	32																		
South		30	6	6	1	0	0	43																		
SouthWest		22	22	19	4	0	0	67																		
West		87	50	16	3	0	0	156																		
NorthWest		57	28	12	10	0	0	107																		
Total		269	144	79	25	2	0	519																		

Wind Rose for WS at Portable-Spirit River March 2009



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

Portable-Spirit River - Wind Speed (WS) - km/h
March 1, 2009 to April 1, 2009

Maximum Speed: 30 km/h on Mar 4 16:00	Maximum Daily Speed Average: 13.9 km/h on Mar 7	Hours in Service: 705
Minimum Speed: 1 km/h on Mar 23 06:00	Minimum Daily Speed Average: 2.6 km/h on Mar 23	Hours of Data: 519
Maximum Diurnal Speed Average: 9.5 km/h at hour 23	Minimum Diurnal Speed Average: 5.1 km/h at hour 11	Hours of Missing Data: 186
Monthly Average Speed: 7.20 km/h	Percentiles: P ₁ = 1.1 P ₁₀ = 2.2 Q ₁ = 3.2 Median = 5.1 Q ₃ = 9.7 P ₉₀ = 15.7 P ₉₉ = 24.8	Percent Operational Time: 73.6

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-Mar	3	3	4	3	3	3	3	3	1	2	2	3	3	1	3	3	1	3	4	4	1	3	3	4	2.8	4.5
2-Mar	5	7	9	4	2	4	5	4	3	3	4	3	3	2	6	2	6	4	4	9	6	11	8	4	5.0	10.5
3-Mar	3	2	10	18	13	14	5	5	3	4	4	5	5	10	7	5	8	2	2	6	6	4	5	3	6.2	17.9
4-Mar	4	4	3	2	4	3	4	3	8	6	4	12	9	20	21	30	21	23	27	17	20	14	22	13	12.2	29.7
5-Mar	8	7	5	4	2	3	4	4	5	5	5	6	9	8	5	5	8	11	9	8	8	12	9	4	6.5	12.1
6-Mar	6	12	11	6	11	4	3	4	4	2	3	2	3	2	1	1	4	3	3	4	4	3	5	6	4.5	11.6
7-Mar	2	2	2	8	12	11	12	14	13	13	9	13	18	15	17	23	19	17	11	9	21	22	25	25	13.9	25.4
8-Mar	29	25	26	24	23	23	15	10	8	9	9	9	9	10	10	8	3	3	3	4	10	12	8	4	12.3	28.8
9-Mar	4	4	5	5	5	7	5	5	7	2	2	3	2	4	4	4	3	2	6	9	9	11	12	10	5.5	11.5
10-Mar	11	10	8	2	2	2	2	2	2	1	3	2	7	17	15	15	12	12	7	4	5	3	4	4	6.3	16.6
11-Mar	4	3	4	1	3	5	2	3	3	3	5	3	2	3	3	3	3	5	5	7	8	11	13	11	4.7	12.6
12-Mar	7	4	5	6	7	5	7	5	8	4	5	7	5	7	10	9	4	4	8	17	13	15	14	15	7.9	17.5
13-Mar	16	15	16	10	16	14	9	20	20	24	18	17	17	8	8	6	4	3	2	7	16	13	15	15	12.7	23.9
14-Mar	12	12	8	10	8	7	6	5	5	6	4	3	3	2	2	3	6	5	4	8	9	8	10	8	6.4	12.2
15-Mar	10	10	11	15	16	P	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	16.1
16-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
17-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
18-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
19-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	--
20-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--	16.4
21-Mar	4	4	8	6	4	3	1	2	1	2	5	4	5	5	6	3	3	3	2	8	6	6	6	6	4.3	8.2
22-Mar	4	6	4	9	12	11	14	12	6	10	10	3	2	2	2	3	4	3	2	1	3	4	4	4	5.6	14.1
23-Mar	6	5	3	2	1	1	1	2	1	2	1	2	3	4	3	4	3	2	2	4	3	3	2	3	2.6	5.5
24-Mar	4	4	3	1	2	2	3	4	2	3	3	7	11	9	13	14	12	8	8	2	2	4	2	5	5.5	14.5
25-Mar	4	8	9	7	7	11	11	10	6	7	6	7	7	6	5	4	4	3	3	3	7	5	4	1	5.9	10.9
26-Mar	2	2	3	3	2	2	6	3	2	2	3	3	2	2	7	14	20	17	D	D	D	D	D	D	5.3	20.2
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--	--
29-Mar	D	5	4	6	5	7	7	6	6	6	3	6	3	5	8	9	9	9	11	11	14	16	18	19	8.4	19.5
30-Mar	17	17	16	12	17	17	21	25	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	24.9
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--

7.4	7.4	7.8	7.3	7.7	7.1	6.6	6.8	6.1	5.6	5.1	5.7	6.1	6.8	7.5	7.9	7.7	7.1	6.7	7.3	8.5	8.9	9.5	8.0	Diurnal Average
28.8	24.8	26.2	24.2	23.3	22.5	20.8	24.9	20.9	23.9	17.7	17.1	17.6	20.2	20.6	29.7	20.9	22.7	26.5	17.5	21.1	21.8	25.2	25.4	Diurnal Maximum

P - Power Failure D - DAS Failure N - Not Valid NS - Not in service
 All monthly, daily, and diurnal averages have been calculated using scalar methods

**Peace Airshed Zone Association
Summary of Hourly Standard Deviations**

**Portable-Spirit River - Wind Direction (WD) - deg
March 1, 2009 to April 1, 2009**

Maximum Value: 91.2 deg on Mar 13 20:00																								Hours in Service:	705
Minimum Value: 1.6 deg on Mar 30 00:00																								Hours of Data:	519
Percentiles: P ₁ = 2.3 P ₁₀ = 4.1 Q ₁ = 6.1 Median = 12.2 Q ₃ = 29.8 P ₉₀ = 57.3 P ₉₉ = 84.3																								Hours of Missing Data:	186
																								Hours of Calibration:	0
																								Percent Operational Time:	73.6
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-Mar	17	15	8	13	13	18	21	15	46	50	19	30	64	85	57	17	41	14	16	34	66	27	33	38	85.1
2-Mar	79	16	12	23	88	67	56	17	30	20	28	31	62	76	21	82	45	44	57	72	81	7	11	17	88.4
3-Mar	20	34	11	5	9	7	10	6	13	6	9	10	13	5	6	25	4	23	15	10	7	24	22	75	75.1
4-Mar	10	22	10	21	17	15	20	23	12	26	32	9	4	14	5	5	10	6	8	4	3	5	2	6	31.7
5-Mar	4	3	5	9	11	12	8	6	8	9	9	4	9	8	8	70	17	4	7	15	13	6	14	25	69.7
6-Mar	46	4	20	71	12	37	13	6	12	21	47	64	89	40	69	58	25	14	12	17	71	43	18	47	89.4
7-Mar	50	29	59	33	6	10	8	4	7	12	7	5	3	4	5	11	4	4	5	8	11	4	11	11	58.6
8-Mar	5	6	4	9	6	3	6	5	3	3	5	5	5	6	6	6	10	11	12	18	10	7	6	20	20.1
9-Mar	13	21	6	5	4	5	4	15	26	18	28	13	85	7	13	11	30	42	6	17	5	5	3	4	85.3
10-Mar	6	4	7	64	73	29	67	85	49	55	23	14	29	8	5	6	3	7	8	69	10	16	7	15	84.6
11-Mar	9	42	17	78	14	12	46	9	80	70	53	58	41	52	49	49	63	22	9	6	5	4	4	4	80.0
12-Mar	5	9	4	4	5	8	3	9	5	8	11	7	8	19	8	8	64	42	27	5	5	3	3	3	64.3
13-Mar	4	4	3	18	7	7	9	6	3	3	5	4	6	10	8	10	9	20	16	91	7	5	5	4	91.2
14-Mar	8	7	5	6	6	5	5	11	6	18	26	27	31	46	33	21	10	8	32	10	12	14	4	5	46.4
15-Mar	13	8	8	4	3	P	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	12.7
16-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
17-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
18-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
19-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	--
20-Mar	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	18	6	7	7	6	48	13	71	70.6
21-Mar	32	10	12	8	23	30	73	33	46	69	37	59	25	7	17	56	17	18	87	25	22	38	60	11	87.4
22-Mar	22	15	53	8	9	7	10	6	11	17	16	46	76	78	17	49	23	5	12	21	14	12	8	12	78.1
23-Mar	4	24	28	43	43	39	48	73	28	45	39	51	28	14	19	5	28	42	37	7	59	49	51	38	73.3
24-Mar	22	38	52	47	40	44	78	67	84	80	86	19	5	4	2	2	2	4	4	53	43	13	15	18	85.5
25-Mar	11	7	6	5	7	4	3	3	5	8	8	6	6	8	13	14	10	10	12	11	19	19	14	64	64.5
26-Mar	53	70	29	18	50	34	5	6	50	25	44	56	49	59	22	41	14	11	D	D	D	D	D	D	69.7
27-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--
28-Mar	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	--
29-Mar	D	22	17	25	18	5	7	5	27	24	11	9	22	5	9	39	9	6	3	4	3	8	5	2	39.4
30-Mar	6	6	6	13	4	5	2	4	4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	12.8
31-Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--
78.6	69.7	58.6	77.9	88.4	67.3	78.3	84.6	84.5	79.7	85.5	64.2	89.4	85.1	69.3	81.9	64.3	44.0	87.4	91.2	81.1	48.5	60.4	75.1		
P - Power Failure D - DAS Failure N - Not Valid NS - Not in service																									

PASZA

Valleyview Station

Monthly Summary Tables, Graphs and Roses

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

**Valleyview - Sulphur Dioxide (SO₂) - ppb
March 1, 2009 to April 1, 2009**

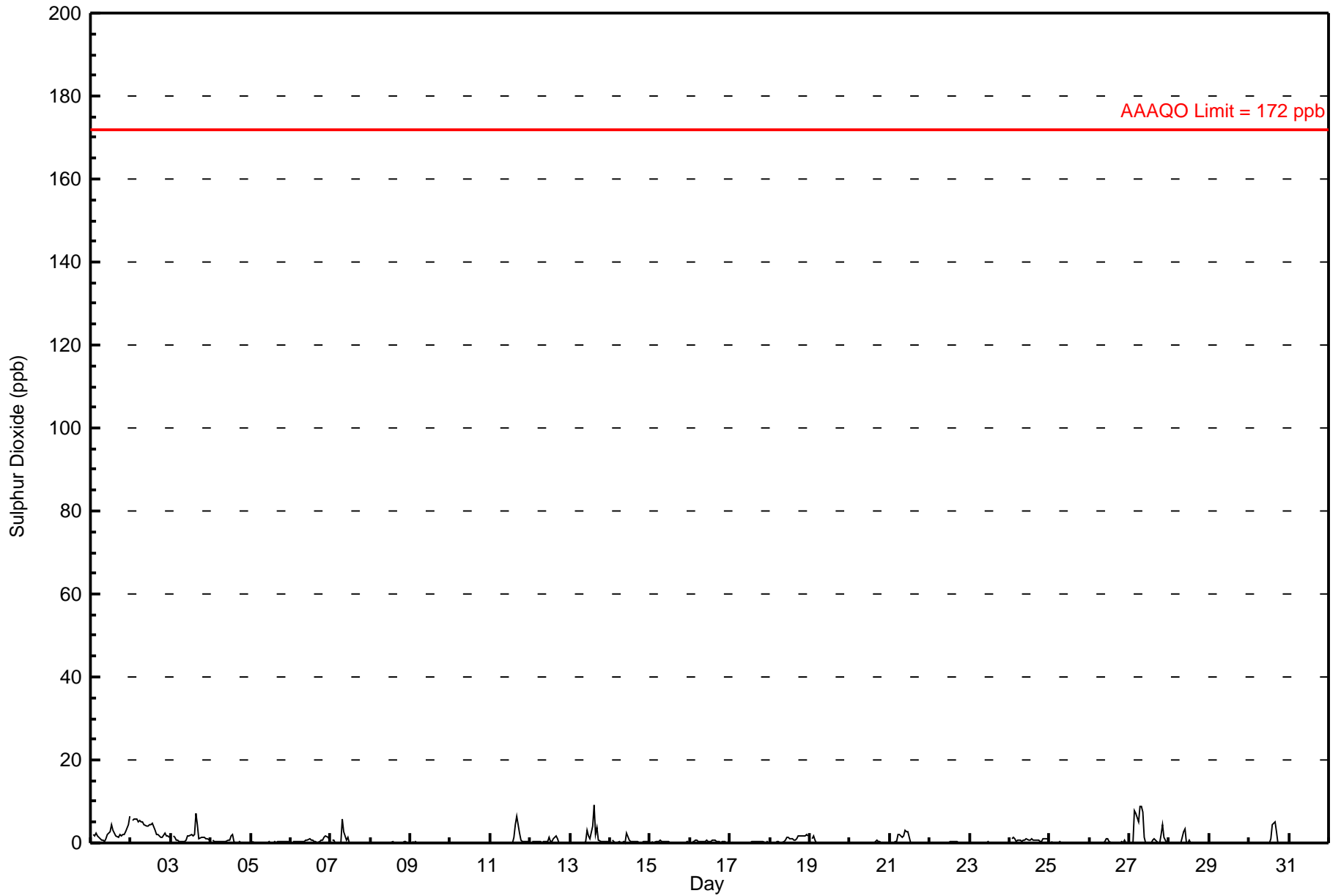
Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 9.1 ppb on Mar 13 15:00	Maximum Daily Average: 3.6 ppb on Mar 2
Minimum Value: 0 ppb on Mar 4 17:00	Hours of Data: 707
Minimum Daily Average: 0.0 ppb on Mar 10	Hours of Missing Data: 37
Maximum Diurnal Average: 1.0 ppb at hour 15	Hours of Calibration: 35
Monthly Average: 0.61 ppb	Percent Operational Time: 99.7
Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.1 Q ₃ = 0.5 P ₉₀ = 1.8 P ₉₉ = 6.9	

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-Mar	A	2	2	2	2	1	1	1	0	1	2	3	4	3	2	2	1	2	2	2	2	3	4	6	2.2	6.3
2-Mar	A	5	6	6	5	5	5	4	4	4	4	5	5	3	2	2	2	1	1	2	2	2	1	1	3.6	5.8
3-Mar	A	2	1	1	1	1	0	0	0	1	2	2	2	2	7	4	1	1	1	1	1	1	1	1	1.5	7.0
4-Mar	A	1	0	0	0	0	0	0	0	0	1	1	2	2	1	0	0	0	0	0	0	0	0	0	0.4	2.0
5-Mar	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	0.5
6-Mar	A	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	2	1	1	0.6	1.8
7-Mar	A	1	1	0	0	0	0	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	5.6
8-Mar	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
9-Mar	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
10-Mar	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
11-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	2	1	0	0	0	0	0	0.8	6.6
12-Mar	A	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	1	0	0	0	0	0	0	0	0.4	1.6
13-Mar	A	0	0	0	0	0	0	0	0	0	3	2	1	4	9	2	4	1	0	0	0	0	0	0	1.2	9.1
14-Mar	A	1	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	2.3
15-Mar	A	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.6
16-Mar	A	0	0	1	1	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0.4	0.6
17-Mar	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
18-Mar	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	0.9	1.9
19-Mar	A	1	2	1	0	0	0	0	0	0	C	C	A	A	0	0	0	0	0	0	0	0	0	0	0.2	1.7
20-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.1	0.7
21-Mar	A	0	0	0	0	2	2	1	2	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0.7	3.0
22-Mar	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
23-Mar	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
24-Mar	A	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0.8	1.3
25-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	P	P	0	0	0	0	0	0	0	0	0	0.1	0.5
26-Mar	A	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0.2	1.1
27-Mar	A	0	0	8	7	5	9	9	8	1	0	0	0	0	1	1	0	0	0	2	4	1	0	0	2.5	8.9
28-Mar	A	0	0	0	0	0	0	3	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.3	3.5
29-Mar	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
30-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	3	0	0	0	0	0	0	0	0.6	5.2
31-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0

--	0.5	0.5	0.7	0.6	0.5	0.7	0.8	0.7	0.6	0.8	0.7	0.6	0.7	1.0	0.9	0.9	0.4	0.3	0.4	0.5	0.5	0.4	0.4	Diurnal Average	
--	5.4	5.8	8.0	7.2	5.4	8.9	8.8	7.5	4.2	4.1	4.3	4.6	4.6	9.1	7.0	6.6	2.5	1.8	2.1	4.3	2.8	4.5	6.3	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 Valleyview March 2009



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

**Valleyview - Sulphur Dioxide (SO₂) - ppb
March 1, 2009 to April 1, 2009**

Maximum Value: 29.0 ppb on Mar 27 04:00	Maximum Daily Average: 8.9 ppb on Mar 27	Hours in Service: 744
Minimum Value: 0 ppb on Mar 31 02:00	Minimum Daily Average: 0.4 ppb on Mar 31	Hours of Data: 707
Maximum Diurnal Average: 3.6 ppb at hour 15	Minimum Diurnal Average: 0.9 ppb at hour 19	Hours of Missing Data: 37
Monthly Average: 1.91 ppb	Percentiles: P ₁ = 0.0 P ₁₀ = 0.1 Q ₁ = 0.6 Median = 1.0 Q ₃ = 1.5 P ₉₀ = 3.9 P ₉₉ = 17.6	Hours of Calibration: 35
		Percent Operational Time: 99.7

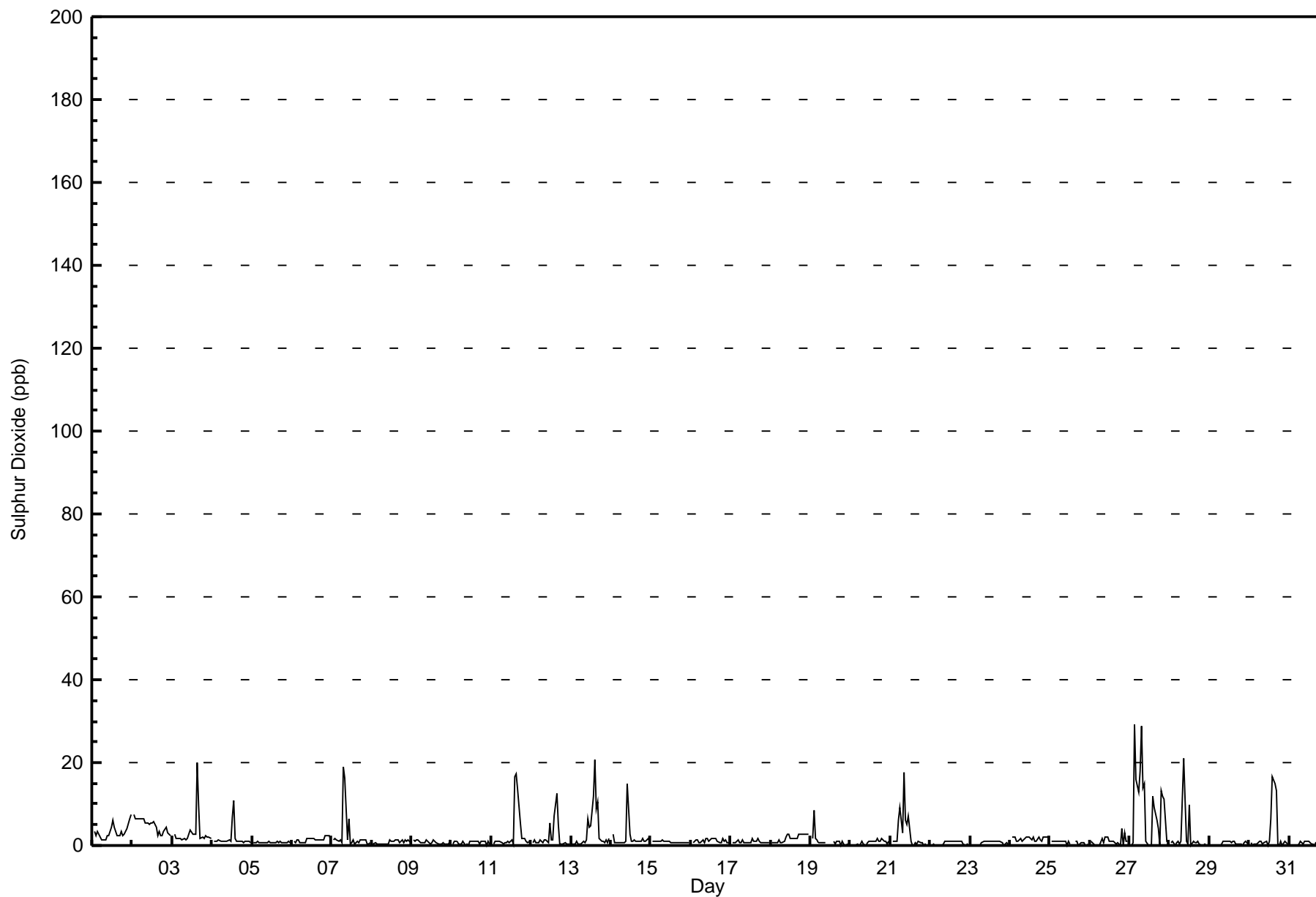
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1-Mar	A	3	2	3	3	1	1	1	1	2	2	4	6	4	3	2	2	3	2	3	3	4	6	7	3.3	7.4
2-Mar	A	7	6	6	6	6	6	6	5	5	5	5	6	4	3	3	3	3	3	4	5	3	3	3	4.8	7.4
3-Mar	A	3	2	2	2	2	1	2	1	2	3	4	3	3	3	20	10	2	2	2	2	2	2	2	3.2	19.8
4-Mar	A	1	1	1	1	1	1	1	1	1	1	1	7	11	2	1	1	1	1	1	1	1	1	1	1.6	10.9
5-Mar	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	1.1
6-Mar	A	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	2	2	2	1	1.4	2.4
7-Mar	A	1	2	1	1	1	1	19	16	1	6	0	1	1	0	1	1	1	1	1	1	0	0	1	2.7	18.8
8-Mar	A	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	1.4
9-Mar	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	1	0	0	0	1	0.7	1.3
10-Mar	A	0	1	1	0	0	0	1	0	0	0	1	1	1	1	1	1	0	1	1	1	0	1	0	0.7	1.1
11-Mar	A	0	1	1	1	1	1	0	1	1	1	1	0	16	17	14	5	5	2	2	2	1	1	1	3.0	17.4
12-Mar	A	1	1	1	1	1	1	1	1	2	1	6	1	1	7	13	5	0	0	0	1	0	0	0	2.0	12.5
13-Mar	A	0	0	1	0	0	0	1	1	1	7	5	5	12	21	9	10	2	1	1	1	2	1	2	3.6	20.7
14-Mar	A	3	1	1	1	1	1	1	1	1	15	3	1	1	1	1	1	1	1	2	1	1	2	1	1.7	14.9
15-Mar	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1.5
16-Mar	A	1	1	1	1	1	1	1	1	2	2	1	2	2	2	2	1	1	1	2	1	1	1	1	1.1	1.6
17-Mar	A	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	0.8	1.6
18-Mar	A	1	1	1	1	1	1	1	1	2	3	3	2	2	2	2	2	3	3	3	3	3	3	3	1.7	2.6
19-Mar	A	2	9	2	1	1	1	1	1	1	C	C	A	A	1	0	1	1	0	1	0	0	0	0	1.1	8.6
20-Mar	A	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	2	1	1	2	1	1	0	1	0.8	1.7
21-Mar	A	1	1	1	1	6	9	3	18	6	5	7	1	0	0	1	0	1	1	1	0	0	0	0	2.8	17.8
22-Mar	A	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0.6	1.1
23-Mar	A	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0.6	1.1
24-Mar	A	2	2	2	1	1	2	1	1	2	2	2	2	1	2	1	1	2	1	1	2	2	2	2	1.6	2.1
25-Mar	A	1	1	1	1	1	1	1	1	1	0	1	0	P	P	1	1	0	0	1	1	0	0	0	0.7	1.1
26-Mar	A	1	0	0	0	0	0	2	1	2	2	2	1	1	1	0	1	0	4	0	3	1	1	1	1.0	4.0
27-Mar	A	0	1	29	16	13	18	29	14	15	1	0	0	0	12	9	6	4	0	13	12	11	1	1	8.9	29.0
28-Mar	A	1	1	0	1	1	0	1	21	11	1	0	10	0	1	1	1	1	0	0	0	0	0	0	2.3	20.9
29-Mar	A	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0.5	1.0
30-Mar	A	1	0	0	0	1	1	1	0	1	1	0	1	6	17	15	13	0	0	1	0	1	1	0	2.7	16.7
31-Mar	A	0	0	0	0	0	0	1	0	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0.4	1.0

--	1.1	1.3	2.0	1.5	1.5	1.7	2.6	3.0	2.2	2.3	1.9	2.0	2.2	3.6	3.5	2.8	1.3	0.9	1.6	1.4	1.4	1.1	1.1	Diurnal Average	
--	7.4	8.6	29.0	16.0	13.0	18.0	28.7	20.9	15.0	14.9	7.0	9.7	11.9	20.7	19.8	13.5	5.5	2.6	13.4	12.0	11.0	6.4	7.4	Diurnal Maximum	

C - Calibration P - Power Failure A - Automated Daily Zero Span

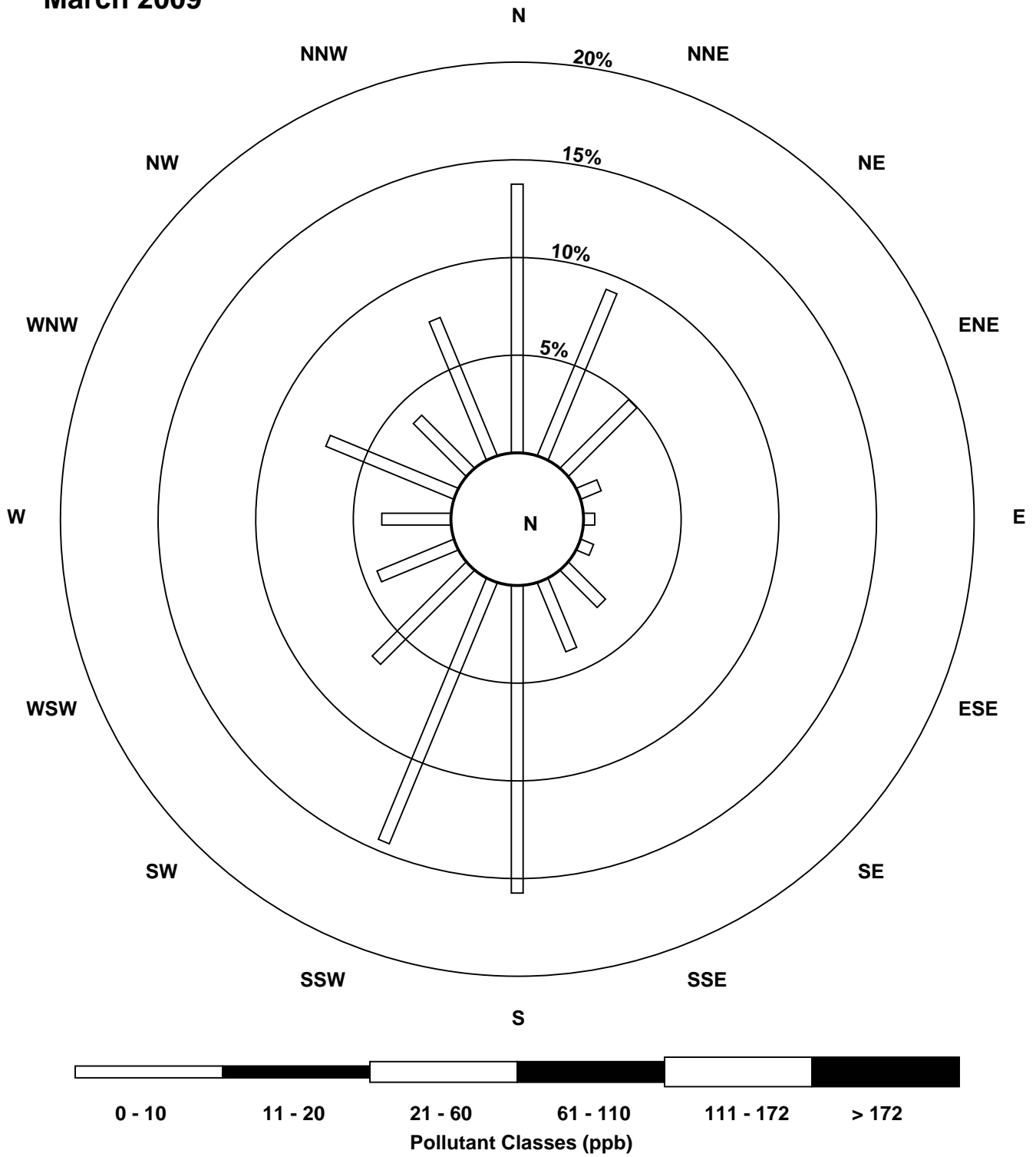
Hourly Maximums for SO₂ at Valleyview

March 2009



Pollutant Rose for SO₂ at Valleyview

March 2009



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

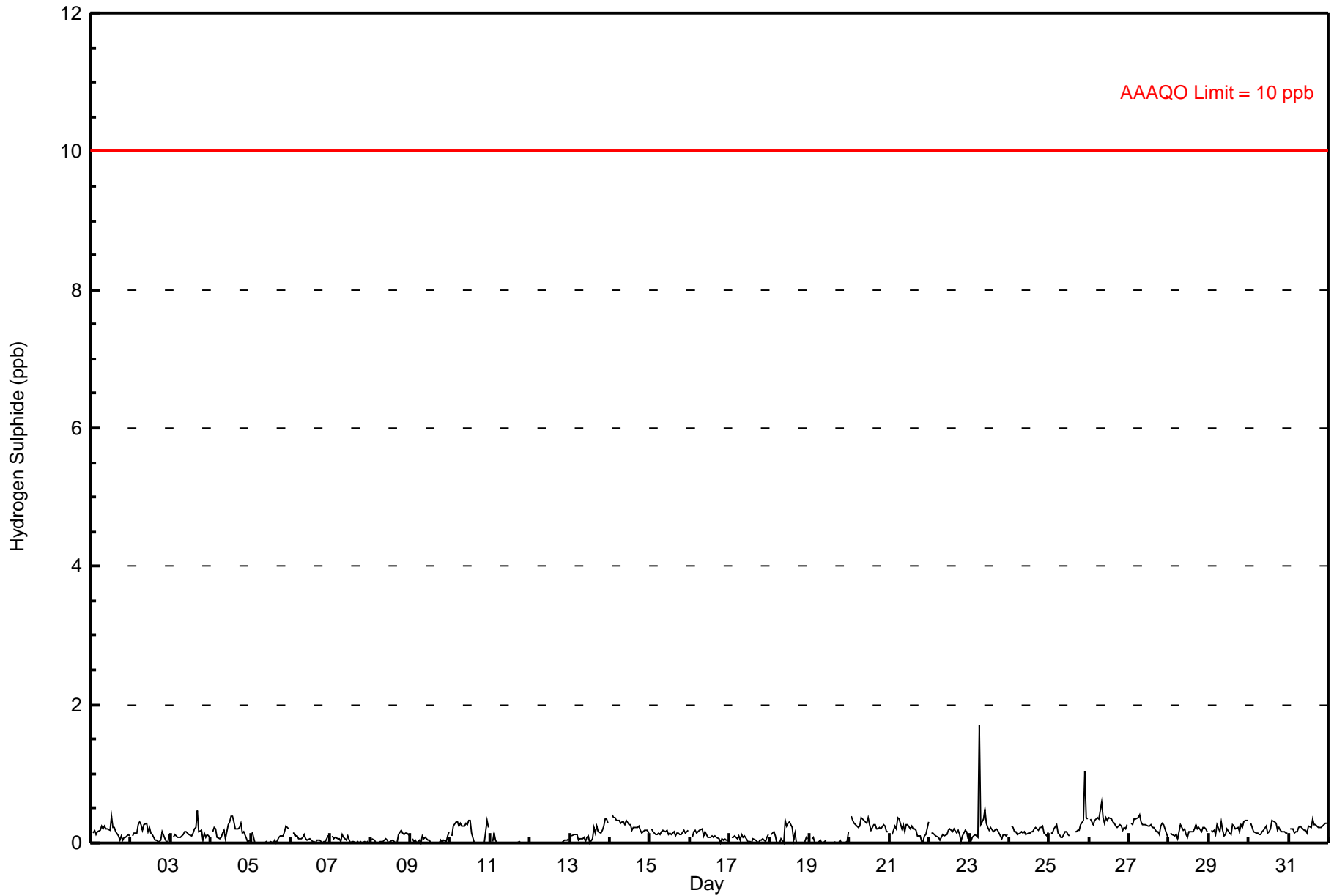
**Valleyview - Hydrogen Sulphide (H₂S) - ppb
March 1, 2009 to April 1, 2009**

Number of Exceedances (AAAQO): 1-hr: 0 24-hr: 0	Hours in Service: 744
Maximum Value: 1.7 ppb on Mar 23 07:00	Maximum Daily Average: 0.3 ppb on Mar 26
Hours of Data: 707	
Hours of Missing Data: 37	
Hours of Calibration: 35	
Percent Operational Time: 99.7	
Minimum Value: 0 ppb on Mar 2 23:00	Minimum Daily Average: 0.0 ppb on Mar 11
Maximum Diurnal Average: 0.2 ppb at hour 7	Minimum Diurnal Average: 0.1 ppb at hour 20
Monthly Average: 0.14 ppb	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 = 0.4

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-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
2-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
3-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.5
4-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
5-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
6-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
7-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
8-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
9-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
10-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
11-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
12-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1
13-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
14-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
15-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
16-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
17-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
18-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3
19-Mar	A	0	0	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2
20-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
21-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4
22-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
23-Mar	A	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.7
24-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2
25-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	P	P	0	0	0	0	0	0	0	1	0	0	0.2	1.0
26-Mar	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	0.3	0.6
27-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.4
28-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
29-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
30-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
31-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
--	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	Diurnal Average	
--	0.4	0.4	0.4	0.4	0.4	0.4	1.7	0.6	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	1.0	0.4	0.4	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 H₂S at Valleyview March 2009



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

**Valleyview - Hydrogen Sulphide (H₂S) - ppb
March 1, 2009 to April 1, 2009**

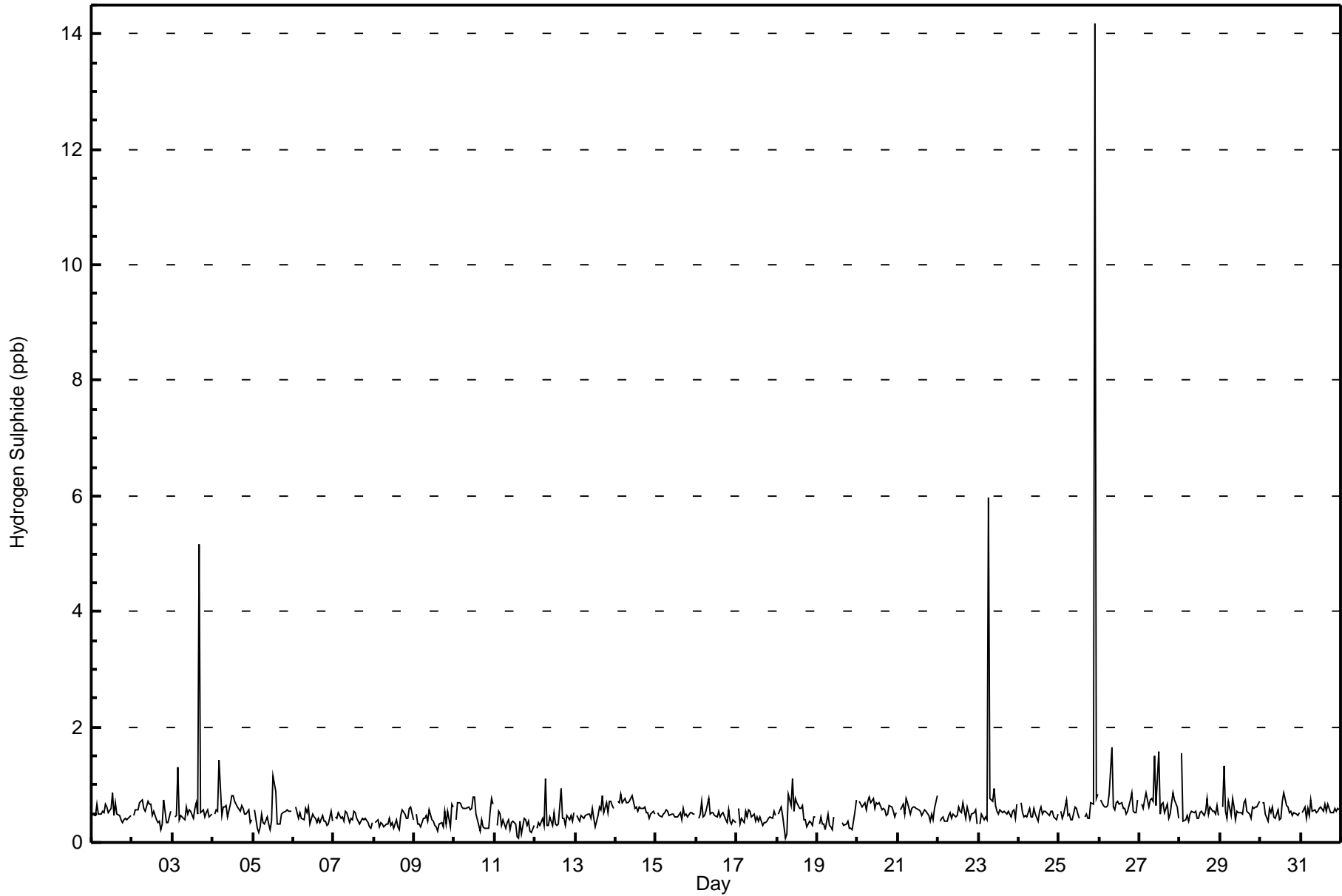
Maximum Value: 14.2 ppb on Mar 25 22:00	Maximum Daily Average: 1.2 ppb on Mar 25	Hours in Service: 744
Minimum Value: 0 ppb on Mar 18 06:00	Minimum Daily Average: 0.3 ppb on Mar 11	Hours of Data: 707
Maximum Diurnal Average: 0.9 ppb at hour 22	Minimum Diurnal Average: 0.5 ppb at hour 18	Hours of Missing Data: 37
Monthly Average: 0.54 ppb	Percentiles: P ₁ = 0.2 P ₁₀ = 0.3 Q ₁ = 0.4 Median = 0.5 Q ₃ = 0.6 P ₉₀ = 0.7 P ₉₉ = 1.5	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-Mar	A	0	0	1	0	0	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0.5	0.9
2-Mar	A	0	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	1	0	0	0	1	0.5	0.7
3-Mar	A	0	0	1	0	0	0	0	1	0	1	1	0	1	1	0	5	1	1	0	1	1	0	0	0.7	5.2
4-Mar	A	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0.6	1.4
5-Mar	A	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	1	1	1	0.5	1.1
6-Mar	A	1	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.4	0.6
7-Mar	A	0	0	1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.4	0.6
8-Mar	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0.4	0.6
9-Mar	A	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0.4	0.7
10-Mar	A	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0.5	0.8
11-Mar	A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.5
12-Mar	A	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0.4	1.1
13-Mar	A	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	0.5	0.8
14-Mar	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0.6	0.8
15-Mar	A	1	0	0	0	1	1	1	0	0	0	0	0	0	1	0	1	0	0	0	1	1	0	0	0.5	0.6
16-Mar	A	0	0	1	0	0	1	1	0	1	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0.5	0.8
17-Mar	A	1	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.4	0.6
18-Mar	A	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0.5	1.1
19-Mar	A	0	0	0	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	1	1	0.4	0.7
20-Mar	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	0.6	0.8
21-Mar	A	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	1	1	0.6	0.8
22-Mar	A	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	0	1	1	1	0	0	1	1	0.5	0.7
23-Mar	A	0	0	0	0	0	6	1	1	1	1	0	1	1	1	1	1	0	1	0	1	1	0	1	0.8	6.0
24-Mar	A	1	1	0	0	0	1	0	0	1	0	0	1	1	0	1	1	0	0	1	1	0	0	0	0.5	0.7
25-Mar	A	1	0	0	1	0	1	0	0	1	1	0	0	P	P	0	0	0	0	1	1	14	1	1	1.2	14.2
26-Mar	A	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0.7	1.6
27-Mar	A	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	0	0	1	1	1	1	0	0.7	1.6
28-Mar	A	2	0	0	0	0	0	1	1	1	0	0	1	1	0	1	1	0	1	1	1	0	1	0	0.5	1.6
29-Mar	A	1	1	1	0	1	0	1	1	0	1	1	0	1	1	1	1	0	0	1	1	1	1	1	0.6	1.3
30-Mar	A	1	1	1	0	1	1	1	0	0	1	0	0	1	1	1	1	1	1	1	0	1	0	0	0.5	0.9
31-Mar	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	0.7

--	0.5	0.5	0.5	0.5	0.5	0.7	0.6	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.9	0.5	0.5	Diurnal Average
--	1.6	1.3	1.3	1.4	0.8	6.0	1.6	0.7	1.5	0.8	1.6	1.1	0.9	0.9	0.9	0.9	5.2	0.6	0.7	0.8	0.9	14.2	0.8	0.8	Diurnal Maximum

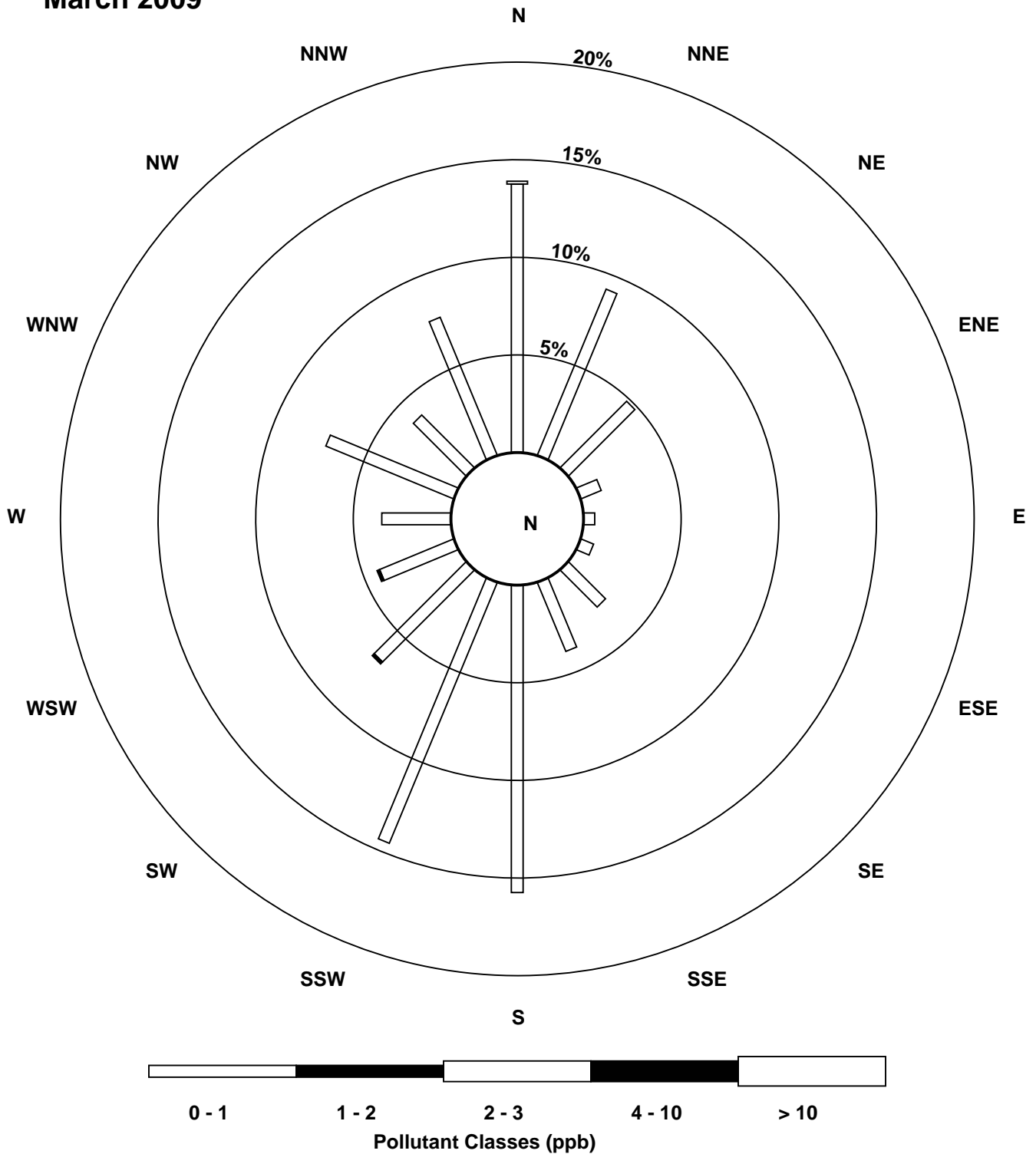
C - Calibration P - Power Failure A - Automated Daily Zero Span

Hourly Maximums for H₂S at Valleyview March 2009



Pollutant Rose for H₂S at Valleyview

March 2009



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

**Valleyview - External Temperature (ET) - °C
March 1, 2009 to April 1, 2009**

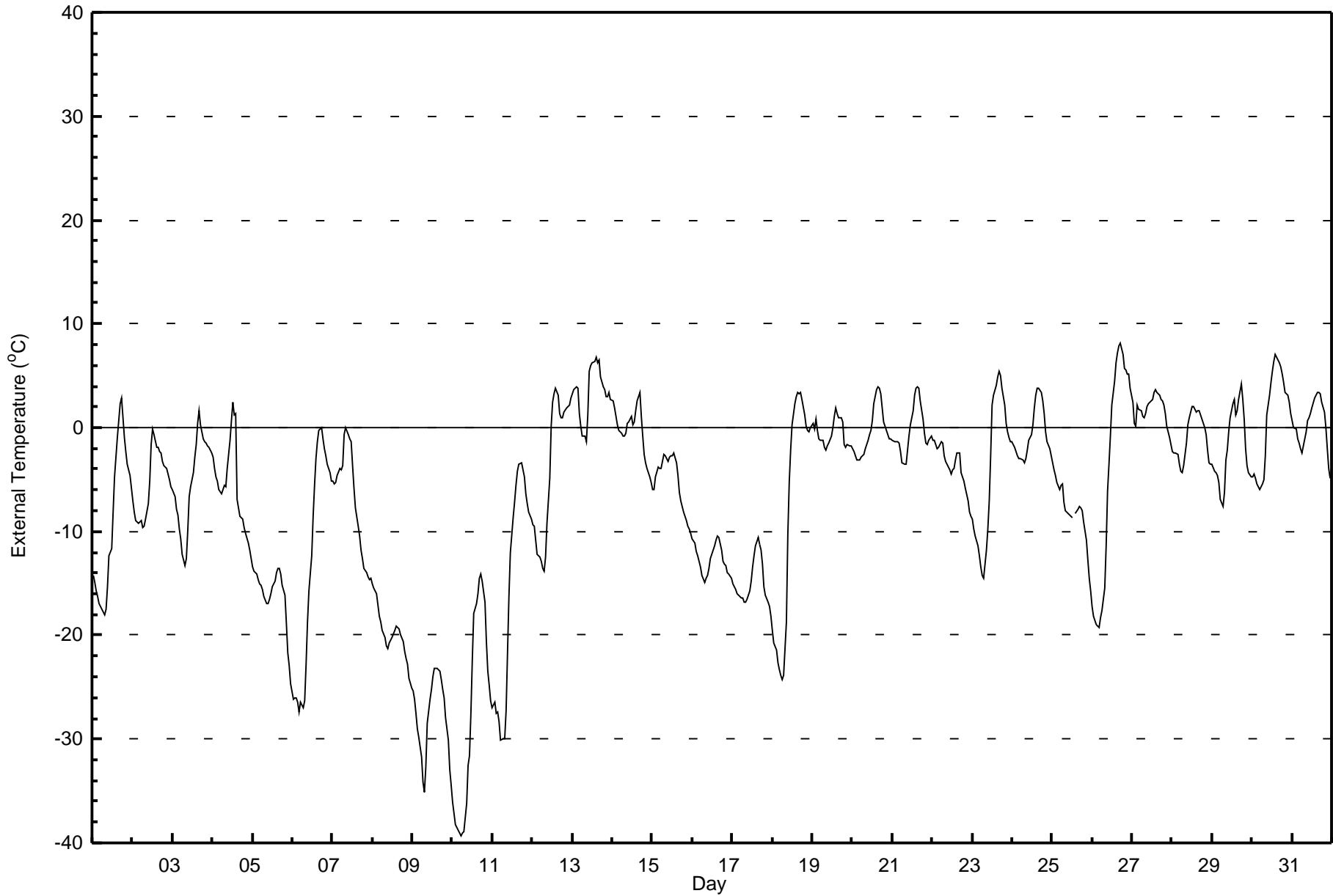
Maximum Value: 8.2 °C on Mar 26 18:00	Maximum Daily Average: 3.4 °C on Mar 13	Hours in Service: 744
Minimum Value: -39 °C on Mar 10 06:00	Minimum Daily Average: -27.9 °C on Mar 9	Hours of Data: 743
Maximum Diurnal Average: -2.4 °C at hour 17	Minimum Diurnal Average: -11.5 °C at hour 7	Hours of Missing Data: 1
Monthly Average: -6.98 °C	Percentiles: P ₁ = -36.2 P ₁₀ = -21.0 Q ₁ = -13.2 Median = -3.9 Q ₃ = 0.1 P ₉₀ = 3.0 P ₉₉ = 6.3	Hours of Calibration: 0
		Percent Operational Time: 99.9

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-Mar	-14	-15	-16	-16	-17	-18	-18	-18	-17	-15	-12	-12	-8	-5	-3	-1	2	3	1	-1	-2	-3	-5	-6	-9.0	2.8
2-Mar	-7	-8	-9	-9	-9	-9	-10	-10	-9	-7	-5	-2	0	-1	-2	-2	-2	-2	-3	-4	-4	-4	-5	-6	-5.4	-0.1
3-Mar	-6	-7	-8	-8	-10	-11	-12	-13	-13	-10	-7	-6	-4	-3	-2	0	2	0	-1	-1	-1	-2	-2	-2	-5.3	1.6
4-Mar	-3	-4	-5	-5	-6	-6	-6	-6	-6	-4	-1	1	2	1	1	-7	-9	-9	-9	-10	-10	-11	-12	-13	-5.6	2.4
5-Mar	-13	-14	-14	-15	-15	-15	-16	-16	-17	-17	-17	-16	-15	-15	-14	-14	-14	-14	-15	-16	-19	-22	-23	-25	-16.2	-13.4
6-Mar	-26	-26	-26	-26	-27	-26	-27	-26	-23	-19	-16	-12	-8	-6	-3	-1	0	0	-1	-2	-3	-4	-4	-5	-13.3	0.0
7-Mar	-5	-5	-5	-5	-4	-4	-4	-1	0	-1	-1	-1	-4	-6	-8	-9	-11	-12	-13	-14	-14	-14	-15	-14	-7.0	0.0
8-Mar	-15	-15	-16	-17	-18	-19	-19	-20	-21	-21	-21	-21	-20	-20	-19	-19	-19	-20	-21	-22	-22	-23	-24	-25	-19.9	-15.0
9-Mar	-25	-26	-28	-29	-30	-32	-34	-35	-33	-28	-26	-25	-24	-23	-23	-23	-23	-24	-25	-26	-28	-30	-33	-35	-27.9	-23.1
10-Mar	-36	-37	-38	-39	-39	-39	-39	-39	-36	-33	-32	-27	-22	-18	-17	-16	-15	-14	-15	-17	-21	-23	-25	-26	-27.6	-14.1
11-Mar	-27	-26	-28	-27	-28	-30	-30	-30	-27	-22	-16	-12	-9	-7	-6	-4	-4	-3	-4	-5	-6	-7	-8	-9	-15.7	-3.4
12-Mar	-9	-10	-11	-12	-12	-13	-14	-14	-12	-9	-5	0	2	3	4	3	1	1	1	2	2	2	2	3	-3.9	3.8
13-Mar	3	4	4	4	1	0	-1	-1	-1	1	5	6	6	6	7	6	7	5	4	4	3	3	3	3	3.4	6.8
14-Mar	3	2	1	0	0	-1	-1	-1	-1	0	1	1	0	1	2	3	3	1	-1	-3	-3	-4	-5	-5	-0.3	3.4
15-Mar	-6	-6	-5	-4	-4	-4	-3	-3	-3	-3	-3	-3	-3	-2	-3	-5	-6	-7	-8	-8	-9	-10	-10	-10	-5.3	-2.5
16-Mar	-11	-11	-12	-12	-13	-13	-14	-15	-15	-14	-14	-13	-12	-11	-11	-10	-11	-12	-13	-13	-13	-14	-14	-15	-12.7	-10.5
17-Mar	-15	-15	-16	-16	-16	-16	-16	-17	-17	-17	-16	-15	-13	-12	-11	-11	-11	-12	-13	-15	-16	-17	-17	-18	-15.0	-10.6
18-Mar	-20	-21	-21	-23	-23	-24	-24	-24	-19	-10	-5	-2	0	2	3	3	3	3	3	1	0	0	0	0	-8.2	3.4
19-Mar	0	0	1	0	-1	-1	-1	-2	-2	-2	-1	-1	0	1	2	1	1	1	1	-2	-2	-2	-2	-2	-0.5	1.9
20-Mar	-2	-2	-3	-3	-3	-3	-3	-3	-2	-1	-1	0	1	2	4	4	4	3	2	1	0	-1	-1	-1	-0.4	4.0
21-Mar	-1	-1	-1	-1	-2	-2	-3	-4	-4	-2	-1	0	2	3	4	4	4	3	1	0	-2	-2	-1	-1	-0.3	3.9
22-Mar	-1	-1	-2	-2	-2	-1	-1	-3	-3	-4	-4	-5	-4	-4	-3	-2	-2	-4	-5	-5	-6	-7	-8	-9	-3.7	-1.2
23-Mar	-9	-10	-10	-11	-12	-13	-14	-14	-12	-10	-7	-3	2	3	4	5	5	5	4	2	0	0	-1	-1	-4.1	5.5
24-Mar	-1	-2	-2	-3	-3	-3	-3	-3	-3	-2	-1	-1	0	2	3	4	4	3	3	1	0	-1	-2	-3	-0.6	3.8
25-Mar	-3	-4	-5	-5	-6	-6	-5	-7	-8	-8	-8	-9	-9	P	-8	-8	-8	-8	-8	-9	-11	-13	-14	-16	-8.1	-3.4
26-Mar	-17	-18	-19	-19	-19	-18	-18	-15	-11	-6	-4	-1	2	4	6	7	8	8	7	6	6	5	5	4	-4.1	8.2
27-Mar	2	0	0	2	2	2	1	1	1	2	2	3	3	3	4	3	3	3	3	2	1	0	-1	-2	1.7	3.7
28-Mar	-2	-2	-2	-3	-4	-4	-4	-4	-2	0	1	1	2	2	1	2	2	1	1	0	-1	-2	-3	-4	-1.0	2.1
29-Mar	-4	-4	-4	-5	-5	-7	-8	-6	-3	-2	0	1	2	3	1	2	3	4	3	1	-2	-4	-4	-5	-1.8	4.2
30-Mar	-5	-5	-5	-5	-6	-6	-5	-5	-3	1	3	4	5	6	7	7	6	6	5	4	3	3	2	1	0.9	7.1
31-Mar	1	0	0	-1	-1	-2	-2	-2	0	1	1	1	2	3	3	3	3	3	2	1	0	-2	-4	-5	0.2	3.5
	-8.9	-9.4	-9.8	-10.2	-10.8	-11.1	-11.5	-11.4	-10.3	-8.5	-6.8	-5.3	-4.0	-2.8	-2.5	-2.4	-2.4	-2.8	-3.7	-4.7	-5.8	-6.7	-7.4	-8.1	Diurnal Average	
	3.3	3.7	3.9	3.8	1.7	1.6	1.1	1.0	1.4	2.1	5.4	5.9	6.2	6.4	7.1	7.2	7.9	8.2	7.1	5.7	5.5	5.2	5.1	3.8	Diurnal Maximum	

P - Power Failure

Hourly Averages for External Temperature at Valleyview

March 2009



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

**Valleyview - Relative Humidity (RH) - %
March 1, 2009 to April 1, 2009**

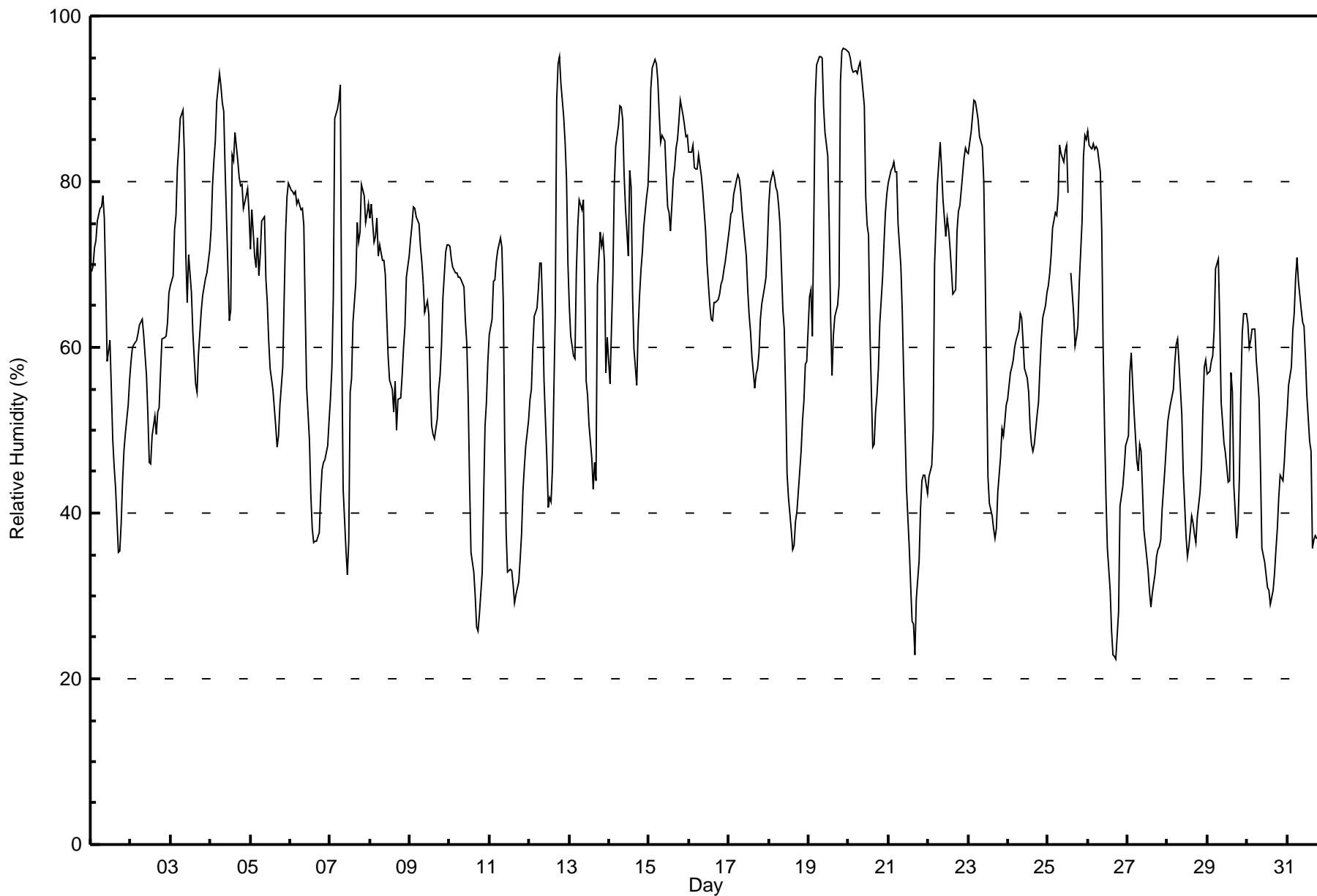
Maximum Value: 96.0 % on Mar 19 22:00	Maximum Daily Average: 85.6 % on Mar 15	Hours in Service: 744
Minimum Value: 22 % on Mar 26 18:00	Minimum Daily Average: 42.0 % on Mar 27	Hours of Data: 743
Maximum Diurnal Average: 76.5 % at hour 7	Minimum Diurnal Average: 49.3 % at hour 16	Hours of Missing Data: 1
Monthly Average: 62.93 %	Percentiles: P ₁ = 26.6 P ₁₀ = 38.0 Q ₁ = 50.3 Median = 63.7 Q ₃ = 76.4 P ₉₀ = 84.4 P ₉₉ = 95.0	Hours of Calibration: 0
		Percent Operational Time: 99.9

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-Mar	69	70	72	73	75	77	77	78	76	68	58	61	55	49	46	43	35	35	39	44	48	50	53	56	58.6	78.3
2-Mar	58	60	60	61	62	63	63	63	62	57	52	46	46	49	52	50	52	53	57	61	61	61	63	67	57.4	66.6
3-Mar	67	69	74	76	82	84	88	89	83	71	65	71	67	62	59	56	55	59	64	66	67	68	69	72	70.1	88.6
4-Mar	74	80	83	85	90	93	92	89	88	81	69	63	65	83	83	86	82	80	79	80	77	78	79	76	80.7	93.0
5-Mar	72	77	71	70	73	69	71	75	76	68	65	61	58	55	53	50	48	49	53	58	66	74	78	80	65.4	79.9
6-Mar	79	79	78	79	77	78	77	77	75	65	55	49	42	38	36	37	37	38	42	45	46	47	48	51	57.2	79.1
7-Mar	54	58	66	88	89	90	92	60	43	36	33	37	55	56	63	68	75	73	74	80	78	75	76	77	66.4	91.7
8-Mar	76	77	73	73	76	71	72	71	70	69	64	59	56	55	52	56	50	54	54	57	60	62	68	71	64.4	77.3
9-Mar	73	75	77	77	76	75	72	70	68	64	66	64	55	50	50	49	51	55	57	60	66	72	72	72	65.3	77.0
10-Mar	72	71	70	69	69	68	69	68	67	63	60	54	44	35	33	30	26	26	28	33	42	51	53	58	52.5	72.2
11-Mar	62	63	68	68	70	72	73	72	65	49	38	33	33	33	31	29	30	32	34	37	43	46	48	51	49.2	73.2
12-Mar	54	55	60	64	65	67	70	70	64	56	47	41	42	41	45	64	90	94	95	92	88	85	80	70	66.6	95.1
13-Mar	65	61	59	59	69	75	78	77	78	67	56	54	51	47	43	46	44	68	74	72	73	70	57	61	62.6	77.8
14-Mar	56	62	69	80	84	87	89	89	87	81	77	71	81	79	66	60	55	62	66	69	72	75	78	79	74.0	89.1
15-Mar	84	91	94	95	94	92	88	85	86	85	81	77	76	74	80	82	84	85	87	90	88	87	85	86	85.6	94.7
16-Mar	84	84	84	82	82	82	83	81	79	76	74	70	65	63	63	65	65	66	66	68	68	69	70	73	73.4	84.4
17-Mar	74	76	76	79	80	81	80	79	76	75	71	67	64	62	59	55	57	57	59	63	65	67	68	72	69.4	80.8
18-Mar	77	80	81	80	79	79	77	75	65	62	54	45	42	38	36	36	39	40	42	47	51	54	58	58	58.2	81.2
19-Mar	66	67	61	75	90	94	95	95	95	89	86	83	75	64	57	62	64	65	67	92	96	96	96	96	80.2	96.0
20-Mar	96	95	94	93	93	93	94	94	93	89	78	75	74	62	48	48	52	54	58	63	68	73	76	78	76.7	95.5
21-Mar	80	81	82	82	81	81	75	70	64	57	50	43	36	31	27	27	23	30	34	40	44	45	45	42	52.9	82.3
22-Mar	44	45	46	50	70	80	82	85	82	78	73	76	74	72	69	66	67	74	76	77	79	83	84	84	71.5	84.7
23-Mar	83	85	86	90	90	89	87	85	84	80	69	57	44	41	40	38	37	38	42	47	50	49	51	53	63.2	89.8
24-Mar	54	57	58	58	60	61	62	64	64	61	58	56	55	50	48	47	48	52	53	58	61	64	65	67	57.5	66.6
25-Mar	67	69	71	74	76	76	78	84	83	82	84	84	79	P	69	64	60	61	63	68	75	83	86	85	74.9	85.5
26-Mar	86	84	84	85	84	84	84	81	74	60	50	42	36	31	26	23	23	22	28	41	42	43	45	48	54.5	86.1
27-Mar	49	57	59	56	52	46	45	48	47	43	38	35	33	31	29	30	33	35	36	36	37	41	45	48	42.0	59.3
28-Mar	51	52	53	55	58	60	61	58	52	45	41	37	35	36	40	39	37	36	39	43	46	52	58	59	47.6	60.9
29-Mar	57	57	58	59	62	70	71	63	53	51	49	47	44	44	57	55	43	37	39	44	55	62	64	64	54.3	70.6
30-Mar	63	60	61	62	62	58	56	54	45	36	34	33	31	31	29	31	33	36	38	42	44	44	46	50	44.9	62.9
31-Mar	52	55	58	62	64	68	71	68	65	63	62	59	54	49	47	36	37	37	37	37	40	50	58	64	53.9	70.8
	67.7	69.4	70.5	72.8	75.3	76.2	76.5	74.8	71.3	65.4	59.9	56.4	53.7	50.4	49.5	49.3	49.5	51.7	54.3	58.4	61.2	63.7	65.3	66.8	Diurnal Average	
	95.5	95.0	93.7	94.7	94.2	94.1	95.0	95.1	94.9	89.1	85.9	84.4	81.4	83.2	82.5	86.0	89.9	94.2	95.1	92.0	95.8	96.0	96.0	95.8	Diurnal Maximum	

P - Power Failure

Hourly Averages for Relative Humidity at Valleyview

March 2009



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

Valleyview
March 1, 2009 to April 1, 2009
WS (km/h), WD (deg)

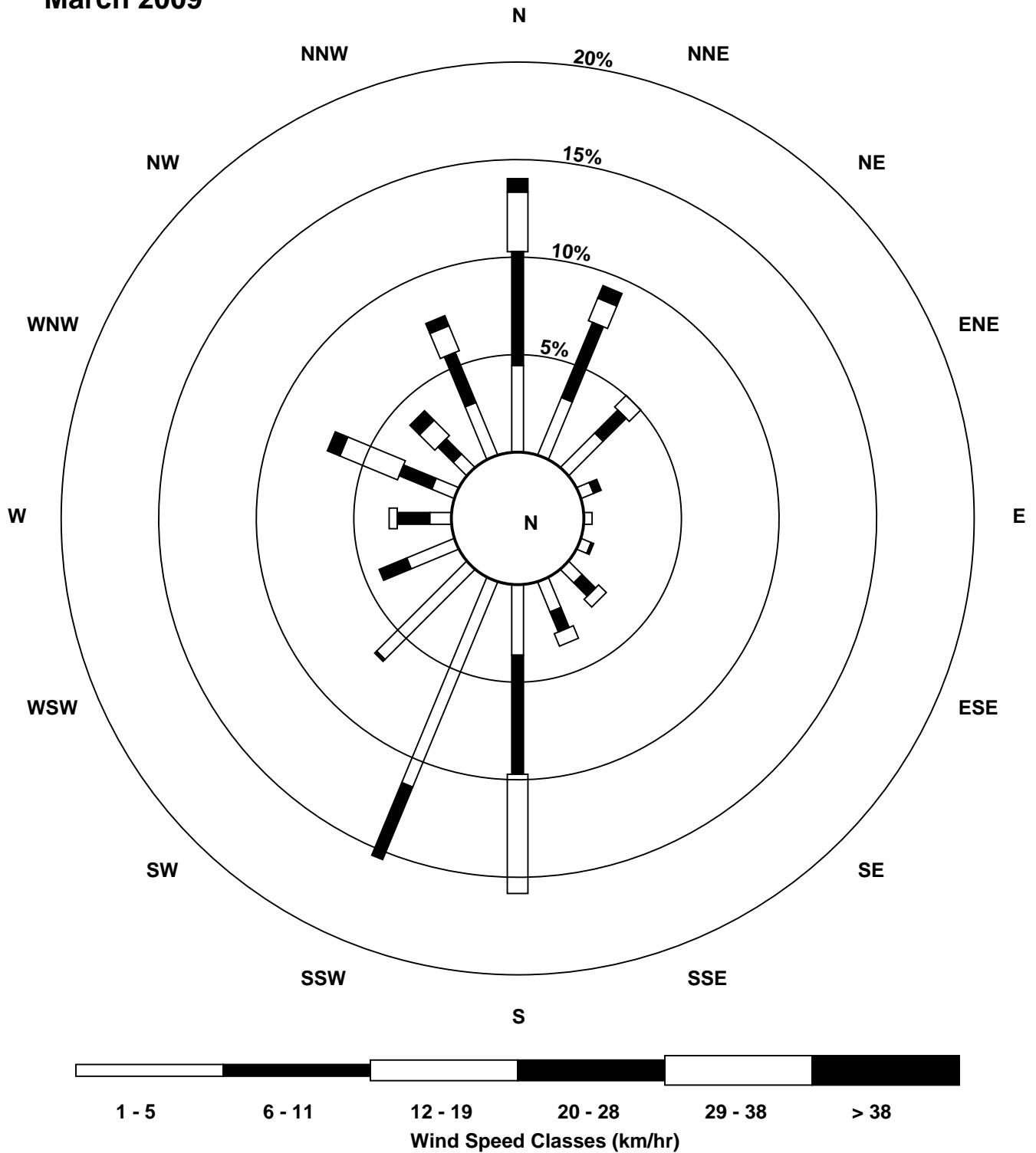
Day	Hourly Period Ending At (MST)																								Daily Average	Daily Maximum
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1 Spd	9	9	7	8	4	5	4	2	1	1	1	5	5	5	6	6	1	6	4	4	4	7	10	11	2.6	10.7
Dir	194	193	193	193	200	197	202	218	346	149	295	350	359	3	354	345	280	176	139	147	163	185	190	187	192.4	187.4
2 Spd	10	12	12	9	8	6	8	12	10	10	9	4	3	4	6	7	7	5	7	5	2	2	2	3	3.3	12.2
Dir	189	189	190	187	184	194	187	188	190	188	187	191	204	352	23	353	354	16	356	350	293	239	238	243	198.2	189.7
3 Spd	4	4	2	2	2	3	3	2	2	4	1	4	4	4	3	2	4	5	4	4	1	1	1	1	1.0	5.0
Dir	181	232	172	162	214	244	202	152	240	177	354	354	4	14	358	300	283	321	261	262	267	88	49	197	262.9	321.4
4 Spd	1	1	3	3	3	3	5	3	2	3	1	2	13	8	5	25	25	26	24	25	22	22	17	19	7.8	26.2
Dir	196	237	218	218	219	221	210	223	214	207	231	199	291	297	358	21	14	3	1	9	12	14	14	4	359.7	3.4
5 Spd	15	16	16	15	14	19	15	11	11	15	12	14	13	12	10	11	11	10	7	5	2	3	4	3	9.8	19.1
Dir	10	9	5	4	359	353	349	335	331	339	329	336	313	320	325	325	328	330	353	342	211	211	203	213	341.5	352.8
6 Spd	2	4	1	2	2	3	2	3	2	9	12	10	8	10	9	7	8	6	8	7	8	7	4	3	5.5	12.2
Dir	200	187	237	205	213	211	252	226	214	191	187	180	177	179	182	181	180	183	188	197	189	190	209	214	190.3	187.4
7 Spd	4	4	7	9	4	4	3	14	17	21	18	18	23	24	25	24	20	22	20	21	19	18	15	17	12.0	25.2
Dir	191	206	183	184	199	192	186	286	295	293	293	302	315	314	323	331	323	333	337	348	347	358	353	355	318.9	322.6
8 Spd	14	14	23	20	19	20	18	19	17	13	14	12	9	8	14	11	8	9	6	3	3	3	2	3	11.6	23.4
Dir	10	8	6	10	10	11	12	12	15	15	11	9	21	18	350	5	23	25	24	352	344	338	326	28	10.2	5.8
9 Spd	5	4	1	2	1	0	2	2	1	2	2	5	6	6	7	7	9	9	6	3	2	1	2	3	2.6	9.2
Dir	21	20	16	353	340	30	190	190	186	164	353	352	9	360	357	357	9	355	6	24	331	189	182	222	1.7	354.9
10 Spd	3	2	2	2	4	2	3	2	2	1	4	3	3	4	5	7	7	6	3	1	1	1	2	1	1.8	7.4
Dir	209	215	203	234	198	222	220	206	216	199	346	340	333	182	165	175	178	169	162	349	8	160	204	207	196.6	174.5
11 Spd	3	3	4	4	5	2	3	4	5	4	2	5	8	10	8	8	6	5	5	6	5	6	6	6	3.9	9.8
Dir	223	226	213	218	216	220	222	222	214	200	212	203	289	300	304	280	283	285	264	273	224	192	197	181	244.2	300.4
12 Spd	5	7	5	6	5	6	5	4	5	6	5	3	9	10	10	13	4	5	7	7	6	5	4	7	4.3	13.1
Dir	208	197	211	216	215	214	216	220	212	208	199	262	313	312	302	303	258	190	187	191	198	188	198	190	229.5	302.6
13 Spd	9	9	10	5	2	3	4	3	3	4	5	12	14	15	11	6	4	5	3	3	4	3	5	6	4.4	14.6
Dir	192	191	192	200	265	198	207	205	201	199	271	295	298	292	283	328	282	207	206	206	201	217	246	255	245.6	292.4
14 Spd	7	6	6	6	5	5	5	4	5	3	6	6	5	4	4	3	3	10	10	8	7	6	7	7	1.8	10.0
Dir	292	264	195	197	196	191	191	210	195	204	303	264	296	349	357	323	12	357	21	32	24	29	9	23	325.7	356.7
15 Spd	7	7	5	6	6	5	4	9	7	5	8	10	9	7	7	12	15	11	12	15	13	12	10	12	5.0	15.1
Dir	26	27	22	33	46	50	103	130	122	90	125	139	136	139	30	10	358	331	333	350	359	346	333	354	23.3	357.7
16 Spd	9	10	8	9	4	6	5	7	9	9	7	7	9	10	8	6	10	10	7	5	5	4	2	3	6.8	10.5
Dir	350	349	1	356	18	4	342	341	341	350	4	3	7	2	1	1	6	8	12	30	59	47	47	350	2.4	349.5
17 Spd	4	4	4	2	5	4	3	5	7	7	8	10	9	9	12	10	12	10	9	8	5	5	2	1	6.1	12.1
Dir	6	4	31	46	31	23	29	32	30	14	352	351	346	339	357	10	3	6	12	6	20	0	352	222	5.9	356.8
18 Spd	1	1	3	1	1	2	1	1	1	6	10	15	13	17	14	14	11	12	15	13	7	3	2	6.9	16.5	
Dir	28	43	336	219	206	198	200	196	180	194	190	183	185	181	181	179	184	173	177	184	189	196	249	277	185.9	181.2
19 Spd	3	2	6	6	6	2	1	3	4	3	5	6	6	4	3	9	11	10	8	8	5	2	1	1	2.7	11.1
Dir	32	206	280	253	264	199	145	36	7	37	358	342	342	6	54	357	356	11	49	62	117	112	113	43	7.4	356.0
20 Spd	1	1	3	3	3	2	2	3	3	2	4	6	7	11	16	15	13	14	15	15	14	16	19	16	7.3	18.6
Dir	338	134	36	42	53	125	82	67	76	91	130	150	134	127	138	136	141	136	148	146	163	176	174	180	145.0	173.8
21 Spd	12	12	12	7	3	6	4	2	2	2	3	4	3	2	3	6	8	11	12	10	8	6	5	5	2.0	12.5
Dir	190	171	187	205	255	288	306	251	282	39	52	51	18	22	125	67	51	58	50	44	43	55	53	60	74.9	170.8
22 Spd	5	5	6	7	6	8	9	13	13	12	12	11	11	12	11	12	13	12	9	8	7	9	6	5	9.0	13.2
Dir	53	61	35	37	28	50	50	45	54	49	37	40	33	28	32	39	20	14	21	29	31	40	23	353	35.6	45.1

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

Valleyview
March 1, 2009 to April 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	3	5	3	2	1	1	1	2	1	3	5	4	12	14	12	11	9	9	8	12	12	15	12	8	4.5	14.9
Dir	35	341	357	350	231	141	350	197	255	2	345	336	181	185	187	178	169	163	150	162	164	173	170	170	173.0	173.3
24 Spd	8	10	10	9	11	12	16	14	16	15	15	14	13	13	12	12	11	10	9	8	7	7	4	6	10.7	16.3
Dir	170	169	183	188	184	185	184	186	184	186	186	185	186	179	185	181	167	170	161	164	164	187	186	193	180.4	183.7
25 Spd	8	4	3	2	3	4	6	15	14	11	5	6	12	P	11	10	8	7	4	2	1	1	2	1	4.4	14.6
Dir	179	177	200	166	333	348	329	312	311	328	347	357	316	P	310	314	303	304	314	342	26	240	197	200	311.5	312.0
26 Spd	1	1	2	1	2	3	3	1	3	13	16	17	13	13	13	14	13	12	5	4	5	4	6	4	6.2	16.7
Dir	203	223	220	234	241	208	235	231	188	188	185	183	178	180	176	178	174	185	257	226	207	265	293	204	192.5	183.0
27 Spd	3	2	7	15	14	23	16	12	17	21	19	20	19	18	23	19	16	13	12	16	13	9	8	5	13.6	22.7
Dir	215	195	302	280	280	288	286	282	283	297	300	309	310	303	293	294	299	300	302	292	288	265	253	247	291.1	292.6
28 Spd	5	9	10	9	7	6	6	4	8	14	13	10	10	13	15	12	10	6	4	2	2	2	2	4	6.3	14.7
Dir	255	263	268	268	257	254	250	239	263	291	299	306	301	330	346	344	346	336	332	333	299	205	203	184	297.6	344.4
29 Spd	4	2	2	3	2	2	2	1	4	5	3	4	3	5	10	6	3	1	3	1	2	1	3	4	0.5	9.7
Dir	208	196	149	175	186	176	167	162	292	315	310	3	13	8	8	23	353	174	144	191	186	229	219	213	303.3	7.9
30 Spd	4	7	5	5	6	7	6	6	7	7	7	8	8	11	17	20	17	11	5	6	4	5	5	4	6.3	19.8
Dir	198	186	198	194	193	191	195	196	209	208	239	248	240	269	287	285	272	255	232	238	220	208	197	187	237.3	285.0
31 Spd	6	6	1	2	3	2	2	2	1	5	6	6	5	8	6	12	8	8	6	5	3	2	3	4	1.8	12.3
Dir	193	194	214	215	217	210	170	217	158	335	344	350	354	355	15	314	353	26	19	18	331	203	208	202	331.7	313.7
Spd	1.0	1.4	1.1	1.4	1.3	1.4	1.2	1.4	1.9	2.0	2.3	2.7	3.7	3.2	3.8	4.4	3.7	3.0	2.4	1.7	0.3	0.5	1.2	1.0	Diurnal Average	
Dir	209.2	209.7	242.7	248.5	261.1	271.0	245.8	270.9	280.7	280.8	293.0	304.3	306.4	310.0	322.7	332.5	337.5	346.6	0.3	357.0	343.2	216.6	227.7	232.8	Diurnal Maximum	
Spd	15.5	16.5	23.4	20.4	18.9	22.6	17.5	18.7	17.0	20.8	19.0	20.0	23.2	24.2	25.2	24.9	24.7	26.2	24.2	24.6	21.8	21.6	18.6	19.1	Diurnal Maximum	
Dir	10.1	8.8	5.8	9.8	9.8	288.3	12.0	11.8	15.1	297.1	300.3	308.9	314.8	313.9	322.6	20.9	13.8	3.4	1.1	9.2	11.6	13.7	173.8	3.8		
Maximum Speed Value: 26 km/h on Mar 4 18:00		Minimum Speed Value: 0 km/h on Mar 9 06:00																Hours in Service: 744								
Maximum Daily Speed Average: 13.6 km/h on Mar 7		Minimum Daily Speed Average: 0.5 km/h on Mar 3																Hours of Data: 743								
Maximum Diurnal Speed Average: 4.4 km/h at hour 16		Minimum Diurnal Speed Average: 0.3 km/h at hour 21																Hours of Missing Data: 1								
Monthly Average Velocity: 1.52 km/h 302.54 deg		Speed Percentiles: P ₁ = 0.7 P ₁₀ = 1.8 Q ₁ = 3.3 Median = 6.0 Q ₃ = 10.3 P ₉₀ = 14.5 P ₉₉ = 24.2																Percent Operational Time: 99.9								
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	52	67	37	13	0	0	169																			
NorthEast	28	40	10	0	0	0	78																			
East	6	1	0	0	0	0	7																			
SouthEast	14	9	7	0	0	0	30																			
South	71	79	48	0	0	0	198																			
SouthWest	99	16	0	0	0	0	115																			
West	21	27	14	2	0	0	64																			
NorthWest	17	26	26	13	0	0	82																			
Total	308	265	142	28	0	0	743																			

Wind Rose for WS at Valleyview March 2009



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

Valleyview - Wind Speed (WS) - km/h
March 1, 2009 to April 1, 2009

Maximum Speed: 26 km/h on Mar 4 18:00	Maximum Daily Speed Average: 15.8 km/h on Mar 7	Hours in Service: 744
Minimum Speed: 1 km/h on Mar 9 06:00	Minimum Daily Speed Average: 3.0 km/h on Mar 3	Hours of Data: 743
Maximum Diurnal Speed Average: 11.3 km/h at hour 16	Minimum Diurnal Speed Average: 5.4 km/h at hour 5	Hours of Missing Data: 1
Monthly Average Speed: 7.58 km/h	Percentiles: P ₁ = 1.3 P ₁₀ = 2.2 Q ₁ = 3.6 Median = 6.2 Q ₃ = 10.5 P ₉₀ = 14.7 P ₉₉ = 24.4	Percent Operational Time: 99.9

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-Mar	9	9	7	8	4	5	4	2	1	2	3	5	5	5	6	6	4	6	4	4	5	7	10	11	5.5	10.8
2-Mar	10	12	12	10	9	6	8	12	10	10	9	4	3	5	6	7	7	5	7	6	3	3	3	3	7.1	12.3
3-Mar	4	4	2	2	3	3	3	2	2	4	2	4	4	4	3	3	4	6	4	4	1	2	1	2	3.0	5.6
4-Mar	1	1	3	3	3	3	5	3	3	3	1	2	13	8	5	25	25	26	24	25	22	22	18	19	11.0	26.3
5-Mar	16	17	16	15	14	19	16	11	12	16	12	14	13	12	11	11	11	10	7	5	3	3	4	3	11.3	19.3
6-Mar	2	4	2	3	3	3	2	4	2	9	12	10	8	10	10	7	8	6	8	7	8	7	4	3	5.9	12.3
7-Mar	4	5	7	9	5	5	4	14	17	21	18	18	24	25	25	25	21	22	20	21	19	18	15	17	15.8	25.4
8-Mar	14	14	24	21	19	20	18	19	17	13	14	12	10	8	15	12	8	9	6	3	3	3	2	3	12.0	23.6
9-Mar	5	4	2	2	1	1	2	2	1	2	3	5	7	6	7	7	9	9	6	3	2	1	2	3	3.9	9.2
10-Mar	3	2	2	2	4	2	3	2	2	3	5	4	3	5	6	8	7	6	3	2	1	2	3	2	3.3	7.7
11-Mar	3	4	4	4	5	2	3	4	5	4	3	5	9	10	9	8	6	5	5	6	5	6	6	6	5.4	10.0
12-Mar	5	7	5	6	5	6	5	4	5	6	5	5	9	10	10	14	5	5	7	7	6	5	4	7	6.4	13.6
13-Mar	9	10	10	5	3	3	4	4	4	4	6	12	14	15	11	8	5	5	3	3	4	4	5	6	6.6	14.8
14-Mar	7	7	6	6	5	5	5	5	5	4	7	7	6	4	4	4	3	10	10	8	7	6	7	8	6.1	10.1
15-Mar	7	7	5	6	6	5	6	9	7	6	8	10	9	7	8	13	15	11	12	15	13	12	10	12	9.2	15.2
16-Mar	9	11	8	9	4	6	5	7	9	9	7	7	9	10	8	7	10	10	7	6	5	4	2	3	7.2	10.6
17-Mar	4	4	4	2	5	4	3	5	7	7	8	10	10	10	12	11	12	10	9	8	5	5	2	2	6.6	12.2
18-Mar	1	2	3	1	2	2	1	1	1	6	10	16	13	17	15	14	14	11	12	15	13	7	4	3	7.8	16.7
19-Mar	6	4	6	6	6	2	2	4	5	3	5	6	6	5	4	9	11	10	8	8	5	2	1	2	5.2	11.2
20-Mar	1	1	3	3	3	2	3	3	3	3	4	6	7	11	16	15	14	14	15	16	14	17	19	16	8.7	18.8
21-Mar	12	13	13	7	4	6	4	3	3	3	3	4	3	3	4	6	8	11	12	10	8	6	5	5	6.5	12.6
22-Mar	5	5	6	8	6	8	10	13	13	13	12	12	11	13	12	12	13	12	9	8	7	9	6	5	9.4	13.3
23-Mar	4	5	3	2	1	2	2	2	2	3	6	5	12	14	12	11	9	10	9	12	12	15	13	8	7.2	15.0
24-Mar	8	10	10	9	11	12	16	14	16	16	15	14	13	13	12	12	11	10	9	9	8	7	4	6	11.0	16.4
25-Mar	8	4	3	2	3	4	6	15	14	11	6	7	13	P	12	10	8	7	4	2	2	2	2	2	6.3	14.7
26-Mar	2	1	2	1	2	3	3	1	4	13	16	17	13	13	13	14	13	12	9	6	5	5	6	4	7.4	16.9
27-Mar	3	3	8	15	14	23	16	12	17	21	19	20	19	18	23	20	16	14	12	16	13	9	8	5	14.4	23.0
28-Mar	5	9	10	9	7	6	6	5	8	14	14	13	11	10	13	15	12	10	6	4	3	2	2	4	8.3	14.8
29-Mar	4	2	3	3	2	3	4	2	5	5	4	4	3	5	10	6	3	2	3	2	2	1	3	4	3.5	10.2
30-Mar	4	7	5	5	6	7	6	6	7	7	8	8	8	11	18	20	17	11	5	6	4	5	5	4	7.9	20.0
31-Mar	6	6	3	3	3	2	3	2	1	5	6	7	5	9	6	12	9	8	6	5	3	3	3	4	5.0	12.5

5.9	6.2	6.4	6.0	5.4	5.7	5.7	6.2	6.7	7.9	8.2	8.8	9.5	9.9	10.5	11.3	10.2	9.8	8.4	8.1	6.8	6.5	5.9	5.9	Diurnal Average
15.6	16.6	23.6	20.6	19.0	22.8	17.6	18.8	17.1	21.1	19.1	20.3	23.6	24.6	25.4	25.0	24.9	26.3	24.3	24.7	21.9	21.7	18.8	19.2	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**

**Valleyview - Wind Direction (WD) - deg
March 1, 2009 to April 1, 2009**

Maximum Value: 88.6 deg on Mar 26 09:00																								Hours in Service:	744
Minimum Value: 2.9 deg on Mar 12 06:00																								Hours of Data:	743
Percentiles: P ₁ = 4.2 P ₁₀ = 6.6 Q ₁ = 8.7 Median = 12.1 Q ₃ = 22.2 P ₉₀ = 41.3 P ₉₉ = 80.9																								Hours of Missing Data:	1
																								Hours of Calibration:	0
																								Percent Operational Time:	99.9
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-Mar	6	7	7	6	17	9	8	38	54	78	84	13	6	16	9	19	83	15	14	9	32	8	7	6	83.9
2-Mar	6	7	7	8	12	15	13	10	11	9	10	15	21	54	17	12	14	13	19	47	86	55	43	24	85.7
3-Mar	40	28	38	35	25	17	16	48	38	14	74	25	13	22	19	65	27	28	16	8	76	69	66	62	75.8
4-Mar	52	26	9	6	11	7	14	10	15	8	46	20	27	15	20	6	8	7	6	5	6	6	7	6	52.2
5-Mar	6	6	5	6	6	6	6	6	7	10	11	8	17	11	11	9	7	10	5	6	32	14	24	20	32.2
6-Mar	31	18	37	26	27	25	24	21	17	10	7	10	10	10	10	12	11	9	8	10	8	9	9	9	37.2
7-Mar	7	12	12	7	44	23	41	21	8	7	10	10	11	11	6	10	9	13	7	6	7	12	13	9	44.4
8-Mar	16	10	7	8	7	6	7	6	5	10	11	15	16	15	13	23	14	11	10	14	17	27	31	17	30.6
9-Mar	4	7	68	36	21	71	9	13	14	11	58	7	17	16	10	10	8	3	9	16	19	63	34	9	70.9
10-Mar	15	14	24	21	19	14	19	27	26	85	12	13	33	41	20	16	15	16	16	50	74	81	54	45	85.5
11-Mar	28	8	11	6	4	23	8	9	4	15	51	11	32	12	18	16	16	14	9	12	28	16	14	8	50.8
12-Mar	13	5	5	5	3	3	5	7	8	5	12	44	10	9	16	17	31	12	8	10	22	9	5	5	44.2
13-Mar	4	4	4	17	40	20	9	36	16	8	44	9	8	10	13	43	39	16	40	14	11	23	15	16	43.5
14-Mar	19	37	9	12	9	7	6	35	26	32	22	13	29	18	8	38	44	10	8	9	9	12	8	10	44.3
15-Mar	10	10	10	8	12	15	55	7	17	23	22	11	14	17	45	16	6	16	7	7	6	11	9	10	54.8
16-Mar	10	12	17	9	22	17	15	11	8	8	7	8	6	9	11	16	13	5	5	17	13	15	46	36	46.4
17-Mar	10	11	9	23	11	13	14	11	10	14	7	4	9	13	9	14	7	5	6	9	13	12	54	60	59.7
18-Mar	65	56	25	33	48	33	43	27	30	37	9	10	9	9	8	9	6	7	7	5	6	14	49	41	65.2
19-Mar	65	53	22	11	8	22	24	37	24	16	12	6	7	38	36	12	7	9	10	18	20	21	22	39	64.9
20-Mar	65	39	22	16	27	20	21	14	18	22	8	13	10	10	13	10	11	9	10	12	11	13	9	9	64.5
21-Mar	12	10	10	23	36	19	39	38	57	29	32	12	34	43	58	26	19	9	8	7	8	12	23	10	58.3
22-Mar	16	13	7	10	9	10	7	7	9	9	10	11	12	12	14	12	7	9	7	6	8	7	12	16	15.6
23-Mar	29	17	16	31	69	62	63	26	84	23	11	49	11	9	12	18	19	18	9	11	12	7	7	10	84.5
24-Mar	11	11	8	8	7	8	6	9	8	8	9	11	11	12	10	10	13	14	13	20	16	11	12	9	19.5
25-Mar	8	13	9	62	12	9	10	6	8	12	29	30	12	P	10	11	10	9	8	24	62	53	29	21	61.6
26-Mar	34	19	21	47	32	17	27	44	89	9	9	7	9	10	9	9	8	7	56	33	9	29	17	26	88.6
27-Mar	13	43	50	8	8	7	9	11	9	10	8	9	8	9	9	11	11	11	9	8	8	11	6	10	49.9
28-Mar	10	11	6	6	6	5	13	12	21	11	12	9	19	21	10	8	9	9	5	7	32	20	14	16	32.4
29-Mar	9	17	52	22	48	41	52	65	37	18	32	23	26	28	18	17	29	82	24	39	52	29	7	3	81.9
30-Mar	20	12	8	7	5	8	4	7	6	14	19	16	18	13	11	8	8	11	12	13	7	8	12	18	19.5
31-Mar	11	8	74	18	5	24	37	25	62	16	14	23	19	32	19	12	31	19	16	14	23	16	10	10	74.2
65.2	56.4	74.2	61.6	68.7	70.9	63.1	65.2	88.6	85.5	83.9	49.0	34.1	53.6	58.3	65.2	83.0	81.9	56.2	49.6	85.7	80.8	66.2	62.2		
P - Power Failure																									

PASZA

Monthly Passive Data Summary

PASZA Passive Results for March 2009

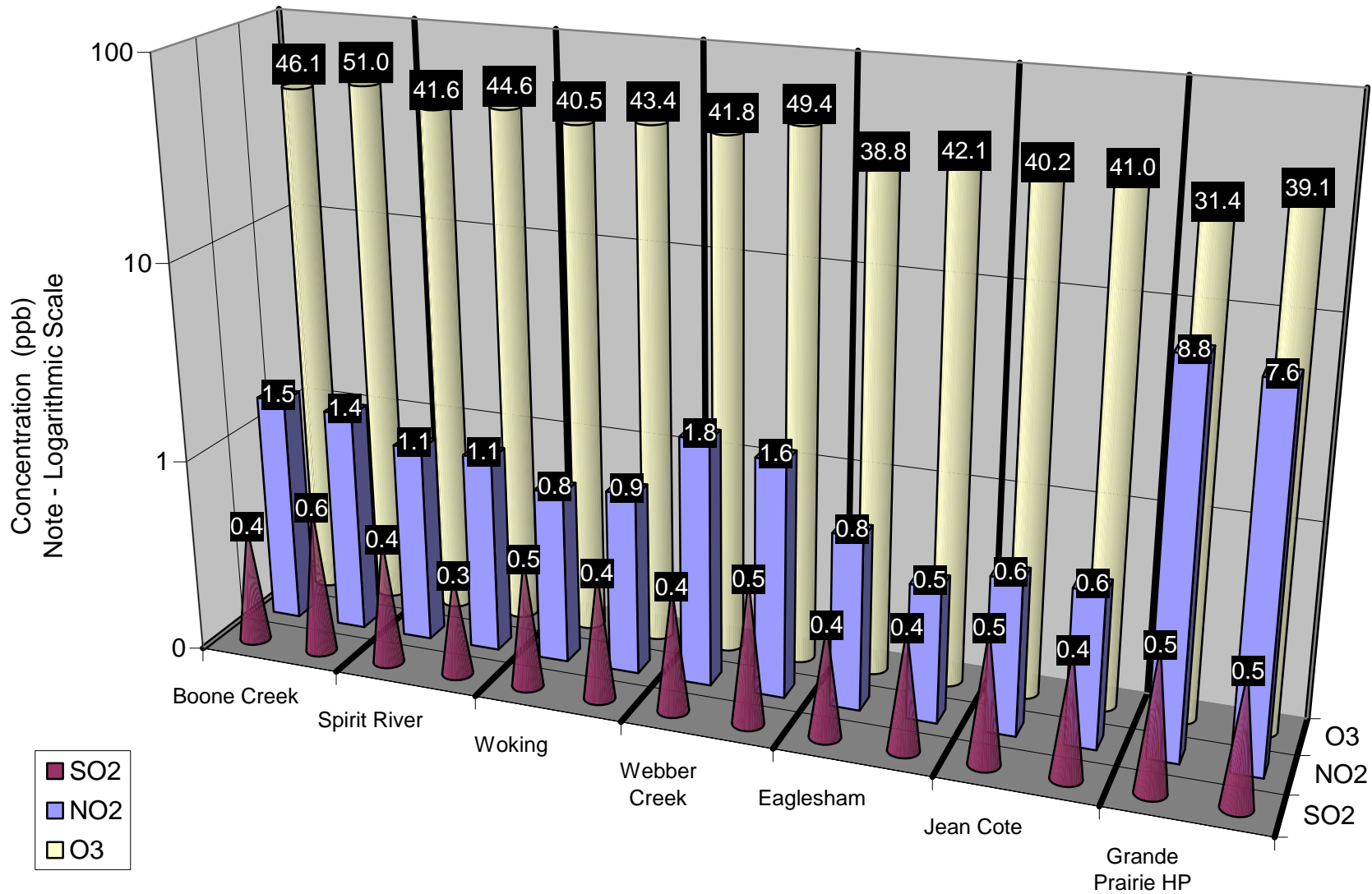
Peace Airshed Zone Association - PASZA Passive Stations for March 2009

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
Duplicates					
5a	Boone Creek	0.4	46.1	1.5	
5b	Boone Creek	0.6	51.0	1.4	
9a	Spirit River	0.4	41.6	1.1	
9b	Spirit River	0.3	44.6	1.1	
10a	Woking	0.5	40.5	0.8	
10b	Woking	0.4	43.4	0.9	
11a	Webber Creek	0.4	41.8	1.8	
11b	Webber Creek	0.5	49.4	1.6	
21a	Eaglesham	0.4	38.8	0.8	
21b	Eaglesham	0.4	42.1	0.5	
35a	Jean Cote	0.5	40.2	0.6	
35b	Jean Cote	0.4	41.0	0.6	
49a	Grande Prairie HP	0.5	31.4	8.8	
49b	Grande Prairie HP	0.5	39.1	7.6	
1	Silver Valley	0.4	38.8	1.3	08-27-081-11 W6M
2	Bay Tree	0.5	38.4	1.2	13-16-078-13 W6M
3	Forth Creek	0.4	42.2	0.9	04-13-082-07 W6M
4	Gordondale	0.5	49.0	1.1	04-34-078-10 W6M
5	Boone Creek	0.5	48.6	1.5	01-23-076-11 W6M
7	Steeprock Creek	0.4	43.9	1.2	09-35-072-13 W6M
9	Spirit River	0.4	43.1	1.1	08-12-079-07 W6M
10	Woking	0.5	42.0	0.8	01-13-076-07 W6M
11	Webber Creek	0.5	45.6	1.7	09-36-074-09 W6M
12	Hythe	0.4	40.4	2.1	14-36-072-11 W6M
14	Sylvester	0.4	46.3	1.6	08-06-069-12 W6M
16	Beaverlodge	0.5	41.4	3.3	15-36-071-10 W6M
17	Poplar	0.6	48.2	2.2	13-06-073-08 W6M
18	Saddle Hills	0.6	45.9	1.2	04-25-074-07 W6M
19	Wanham	0.4	38.1	0.9	16-22-077-03 W6M
20	Shaftesbury	0.3	34.6	0.7	04-03-082-23 W5M
21	Eaglesham	0.4	40.5	0.6	16-21-079-25 W5M
23	Bear Lake	0.7	49.5	1.5	15-31-072-06 W6M

PASZA Passive Results for March 2009 (Continued)

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	Site Legal
24	Wembley	0.5	54.7	1.7	12-31-070-08 W6M
25	Pinto Creek	0.4	45.7	1.3	04-24-069-11 W6M
26	Flyingshot	0.4	43.9	3.4	15-36-070-07 W6M
27	Grande Prairie I	0.5	37.7	8.1	08-15-071-06 W6M
28	Clairmont Lake	0.6	48.1	1.6	09-06-073-04 W6M
29	Smoky Heights	0.7	45.4	2.0	04-06-075-02 W6M
30	Fitzsimmons	0.3	48.7	1.3	15-36-072-03 W6M
32	Gold Creek	0.5	43.6	4.7	06-33-067-05 W6M
33	Wapiti	0.4	45.3	1.4	02-25-071-03 W6M
34	Puskwaskau	0.3	38.2	0.7	15-35-074-25 W5M
35	Jean Cote	0.5	40.6	0.6	12-35-079-21 W5M
36	Guy	0.5	38.4	0.6	03-04-076-22 W5M
37	Crooked Creek	0.5	44.6	1.7	16-01-071-26 W5M
39	Clouston Creek	0.5	46.4	1.0	12-01-073-22 W5M
40	McLennan	0.3	44.6	0.6	03-29-077-19 W5M
41	Valleyview	0.7	48.6	1.3	09-30-069-22 W5M
42	Sunset House	0.6	41.4	0.6	05-32-070-19 W5M
43	High Prairie	0.3	49.1	1.3	16-13-074-17 W5M
44	Peavine	0.3	36.0	0.7	03-05-079-15 W5M
45	Gift Lake	0.3	41.1	0.9	10-07-079-12 W5M
46	Little Smoky	0.6	45.1	4.2	12-01-065-21 W5M
47	Kinuso	0.3	35.5	1.0	12-10-073-10 W5M
48	Deer Mountain	0.4	45.5	0.7	15-22-068-09 W5M
49	Grande Prairie HP	0.5	35.2	8.2	17-26-071-06 W6M

*BDL = Below Detection Level



Duplicate Summary Chart

Passive Summary for March 2009

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

Passive Summary for March 2009 (PASZA Zone)			
Mean	0.5	43.3	1.8
Standard Deviation	0.1	4.6	1.7
Minimum	0.3	34.6	0.6
Minimum At	Kinuso (#47)	Shaftesbury (#20)	Sunset House (#42)
Maximum	0.7	54.7	8.2
Maximum At	Valleyview (#41)	Wembley (#24)	Grande Prairie HP (#49)

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

	SO ₂	O ₃	NO ₂
PASZA Beaverlodge station	0.6	35.6	5.6
PASZA Beaverlodge passive	0.5	41.4	3.3

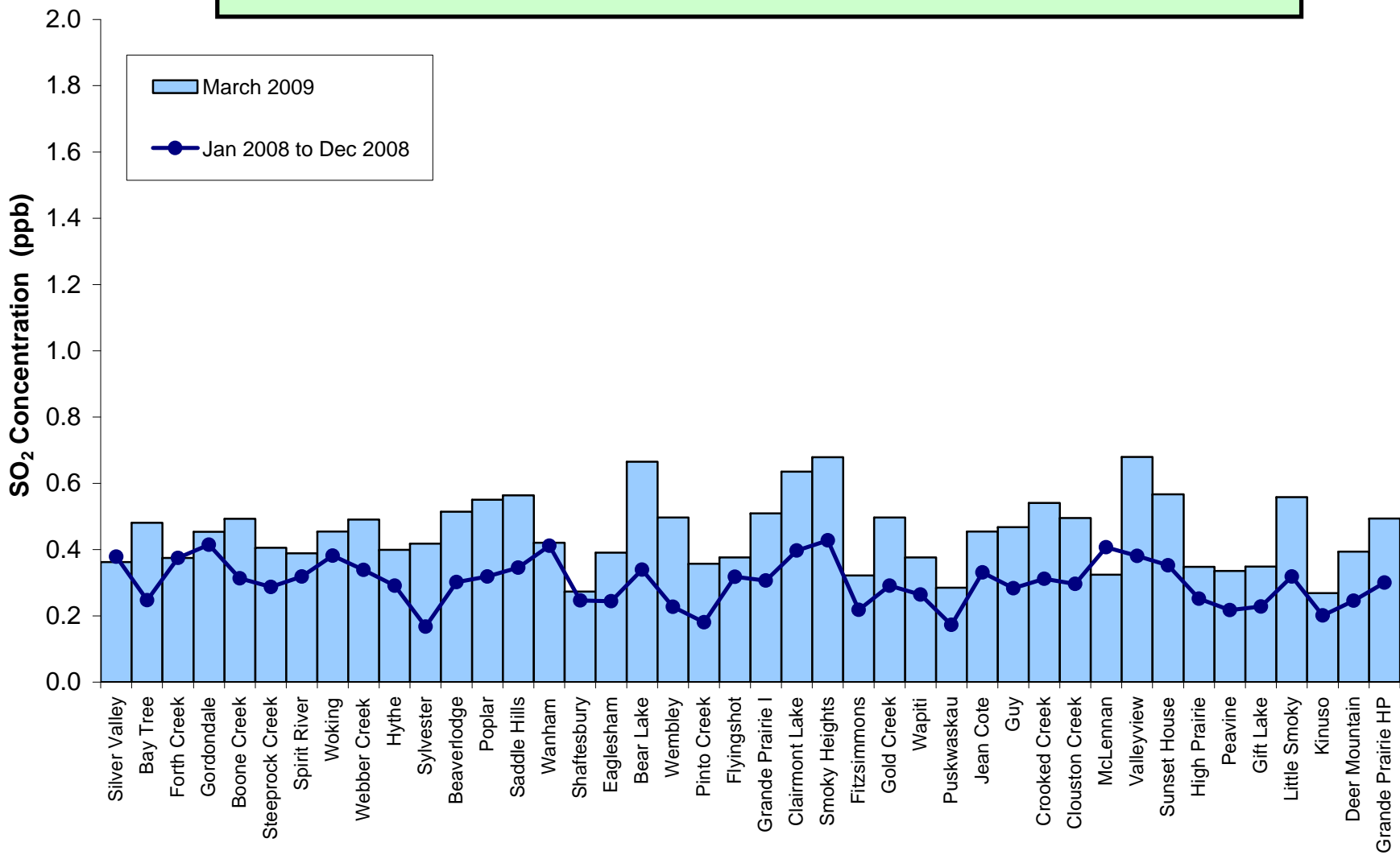
Comparison between Continuous and Passive monitoring at Henry Pirker (passive #49 Grande Prairie HP)

	SO ₂	O ₃	NO ₂
PASZA Henry Pirker station	0.7	28.3	14.5
PASZA Grande Prairie passive	0.5	35.2	8.2

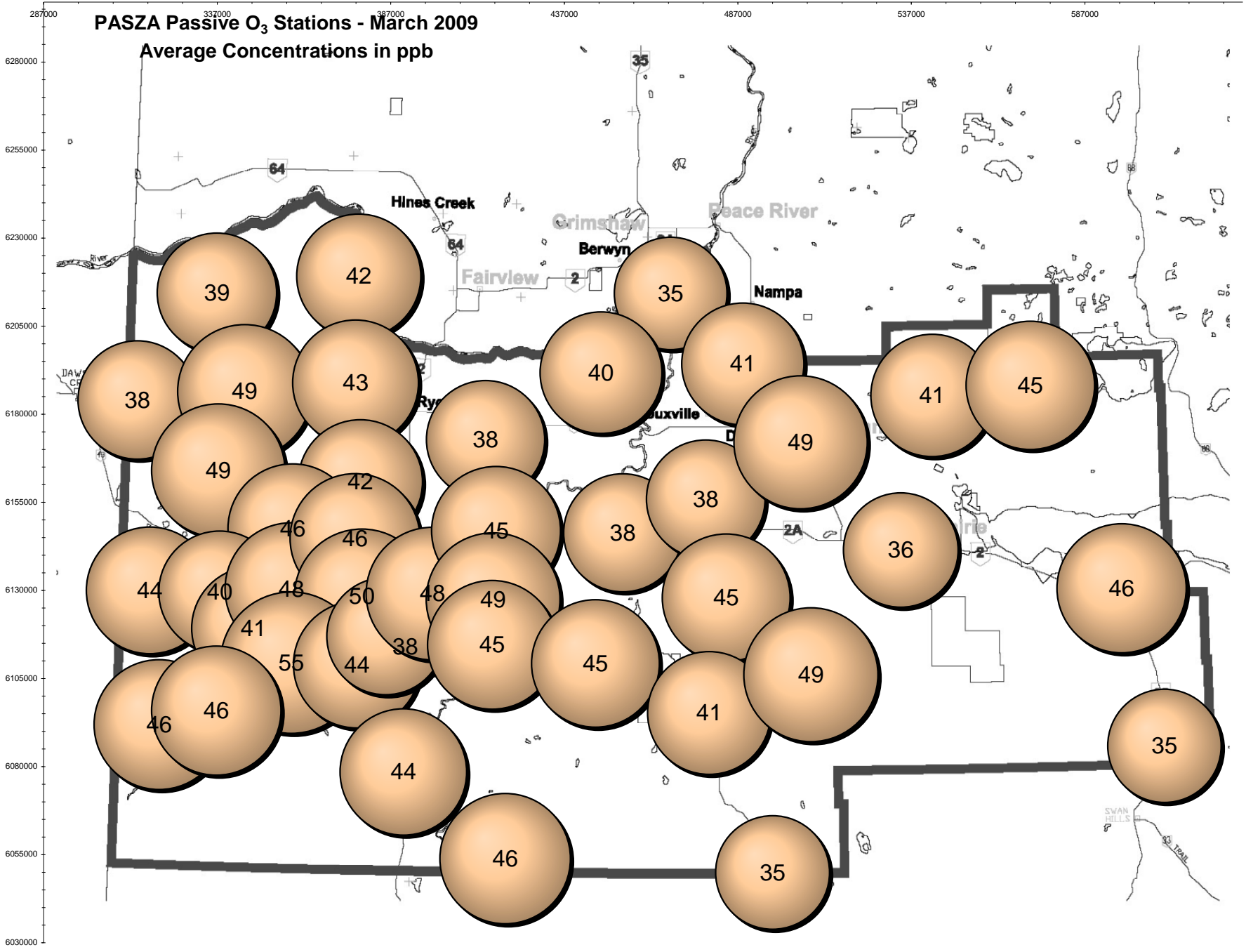
Comparison between Continuous and Passive monitoring at Spirit River (passive #9 Spirit River)

	SO ₂	O ₃	NO ₂
PASZA Portable Spirit River station	0.8	32.7	3.0
PASZA Spirit River passive	0.4	43.1	1.1

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

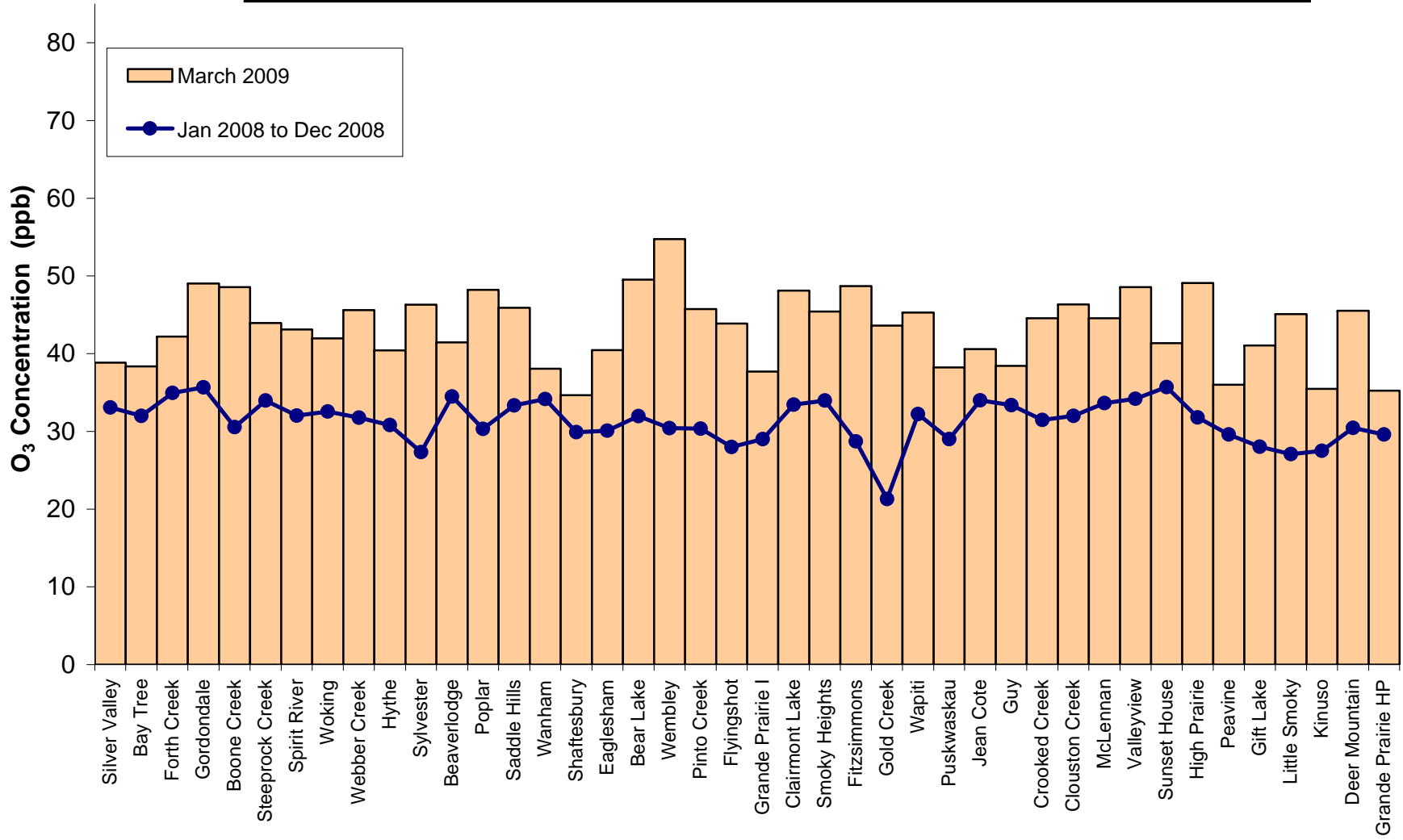


SO₂ Summary Chart

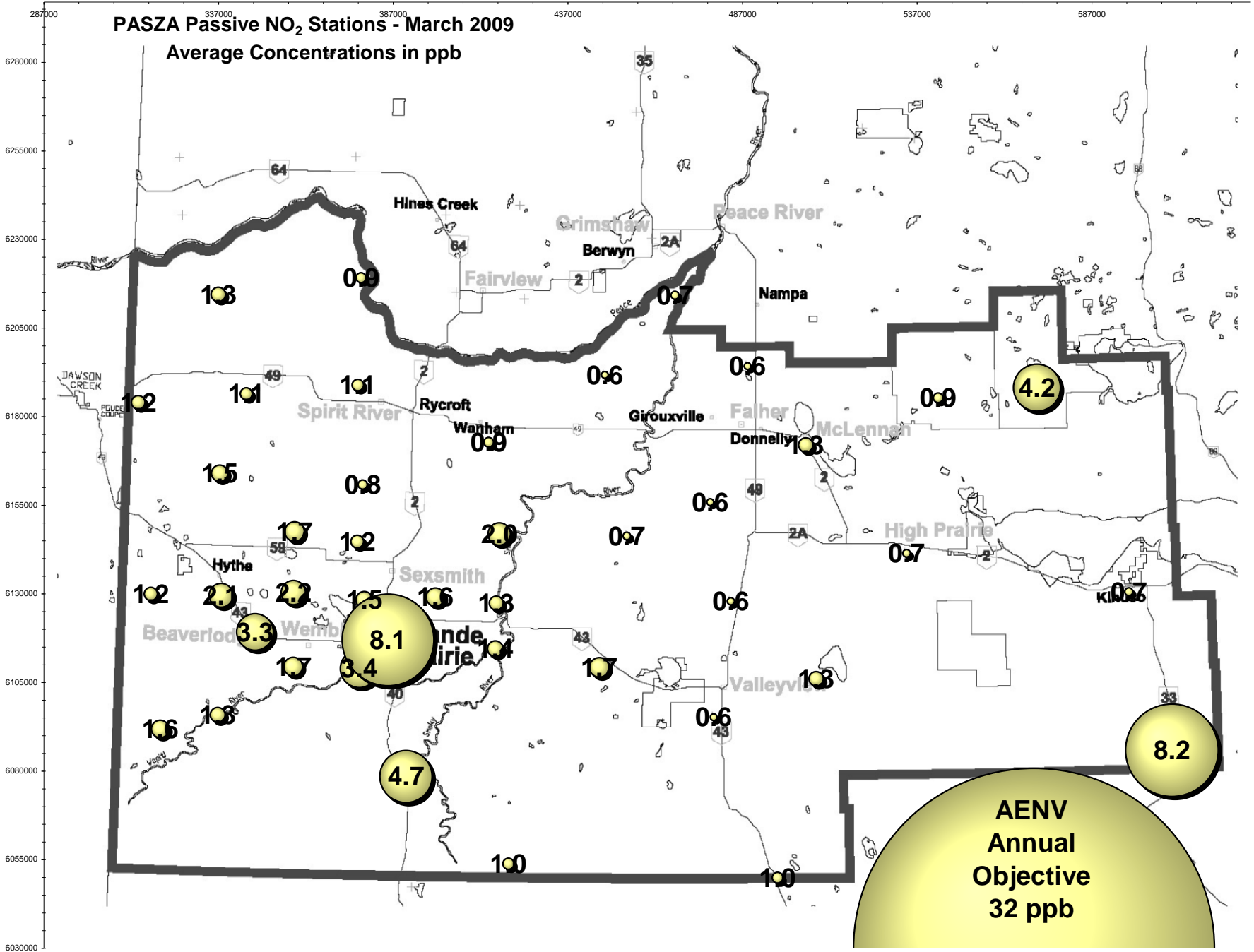


O₃ Bubble Chart

Alberta Ambient Air Quality Objective - No Annual O₃ Objective

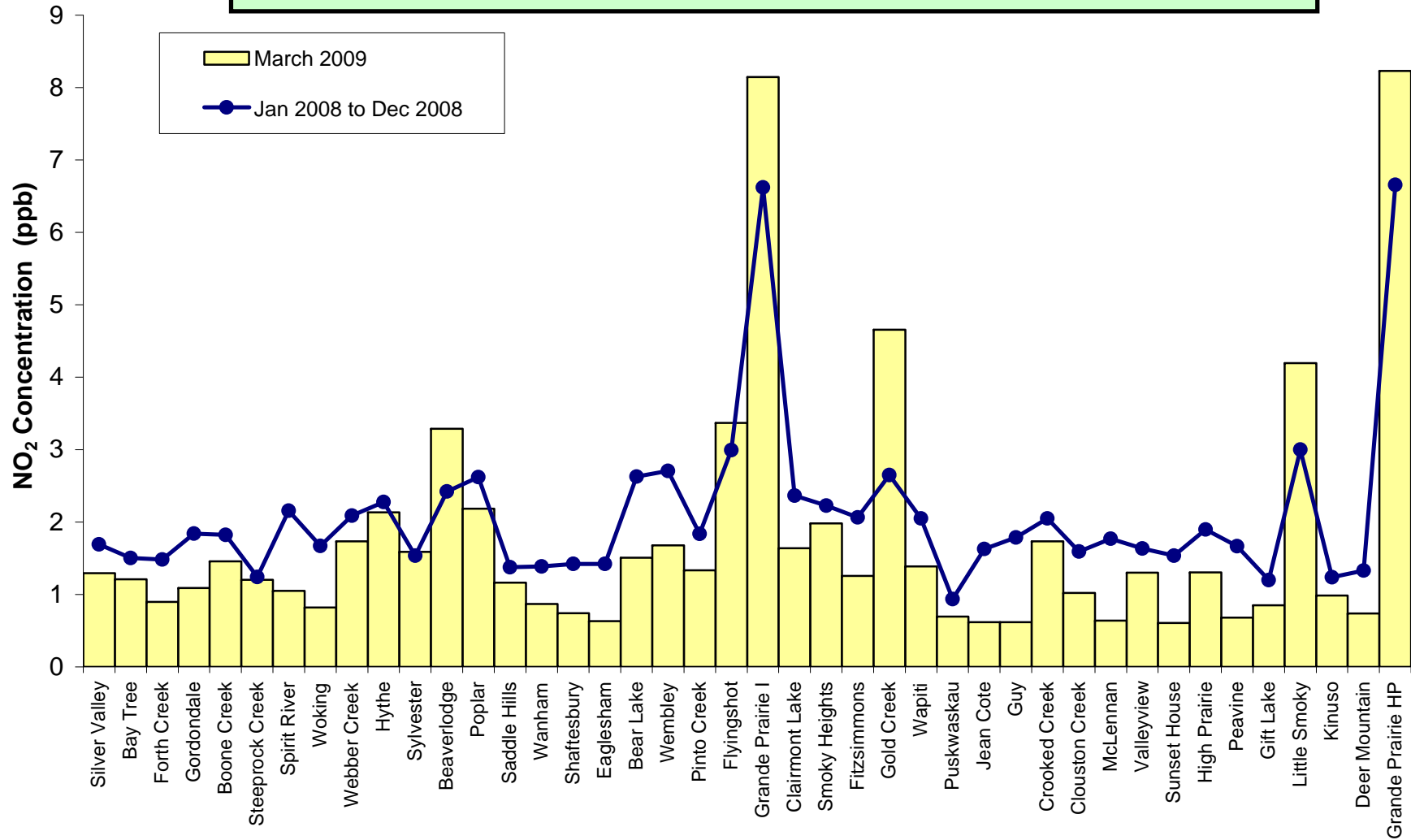


O₃ Summary Chart



NO₂ Bubble Chart

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



NO₂ Summary Chart

March 2009 Calibration Reports

**PASZA - Henry Pirker Station with the following calibrations:
SO₂, NO, NO₂, NO_x, O₃, CO, THC, TRS & TEOM**

**PASZA – Evergreen Park Station with the following calibrations:
SO₂, TRS & TEOM**

**PASZA – Smoky Heights Station with the following calibrations:
SO₂, TRS & TEOM**

**PASZA – Beaverlodge Station with the following calibrations:
SO₂, NO, NO₂, NO_x, O₃ & TEOM**

**PASZA – Spirit River (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	March 18, 2009	Previous Calibration	February 10, 2009
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:00	End Time (MST)	11:45
Barometric Pressure	0.933 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	49.1 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
	<u>Before</u>		<u>After</u>
Calculated slope	0.993074	Calculated slope	0.992693
Calculated intercept	-2.343174	Calculated intercept	-1.533027
Analyzer make	TEI 43C	Analyzer serial #	610816292

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	8.3		8.1	
Coefficient	.826		.826	
Pressure	650.5	mm Hg	649.1	mm Hg
Flow	0.527	lpm	0.542	lpm
Lamp Voltage	44756	Hz	44644	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)
4988	0.00	0.0	0.6	N/A
4990	39.85	389.0	393.1	0.9895
4989	19.91	195.2	198.0	0.9856
4989	9.95	97.7	101.4	0.9642
4988	0.00	0.0	0.2	As Found Zero
4991	39.84	388.8	391.8	As Found Span
Average Correction Factor				0.9798

Calculated value of As Found Response: 386.6 ppb Percent Change of As Found: 0.6%

	before calibration		after calibration	
Auto zero	0.1	ppb	0.1	ppb
Auto span	306.2	ppb	275.2	ppb

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

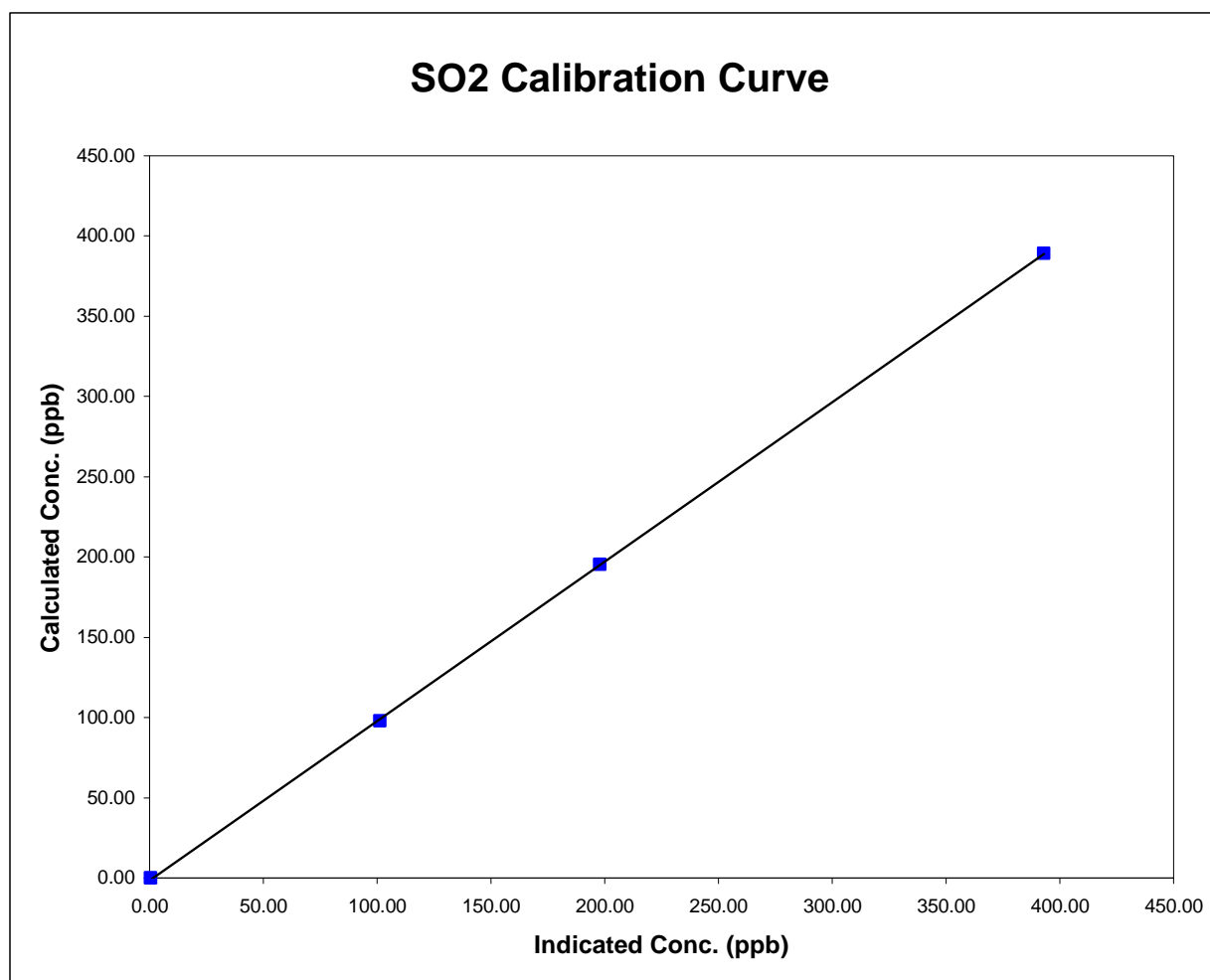


Station Information

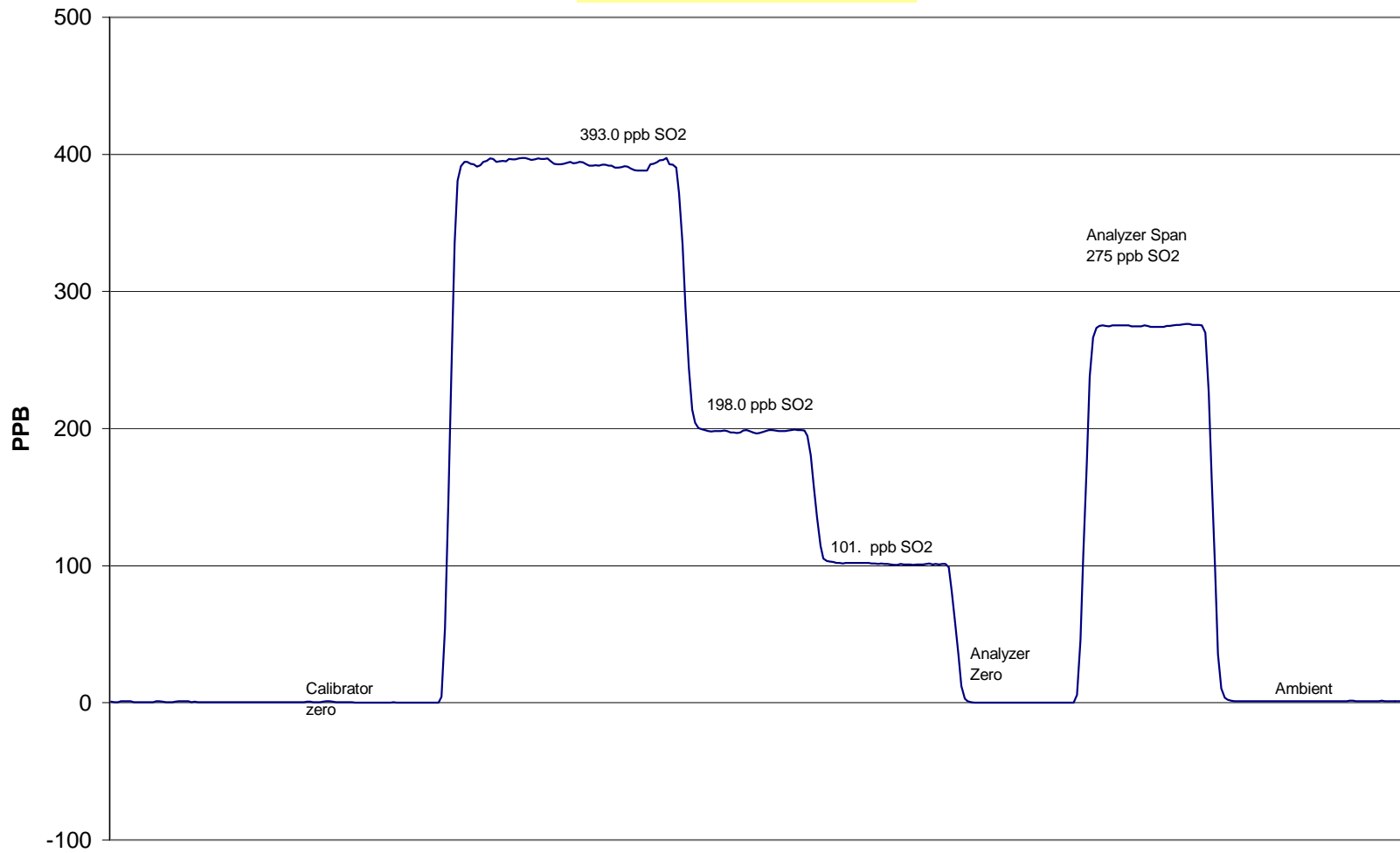
Calibration Date	March 18, 2009	Previous Calibration	February 10, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:00	End Time (MST)	11:45
Analyzer make/model	TEI 43C	Analyzer serial #	610816292

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.6	N/A		
389.0	393.1	0.9895	Correlation Coefficient	0.999966
195.2	198.0	0.9856		
97.7	101.4	0.9642		
			Slope	0.992693
			Intercept	-1.533027



Henry Pirker SO2 Calibration



March 18, 2009

Calibration Report

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



Station Information

Calibration Date March 18, 2009 Previous Calibration February 10, 2009
 Station Number 1 Station Location Henry Pirker

Reason: Routine Installation Removal Other: _____

Start Time (MST) 9:00 End Time (MST) 15:10
 Barometric Pressure 0.927 Atm Station Temperature 21.0 Deg C
 Calibrator EnviroNics 6100 Serial Number 3474
 NO Cal Gas Conc 49.6 ppm Cal Gas Cert Date 6/8/2008
 NOx Cal Gas Conc 49.6 ppm Cal Gas Cylinder # AAL 15377

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45269

Parameter		NO2	NOx	NO
Before	Data Slope	1.006000	0.999894	0.999876
	Data Offset	0.022238	1.005684	1.003789
After	Data Slope	1.006000	1.005684	1.003789
	Data Offset	0.022238	-2.626727	-2.488846
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model Teco 42C Analyzer serial # 508011073

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	9.5	ppb	9.5	mV
NOx background	10.1	ppb	10.2	mV
NO coefficient	0.764		0.771	
NOx coefficient	0.999		1.000	
Chamber Temp	49.6	Deg C	49.6	Deg C
Cooler Temp	-2.5	Deg C	-2.4	Deg C
Converter Temp	318.0	Deg C	318.0	Deg C
Vacuum	187.2	mm Hg	187.4	mm Hg

Notes: _____

Calibration Report

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



Station Information

Calibration Date: **March 18, 2009** Station Location: **Henry Pirker**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	
zero	4990	0.00	0.0	0.0	0.0	0.8	0.5	0.1	N/A	N/A	
1	4989	39.85	393.0	393.0	0.0	392.5	393.0	-0.5	1.0015	1.0002	
2	4989	19.91	197.2	197.2	0.0	199.6	200.0	-0.3	0.9876	0.9859	
3	4989	9.92	98.4	98.4	0.0	102.3	102.5	-0.2	0.9617	0.9599	
AFZ	4990	0.00	0.0	0.0	0.0	-0.4	-0.5	0.1	0.0000	0.0000	
AFS	4990	39.85	393.0	393.0	0.0	392.5	393.0	-0.5	1.0013	1.0000	
									Average Correction Factor	0.9836	0.9820

As Found Concentrations: NO_x= 393.8 NO= 394.4 As Found Percent Change NO_x= 0.2% NO= 0.4%

GPT Calibration Data

Dilution Flow 4990 ccm Source Gas Flow 39.88 ccm

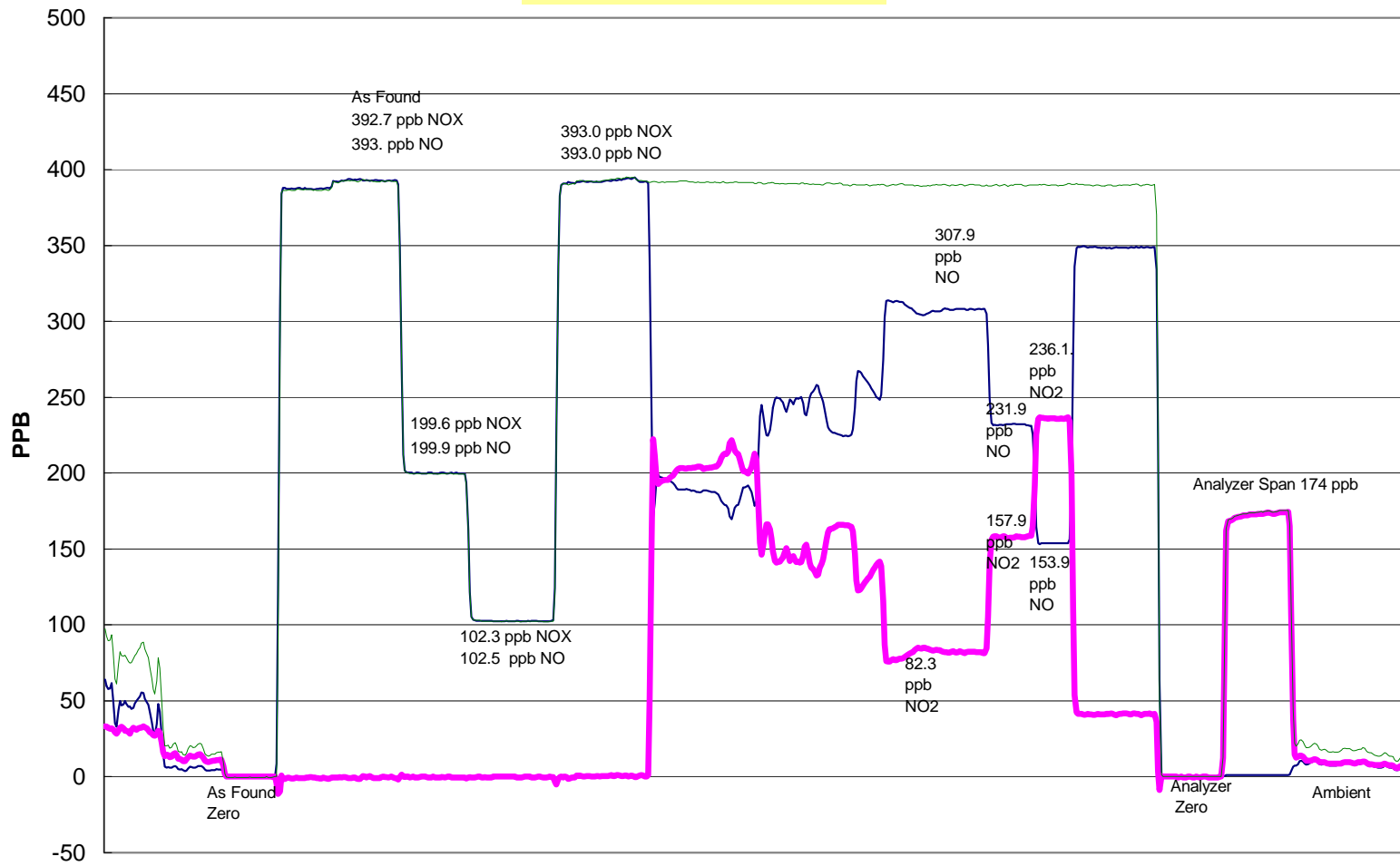
O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency	
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	
NO point	389.4	392.1	-2.7	393.7	393.1	0.6	0.9892	0.9975	N/A	N/A	
300	389.4	152.0	237.4	389.9	153.9	236.1	0.9988	0.9876	1.0055	99.5%	
200	389.4	230.4	159.1	389.8	232.0	158.0	0.9991	0.9931	1.0069	99.3%	
100	389.4	306.7	82.8	389.8	308.0	82.1	0.9990	0.9957	1.0081	99.2%	
							Average Correction Factor	0.9989	0.9921	1.0068	99.3%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	1.1	1.0	0.7	ppb	1.1	1.0	1.1	ppb
Auto span	165.1	167.1	-2.4	ppb	172.9	174.5	-1.5	ppb

Calibration Performed By: Grover Christiansen

Henry Pirker - NOx Calibration



March 18, 2009

Calibration Summary

Parameter **NO₂**

Air Monitoring Network **PASZA**



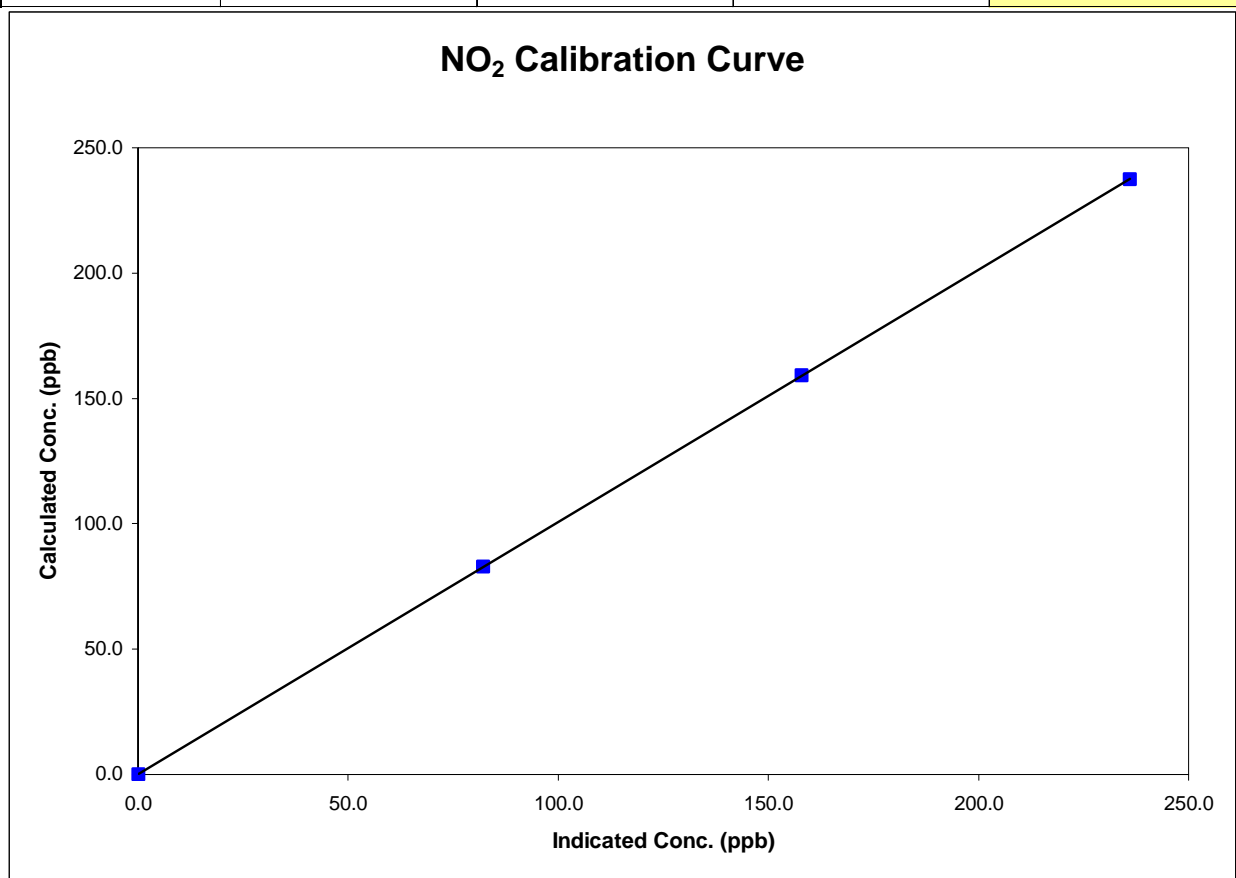
Station Information

Calibration Date	March 18, 2009	Previous Calibration	February 10, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:00	End Time (MST)	15:10
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	0.0000	Correlation Coefficient	0.999998
237.4	236.1	1.0055		
159.1	158.0	1.0069	Slope	1.006000
82.8	82.1	1.0081		

NO₂ Calibration Curve



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**



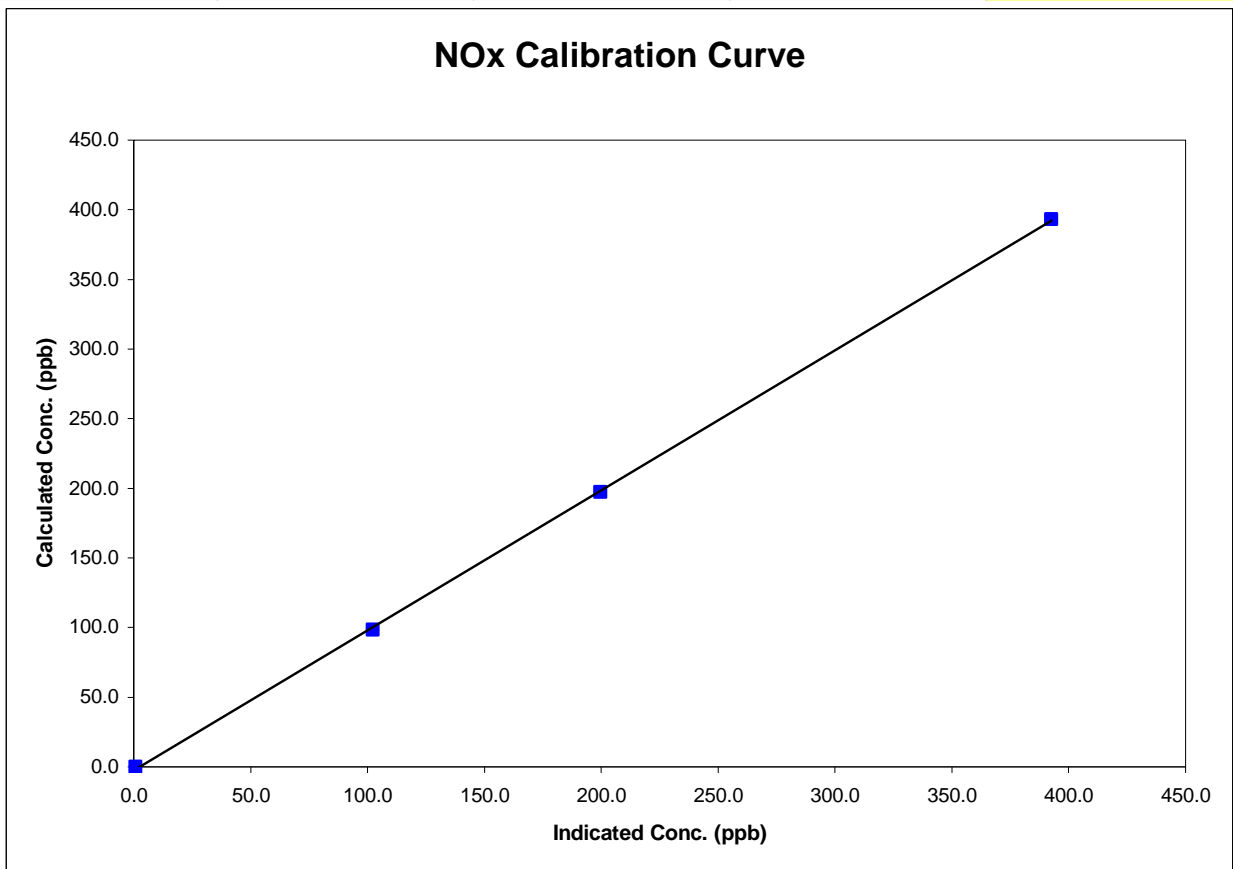
Station Information

Calibration Date	March 18, 2009	Previous Calibration	February 10, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:00	End Time (MST)	15:10
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.8	0.0000	Correlation Coefficient	0.999894
393.0	392.5	1.0015		
197.2	199.6	0.9876	Slope	1.005684
98.4	102.3	0.9617		

NO_x Calibration Curve



Calibration Summary

Parameter **NO**

Air Monitoring Network **PASZA**



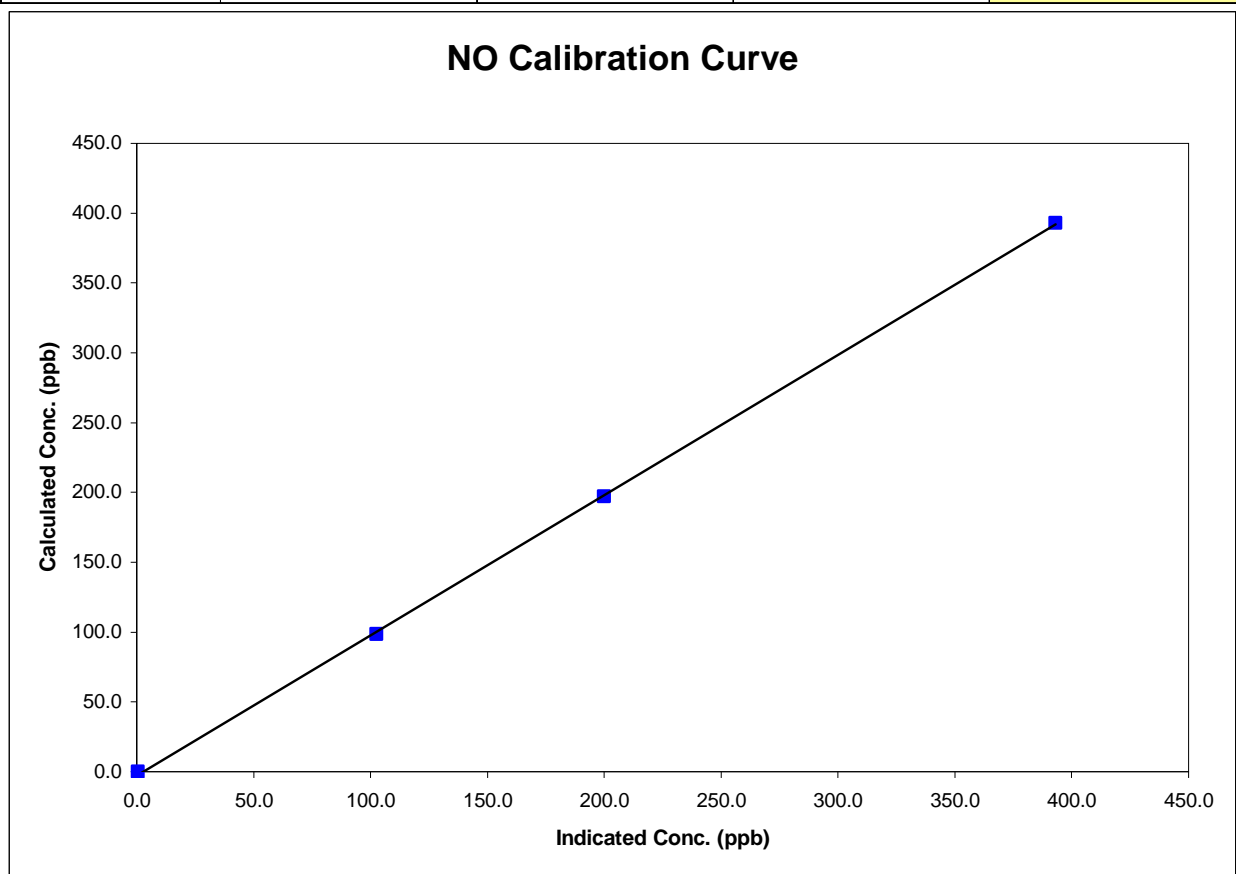
Station Information

Calibration Date	March 18, 2009	Previous Calibration	February 10, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:00	End Time (MST)	15:10
Analyzer make	Teco 42C	Analyzer serial #	508011073

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.5	N/A		
393.0	393.0	1.0002	Correlation Coefficient	0.999876
197.2	200.0	0.9859		
98.4	102.5	0.9599	Slope	1.003789
			Intercept	-2.488846

NO Calibration Curve



Calibration Report



Parameter O3
Air Monitoring Network PASZA

Station Information

Calibration Date March 18, 2009 Previous Calibration February 10, 2009
Station Number 1 Station Location Henry Pirker
Reason: Routine Install Removal Other:

Start Time (MST) 13:09:00 PM End Time (MST) 16:25
Barometric Pressure 0.933 atm Station Temperature 20.0 Deg C
Calibrator EnviroNics 6103 Serial Number 2844
Cal Gas Concentration NA Cal Gas Expiry Date NA

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

Calculated slope 0.874908 Calculated slope 0.955901
Calculated intercept 0.045707 Calculated intercept -0.136062

Analyzer make TECO 49C Analyzer serial # 607415761

	before		after	
Concentration range	500	ppb	500	ppb
offset	-0.6	ppb	-0.6	ppb
slope	0.966		1.064	
O3 Lamp temp	70.9	Deg C	71	Deg C
Intensities	90775/74288	mV	92523/75701	mV
Pressure	695.4	inches Hg	699.1	inches Hg
Flow A	0.722	ccm	0.724	ccm
Flow B	0.733	Deg C	0.735	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	4988	0.0	0.1	N/A
300	4989	236.5	247.6	0.9552
200	4989	158.5	165.8	0.9558
100	4989	82.2	86.2	0.9529
0	4988	0.0	0.7	As found zero
300	4988	236.7	247.6	As found span
Average Correction Factor				0.9546

Calculated value of As Found Response: 216.1 ppm Percent Change of As Found: -8.7%

	before calibration		after calibration	
Auto zero	0.3	ppb	0.3	ppb
Auto span	130.4	ppb	161.4	ppb

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **O3**

Air Monitoring Network **PASZA**

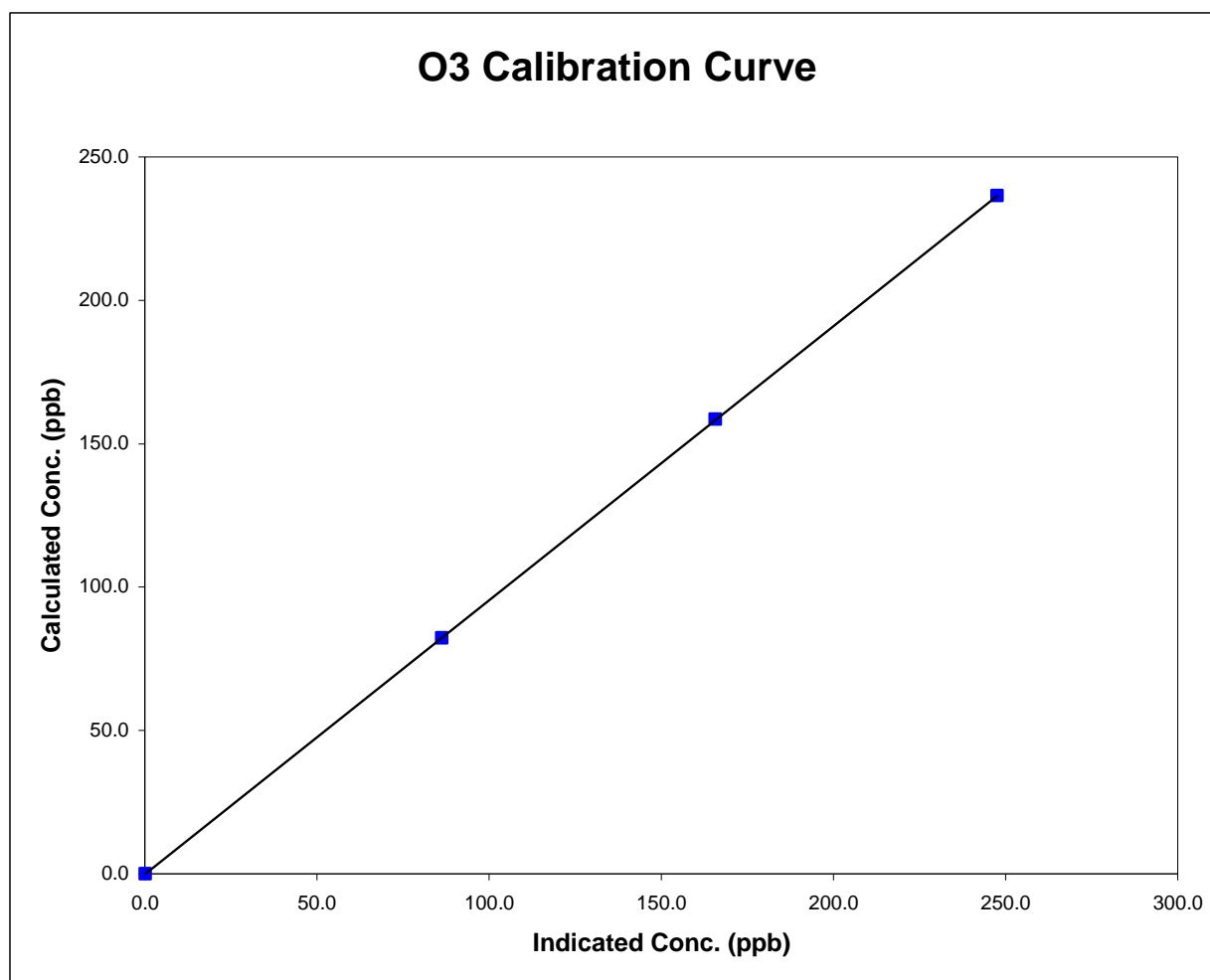


Station Information

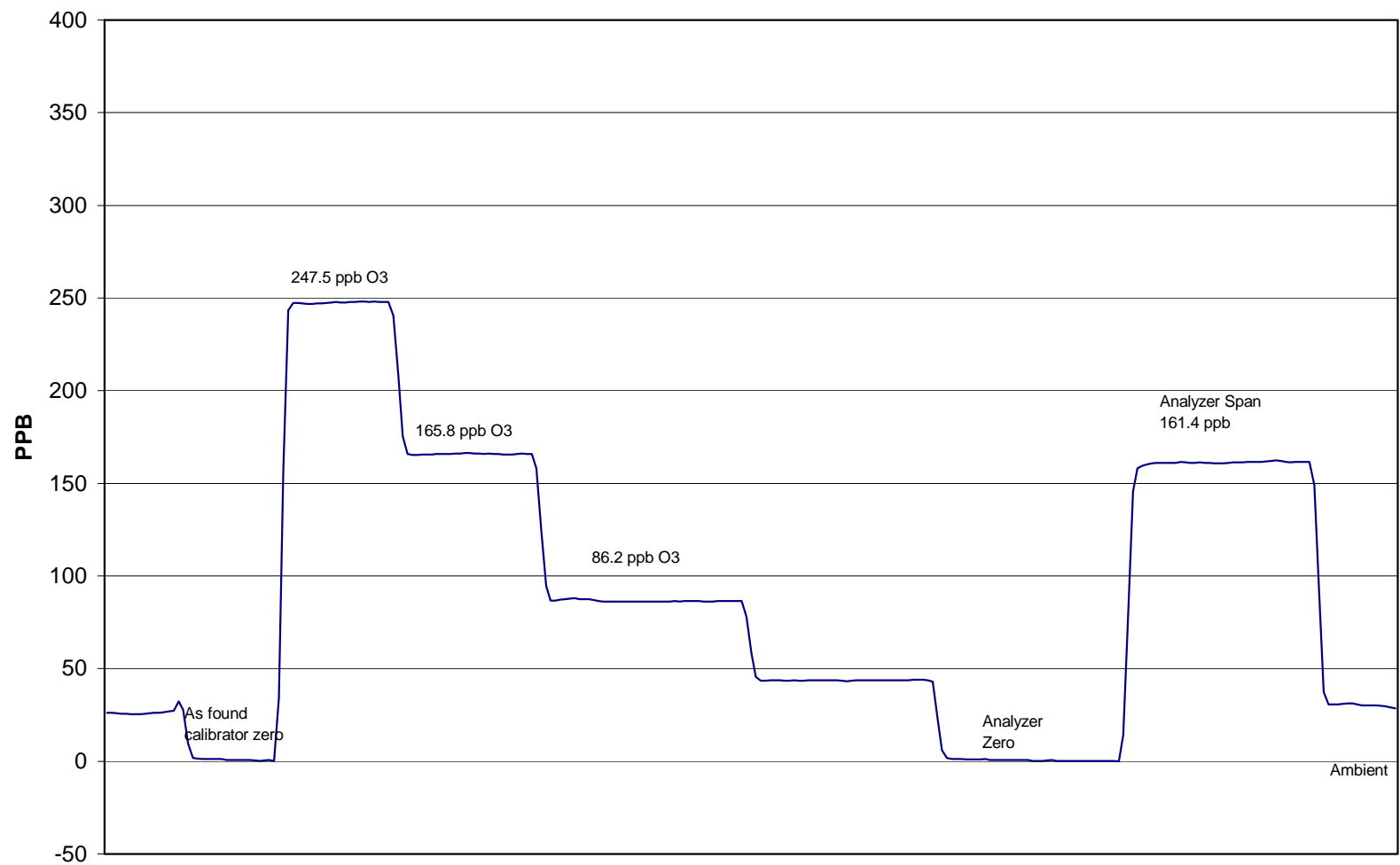
Calibration Date	March 18, 2009	Previous Calibration	February 10, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	13:09:00 PM	End Time (MST)	16:17
Analyzer make/model	TECO 49C	Analyzer serial #	607415761

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.1	NA		
236.5	247.6	0.9552	Correlation Coefficient	0.999999
158.5	165.8	0.9558		
82.2	86.2	0.9529		
			Slope	0.955901
			Intercept	-0.136062



Henry Pirker O3 Calibration



March 18, 2009

Calibration Report



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

Station Information

Calibration Date	March 24, 2009	Previous Calibration	February 11, 2009
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	7:53	End Time (MST)	10:48
Barometric Pressure	0.931 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	3000 ppm	Cal Gas Expiry Date	AUG 28/05
		Cal Gas Cylinder #	AAL20565
DACS make	Focus AP1000	DACS serial No.	1
DACS voltage range	0 - 1 volt	DACS channel #	9
	<u>Before</u>		<u>After</u>
Calculated slope	1.019167	Calculated slope	1.037583
Calculated intercept	-0.143737	Calculated intercept	-0.421316
Analyzer make	TEI Model 48C	Analyzer serial #	508011062

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO span setting	1.029		1.029	
CO zero setting	5.198		5.198	
Sample pressure	677.1	mm Hg	679.1	mm Hg
Sample Flow	1.145	LPM	1.145	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	0.50	N/A
4991	39.82	23.74	23.33	1.0175
4991	19.88	11.90	11.83	1.0060
4991	9.94	5.96	6.06	0.9835
4990	0.00	0.00	0.05	As Found Zero
4990	39.86	23.77	23.33	As Found Span
Average Correction Factor				1.0023

Calculated value of As Found Response: 23.587 ppm Percent Change of As Found: 0.8%

	before calibration		after calibration	
Auto zero	0.03	ppm	0.03	ppm
Auto span	19.64	ppm	19.33	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **CO**

Air Monitoring Network **PASZA**

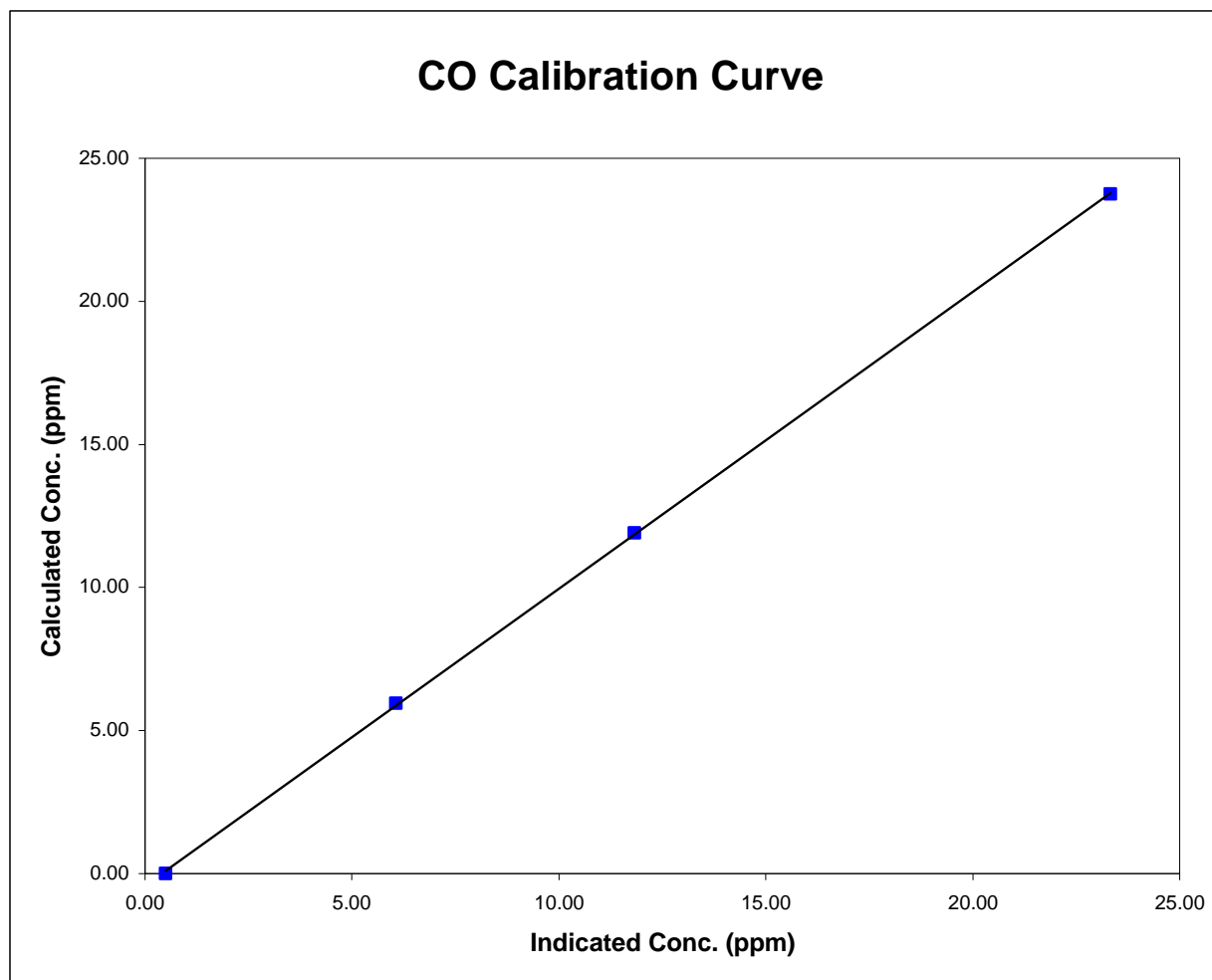


Station Information

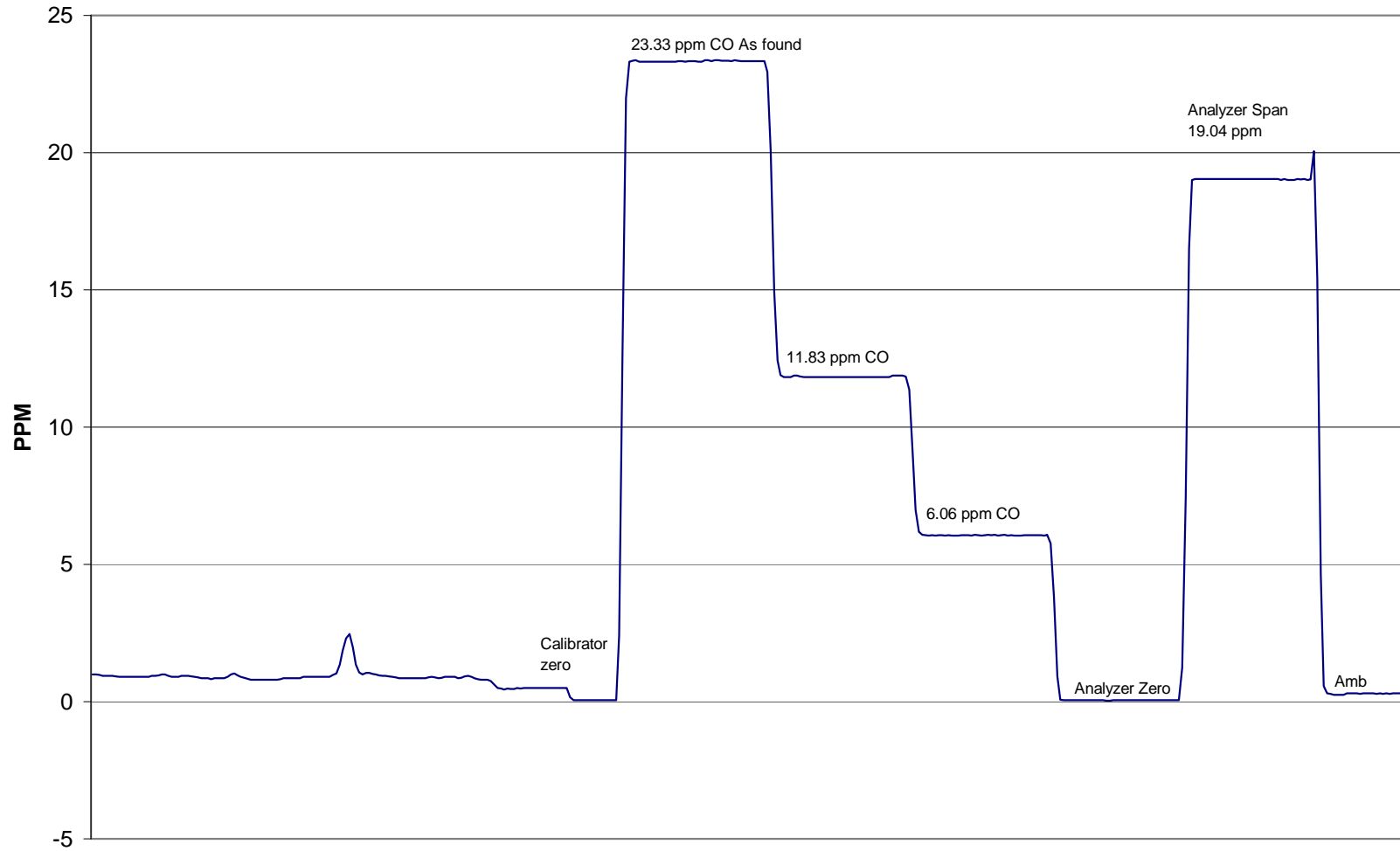
Calibration Date	March 24, 2009	Previous Calibration	February 11, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	7:53	End Time (MST)	10:48
Analyzer make/model	TEI Model 48C	Analyzer serial #	508011062

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.497	N/A		
23.744	23.335	1.0175	Correlation Coefficient	0.999928
11.902	11.831	1.0060		
5.960	6.060	0.9835	Slope	1.037583
			Intercept	-0.421316



Henry Pirker CO Calibration



March 24, 2009

Calibration Report



Parameter **THC**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 24, 2009	Previous Calibration	February 11, 2009
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:36	End Time (MST)	13:15
Barometric Pressure	0.931 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 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	0.996536	Calculated slope	1.011384
Calculated intercept	0.005032	Calculated intercept	-0.023425
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	7170	capture	7205	capture
THC zero counts	1121	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	20.84	1.0082
4989	29.88	9.07	8.89	1.0205
4988	9.92	3.02	3.02	1.0001
4988	0.00	0.00	0.01	As Found Zero
4988	69.82	21.03	20.84	As Found Span
Average Correction Factor				1.0096

Calculated value of As Found Response: 20.765 ppm Percent Change of As Found: 1.2%

	before calibration		after calibration	
Auto zero	0.02	ppm	-0.03	ppm
Auto span	23.19	ppm	25.26	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **THC**

Air Monitoring Network **PASZA**

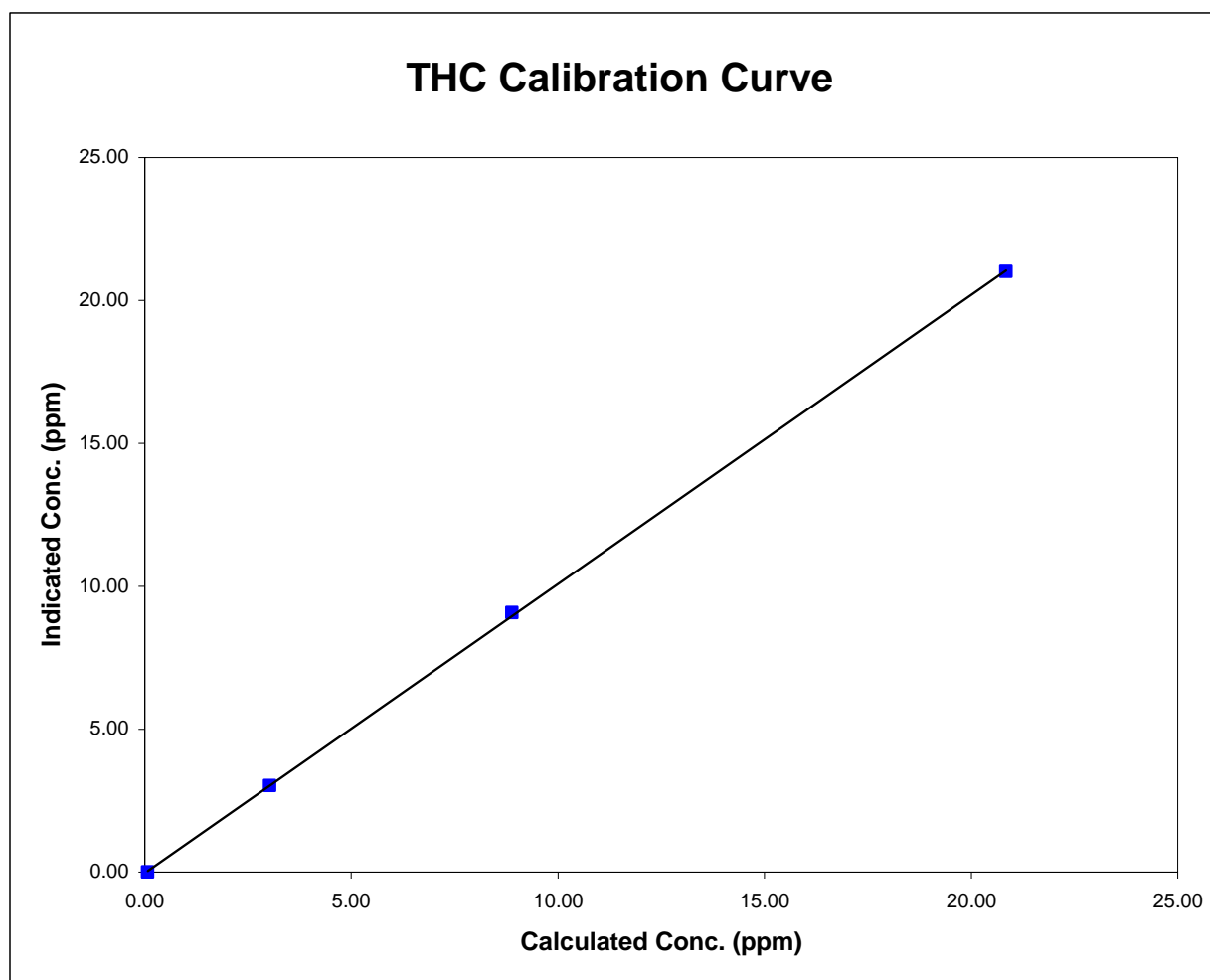


Station Information

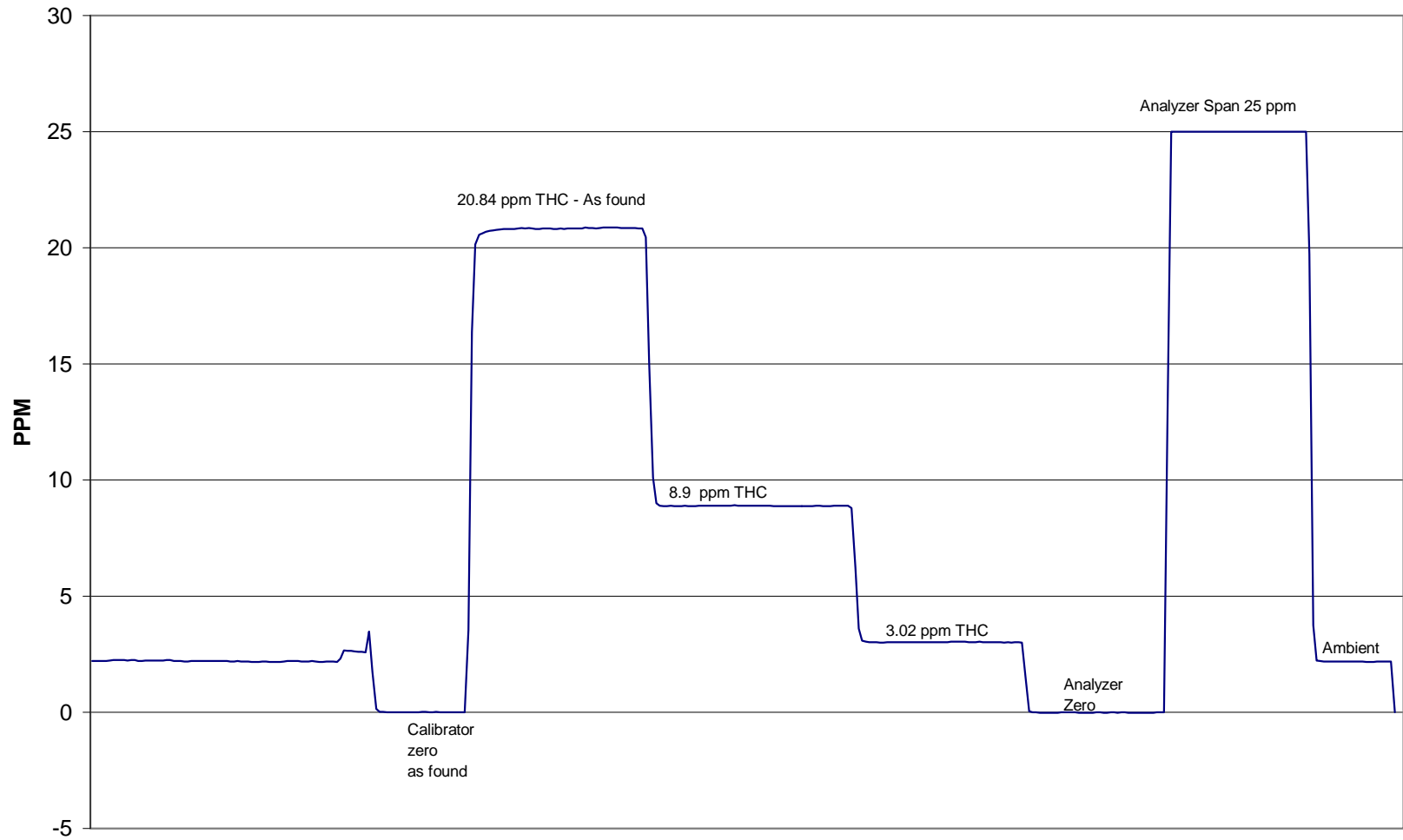
Calibration Date	March 24, 2009	Previous Calibration	February 11, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	9:36	End Time (MST)	13:15
Analyzer make/model	TEI Model 51C-LT	Analyzer serial #	51CLT-79009-390

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	0.073	N/A		
21.013	20.842	1.0082	Correlation Coefficient	0.999941
9.069	8.887	1.0205		
3.023	3.023	1.0001	Slope	1.011384
			Intercept	-0.023425



Henry Pirker THC Calibration



March 24, 2009

Calibration Report



Parameter **TRS**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 18, 2009	Previous Calibration	February 10, 2009
Station Number	1	Station Location	Henry Pirker
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	15:00	End Time (MST)	17:30
Barometric Pressure	0.933 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 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
	<u>Before</u>		<u>After</u>
Calculated slope	1.007254	Calculated slope	1.006681
Calculated intercept	-0.419175	Calculated intercept	-0.131413

Analyzer make **TEI 45C** Analyzer serial # **630718528**

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Coefficient	0.847		0.871	
Background	17.0		18.0	
Pressure	661.3	mm Hg	653	mm Hg
Flow	467	ccm	462	ccm
Lamp Voltage	850	v	848	v

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)
4988	0.00	0.00	-0.03	N/A
4988	79.83	80.34	80.02	1.0039
4988	39.81	40.38	39.97	1.0102
4988	9.92	10.12	10.52	0.9619
4988	0.00	0.00	0.02	As Found Zero
4988	79.77	80.28	80.58	As Found Span
Average Correction Factor				0.9920

Calculated value of As Found Response: **80.7 ppb** Percent Change of As Found: **-0.5%**

	before calibration		after calibration	
Auto zero	-0.12	ppb	0.06	ppb
Auto span	27.27	ppb	27.76	ppb

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

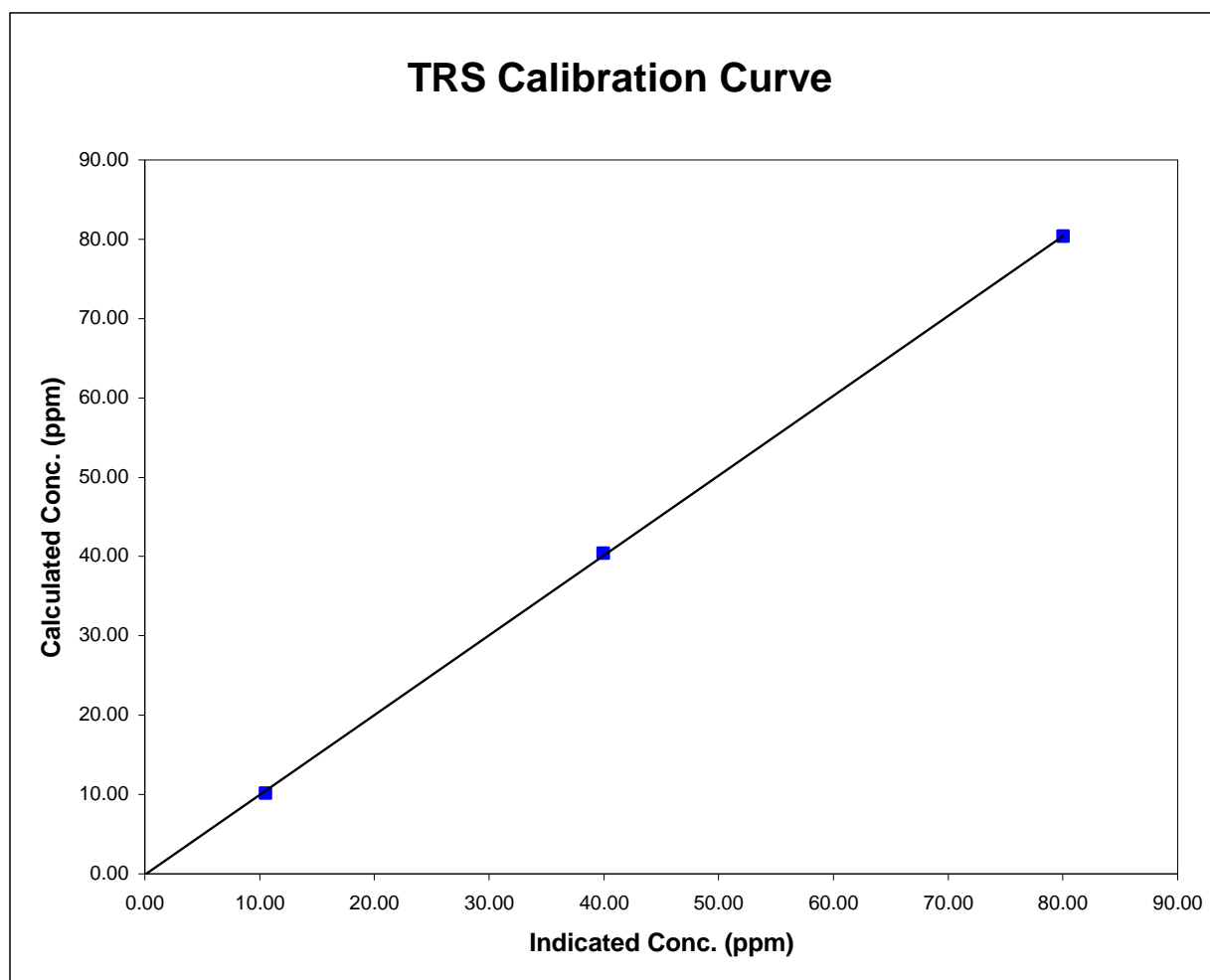


Station Information

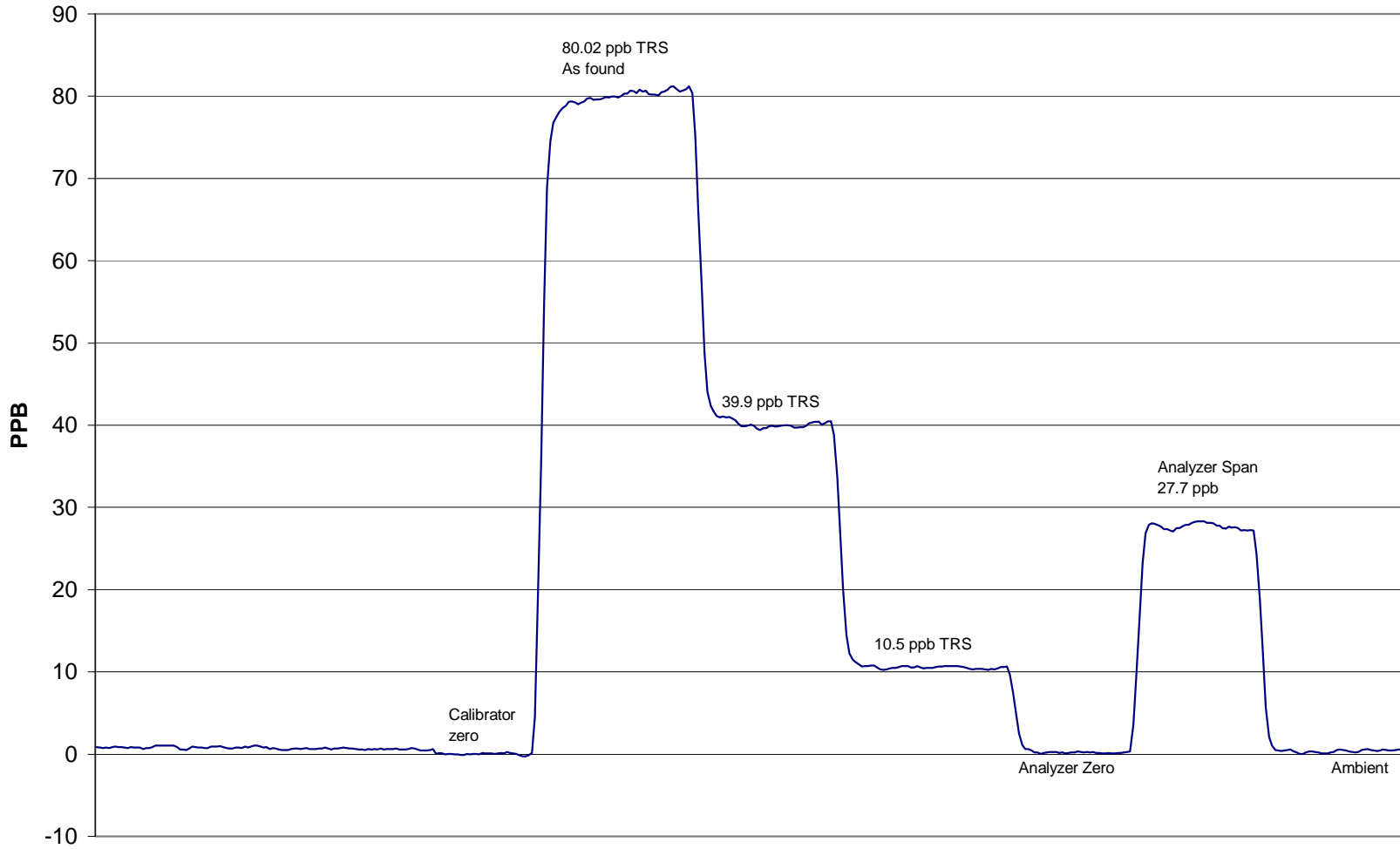
Calibration Date	March 18, 2009	Previous Calibration	February 10, 2009
Station Number	1	Station Location	Henry Pirker
Start Time (MST)	15:00	End Time (MST)	17:30
Analyzer make/model	TEI 45C	Analyzer serial #	630718528

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.027	N/A		
80.337	80.025	1.0039	Correlation Coefficient	0.999943
40.382	39.974	1.0102		
10.123	10.523	0.9619	Slope	1.006681
			Intercept	-0.131413



Henry Pirker TRS Calibration



March 18, 2009

Calibration Report



Parameter **SO₂**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 25, 2009	Previous Calibration	February 18, 2009
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	8:00	End Time (MST)	10:15
Barometric Pressure	0.939 ATM	Station Temperature	20.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	50.3 ppm	Cal Gas Expiry Date	1/2/2009
Correction factor	0.031919	Cal Gas Cylinder #	LL16161
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	1.006986	Calculated slope	1.002691
Calculated intercept	-2.734579	Calculated intercept	-2.181184
Analyzer make	Teco 43i	Analyzer serial #	701120008

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	10.1		10.2	
coefficient	1		1	
Lamp Voltage	835	volts	836	volts
Chamber Temp	45.3	Deg C	45.3	Deg C
Perm Gas Temp	45	Deg C	44.99	Deg C
Pressure	674	mm Hg	674.7	mm Hg
Sample Flow	453	ccm	453	ccm
Lamp Intensity	89	%	90	%

Calibration Data

Dilution air flow rate (cc/min)	Corrected gas flow rate (cc/min)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4990	0.0	0.00	1.0	N/A
4989	39.83	398.39	399.1	0.9983
4989	19.88	199.64	201.4	0.9913
4989	9.93	99.92	103.3	0.9674
4990	0.0	0.00	0.7	As Found Zero
4988	39.82	398.37	399.1	As Found Span
Average Correction Factor				0.9857

Calculated value of As Found Response: 398.370 ppm Percent Change of As Found: 0.0%

	before calibration		after calibration	
Auto zero	-1.4	ppm	-1.4	ppm
Auto span	269.0	ppm	269.0	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

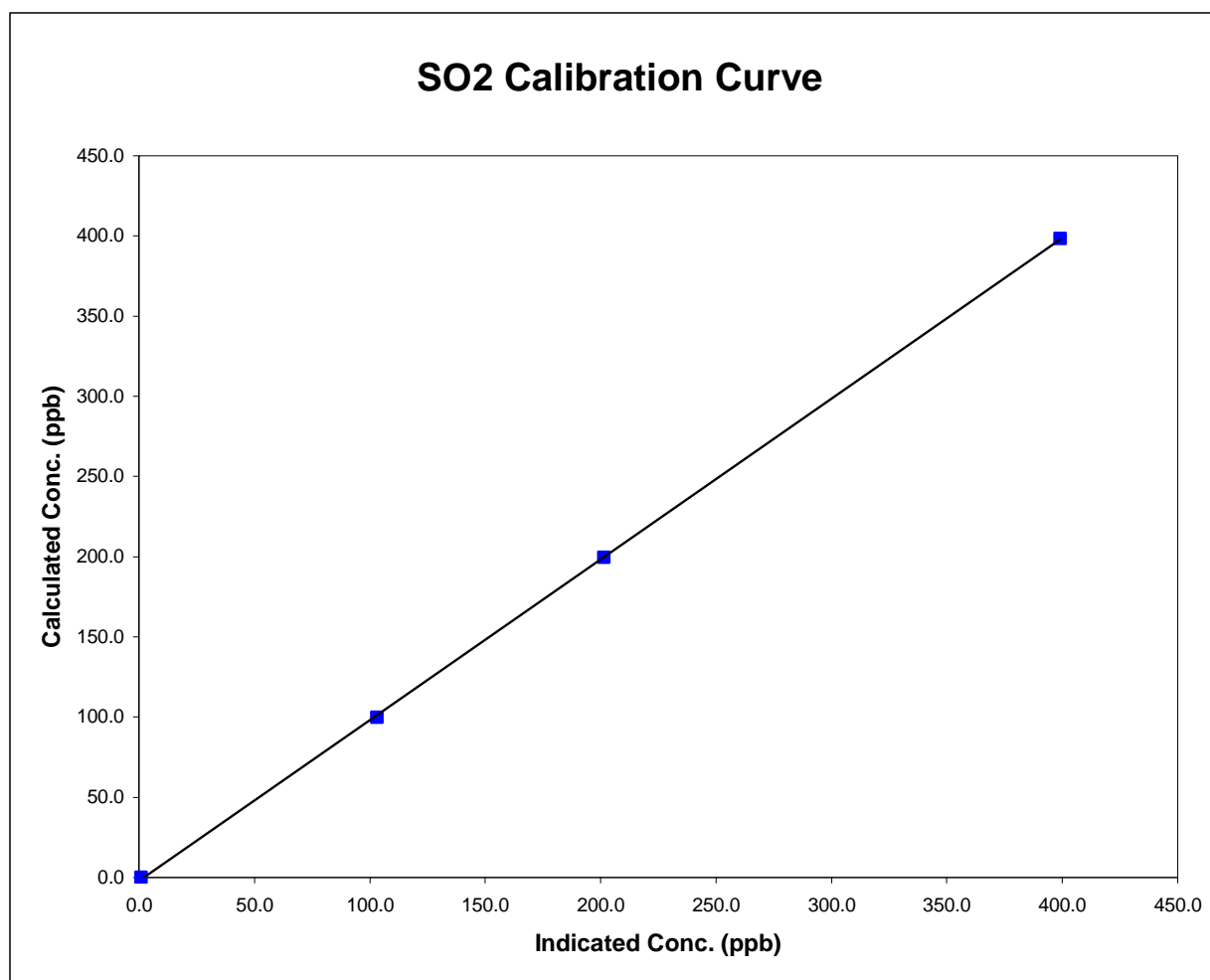


Station Information

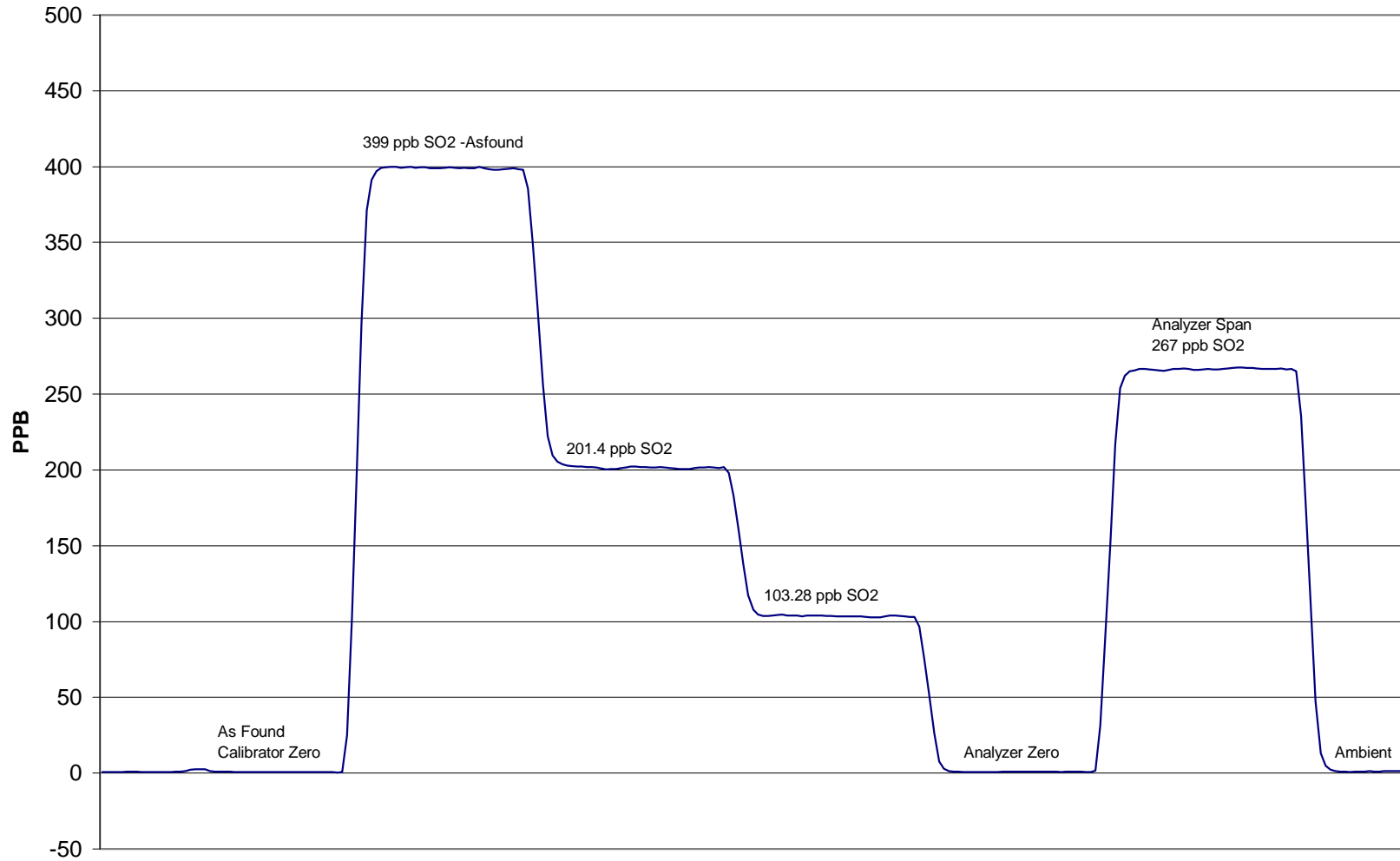
Calibration Date	March 25, 2009	Previous Calibration	February 18, 2009
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	8:00	End Time (MST)	10:15
Analyzer make/model	Teco 43i	Analyzer serial #	701120008

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	1.0	N/A		
398.4	399.1	0.9983	Correlation Coefficient	0.999958
199.6	201.4	0.9913		
99.9	103.3	0.9674		
			Slope	1.002691
			Intercept	-2.181184



Evergreen Park SO2 Calibration



March 25, 2009

Calibration Report



Parameter **TRS**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 25, 2009	Previous Calibration	February 18, 2009
Station Number	2	Station Location	Evergreen Park
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	9:20	End Time (MST)	12:00
Barometric Pressure	0.939 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.1 ppm	Cal Gas Expiry Date	4/2/2009
Correction factor	0.031919	Cal Gas Cylinder #	ALM 013295
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	1.004620	Calculated slope	1.005167
Calculated intercept	-0.150883	Calculated intercept	-0.239009
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	14.3	ppb	14.6	ppb
coefficient	0.586		0.586	
Lamp Voltage	820	volts	821	volts
Chamber Temp	44.3	Deg C	44.1	Deg C
Perm Gas Temp	45	Deg C	45	Deg C
Pressure	634.9	mm Hg	623	mm Hg
Sample Flow	0.461	ccm	0.455	ccm
Lamp Intensity	45,763	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	0.00	0.2	N/A
4989	79.74	80.23	80.1	1.0016
4989	39.84	40.40	40.3	1.0025
4990	9.89	10.09	10.4	0.9656
4990	0.00	0.00	0.2	As Found Zero
4987	79.91	80.43	80.1	As Found Span
Average Correction Factor				0.9899

Calculated value of As Found Response: 80.11 ppm Percent Change of As Found: 0.4%

	before calibration		after calibration	
Auto zero	0.0	ppm	0.0	ppm
Auto span	69.7	ppm	60.3	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**



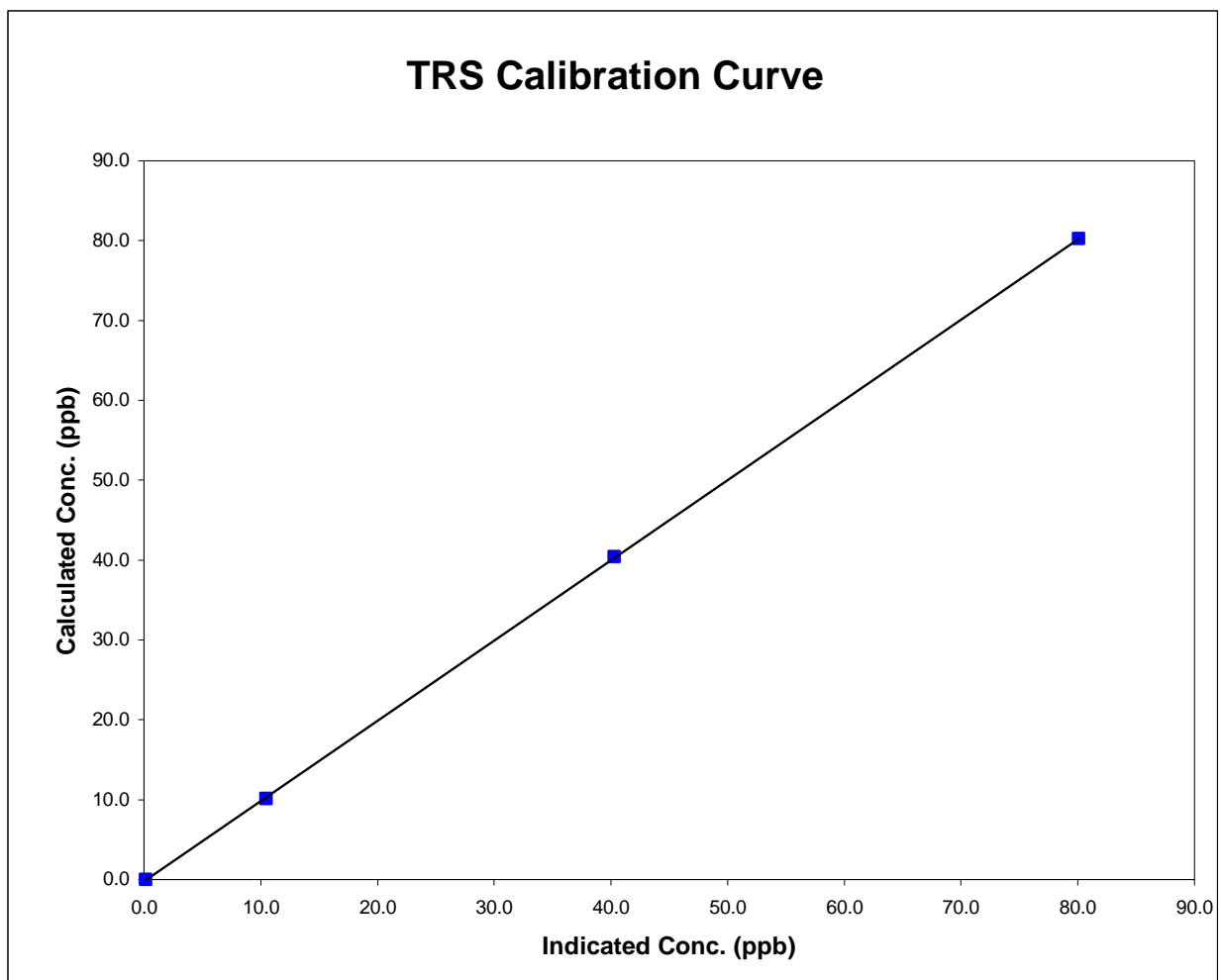
Station Information

Calibration Date	March 25, 2009	Previous Calibration	February 18, 2009
Station Number	2	Station Location	Evergreen Park
Start Time (MST)	9:20	End Time (MST)	12:00
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

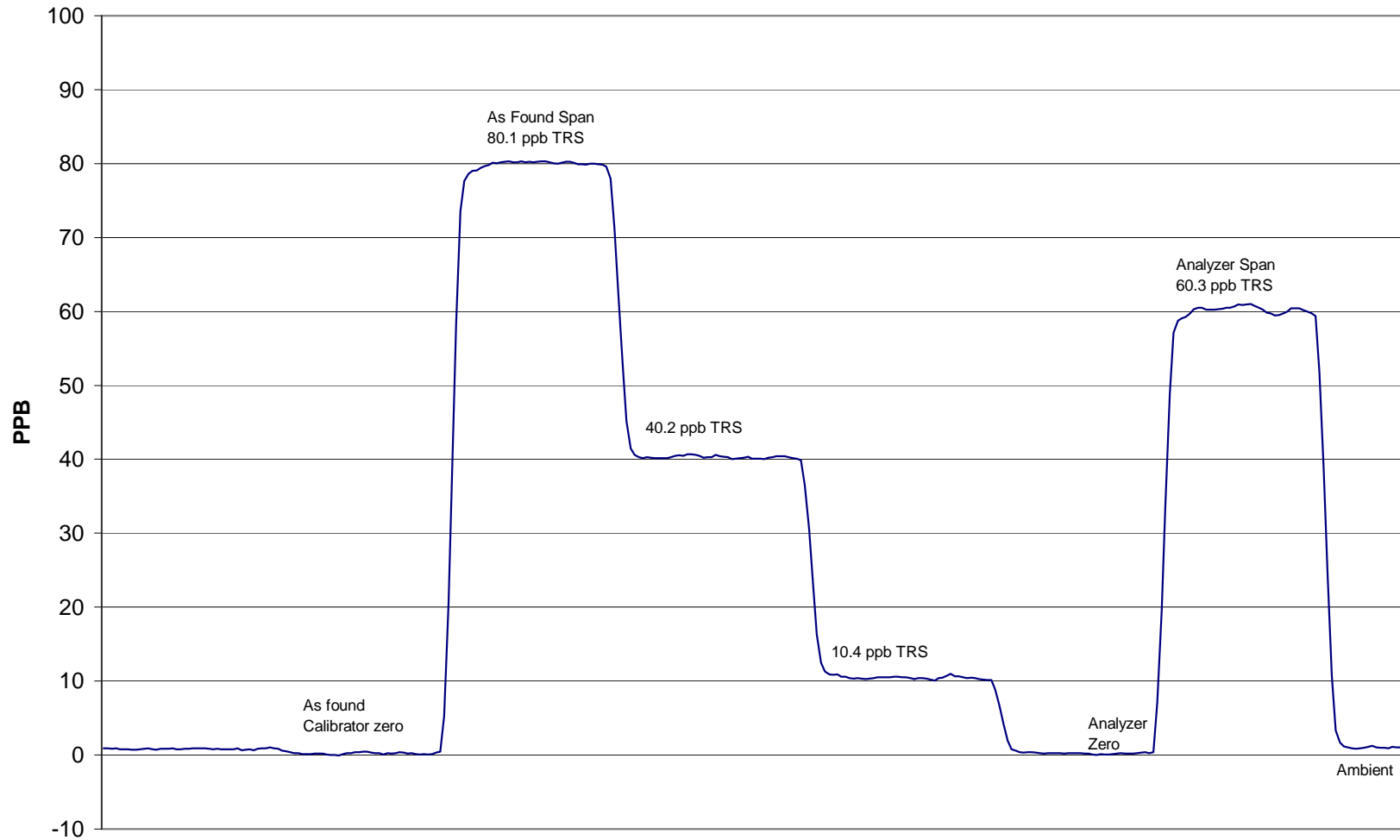
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A		
80.2	80.1	1.0016	Correlation Coefficient	0.999985
40.4	40.3	1.0025		
10.1	10.4	0.9656		
			Slope	1.005167
			Intercept	-0.239009

TRS Calibration Curve



Evergreen Park TRS Calibration



March 25, 2009

Calibration Report



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

Station Information

Calibration Date	March 27, 2009	Previous Calibration	February 20, 2009
Station Number	3	Station Location	Smokey Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	8:30	End Time (MST)	11:10
Barometric Pressure	0.938 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	0.031885	Cal Gas Cylinder #	AAL 15377
DACS make	Focus AP1000	DACS serial No.	45272
DACS voltage range	0 - 10 volt	DACS channel #	6
	Before		After
Calculated slope	1.000195	Calculated slope	1.006235
Calculated intercept	-2.145746	Calculated intercept	-2.359390
Analyzer make	Teco 43i	Analyzer serial #	701120009

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Background	7.4		7.4	
coefficient	0.733		0.733	
Lamp Voltage	925	volts	929	volts
Chamber Temp	45.2	Deg C	45.2	Deg C
Perm Gas Temp	45.01	Deg C	45	Deg C
Pressure	665.7	mm Hg	664.4	mm Hg
Sample Flow	440	ccm	442	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)
4988	0.0	0.00	0.9	N/A
4988	39.80	400.55	399.6	1.0023
4988	19.92	201.27	203.3	0.9901
4988	9.92	100.43	103.4	0.9709
4988	0.0	0.00	0.6	As Found Zero
4988	39.81	400.65	404.1	As Found Span
Average Correction Factor				0.9878

Calculated value of As Found Response: 401.490 ppm Percent Change of As Found: -0.2%

	before calibration		after calibration	
Auto zero	-1.7	ppm	-1.9	ppm
Auto span	310.8	ppm	314.0	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**

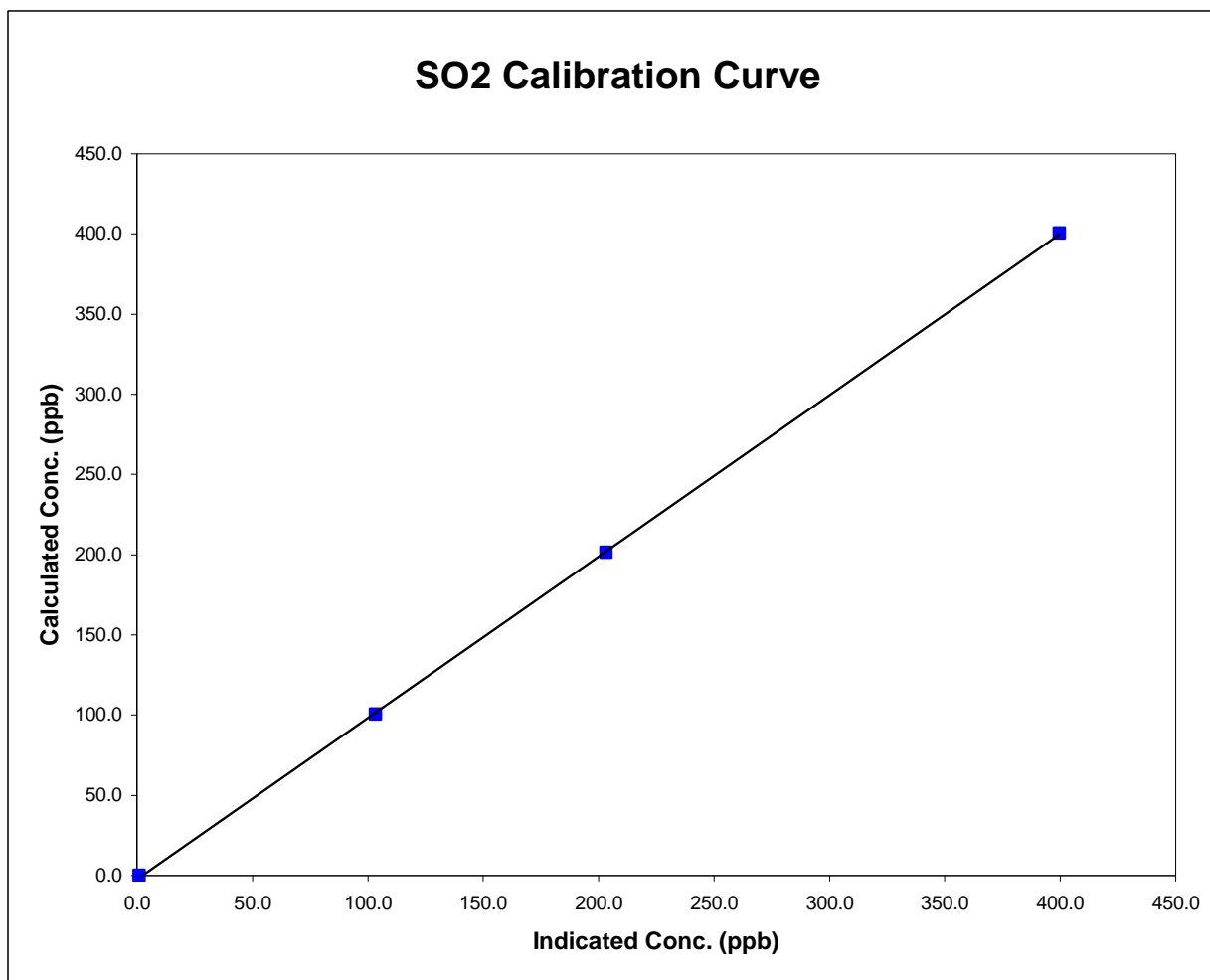


Station Information

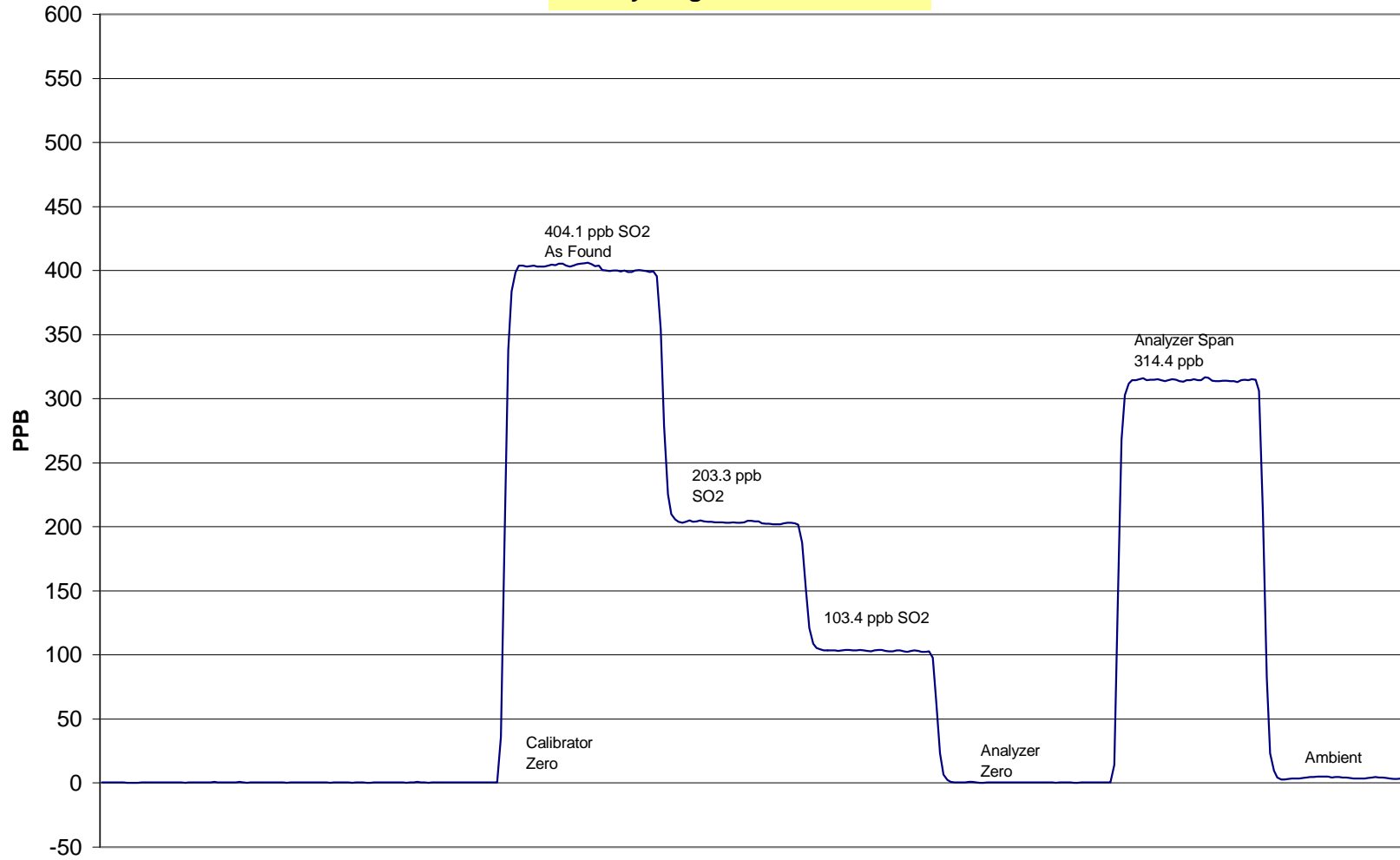
Calibration Date	March 27, 2009	Previous Calibration	February 20, 2009
Station Number	3	Station Location	Smokey Heights
Start Time (MST)	8:30	End Time (MST)	11:10
Analyzer make/model	Teco 43i	Analyzer serial #	701120009

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.9	N/A		
400.5	399.6	1.0023	Correlation Coefficient	0.999941
201.3	203.3	0.9901		
100.4	103.4	0.9709		
			Slope	1.006235
			Intercept	-2.359390



Smokey Heights SO2 Calibration



March 27, 2009

Calibration Report



Parameter **TRS**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 27, 2009	Previous Calibration	February 20, 2009
Station Number	3	Station Location	Smokey Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:00	End Time (MST)	12:25
Barometric Pressure	0.930 ATM	Station Temperature	20.0 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	5.1 ppm	Cal Gas Expiry Date	4/2/2009
Correction factor	0.031613	Cal Gas Cylinder #	ALM013295
DACS make	Focus AP1000	DACS serial No.	52620
DACS voltage range	0 - 10 volt	DACS channel #	5
	Before		After
Calculated slope	1.000982	Calculated slope	1.003472
Calculated intercept	-0.439137	Calculated intercept	-0.363852
Analyzer make	TEI Model 43C	Analyzer serial #	0436610005

	before		after	
Concentration range	100	ppb	100	ppb
Background coefficient	13.2	ppb	13.2	ppb
Lamp Voltage	1.027		1.027	
Chamber Temp	771	volts	772	volts
Perm Gas Temp	44	Deg C	44	Deg C
Pressure	45	Deg C	44.9	Deg C
Sample Flow	477.4	mm Hg	477.4	mm Hg
Lamp Intensity	740	ccm	740	ccm
	32,414	mv	32,341	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
4988	79.76	80.27	80.3	0.9990
4988	39.85	40.42	40.6	0.9949
4988	9.93	10.13	10.5	0.9608
4990	0.0	0.00	0.5	As Found Zero
4990	79.71	80.19	80.3	As Found Span
Average Correction Factor				0.9849

Calculated value of As Found Response: 79.50 ppm Percent Change of As Found: 0.9%

	before calibration		after calibration	
Auto zero	-0.2	ppm	0.0	ppm
Auto span	41.5	ppm	42.6	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

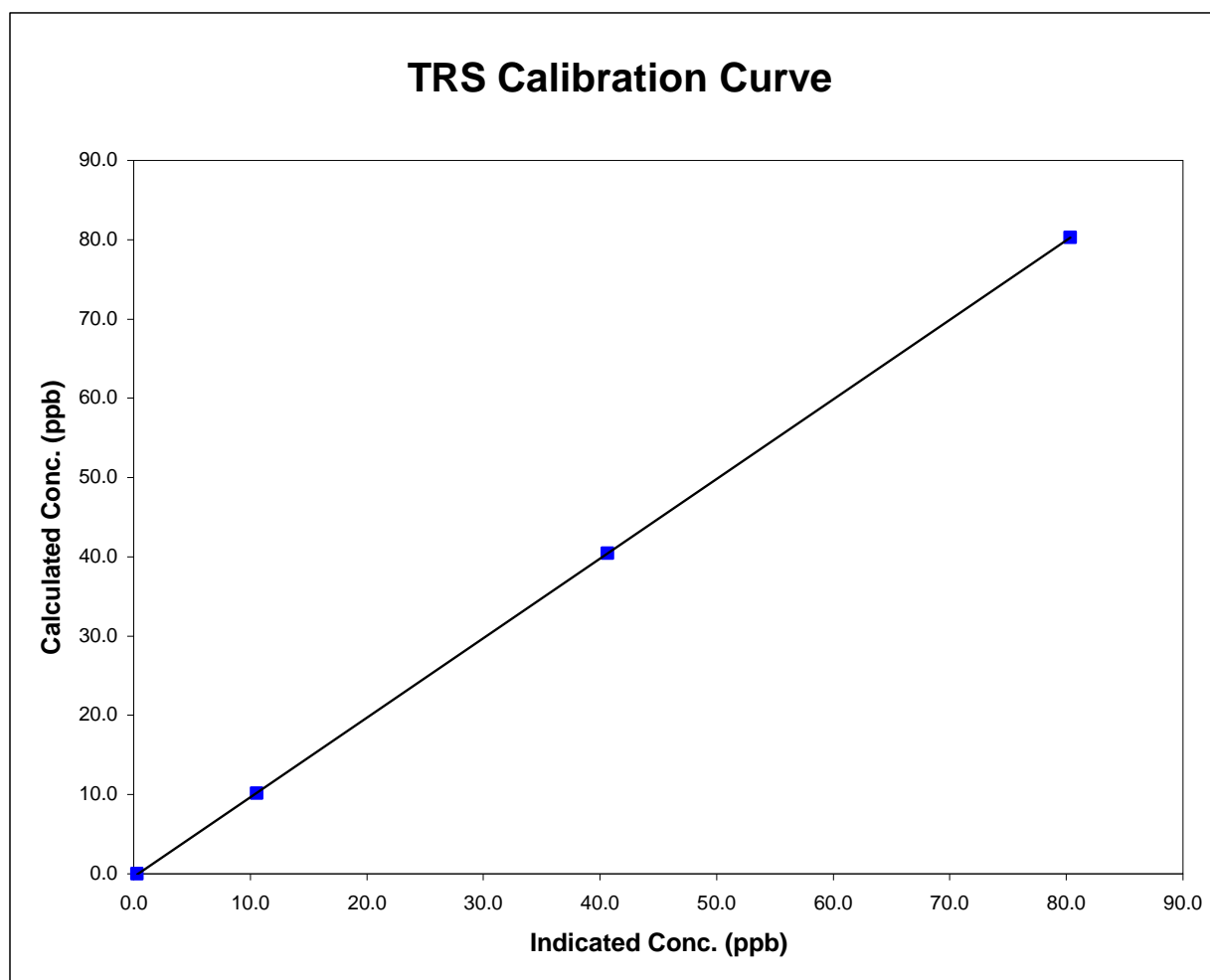


Station Information

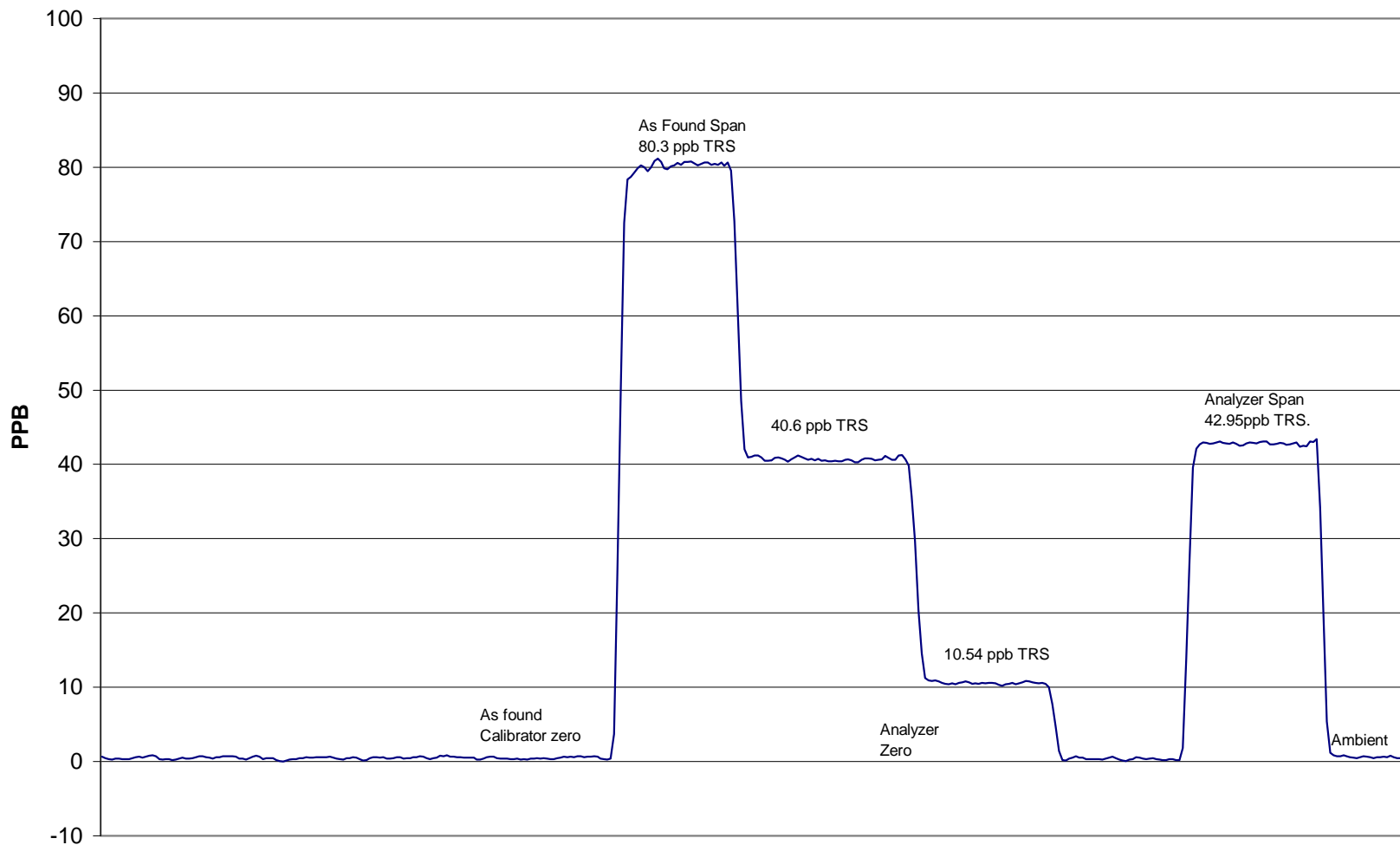
Calibration Date	March 27, 2009	Previous Calibration	February 20, 2009
Station Number	3	Station Location	Smokey Heights
Start Time (MST)	10:00	End Time (MST)	12:25
Analyzer make/model	TEI Model 43C	Analyzer serial #	0436610005

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
80.3	80.3	0.9990	Correlation Coefficient	0.999997
40.4	40.6	0.9949		
10.1	10.5	0.9608		
			Slope	1.003472
			Intercept	-0.363852



Smokey Heights TRS Calibration



March 27, 2009

Calibration Report



Parameter **SO2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	April 8, 2009	Previous Calibration	February 13, 2009
Station Number	4	Station Location	Beaverlodge
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	8:30	End Time (MST)	14:02
Barometric Pressure	0.906 atm	Station Temperature	25.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
Cal Gas Concentration	10.06 ppm	Cal Gas Expiry Date	7/27/2009
Gas Cert Reference	CC 114395		
DACS make	Focus AP1000	DACS serial No.	45269
DACS voltage range	0 - 10 volt	DACS channel #	4
	Before		After
DACS Scale High	500	DACS slope	500
DACS Scale Low	0	DACS intercept	0
Calculated slope	0.999683	Calculated slope	0.999880
Calculated intercept	-0.394699	Calculated intercept	-0.385046

Analyzer make **TEI Model 43CTL** Analyzer serial # **43CTL-74200-376**

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	2.44		2.44	
Coefficient	0.913		0.913	
PMT	-813.3	V	-813	V
UV Lamp Voltage	1060	V	1060	V
Chamber Temp	45.2	Deg C	45.1	Deg C
Pressure	662.8	mm Hg	665.1	mm Hg
Sample Flow	0.478	LPM	0.475	LPM
Lamp Intesity	83%	%	83%	%

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
4988	39.84	79.7	79.8	0.9984
4988	19.87	39.9	40.6	0.9820
4988	9.91	19.9	20.7	0.9645
4988	0.00	0.0	0.0	As found zero
4988	39.90	79.8	80.7	As found span
Average Correction Factor				0.9816

Calculated value of As Found Response: **80.286 ppm** Percent Change of As Found: **-0.6%**

	before calibration		after calibration	
Auto zero	-0.3	ppm	-0.4	ppm
Auto span	54.6	ppm	56.8	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **SO2**

Air Monitoring Network **PASZA**



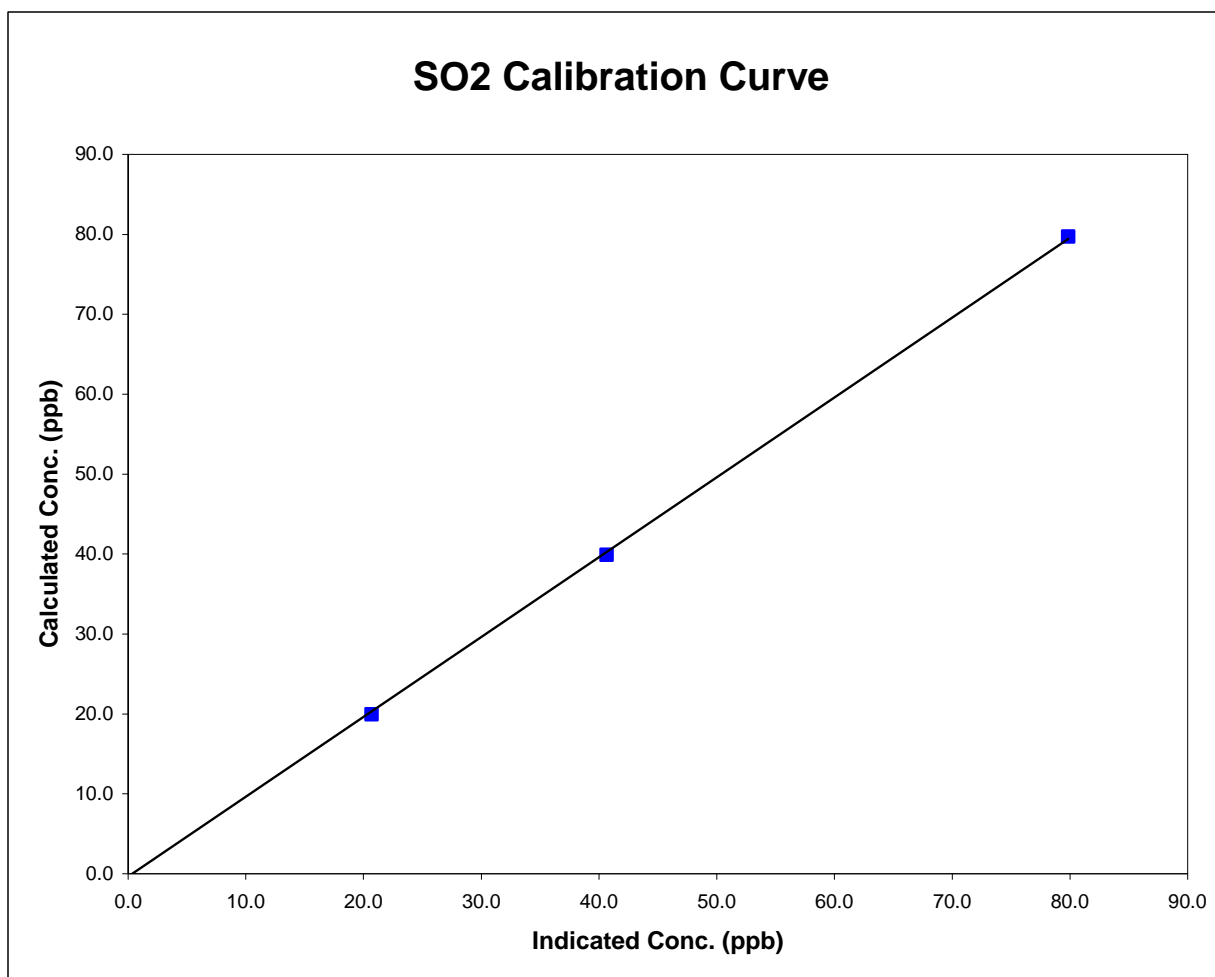
Station Information

Calibration Date	April 8, 2009	Previous Calibration	February 13, 2009
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	8:30	End Time (MST)	14:02
Analyzer make/model	TEI Model 43CTL	Analyzer serial #	43CTL-74200-376

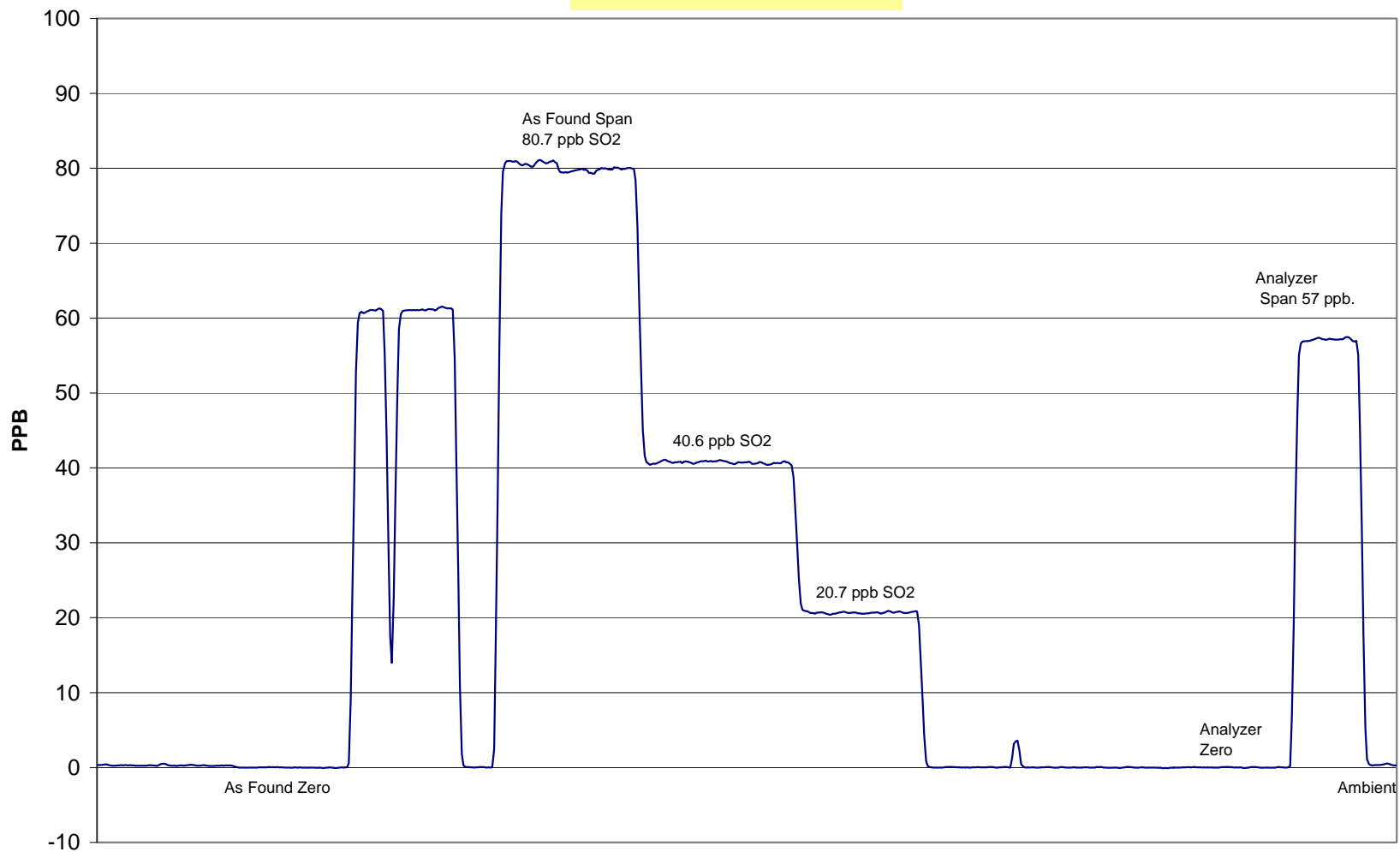
Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
79.7	79.8	0.9984	Correlation Coefficient	0.999859
39.9	40.6	0.9820		
19.9	20.7	0.9645		
			Slope	0.999880
			Intercept	-0.385046

SO2 Calibration Curve



Beaverlodge SO₂ Calibration



April 8, 2009

Calibration Report

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



Station Information

Calibration Date **April 08, 2009** Previous Calibration **February 13, 2009**
 Station Number **4** Station Location **BeaverLodge**

Reason: **Routine** Installation Removal Other: _____

Start Time (MST) **8:30** End Time (MST) **14:41**
 Barometric Pressure **0.906** Atm Station Temperature **25.0** Deg C
 Calibrator **Envionics** Serial Number **2844**
 NO Cal Gas Conc **50.1** ppm Cal Gas Expiry Date _____
 NOx Cal Gas Conc **50.1** ppm Cal Gas Serial # _____

DACS Information

DACS make _____ DACS serial No. _____

Parameter		NO2	NOx	NO
Before	Data Slope	1.008666	0.999840	1.001273
	Data Offset	-0.837985	-1.782807	-1.534863
After	Data Slope	1.010368	0.998496	1.001727
	Data Offset	0.852963	-2.254658	-1.906189
Channel #				
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model **TEI 42C** Analyzer serial # _____

Test Point	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
NO offset	1.5	mV	1.3	mV
NOx bkgnd	1.5	mV	1.3	mV
NO coefficient	1.215		1.200	
NOx coefficient	0.996		1.006	
NO2 conv temp	323.0	Deg C	323.0	Deg C
PMT Temp	-2.2	Deg C	-2.2	Deg C
PMT Volt	-636.0	mV	-636.0	mV
R Cell Press	195.2	in Hg	193.1	in Hg
Sample Flow	0.724	ccm	0.724	ccm

Notes: _____

Calibration Report

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



Station Information

Calibration Date: **April 8, 2009**

Station Location: **BeaverLodge**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4988	0.00	0.0	0.0	0.0	-0.1	-0.2	-0.2	N/A	N/A
1	4988	39.84	397.0	397.0	0.0	398.5	397.0	1.0	0.9963	0.9999
2	4988	19.87	198.8	198.8	0.0	202.9	201.7	0.9	0.9797	0.9857
3	4988	9.91	99.3	99.3	0.0	103.9	103.1	0.6	0.9560	0.9640
AFZ	4988	0.00	0.0	0.0	0.0	-0.1	-0.2	-0.2	0.0000	0.0000
AFS	4988	39.84	397.0	397.0	0.0	394.0	400.2	-6.5	1.0077	0.9920
Average Correction Factor									0.9773	0.9832

As Found Concentrations: NO_x= 392.3 NO= 398.9 As Found Percent Change NO_x= -1.2% NO= 0.5%

GPT Calibration Data

Dilution Flow 4988 ccm Source Gas Flow 39.84 ccm

O3 Setpoint (ppb)	Indicated NO high point (ppb)	Indicated NO drop conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	-0.2	-0.2	0.0	-0.1	-0.2	-0.2	N/A	N/A	N/A	N/A
NO point	396.6	396.6	0.0	396.5	396.6	0.0	1.0002	1.0000	N/A	N/A
400	396.6	128.4	268.2	393.8	128.4	265.1	1.0070	1.0000	1.0117	98.8%
200	396.6	212.8	183.7	393.9	212.8	180.8	1.0066	1.0000	1.0163	98.4%
100	396.6	296.9	99.6	394.2	296.9	96.9	1.0061	1.0000	1.0287	97.2%
Average Correction Factor							1.0066	1.0000	1.0189	98.1%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	-1.8	-0.9	-1.7	ppb	0.6	0.5	-0.2	ppb
Auto span	480.5	0.6	479.1	ppb	477.0	2.5	474.1	ppb

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **NO₂**

Air Monitoring Network **PASZA**

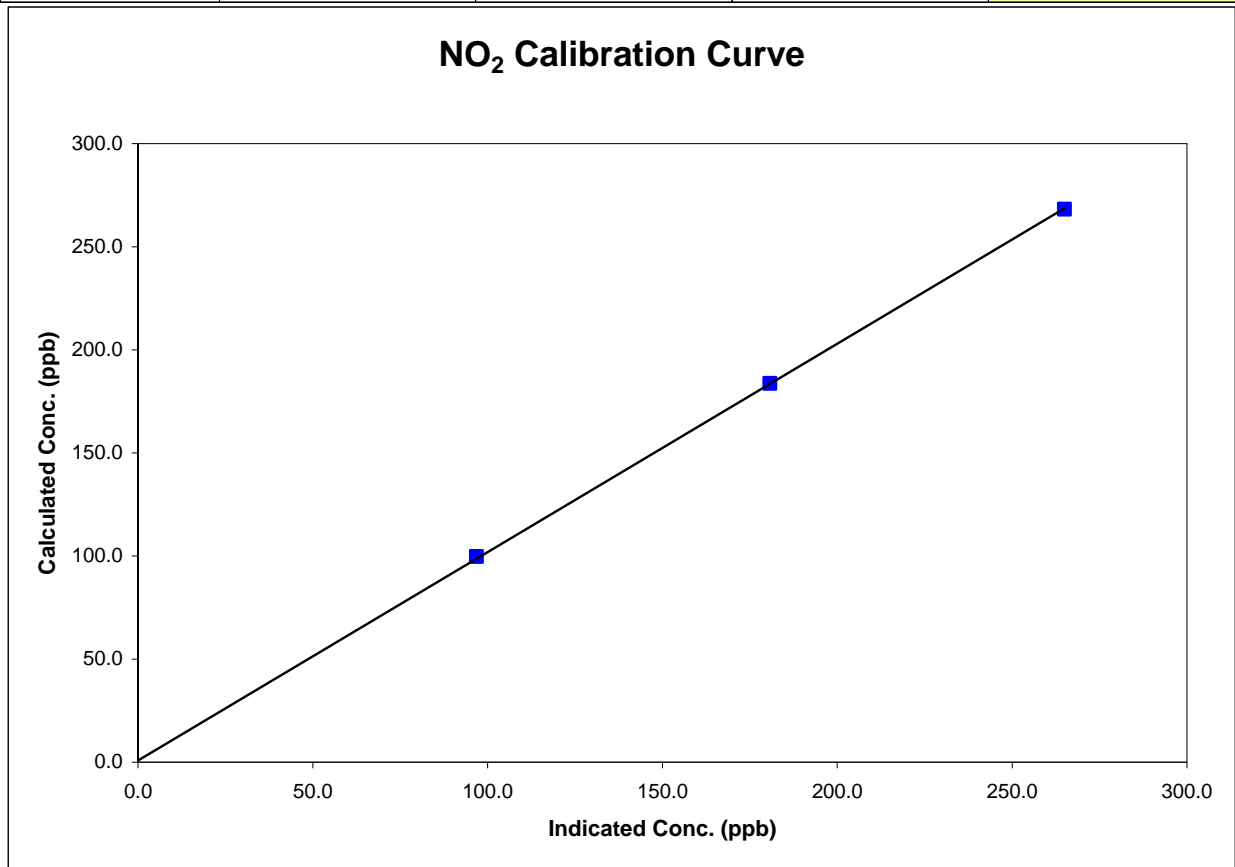


Station Information

Calibration Date	April 08, 2009	Previous Calibration	February 13, 2009
Station Number	4	Station Location	BeaverLodge
Start Time (MST)	8:30	End Time (MST)	14:41
Analyzer make	TEI 42C	Analyzer serial #	60475-327

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	N/A		
268.2	265.1	1.0117	Correlation Coefficient	0.999960
183.7	180.8	1.0163		
99.6	96.9	1.0287	Slope	1.010368
			Intercept	0.852963



Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**



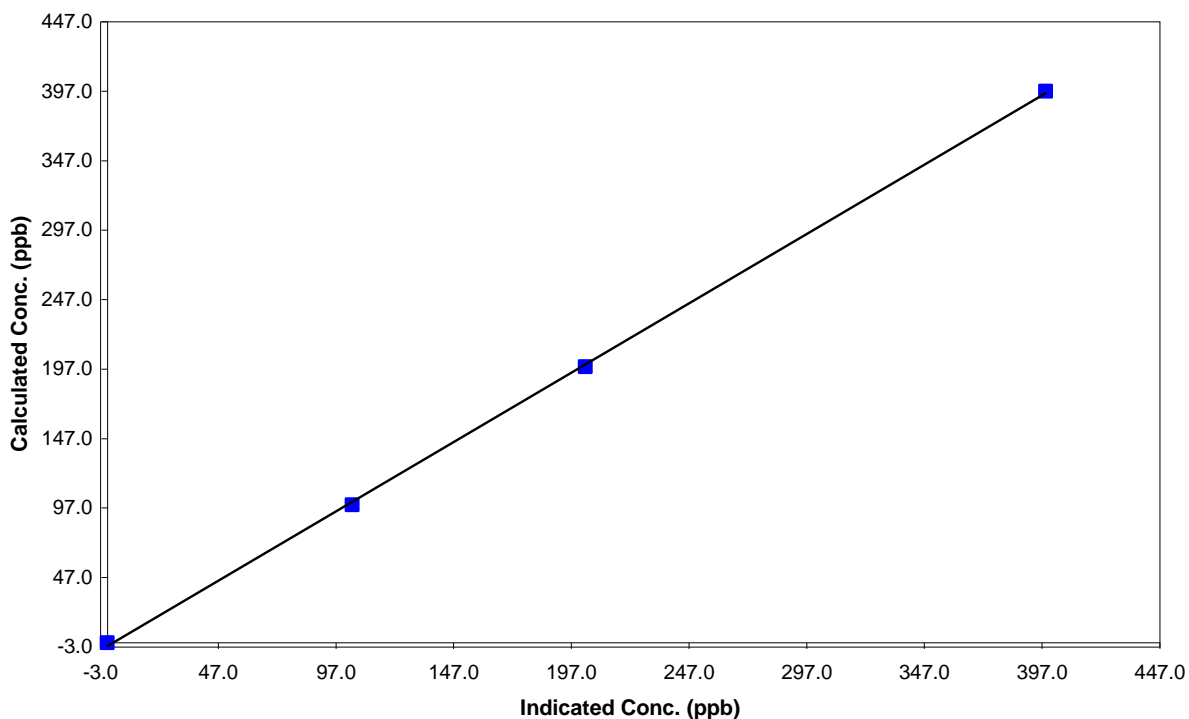
Station Information

Calibration Date	April 08, 2009	Previous Calibration	February 13, 2009
Station Number	4	Station Location	BeaverLodge
Start Time (MST)	8:30	End Time (MST)	14:41
Analyzer make	TEI 42C	Analyzer serial #	0

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.1	N/A		
397.0	398.5	0.9963	Correlation Coefficient	0.999830
198.8	202.9	0.9797		
99.3	103.9	0.9560	Slope	0.998496
			Intercept	-2.254658

NO_x Calibration Curve



Calibration Summary

Parameter **NO**

Air Monitoring Network **PASZA**



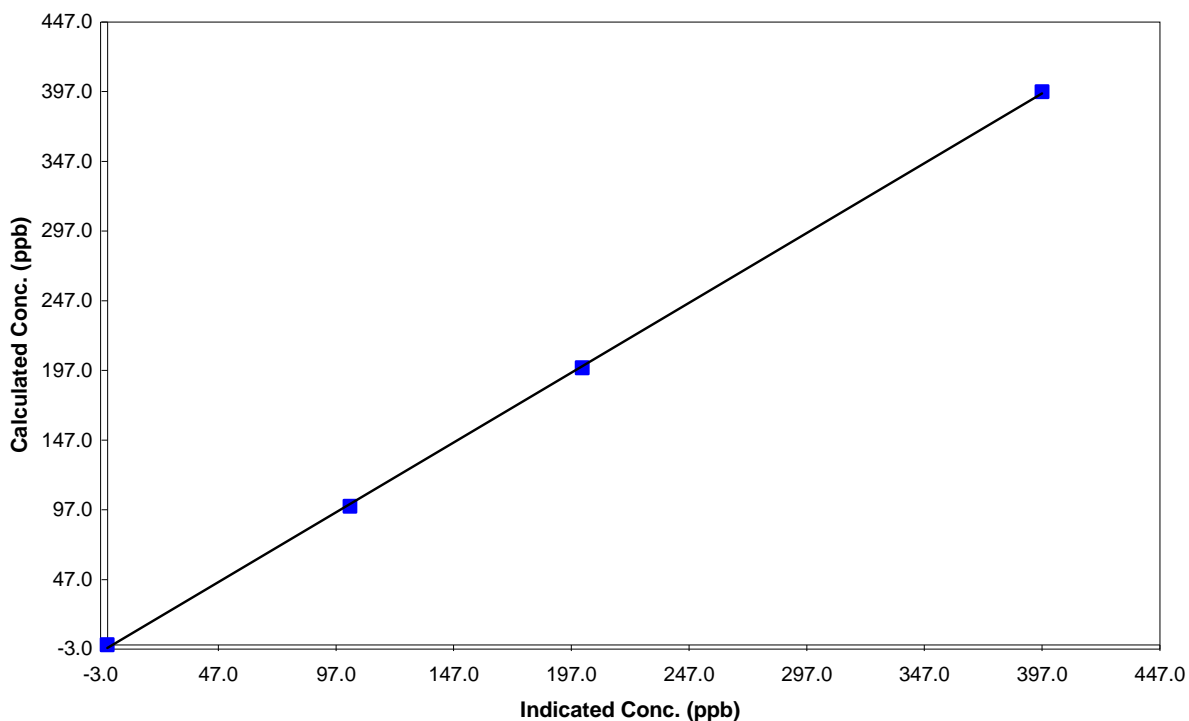
Station Information

Calibration Date	April 08, 2009	Previous Calibration	February 13, 2009
Station Number	4	Station Location	BeaverLodge
Start Time (MST)	8:30	End Time (MST)	14:41
Analyzer make	TEI 42C	Analyzer serial #	60475-327

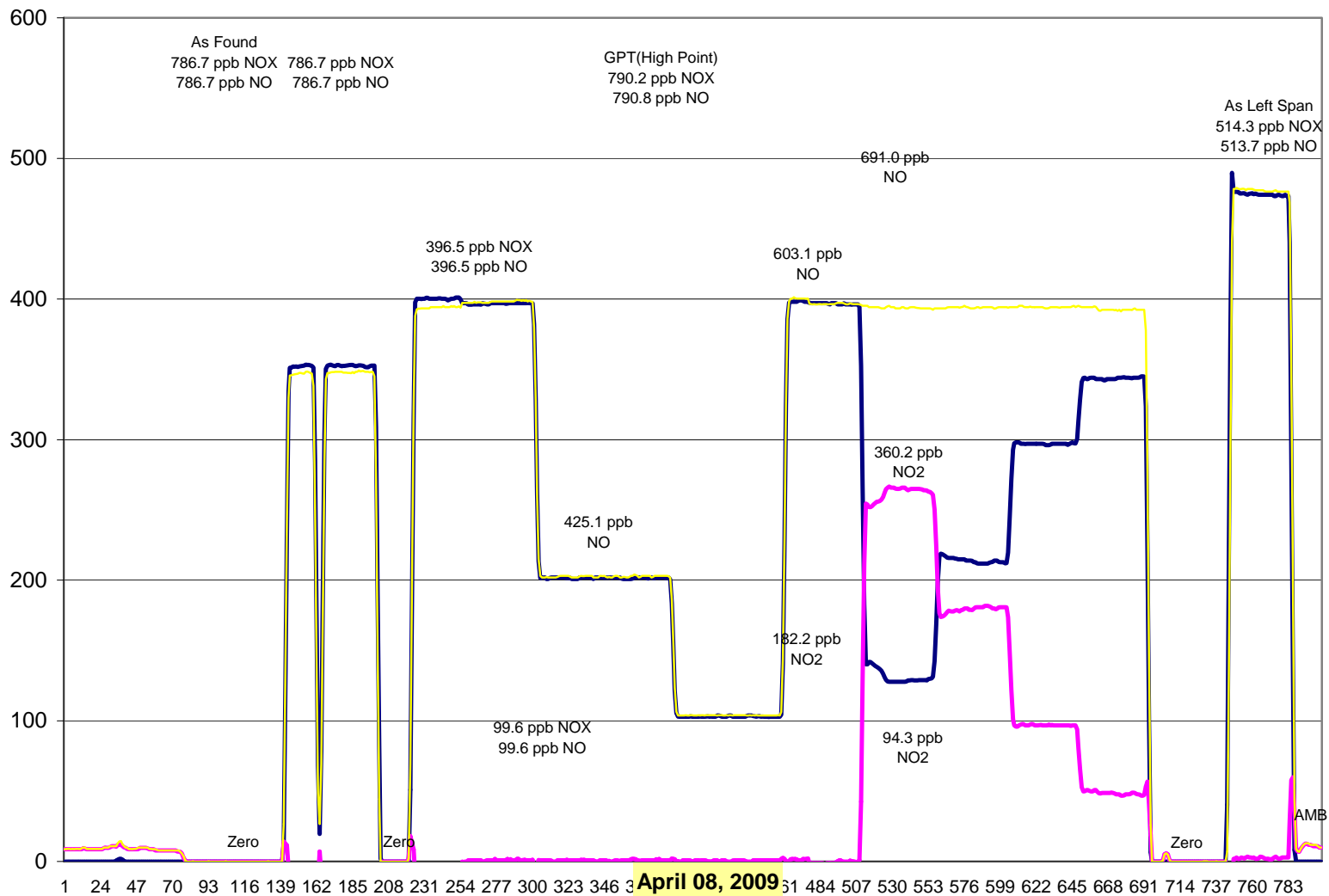
Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.2	N/A	Correlation Coefficient	0.999865
397.0	397.0	0.9999		
198.8	201.7	0.9857		
99.3	103.1	0.9640		
			Slope	1.001727
			Intercept	-1.906189

NO Calibration Curve



Beaverlodge NO_x Calibration



Calibration Summary

Parameter **O3**

Air Monitoring Network **PASZA**



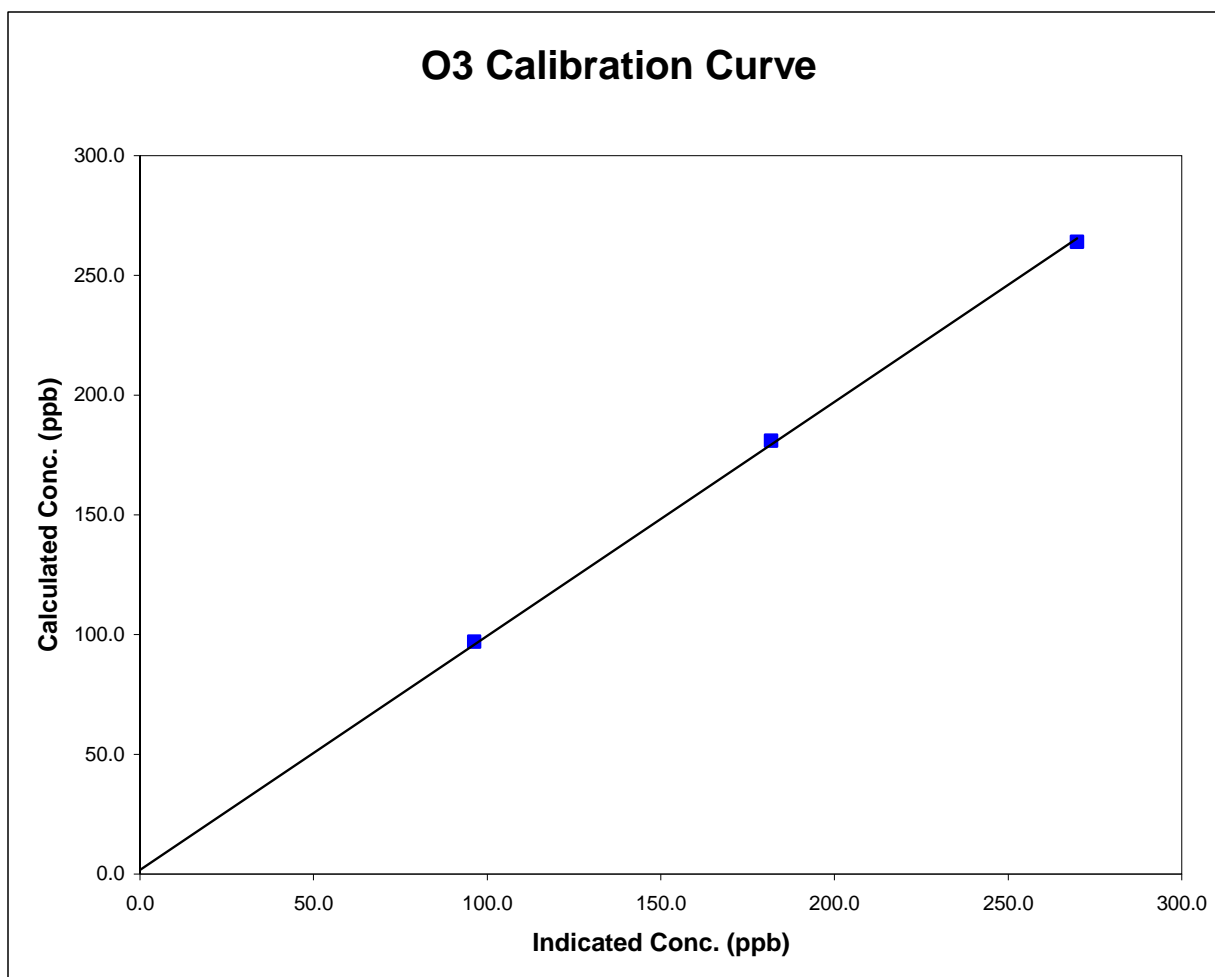
Station Information

Calibration Date	April 8, 2009	Previous Calibration	February 13, 2009
Station Number	4	Station Location	Beaverlodge
Start Time (MST)	13:31:00 PM	End Time (MST)	18:00
Analyzer make/model	Teco 49C	Analyzer serial #	49C-76443-383

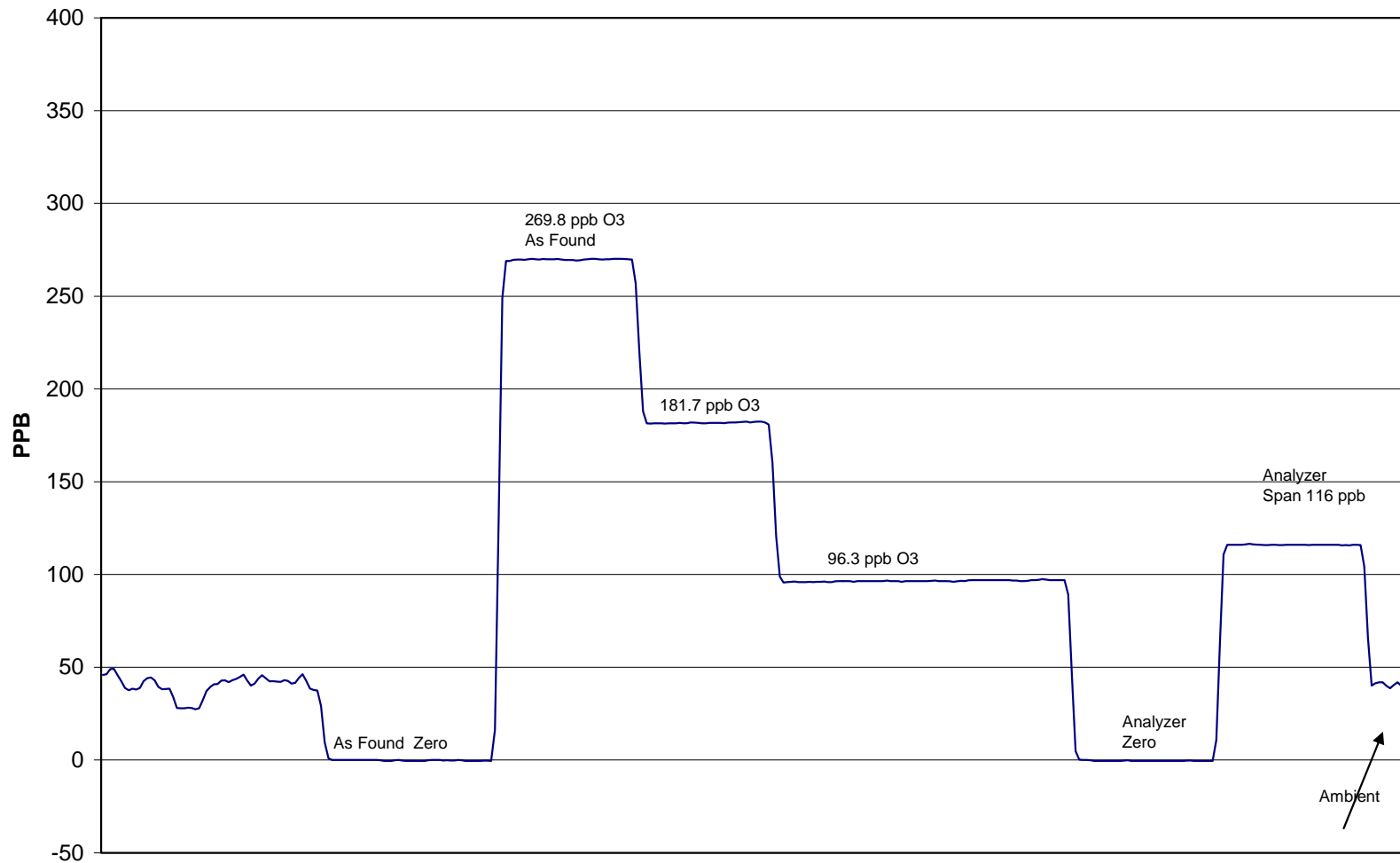
Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-0.4	NA		
264.0	269.8	0.9784	Correlation Coefficient	0.999798
181.0	181.8	0.9956		
97.0	96.3	1.0074	Slope	0.977669
			Intercept	1.678569

O3 Calibration Curve



Beaverlodge O3 Calibration



April 8, 2009

Calibration Report



Parameter **SO2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 30, 2009	Previous Calibration	February 8, 2009
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	9:20	End Time (MST)	12:14
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	1.001258	Calculated slope	1.002426
Calculated intercept	-2.345361	Calculated intercept	-0.423298

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

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Background	8.4		8.6	
Coefficient	1.213		1.19	
UV Lamp Voltage	728	V	728	V
Chamber Temp	44.5	C	44.6	C
Perm Gas Temp	45	C	45	C
Pressure	673.6	mm Hg	671.1	mm Hg
Sample Flow	0.487	LPM	0.486	LPM
Lamp Intesity	34148	Hz	34696	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	0.0	N/A
4989	39.83	400.8	400.0	1.0019
4989	19.88	200.8	201.0	0.9991
4989	9.92	100.4	101.0	0.9942
4988	0.00	0.0	0.4	As found zero
4990	39.89	401.3	407.0	As found span
Average Correction Factor				0.9984

Calculated value of As Found Response: **404.766 ppm** Percent Change of As Found: **-0.9%**

	before calibration		after calibration	
Auto zero	0.3	ppm	NA	ppm
Auto span	266.7	ppm	NA	ppm

Notes: DACS data capture had unknowingly failed to record data during the calibration.
All data indicated are values recorded by technician during the calibration.

Calibration Performed By: Grover Christiansen

Calibration Summary

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

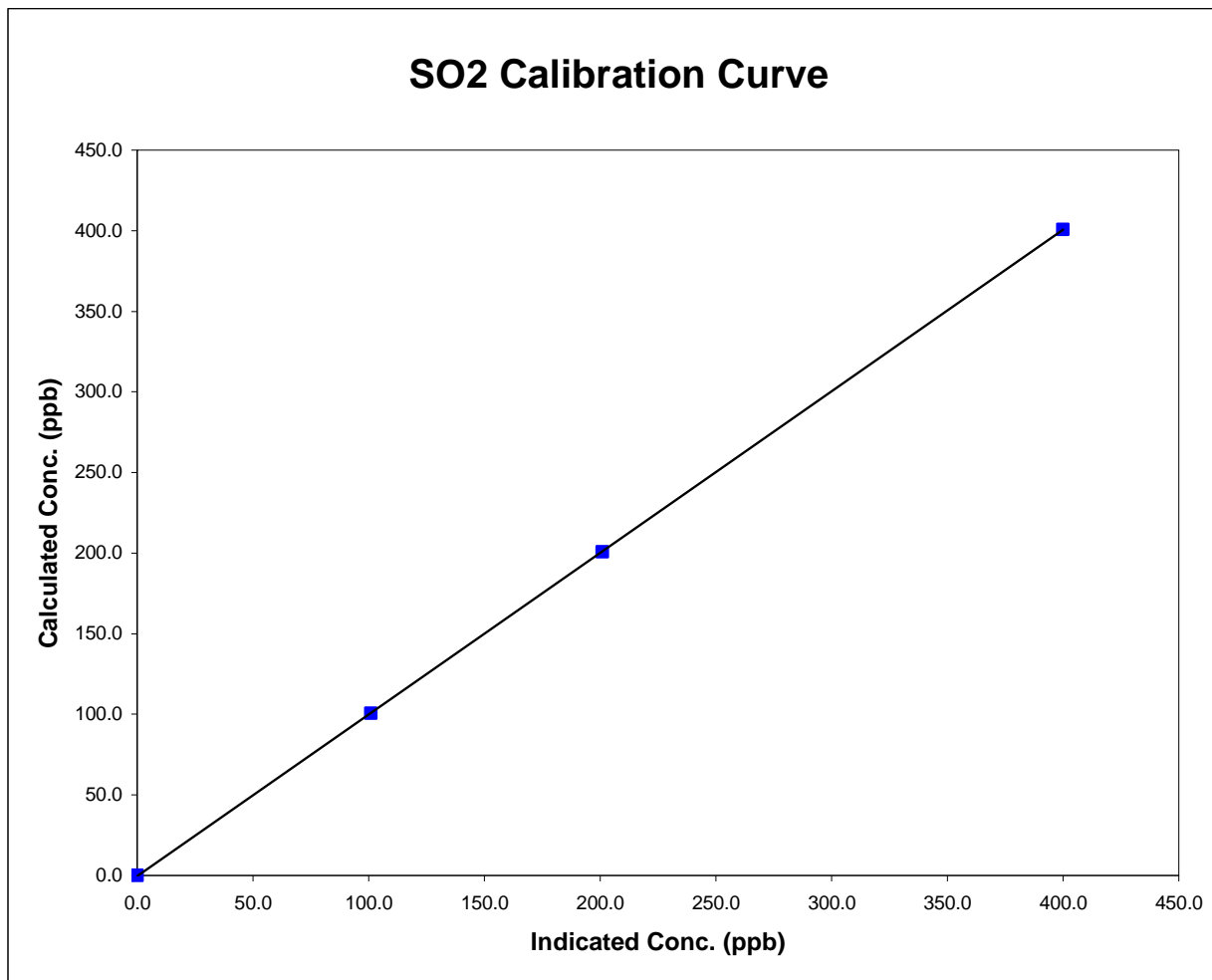


Station Information

Calibration Date	March 30, 2009	Previous Calibration	February 8, 2009
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	9:20	End Time (MST)	12:14
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	0.0	N/A		
400.8	400.0	1.0019	Correlation Coefficient	0.999995
200.8	201.0	0.9991		
100.4	101.0	0.9942	Slope	1.002426
			Intercept	-0.423298



Calibration Report



Parameter **TRS**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 30, 2009	Previous Calibration	February 8, 2009
Station Number	6	Station Location	Rover
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	14:34	End Time (MST)	16:57
Barometric Pressure	27.5 inches Hg	Station Temperature	21.0 Deg C
Calibrator	Envionics 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	0.996370	Calculated slope	0.995989
Calculated intercept	0.068242	Calculated intercept	0.012412

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

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Background	10.4	ppb	10.7	ppb
Coefficient	1.454		1.454	
Lamp Voltage	801	V	798	V
Chamber Temp	43.8	C	44.0	C
Perm gas Temp	45.	C	45	C
Pressure	660	mmHg	671	mmHg
Sample Flow	423	ccm	436	ccm
Lamp Intensity	39241.0	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	40.5	0.9980
4988	9.92	10.1	9.8	1.0287
4988	0.00	0.0	-0.6	As found zero
4988	79.88	80.4	80.9	As found span
Average Correction Factor				1.0073

Calculated value of As Found Response: **81.27 ppm** Percent Change of As Found: **-1.1%**

	before calibration		after calibration	
Auto zero	-0.6	ppm	-0.4	ppm
Auto span	71.3	ppm	72.0	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **TRS**

Air Monitoring Network **PASZA**

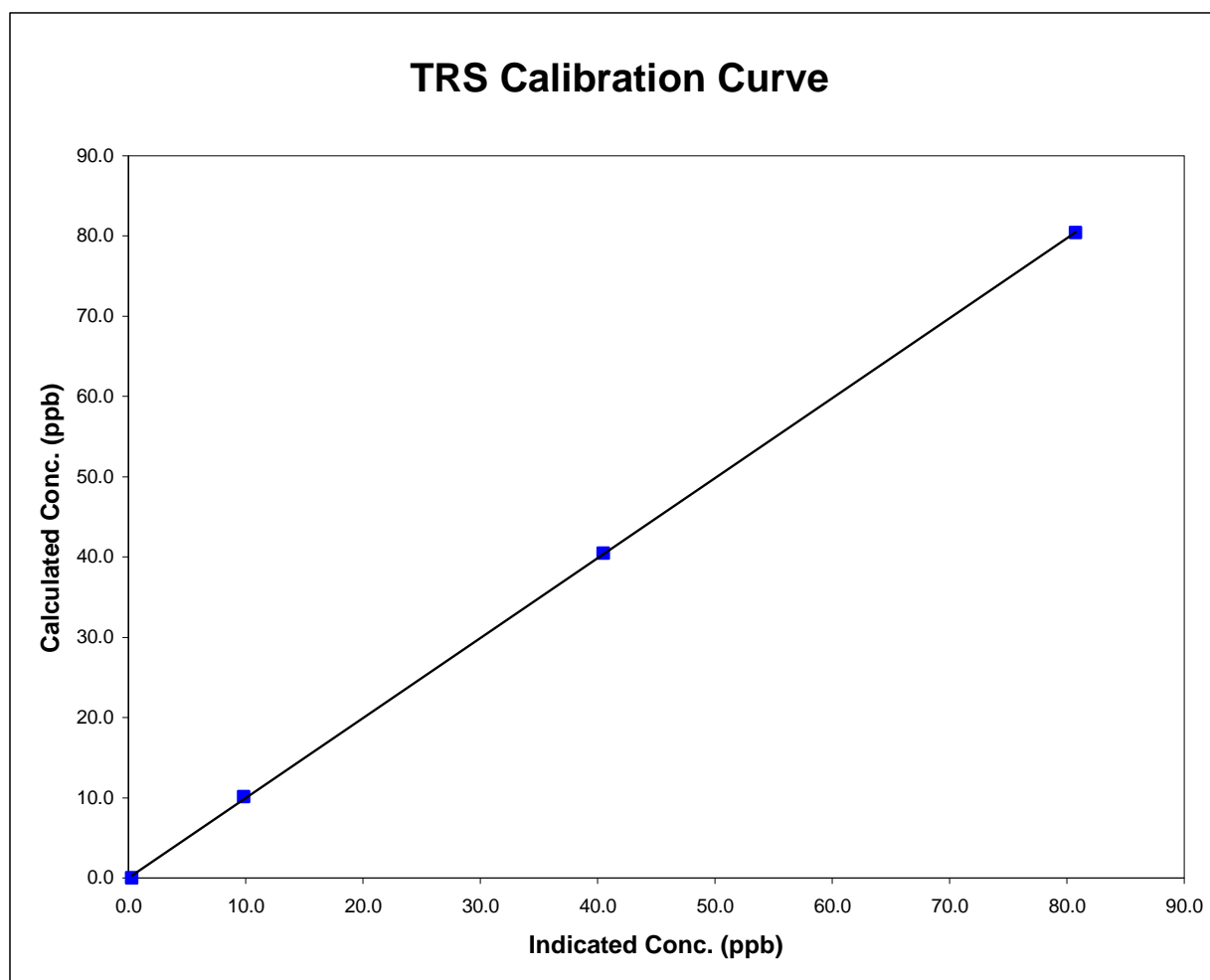


Station Information

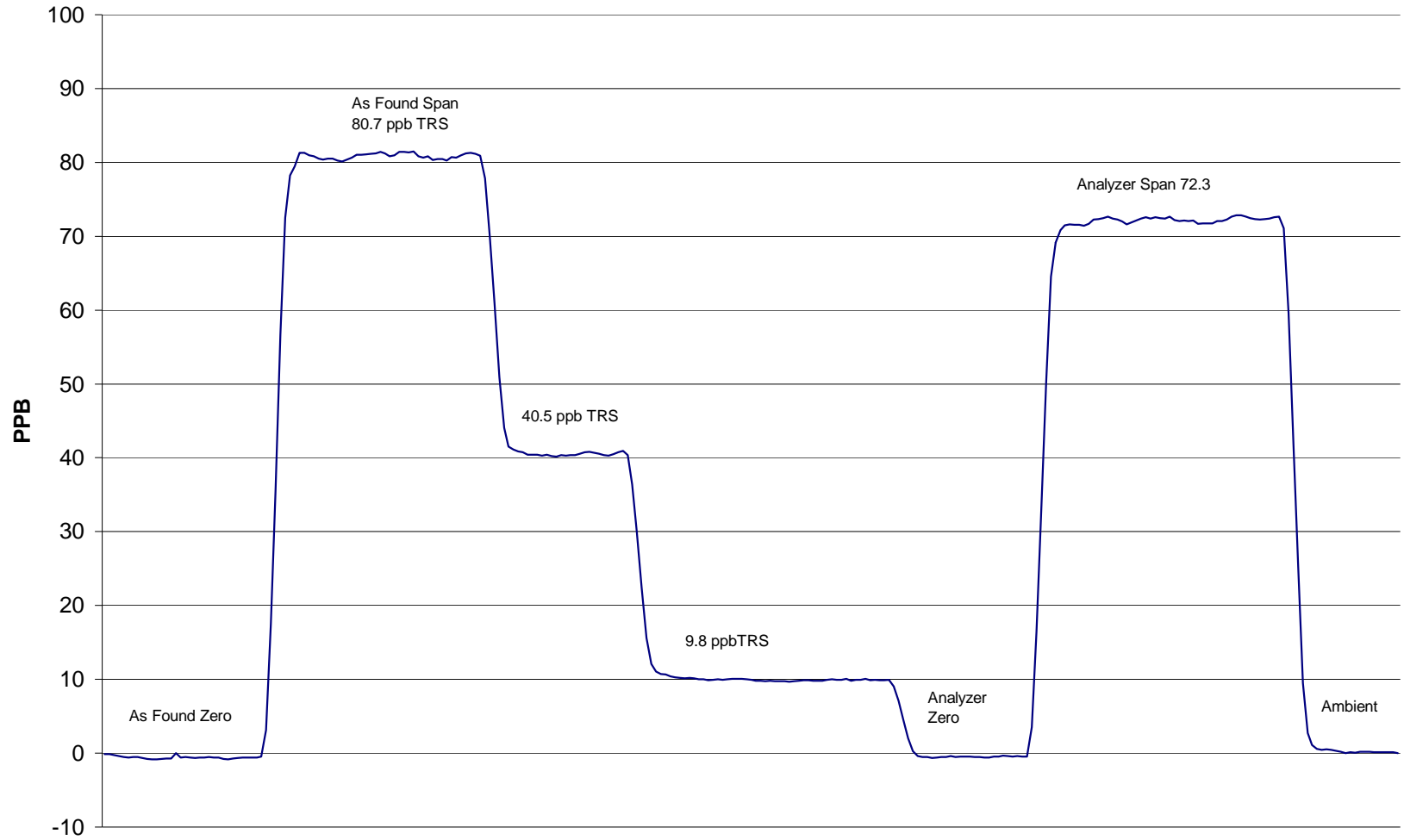
Calibration Date	March 30, 2009	Previous Calibration	February 8, 2009
Station Number	6	Station Location	Rover
Start Time (MST)	14:34	End Time (MST)	16:57
Analyzer make/model	TEI 43C	Analyzer serial #	609716238

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.3	N/A		
80.4	80.8	0.9953	Correlation Coefficient	0.999949
40.4	40.5	0.9980		
10.1	9.8	1.0287		
			Slope	0.995989
			Intercept	0.012412



Spirit River TRS Calibration



March 30, 2009

Calibration Report



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

Station Information

Calibration Date	March 30, 2009	Previous Calibration	March 20, 2009
Station Number	8	Station Location	Rover - Spirit River
Reason:	<input type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	13:14	End Time (MST)	
Barometric Pressure	0.935 atm	Station Temperature	21.0 Deg C
Calibrator	EnviroNics 6100	Serial Number	3474
DACS make	Focus AP1000	DACS serial No.	52662
DACS voltage range	0-5	DACS channel #	7
	<u>Before</u>		<u>After</u>
Calculated slope	1.000329	Calculated slope	1.004613
Calculated intercept	-0.833312	Calculated intercept	0.852450
Analyzer make	TEI Model 49C	Analyzer serial #	609-716240

	before		after	
Concentration range	0-500	ppb	0-500	ppb
Offset	-0.2	ppb	0	ppb
Span	1.487		1.487	
Cell A	87633	Hz	87621	Hz
Cell B	107006	Hz	107126	Hz
Pressure	693	in Hg	694	in Hg
CellA Flow	710	ccm	710	ccm
Cell B Flow	691	cmm	691	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	257.0	256.0	1.0039
4990	0.00	175.0	172.2	1.0163
4990	0.00	92.0	90.0	1.0222
4990	0.00	0.0		As found zero
4990	0.00	257.0	248.0	As found span
Average Correction Factor				1.0141

Calculated value of As Found Response: #VALUE! ppm Percent Change of As Found: NA

	before calibration		after calibration	
Auto zero	0.8	ppb	NA	ppb
Auto span	245.3	ppb	NA	ppb

Notes: DACS data capture had unknowingly failed to record data during the calibration.
All data indicated are values recorded by technician during the calibration.

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **O3**

Air Monitoring Network **PASZA**

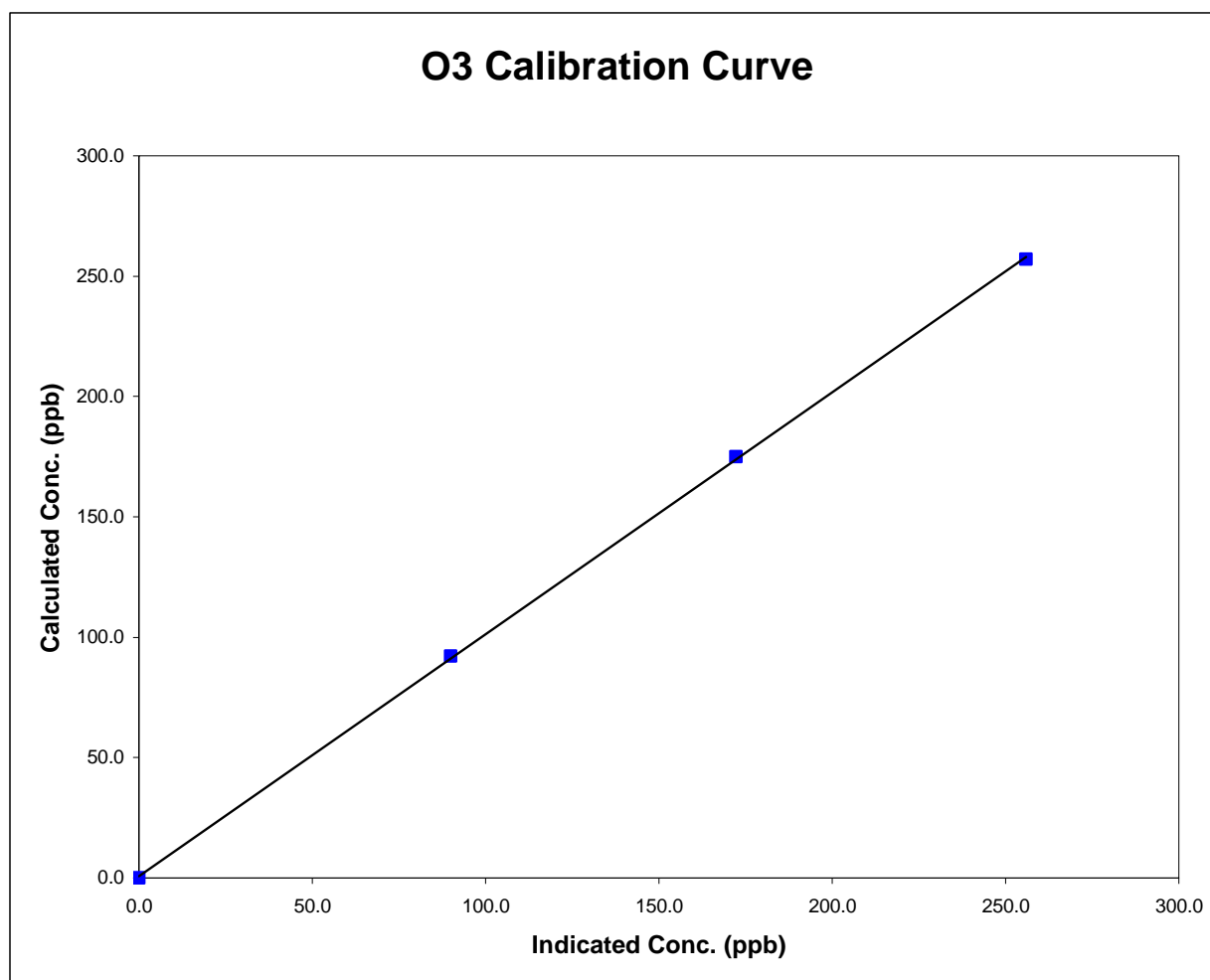


Station Information

Calibration Date	March 30, 2009	Previous Calibration	March 20, 2009
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	13:14	End Time (MST)	0:00
Analyzer make/model	TEI Model 49C	Analyzer serial #	609-716240

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	NA		
257.0	256.0	1.0039	Correlation Coefficient	0.999900
175.0	172.2	1.0163		
92.0	90.0	1.0222		
			Slope	1.004613
			Intercept	0.852450



Calibration Report

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



Station Information

Calibration Date **March 30, 2009** Previous Calibration **February 8, 2009**
Station Number **8** Station Location **Rover - Spirit River**

Reason: Routine Installation Removal Other: _____

Start Time (MST) **9:20** End Time (MST) _____
Barometric Pressure **27.66** Inches Hg Station Temperature **22.0** Deg C
Calibrator **EnviroNics 6100** Serial Number **3474**
NO Cal Gas Conc **49.6** ppm Cal Gas Expiry Date **2-Jan-09**
NOx Cal Gas Conc **49.6** ppm Cal Gas Serial # **LL-16161**

DACS Information

DACS make **FOCUS AP1000** DACS serial No. **52662**

Parameter		NO ₂	NO _x	NO
Before	Data Slope	0.985124	0.977982	0.982068
	Data Offset	0.003243	-2.777913	-2.868974
After	Data Slope	1.003456	1.002376	1.002459
	Data Offset	-0.201854	-2.204468	-2.243907
Channel #		8	6	7
Voltage Range		0 - 10 VDC	0 - 10 VDC	0 - 10 VDC

Analyzer Information

Analyzer make/model **TECO 42i** Analyzer serial # **701120011**

Test Point	before		after	
Concentration range	0-500	ppb	0-500	ppb
NO background	5.1	ppb	5.0	mV
NO _x background	5.2	ppb	5.1	mV
NO coefficient	0.914		0.914	
NO _x coefficient	0.998		0.998	
Chamber Temp	50.3	Deg C	50.0	Deg C
Cooler Temp	-3.0	Deg C	-3.0	Deg C
NO ₂ Converter Temp	325.5	Deg C	325.6	Deg C
Sample Flow	0.527	ccm	0.500	ccm
Ozonator Flow	OK	LPM	OK	LPM
Pressure	151.8	mm Hg	162.4	mm Hg

Notes: DACS data capture had unknowingly failed to record data during the calibration.
All data indicated are values recorded by technician during the calibration.

Calibration Performed By: Grover Christiansen

Calibration Report

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



Station Information

Calibration Date: **March 30, 2009**

Station Location: **Rover - Spirit River**

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	
zero	4988	0.00	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	
1	4989	39.84	392.9	392.9	0.0	393.0	393.0	NA	0.9999	0.9999	
2	4989	19.89	197.0	197.0	0.0	200.0	200.0	NA	0.9848	0.9848	
3	4989	9.90	98.2	98.2	0.0	102.3	102.4	NA	0.9602	0.9593	
AFZ	4988	0.00	0.0	0.0	0.0	0.0	0.0	0.0	NA	NA	
AFS	4990	39.84	392.9	392.9	0.0	424.0	424.0	NA	0.9266	0.9266	
									Average Correction Factor	0.9816	0.9813

As Found Concentrations: NO_x= 421.2 NO= 421.1 As Found Percent Change NO_x= 7.2% NO= 7.2%

GPT Calibration Data

Dilution Flow 4988 ccm Source Gas Flow 39.82 ccm

O3 Setpoint (ppb)	Calculated NOx conc (ppb)	Calculated NO conc (ppb)	Calculated NO2 conc (ppb)	Indicated NOx conc (ppb)	Indicated NO conc (ppb)	Indicated NO2 conc (ppb)	NOx Correction factor	NO Correction factor	NO2 Correction factor	Converter Efficiency	
0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	
NO point	393.0	393.0	0.0	393.0	393.0	0.0	1.0000	1.0000	N/A	N/A	
300	395.0	138.0	257.0	395.0	138.0	256.0	1.0000	1.0000	1.0039	99.6%	
200	395.0	220.0	175.0	395.0	220.0	175.0	1.0000	1.0000	1.0000	100.0%	
100	395.0	303.0	92.0	395.0	303.0	92.0	1.0000	1.0000	1.0000	100.0%	
							Average Correction Factor	1.0000	1.0000	1.0013	99.9%

AIC Data

Parameter	Previous calibration				Current calibration			
	NOx	NO2	NO		NOx	NO2	NO	
Auto zero	1.1	0.3	-0.1	ppb	NA	NA	NA	ppb
Auto span	315.9	317.9	-0.5	ppb	NA	NA	NA	ppb

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **NO_x**

Air Monitoring Network **PASZA**



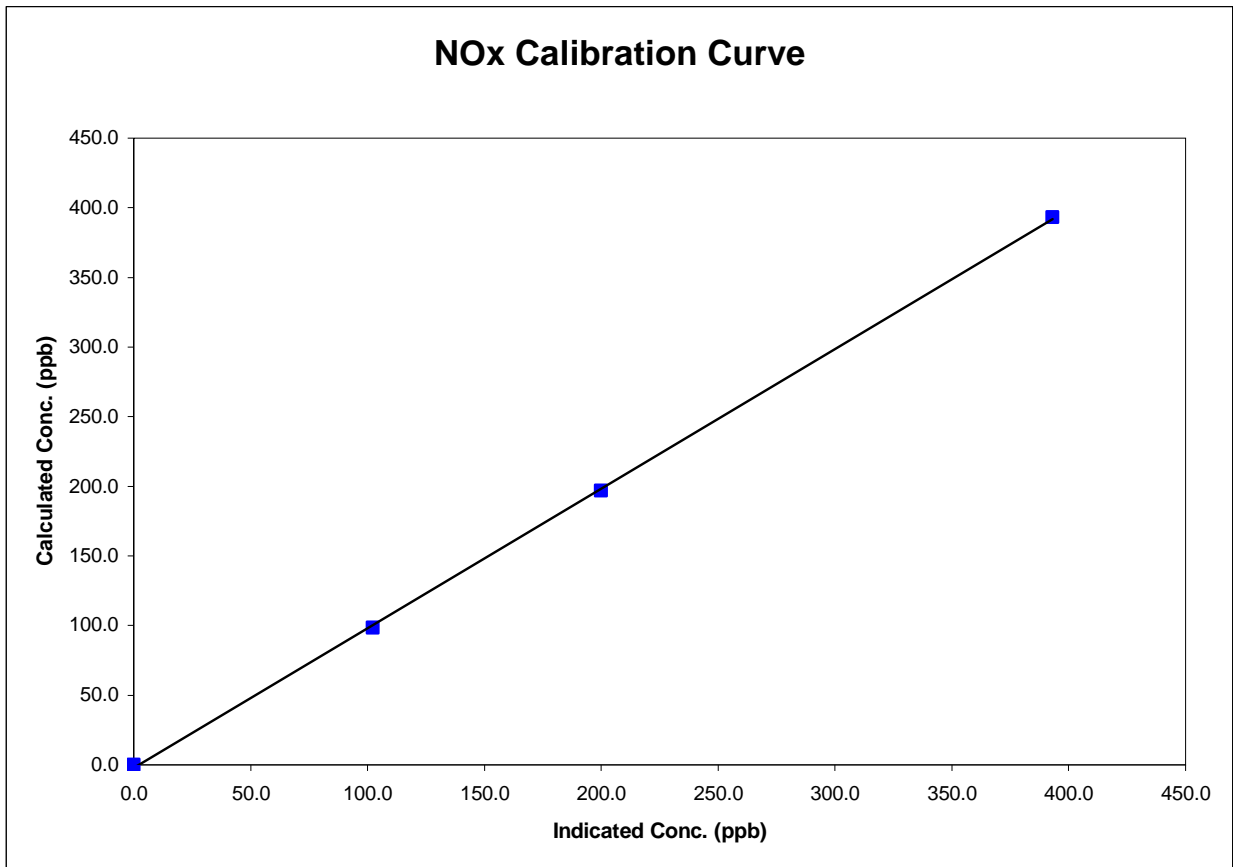
Station Information

Calibration Date	March 30, 2009	Previous Calibration	February 8, 2009
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	9:20	End Time (MST)	0:00
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	NA		
392.9	393.0	0.9999	Correlation Coefficient	0.999852
197.0	200.0	0.9848		
98.2	102.3	0.9602	Slope	1.002376
			Intercept	-2.204468

NO_x Calibration Curve



Calibration Summary

Parameter **NO₂**

Air Monitoring Network **PASZA**



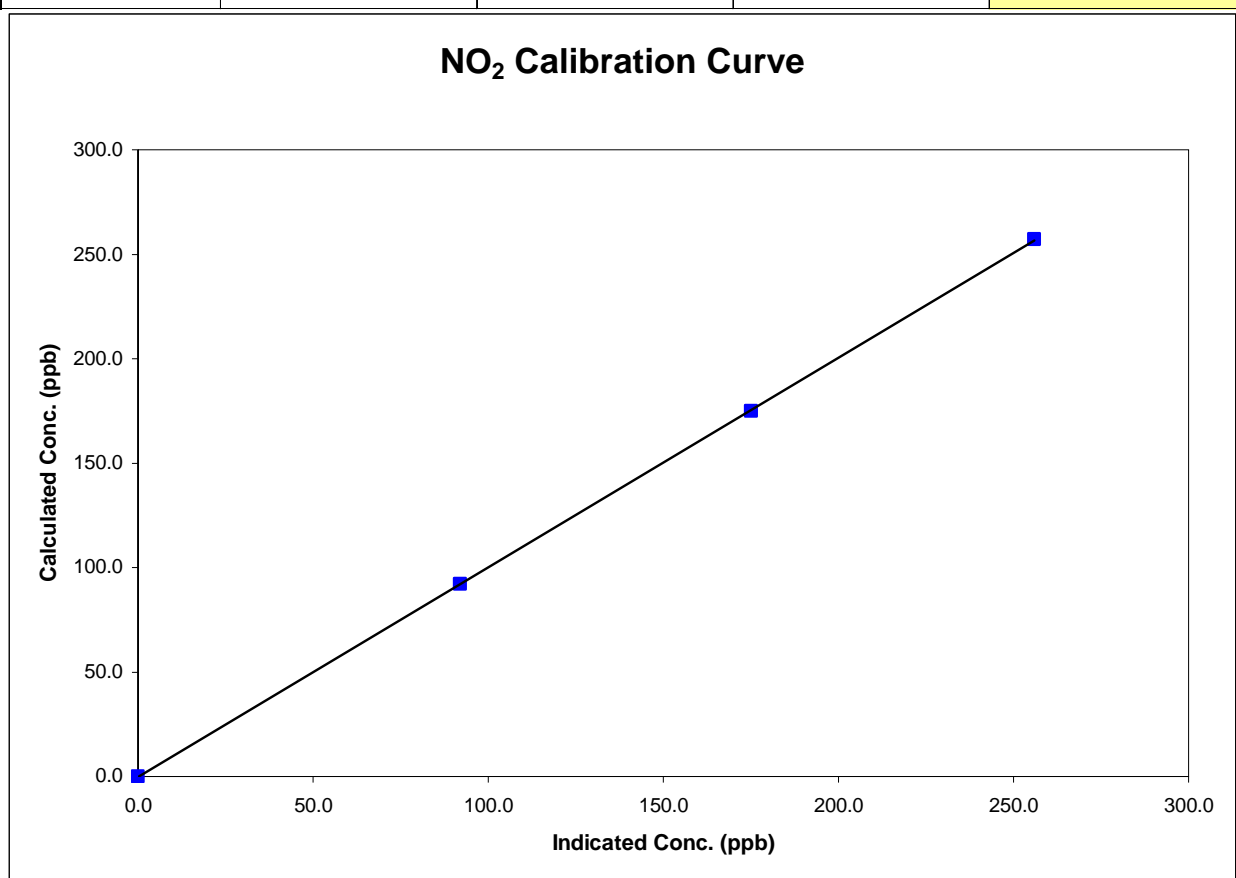
Station Information

Calibration Date	March 30, 2009	Previous Calibration	February 8, 2009
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	9:20	End Time (MST)	0:00
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	NA		
257.0	256.0	1.0039	Correlation Coefficient	0.999991
175.0	175.0	1.0000		
92.0	92.0	1.0000	Slope	1.003456
			Intercept	-0.201854

NO₂ Calibration Curve



Calibration Summary

Parameter **NO**

Air Monitoring Network **PASZA**



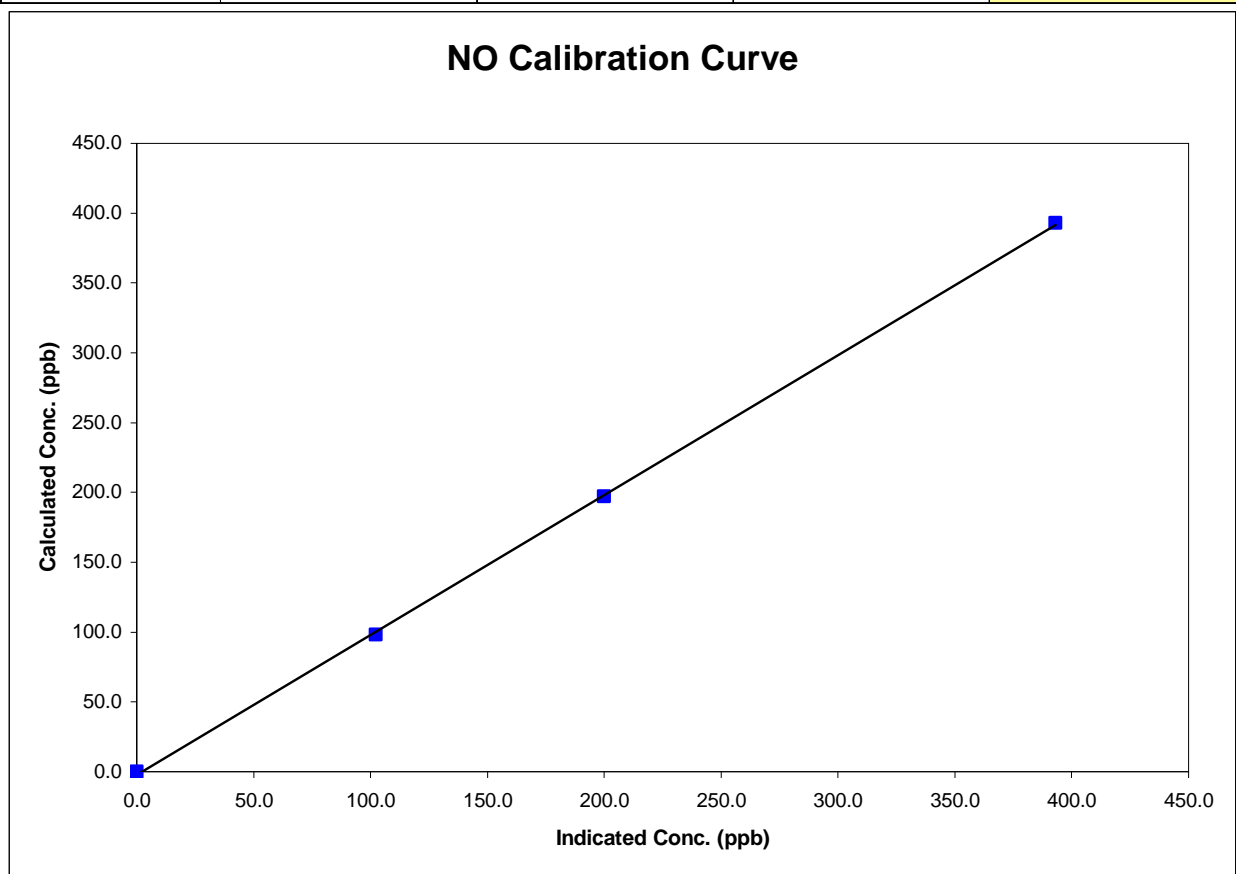
Station Information

Calibration Date	March 30, 2009	Previous Calibration	February 8, 2009
Station Number	8	Station Location	Rover - Spirit River
Start Time (MST)	9:20	End Time (MST)	0:00
Analyzer make	TECO 42i	Analyzer serial #	701120011

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.0	N/A		
392.9	393.0	0.9999	Correlation Coefficient	0.999847
197.0	200.0	0.9848		
98.2	102.4	0.9593	Slope	1.002459
			Intercept	-2.243907

NO Calibration Curve



Calibration Report



Parameter **SO2**

Air Monitoring Network **PASZA**

Station Information

Calibration Date	March 19, 2009	Previous Calibration	February 3, 2009
Station Number	6	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:

Start Time (MST)	11:00	End Time (MST)	13:00
Barometric Pressure	29.90 inches Hg	Station Temperature	6.0 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	1.001913	Calculated slope	0.999172
Calculated intercept	-1.900289	Calculated intercept	-1.450613

Analyzer make **TEI 45C** Analyzer serial # **43C-57531-313**

	before		after	
Concentration range	0 - 1000	ppb	0 - 1000	ppb
Background	28.7		29.2	
Coefficient	0.723		0.729	
UV Lamp Voltage	699	LPM	698	LPM
Chamber Temp	44.2	V	44.2	V
Perm Gas Temp	35	C	35.1	C
Pressure	621.6	in Hg	624.9	in Hg
Sample Flow	0.469	LPM	0.471	LPM
Lamp Intesity	45801	Hz	45247	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	0.2	N/A
4989	39.84	400.9	402.3	0.9964
4988	19.92	201.3	202.5	0.9940
4988	9.90	100.2	103.8	0.9659
4988	0.00	0.0	-0.1	As found zero
4988	39.88	401.3	399.7	As found span
Average Correction Factor				0.9854

Calculated value of As Found Response: **398.698 ppm** Percent Change of As Found: **0.7%**

	before calibration		after calibration	
Auto zero	0.0	ppm	0.0	ppm
Auto span	167.6	ppm	166.4	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

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

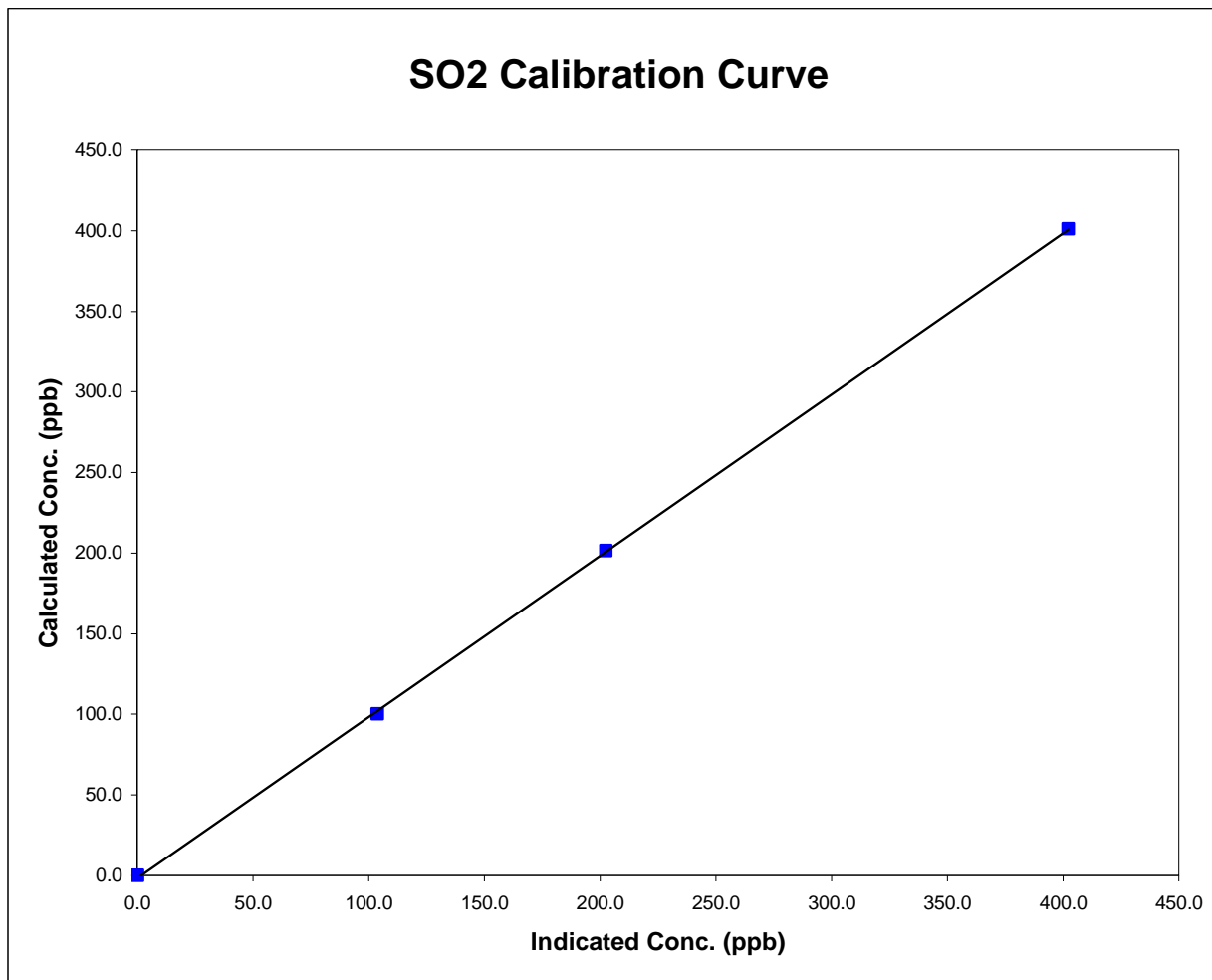


Station Information

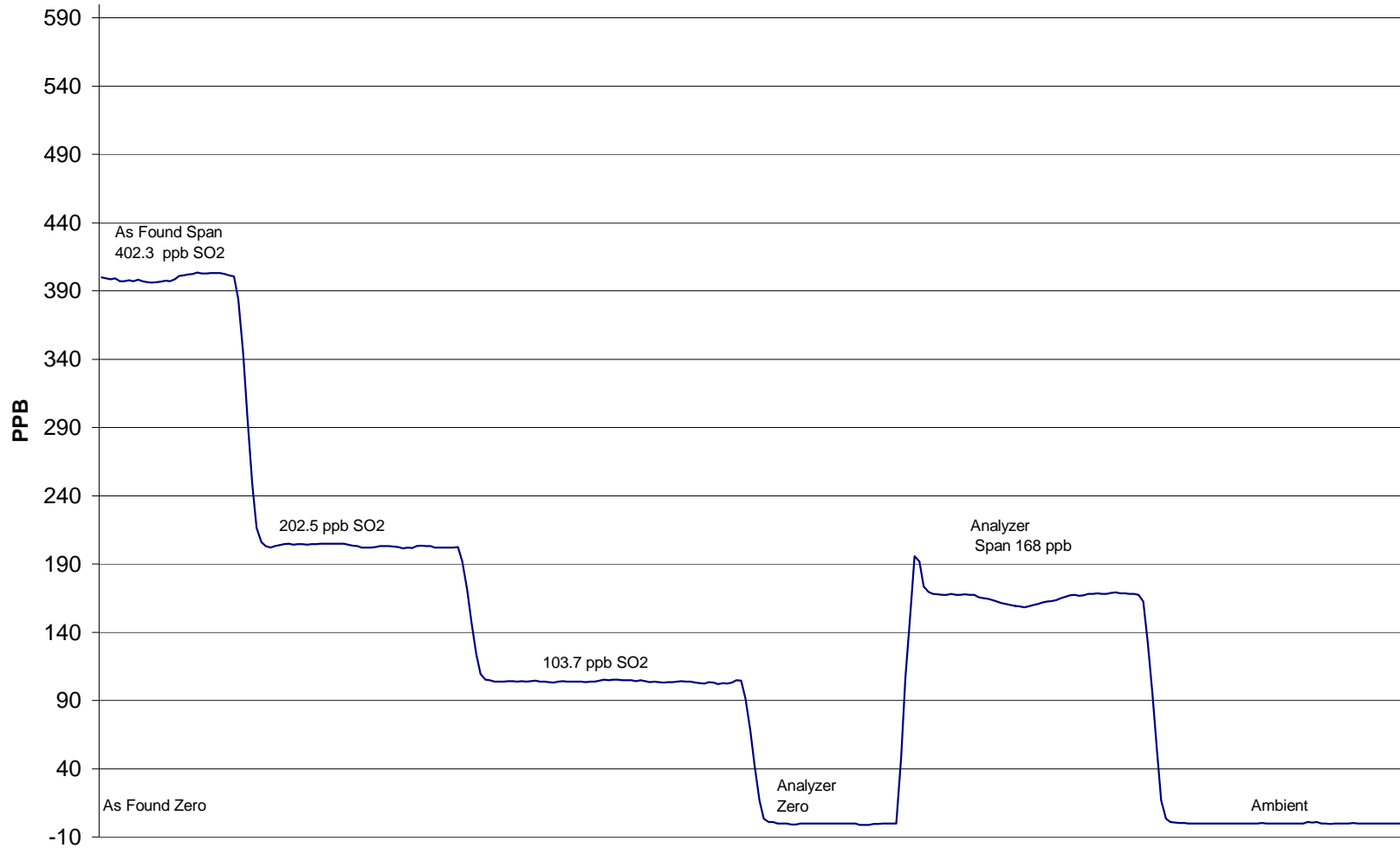
Calibration Date	March 19, 2009	Previous Calibration	February 3, 2009
Station Number	6	Station Location	Valleyview
Start Time (MST)	11:00	End Time (MST)	13:00
Analyzer make/model	TEI 45C	Analyzer serial #	43C-57531-313

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.2	N/A		
400.9	402.3	0.9964	Correlation Coefficient	0.999932
201.3	202.5	0.9940		
100.2	103.8	0.9659	Slope	0.999172
			Intercept	-1.450613



Valleyview SO2 Calibration



March 19, 2009

Calibration Report



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

Station Information

Calibration Date	March 19, 2009	Previous Calibration	February 3, 2009
Station Number	5	Station Location	Valleyview
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	13:55	End Time (MST)	15:00
Barometric Pressure	27.16 inches Hg	Station Temperature	23.0 Deg C
Calibrator	Envionics 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	0.998245	Calculated slope	0.998385
Calculated intercept	-0.072177	Calculated intercept	-0.038386
Analyzer make	TEI Model 43A	Analyzer serial #	43A-25575-221

	before		after	
Concentration range	0 - 100	ppb	0 - 100	ppb
Back Ground	4.9	ppb	4.9	ppb
Coefficient	1.070		1.070	
Lamp Voltage	798	v	798	v
Chamber Temp	45.0	c	45	c
Perm Oven Temp	44.31	c	45	c
Pressure	637	mm Hg	641	mm Hg
Sample Flow	443	ccm	446	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	79.74	80.2	80.6	0.9956
4988	39.88	40.5	40.2	1.0070
4988	9.93	10.1	10.2	0.9927
4988	0.00	0.0	-0.1	As found zero
4988	79.81	80.3	79.8	As found span
Average Correction Factor				0.9984

Calculated value of As Found Response: 79.71 ppm Percent Change of As Found: 0.8%

	before calibration		after calibration	
Auto zero	0.0	ppm	-0.1	ppm
Auto span	64.0	ppm	63.0	ppm

Notes: _____

Calibration Performed By: Grover Christiansen

Calibration Summary

Parameter **H2S**

Air Monitoring Network **PASZA**

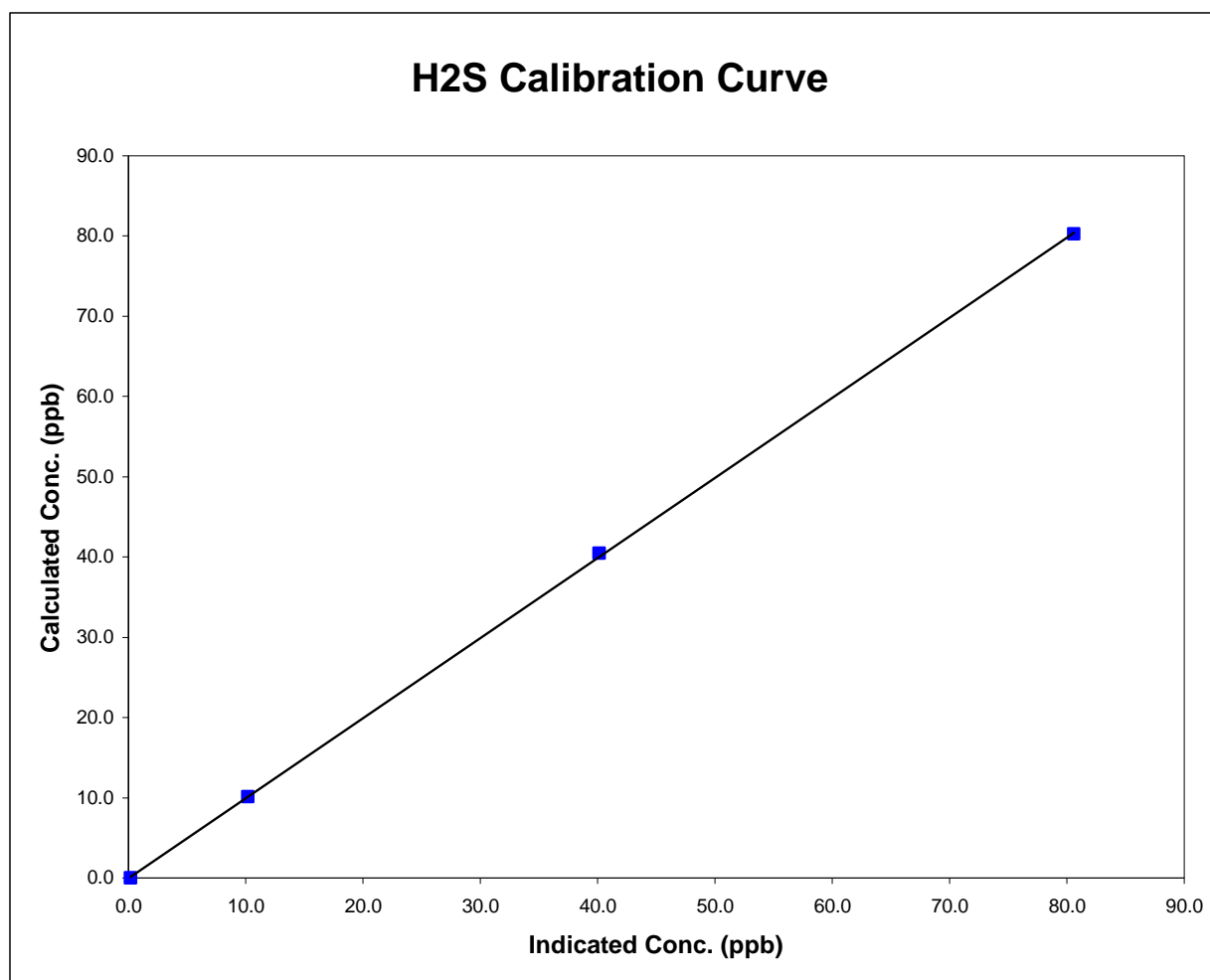


Station Information

Calibration Date	March 19, 2009	Previous Calibration	February 3, 2009
Station Number	5	Station Location	Valleyview
Start Time (MST)	13:55	End Time (MST)	15:00
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		
80.2	80.6	0.9956	Correlation Coefficient	0.999945
40.5	40.2	1.0070		
10.1	10.2	0.9927		
			Slope	0.998385
			Intercept	-0.038386



Valleyview H2S Calibration

