

**Capital Power**

**AIR QUALITY MONITORING  
October 2015  
Monthly Report**

**Prepared by:**

**West Central Airshed Society  
Drayton Valley, Alberta**





November 9<sup>th</sup>, 2015

Capital Power  
Mr. Kevin Parry  
Box 20, Site 2, RR 1  
Warburg, AB  
T0C 2T0

Dear Mr. Parry:

**Monthly Ambient Air Quality Monitoring Report for October 2015 for Capital Power**

Enclosed are the reports for the continuous ambient air quality monitoring station of the West Central Airshed Society network.

Network Station is                   AMS 910                   Genesee  
Identified as:

The person responsible for this reporting is Robert Scotten, Executive Director of West Central Airshed Society.

The following operational notes are included as required by the Air Monitoring Directive:

**1. Concentrations in excess of the Clean Air (Maximum Levels) Regulation:**

There were no readings in excess of guidelines as indicated in Air Monitoring Directive Section III.A.3. (a&b) for SO<sub>2</sub>, NO<sub>2</sub> and PM<sub>2.5</sub>.

**2. Operational times less than 90 percent:**

There were no operational times less than 90 percent in October.

**3. Monitoring Notes:**

**AMS 910 (Genesee)**

All analyzers and meteorological equipment returned uptimes of 100% in October.

If additional information is required please contact Patrick Andersen at (780) 514-3533 or (403) 505-1041.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Scotten".

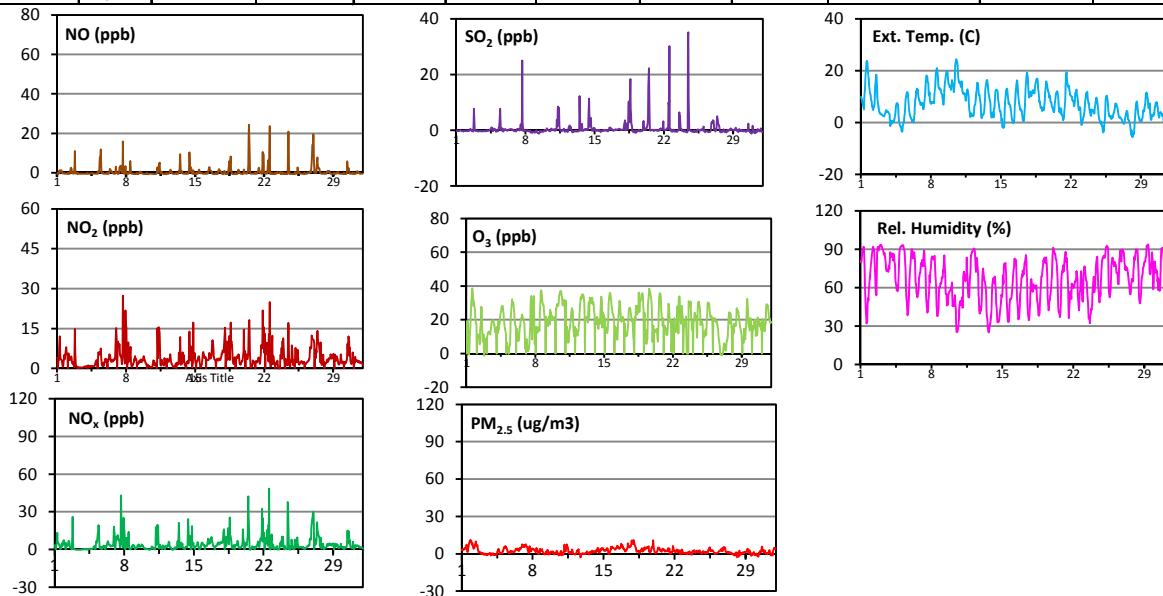
Robert Scotten  
Executive Director

A handwritten signature in black ink, appearing to read "PCT Aarsen".

Patrick Andersen  
Environmental Specialist

# WCAS - October 2015 Genesee Summary Report

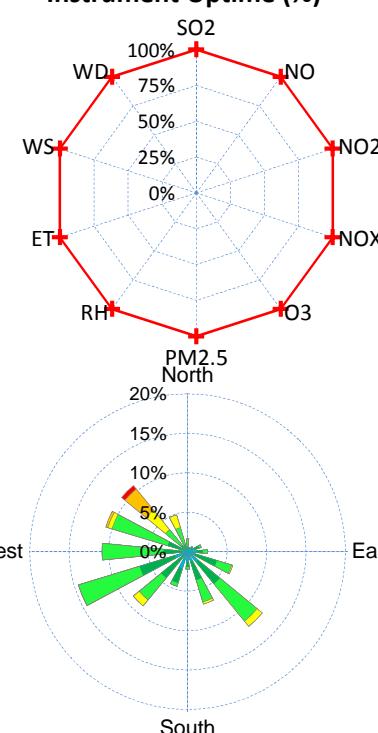
Pollutants		Month Records		24-Hour Records			1-Hour Records				
Name	Conc Unit	Avg. Conc.	Uptime	Maximum		AAAQO Objective	Exceed No.	Maximum		AAAQO Objective	Exceed No.
				Conc	Time			Conc	Time		
SO <sub>2</sub>	ppb	0.6	100.0%	3.4	Oct-18	48	0	35.1	Oct-24 12:00	172	0
NO	ppb	0.5	100.0%	< 0.1	#N/A	-	-	24.4	Oct-20 12:00	-	-
NO <sub>2</sub>	ppb	4.1	100.0%	8.6	Oct-7	-	-	27.3	Oct-07 17:00	159	0
NO <sub>x</sub>	ppb	4.6	100.0%	10	Oct-7	-	-	48.5	Oct-22 14:00	-	-
O <sub>3</sub>	ppb	19	100.0%	31	Oct-10	-	-	39	Oct-01 15:00	82	0
PM <sub>2.5</sub>	µg/m <sup>3</sup>	2	100.0%	6	Oct-17	30	0	11	Oct-01 21:00	80	0



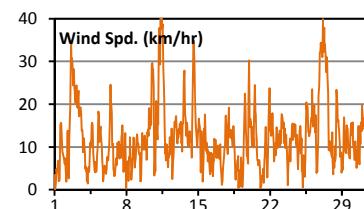
## Monthly Summary

- \* All data has been slope, intercept, and baseline corrected. Data may change after validation process.
- \* The measured ambient concentrations of all parameters are within the AAAQO for the month of October 2015.
- \* All compliance parameters are above 90% operational for the month of October 2015.
- \* Routine calibration was performed on October 23, 2015.

## Instrument Uptime (%)



## Wind Rose (km/hr)



**WEST CENTRAL AIRSHED SOCIETY**

**CONTINUOUS AMBIENT AIR QUALITY  
MONITORING PROGRAM  
MONTHLY REPORT  
CONTINUOUS AIR MONITORING DATA**

**AMS 910  
GENESEE  
OCTOBER 2015**

Operations and Data Collection by:  
West Central Airshed Society  
Drayton Valley, Alberta

QA/QC, Data Validation and Reporting by:  
West Central Airshed Society  
Drayton Valley, Alberta

**Summary Report**
*Continuous air quality/meteorological monitoring measurements*
**West Central Airshed Society**

EPCOR / Genesee Station 910		October 2015													
Parameter		Calibration Hours	Number of Data	Percent Uptime	Mean	Min	Max	P10	Q1	Percentile Median	Q3	P90	Exceedences 1-hour	24-hour	24 Hour Average Max (ppm)
SO <sub>2</sub> (ppb)		35	709	100.0	0.8	0.0	35.1	0.0	0.0	0.0	0.3	1.7	0	0	0.004
O <sub>3</sub> (ppb)		36	708	100.0	19.4	0.0	38.7	8.4	13.8	19.1	25.9	31.1	0	-	0.031
NO (ppb)		37	707	100.0	0.8	0.0	24.4	0.0	0.0	0.0	0.3	2.0	-	-	-
NO <sub>2</sub> (ppb)		37	707	100.0	4.1	0.3	27.3	0.9	1.8	3.1	5.1	9.1	0	0	0.009
NO <sub>x</sub> (ppb)		37	707	100.0	4.7	0.0	48.5	0.5	1.5	2.8	5.5	10.4	-	-	-
Particulate Matter 2.5 microns (µ/m <sup>3</sup> )		0	744	100.0	2.4	0.0	11.1	0.0	0.5	1.8	3.7	5.3	0	0	6.02 ug/m3
Wind Speed (kph)		0	744	100.0	12.2	0.1	48.6	4.3	7.1	11.1	15.0	21.1	-	-	-
Temperature - 2m (°C)		0	744	100.0	7.3	-5.6	24.4	0.6	3.0	6.9	11.3	15.1	-	-	-
Temperature - 10m (°C)		0	744	100.0	7.7	-3.7	23.6	1.2	3.6	7.1	11.2	15.5	-	-	-
Delta Temperature (°C)		0	744	100.0	0.4	-2.9	4.3	-1.2	-0.7	0.3	1.4	2.2	-	-	-
Relative Humidity (%)		0	744	100.0	66.6	25.1	93.7	42.3	54.5	68.0	80.8	88.3	-	-	-
Global Solar Radiation (W/m <sup>2</sup> )		0	744	100.0	97.0	0.0	600.0	0.0	0.0	0.0	147.4	385.8	-	-	-
Std Dev Wind Direction (deg)		0	744	100.0	16.1	2.4	92.9	6.8	8.6	11.5	18.2	30.0	-	-	-
Std Dev Wind Speed (kph)		0	744	100.0	2.8	0.3	14.6	1.2	1.7	2.4	3.5	4.8	-	-	-

Maximum Value: 35.12 ppb on Oct 24 12:00      Maximum Daily Average: 3.52 ppb on Oct 18																								Hours in Service: 744 Hours of Data: 709 Hours of Missing Data: 35 Hours of Calibration: 35 Percent Operational Time: 100.0		
Minimum Value: 0.0 ppb on Oct 1 01:00      Minimum Daily Average: 0.00 ppb on Oct 3																										
Maximum Diurnal Average: 3.53 ppb at hour 12      Minimum Diurnal Average: 0.12 ppb at hour 4																										
Monthly Average: 0.817 ppb      Percentiles: P <sub>1</sub> = 0.0 P <sub>10</sub> = 0.0 Q <sub>1</sub> = 0.0 Median = 0.0 Q <sub>3</sub> = 0.3 P <sub>90</sub> = 1.7 P <sub>99</sub> = 13.9																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily Average	Daily Maximum
1-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.07
2-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	2.4	7.7	1.4	0.0	0.0	0.0	0.53	7.66
3-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
4-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.7	0.6	1.0	0.5	0.0	0.0	0.3	0.6	0.6	0.5	0.2	0.2	0.26	1.00
5-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	1.1	1.4	2.8	7.8	3.7	0.1	0.2	0.6	0.0	0.7	0.0	0.0	0.0	0.0	0.3	0.4	0.5	0.85	7.76
6-Oct	0.2	0.0	Z	0.0	0.0	0.0	0.1	0.2	0.2	0.4	0.3	0.3	0.2	0.3	0.2	0.4	0.3	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.15	0.41
7-Oct	0.0	0.0	Z	0.2	0.5	0.4	0.3	0.5	0.4	0.0	0.1	0.3	2.1	0.0	1.9	4.5	25.0	3.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1.72
8-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
9-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.14
10-Oct	0.0	0.0	Z	0.2	0.7	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.1	0.1	0.2	0.4	0.0	0.0	0.0	0.0	0.15	0.68
11-Oct	0.5	0.0	Z	0.0	3.8	1.4	7.8	8.5	7.7	8.0	2.1	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.1	0.0	0.0	1.79	8.45
12-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.4	1.2	0.8	1.7	0.9	0.4	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	1.70
13-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	6.4	0.3	0.7	0.0	2.1	2.3	0.1	0.0	0.0	0.0	0.1	0.3	0.0	1.07	12.31
14-Oct	0.3	0.3	Z	0.3	0.3	0.3	0.2	0.2	0.1	5.1	11.4	4.1	1.3	3.2	4.5	2.4	0.0	0.0	0.0	0.3	0.0	0.8	1.0	0.7	1.60	11.37
15-Oct	0.6	0.0	Z	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.05	0.57
16-Oct	0.1	0.0	Z	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	1.0	0.7	0.9	0.7	0.2	0.3	0.2	0.3	0.1	0.0	0.1	0.1	0.24	1.03
17-Oct	0.0	0.0	Z	0.3	0.2	0.2	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.3	0.3	0.2	0.2	0.3	0.2	0.1	0.2	0.2	0.5	0.2	0.32	1.78
18-Oct	2.8	3.5	Z	1.2	2.5	0.9	0.2	0.2	0.3	3.0	10.2	10.3	2.9	7.3	18.3	7.5	6.0	2.4	1.4	0.0	0.0	0.0	0.0	0.0	3.52	18.34
19-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.34	0.00	0.18	3.37	
20-Oct	1.0	0.6	Z	0.2	0.4	0.4	1.1	1.1	2.3	4.2	15.5	22.2	12.8	4.8	0.0	0.0	0.1	0.0	0.2	0.1	0.0	0.0	0.0	0.3	0.29	22.24
21-Oct	0.0	0.0	Z	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.2	0.7	0.6	0.5	0.5	0.6	0.4	3.2	0.2	0.2	0.34	3.24	
22-Oct	0.0	0.0	Z	0.3	0.0	0.2	0.3	0.7	0.8	0.5	1.0	10.0	8.8	30.2	0.7	0.0	0.1	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.23	30.21
23-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	C	C	C	C	6.5	0.8	5.0	0.4	0.6	0.3	0.0	0.2	0.1	0.0	0.0	0.73	6.46
24-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.6	35.1	11.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.49	35.12
25-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.4	0.4	0.1	0.0	0.2	1.0	0.14	1.00	
26-Oct	1.3	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.7	2.5	3.1	2.9	3.6	0.73	3.62	
27-Oct	3.4	2.1	Z	0.5	0.1	0.0	0.2	0.5	3.4	5.0	3.7	2.9	2.1	2.0	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.20	5.02
28-Oct	0.3	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.1	0.0	0.2	0.7	0.3	0.3	0.4	0.3	0.3	0.1	0.15	0.73	
29-Oct	0.2	0.0	Z	0.2	0.0	0.2	0.9	0.6	0.0	0.0	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.89
30-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	2.4	2.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	2.42
31-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.1	0.0	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.75
Diurnal Average Diurnal Maximum																										
Z - zerospan      C - Calibration Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb      24-hr 48 ppb																										

Maximum Value: 38.71 ppb on Oct 1 15:00      Maximum Daily Average: 30.82 ppb on Oct 10																					Hours in Service: 744					
Minimum Value: 0.0 ppb on Oct 1 07:00      Minimum Daily Average: 11.28 ppb on Oct 27																					Hours of Data: 708					
Maximum Diurnal Average: 27.56 ppb at hour 16      Minimum Diurnal Average: 13.42 ppb at hour 8																					Hours of Missing Data: 36					
Monthly Average: 19.443 ppb      Percentiles: $P_1 = 0.0$ $P_{10} = 8.4$ $O_1 = 13.8$ Median = 19.1 $Q_3 = 25.9$ $P_{90} = 31.1$ $P_{99} = 36.8$																					Hours of Calibration: 36					
																					Percent Operational Time: 100.0					
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily Average	Daily Maximum
1-Oct	19.1	Z	19.0	16.3	13.6	5.4	0.0	2.6	9.9	16.5	21.5	25.8	31.4	37.8	38.7	37.2	31.9	28.2	30.6	28.4	26.3	23.2	19.2	18.6	21.80	38.71
2-Oct	17.0	Z	10.0	11.4	9.3	10.3	11.1	9.4	5.5	11.6	17.0	19.0	27.7	27.7	13.6	7.9	7.0	11.3	4.7	0.0	3.6	8.4	8.0	8.2	11.29	27.70
3-Oct	8.8	Z	8.7	10.4	12.5	12.5	12.1	13.1	12.7	12.0	11.4	14.7	16.5	18.4	18.8	19.5	19.9	19.7	18.1	16.8	17.2	14.8	12.6	14.1	14.58	19.85
4-Oct	15.2	Z	15.6	15.8	11.8	19.5	13.8	14.5	17.0	18.3	22.0	23.5	25.1	27.3	27.8	27.6	28.2	26.7	24.4	20.2	17.3	15.9	14.8	13.1	19.79	28.20
5-Oct	11.6	Z	4.8	6.4	2.5	1.8	1.1	0.0	2.1	4.1	5.6	13.3	21.7	26.1	28.7	32.2	29.9	30.4	30.0	28.1	24.3	20.1	18.7	16.6	15.65	32.16
6-Oct	16.2	Z	14.3	14.5	11.4	8.7	7.4	7.3	8.4	12.0	15.3	16.7	19.2	19.9	21.3	22.9	23.1	21.9	20.6	20.4	19.2	17.0	11.2	3.1	15.30	23.09
7-Oct	5.5	Z	8.5	8.5	3.7	2.0	1.2	1.7	2.9	5.3	9.2	16.1	28.0	32.2	34.1	30.3	8.3	21.3	28.7	27.7	34.0	24.8	5.7	8.5	15.15	34.07
8-Oct	9.7	Z	15.9	15.8	12.2	12.8	14.3	13.4	15.7	13.7	13.4	23.7	31.8	36.3	37.5	36.9	33.4	30.7	29.6	29.1	28.3	25.2	22.7	20.5	22.72	37.50
9-Oct	20.2	Z	21.8	20.1	19.4	18.0	16.5	16.3	17.4	21.9	17.7	17.2	25.9	22.9	24.4	21.9	20.3	22.2	20.1	20.6	20.5	20.1	20.5	21.7	20.33	25.94
10-Oct	21.1	Z	26.3	26.0	28.1	29.3	28.3	28.2	28.8	30.2	34.1	35.7	36.4	36.9	37.1	36.1	33.9	33.8	28.8	29.0	28.4	31.9	30.3	30.4	30.82	37.07
11-Oct	28.8	Z	31.4	18.9	5.9	15.8	10.2	8.0	6.6	6.4	9.4	14.0	14.6	16.7	19.4	22.7	25.6	26.8	25.7	25.5	18.5	14.7	10.3	12.3	16.89	31.42
12-Oct	15.9	Z	15.0	12.6	12.7	10.8	11.6	10.6	13.7	13.4	17.3	18.0	24.0	29.1	32.3	33.7	32.1	33.4	35.1	33.8	35.0	34.3	33.8	29.7	23.39	35.05
13-Oct	21.4	Z	20.4	20.1	20.5	21.7	21.6	21.7	18.3	23.7	30.3	21.1	27.2	33.2	30.6	31.9	31.2	29.8	33.1	32.0	29.4	30.5	29.6	25.6	26.30	33.20
14-Oct	23.1	Z	21.1	19.3	18.8	17.4	17.3	21.7	19.8	15.6	14.5	18.1	19.7	17.4	18.2	26.8	31.7	33.6	30.9	15.3	24.8	23.1	21.2	22.8	21.41	33.65
15-Oct	20.7	Z	21.0	14.8	12.9	15.1	13.4	12.2	13.9	17.3	23.1	30.4	33.2	35.4	35.9	35.7	33.0	31.1	28.3	26.0	24.3	23.5	23.3	21.1	23.72	35.91
16-Oct	21.0	Z	16.0	15.3	15.0	13.4	15.3	12.1	8.1	15.1	19.4	22.2	26.2	31.2	29.9	28.0	24.5	18.9	18.7	19.0	20.4	21.7	20.9	20.6	19.70	31.16
17-Oct	18.8	Z	17.8	13.5	11.0	10.2	10.7	10.7	10.5	12.9	17.3	21.0	24.8	26.8	27.0	27.0	25.8	24.2	21.0	19.2	20.8	19.8	14.7	9.6	18.05	27.04
18-Oct	8.4	Z	15.7	21.6	19.8	26.3	28.5	25.3	23.2	27.9	24.1	26.5	36.1	31.8	24.7	31.9	30.6	31.6	33.3	35.0	34.5	35.9	34.1	29.3	27.65	36.13
19-Oct	25.9	Z	24.3	13.9	11.6	14.1	8.7	5.7	7.6	8.1	16.4	29.6	33.4	36.3	38.3	36.4	36.5	34.3	34.1	30.4	26.5	18.7	7.0	16.0	22.34	38.35
20-Oct	16.7	Z	12.9	13.1	14.2	12.6	14.2	14.6	14.6	13.6	8.0	7.0	12.3	27.1	33.4	34.8	35.8	35.0	33.9	27.1	21.1	20.8	18.9	16.2	19.90	35.78
21-Oct	20.9	Z	16.6	15.8	16.3	13.8	14.4	14.5	11.0	15.0	11.2	14.8	24.7	29.6	27.2	22.1	19.7	18.7	20.0	17.6	1.0	9.1	2.3	15.3	16.14	29.56
22-Oct	19.1	Z	13.6	20.9	19.3	12.6	17.1	12.9	15.3	14.3	28.0	20.9	21.7	12.0	32.7	33.9	32.8	26.6	21.3	17.7	26.9	28.1	24.4	22.2	21.50	33.89
23-Oct	19.6	Z	15.3	15.6	16.3	18.2	20.1	19.1	21.8	C	C	C	C	C	31.0	30.7	28.8	29.6	27.8	30.8	20.5	20.4	14.7	13.5	21.88	31.01
24-Oct	12.8	Z	18.8	19.0	22.2	24.3	21.5	22.6	20.1	21.1	9.5	11.8	24.5	29.8	30.7	30.9	29.1	27.1	24.1	16.8	17.5	18.9	19.3	17.6	21.29	30.86
25-Oct	17.4	Z	7.4	12.5	9.7	10.0	12.7	14.2	14.2	10.9	15.8	22.6	29.3	30.2	29.7	29.8	27.3	22.9	22.1	21.0	21.9	22.1	20.8	19.75	30.25	
26-Oct	20.4	Z	21.1	20.4	19.4	20.4	21.1	20.2	19.2	18.5	19.0	18.4	17.0	15.3	14.8	8.7	8.3	6.2	4.5	0.0	0.0	0.0	0.0	12.73	21.05	
27-Oct	0.0	Z	1.2	3.6	4.8	6.0	4.5	5.0	1.6	2.2	4.9	7.7	7.6	9.6	13.7	18.1	24.3	17.7	23.0	24.1	23.2	22.4	18.6	15.4	11.28	24.35
28-Oct	13.9	Z	16.5	12.0	12.1	17.9	16.9	16.4	17.5	16.5	20.4	26.8	26.2	25.9	25.3	25.0	23.5	20.7	18.3	16.9	15.5	13.8	12.6	12.0	18.37	26.83
29-Oct	9.3	Z	9.3	7.8	6.3	12.7	14.8	9.4	8.3	13.4	15.0	22.0	28.4	32.3	29.3	24.0	17.7	16.3	15.0	13.5	14.8	21.0	19.5	14.9	16.31	32.32
30-Oct	13.8	Z	15.3	16.5	14.2	16.3	18.4	19.7	17.9	20.0	10.3	15.4	14.0	10.7	12.3	21.3	17.7	19.8	17.4	16.8	16.0	17.1	17.3	13.9	16.18	21.35
31-Oct	19.0	Z	20.4	19.4	20.2	19.0	15.7	13.2	13.1	16.4	18.4	26.7	29.2	29.2	27.3	28.6	27.4	23.7	21.1	21.0	20.2	18.5	18.1	18.7	21.08	29.23
	16.50	--	16.00	15.22	13.80	14.47	14.01	13.42	13.44	14.93	16.65	20.03	24.60	26.50	27.28	27.56	25.87	25.11	24.04	21.97	21.00	20.50	17.62	16.86	Diurnal Average	
	28.80	--	31.42	26.04	28.07	29.27	28.45	28.16	28.77	30.21	34.07	35.66	36.38	37.78	38.71	37.18	36.46	35.02	35.05	35.00	34.96	35.87	34.08	30.43	Diurnal Maximum	
Z - zerospan      C - Calibration Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 82.5 ppb      24-hr -- ppb																										

Maximum Value: 24.35 ppb on Oct 20 12:00																				Maximum Daily Average: 2.84 ppb on Oct 26				Hours in Service: 744			
Minimum Value: 0.0 ppb on Oct 1 01:00																				Hours of Data: 707							
Maximum Diurnal Average: 3.55 ppb at hour 11																				Hours of Missing Data: 37							
Monthly Average: 0.847 ppb																				Hours of Calibration: 37							
																				Percent Operational Time: 100.0							
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily Average	Daily Maximum	
1-Oct	0.0	0.0	Z	0.0	0.0	0.1	1.4	0.6	1.2	1.4	1.3	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	1.40	
2-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	1.4	2.5	2.7	1.8	0.1	0.0	0.0	0.2	0.0	0.0	3.3	11.1	2.1	0.0	0.0	0.0	1.09	11.10	
3-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	
4-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	
5-Oct	0.0	0.0	Z	0.0	0.9	0.8	0.3	5.0	7.8	8.7	11.9	5.4	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.80	11.86	
6-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.5	1.9	2.0	1.1	0.9	0.9	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52	3.12	
7-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	1.6	3.0	2.4	3.6	3.4	2.0	0.1	0.3	1.3	15.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	
8-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.8	1.2	6.0	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	6.01	
9-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.74	
10-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	
11-Oct	0.0	0.0	Z	0.0	2.8	0.0	1.9	3.1	4.3	5.2	0.9	0.0	0.0	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.83	5.21	
12-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.7	0.3	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	1.65	
13-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.8	0.6	0.5	9.4	4.5	0.2	0.6	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	9.37	
14-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	4.0	10.4	2.9	0.6	1.6	2.8	0.9	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	1.07	10.42	
15-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	1.1	1.7	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	1.67	
16-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	1.1	2.0	3.0	2.7	1.6	0.9	1.0	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	2.99	
17-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.5	1.7	1.9	1.6	1.0	0.7	0.8	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	1.86	
18-Oct	0.7	0.0	Z	0.0	0.0	0.0	0.0	0.6	1.6	4.7	6.0	1.0	4.7	8.3	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.34	8.30	
19-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.2	1.6	1.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	1.65	
20-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	1.0	4.0	18.3	24.4	11.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.74	24.35	
21-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.6	0.6	2.4	2.6	1.0	0.2	0.0	0.5	0.1	0.0	0.0	3.4	10.6	1.2	9.6	0.0	0.0	1.43	10.61	
22-Oct	0.0	0.2	Z	0.0	0.0	0.0	0.0	0.9	1.3	6.3	0.6	6.4	6.2	23.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.98	23.64
23-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.3	C	C	C	C	C	C	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	0.58
24-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	20.9	20.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.98	20.88	
25-Oct	0.0	0.0	Z	0.6	0.0	0.0	0.0	0.0	2.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	2.79	
26-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.8	0.8	0.1	0.4	5.6	9.0	13.9	14.8	19.6	0.0	2.84	19.58	
27-Oct	18.5	5.6	Z	1.5	0.6	0.0	0.0	0.7	4.4	7.8	4.0	2.8	2.3	2.5	2.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.35	18.49
28-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.0	0.5	0.9	1.1	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	1.07
29-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.56
30-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	5.9	2.2	1.9	2.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.61	5.88	
31-Oct	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.5	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.81	
																									Diurnal Average		
																									Diurnal Maximum		
Z - zerospan      C - Calibration Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ppb      24-hr --- ppb																											

Maximum Value: 27.34 ppb on Oct 7 17:00      Maximum Daily Average: 8.59 ppb on Oct 7																				Hours in Service: 744 Hours of Data: 707 Hours of Missing Data: 37 Hours of Calibration: 37 Percent Operational Time: 100.0						
Minimum Value: 0.3 ppb on Oct 20 16:00																										
Maximum Diurnal Average: 5.59 ppb at hour 11																										
Monthly Average: 4.134 ppb																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily Average	Daily Maximum
1-Oct	4.0	3.7	Z	3.2	3.1	8.2	12.1	5.8	3.8	3.3	3.3	3.1	2.2	0.6	0.8	1.2	2.8	5.0	3.4	4.8	6.0	7.2	8.0	6.4	4.44	12.05
2-Oct	5.0	4.5	Z	5.7	4.6	3.4	3.2	3.5	3.3	4.3	4.5	3.8	2.1	2.0	1.5	2.3	2.1	0.5	6.9	14.9	6.5	1.1	0.7	0.7	3.78	14.88
3-Oct	0.6	0.5	Z	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.5	0.7	0.6	0.6	0.6	0.9	0.9	0.45	0.92
4-Oct	0.9	0.6	Z	1.1	0.9	0.4	0.4	0.5	0.9	0.9	0.7	0.7	0.8	0.9	0.8	0.7	0.7	0.8	0.9	1.0	1.4	2.0	2.8	3.0	1.04	3.04
5-Oct	3.1	3.1	Z	2.7	6.0	5.8	5.0	6.1	6.0	5.8	7.5	4.5	1.6	1.1	1.5	0.9	2.2	0.8	1.2	2.4	2.2	3.6	3.3	3.4	3.46	7.46
6-Oct	3.3	3.2	Z	3.2	2.7	3.2	4.3	5.3	5.0	3.9	3.1	2.8	2.4	3.1	2.9	2.5	2.8	3.0	3.6	3.3	5.0	8.9	15.1	4.18	15.13	
7-Oct	12.7	10.0	Z	6.9	10.1	8.3	8.1	9.2	8.6	5.3	4.5	4.8	4.2	1.6	3.3	6.8	27.3	13.4	5.0	4.7	1.9	2.7	21.8	16.3	8.59	27.34
8-Oct	15.5	5.9	Z	1.8	6.8	9.8	2.4	2.6	3.8	5.0	8.0	3.1	1.6	0.7	0.7	0.9	1.3	1.9	2.2	3.4	2.9	4.6	3.7	3.7	4.02	15.54
9-Oct	3.4	2.5	Z	1.7	1.6	1.7	1.9	2.4	2.8	2.2	3.0	3.4	2.5	3.3	2.4	2.6	3.3	3.0	4.6	3.6	3.7	3.2	2.4	2.0	2.75	4.63
10-Oct	1.9	1.3	Z	1.5	1.4	1.2	0.8	0.9	0.8	0.8	0.6	0.4	0.3	0.4	0.3	0.5	1.2	1.8	3.0	2.8	2.7	1.1	2.0	1.2	1.26	2.98
11-Oct	1.7	1.2	Z	2.9	15.1	3.8	12.8	15.4	15.4	13.2	7.6	1.7	1.0	1.8	3.3	2.1	1.6	1.8	1.4	0.9	2.6	3.9	3.3	2.3	5.08	15.43
12-Oct	1.7	1.8	Z	3.6	3.5	2.8	2.5	2.4	2.7	3.8	4.0	5.3	4.3	2.1	1.9	1.4	1.3	0.9	0.5	0.4	0.4	0.4	0.7	1.2	2.16	5.32
13-Oct	1.7	1.9	Z	2.2	1.7	1.5	1.5	2.1	5.9	2.5	1.9	11.8	6.3	1.3	2.7	1.6	3.9	6.0	2.3	3.7	5.0	2.3	1.6	0.9	3.15	11.85
14-Oct	1.6	1.7	Z	2.1	2.5	2.4	2.7	1.9	2.9	10.5	13.8	6.6	3.0	5.4	8.2	4.5	0.4	0.5	2.2	17.3	4.5	3.9	5.8	3.7	4.70	17.27
15-Oct	3.0	1.4	Z	2.1	2.7	3.1	3.3	3.8	4.7	4.4	3.2	1.4	0.7	0.4	0.8	1.1	2.0	3.0	5.5	6.1	5.5	5.4	4.1	3.9	3.11	6.15
16-Oct	3.8	4.2	Z	3.3	3.1	3.1	3.1	3.3	3.1	4.6	5.8	5.1	4.1	3.6	4.1	4.6	7.3	9.7	10.7	9.2	7.4	4.4	3.4	3.3	4.98	10.66
17-Oct	3.2	3.1	Z	2.3	2.9	3.7	3.4	3.6	3.0	3.7	3.8	3.5	3.2	3.2	3.8	4.2	5.5	5.7	6.2	6.8	6.1	6.0	8.4	12.6	4.69	12.60
18-Oct	15.3	12.6	Z	5.8	10.1	4.9	3.2	7.5	9.9	7.3	12.2	11.1	3.2	8.8	17.2	9.4	10.2	8.8	6.5	3.6	1.8	1.5	1.8	3.7	7.66	17.18
19-Oct	4.2	3.7	Z	3.2	4.1	3.8	4.6	4.1	4.2	5.3	4.9	2.6	1.8	1.7	1.4	1.7	2.2	2.8	2.7	3.0	4.1	6.2	14.6	6.4	4.06	14.57
20-Oct	6.6	6.4	Z	5.4	3.7	5.0	3.7	3.5	4.7	6.9	13.9	18.2	14.1	5.8	0.6	0.3	0.4	0.8	0.7	1.7	3.0	2.8	2.0	2.3	4.89	18.21
21-Oct	1.7	1.9	Z	2.6	2.7	2.4	2.2	2.3	2.9	4.0	4.1	3.6	2.6	1.7	2.2	5.3	8.7	8.8	7.5	9.9	21.8	11.8	15.6	6.0	5.75	21.75
22-Oct	8.9	13.1	Z	6.1	5.9	9.7	5.3	8.7	7.3	9.7	2.5	12.8	12.8	25.0	2.4	0.7	0.7	5.5	5.9	12.2	2.2	1.6	4.7	3.0	7.25	24.98
23-Oct	1.8	2.4	Z	1.7	2.0	1.6	1.6	2.3	2.8	C	C	C	C	C	C	5.0	4.8	5.1	7.7	3.6	10.3	7.4	11.3	6.5	--	11.33
24-Oct	3.2	2.4	Z	3.7	1.5	1.2	1.7	1.2	1.4	1.7	17.2	15.9	5.6	0.9	1.4	0.6	3.2	2.4	2.9	8.7	6.1	2.1	1.3	1.2	3.80	17.17
25-Oct	3.1	2.4	Z	7.6	7.8	5.1	2.4	2.3	2.3	7.0	3.6	2.5	1.5	1.4	1.7	1.9	2.3	2.5	2.8	2.6	2.3	1.7	1.7	2.0	3.07	7.75
26-Oct	2.4	1.7	Z	1.4	1.4	1.9	2.0	2.2	2.3	2.4	2.7	2.7	2.8	3.5	3.5	7.7	8.1	7.3	8.0	12.4	11.5	11.4	11.0	10.8	5.28	12.40
27-Oct	10.7	9.2	Z	7.1	5.9	3.9	6.6	5.9	12.4	14.0	12.4	10.1	9.1	8.8	7.2	5.2	2.3	9.8	2.3	1.5	1.3	1.4	2.8	5.2	6.74	14.04
28-Oct	2.3	2.4	Z	1.9	1.7	1.7	1.9	2.3	2.8	3.4	3.4	2.4	3.0	3.5	4.0	3.5	3.8	5.3	4.9	4.1	3.7	3.8	5.0	4.7	3.28	5.32
29-Oct	5.4	4.7	Z	3.9	5.1	3.4	2.7	3.9	4.5	3.7	3.6	2.8	2.0	1.3	1.6	1.8	2.3	3.6	5.4	3.8	2.6	1.9	1.8	2.4	3.23	5.38
30-Oct	2.6	2.1	Z	2.4	2.4	1.8	2.1	2.5	2.9	3.2	9.3	7.1	9.3	12.0	10.3	4.5	7.9	2.9	2.4	1.9	1.5	2.0	2.4	6.0	4.42	12.04
31-Oct	3.2	1.4	Z	1.7	2.3	4.3	2.6	3.1	3.3	2.9	2.5	2.5	2.9	2.2	2.7	2.1	2.1	2.0	2.1	2.4	2.2	2.0	2.0	1.3	2.43	4.32
	4.47	3.78	--	3.27	4.06	3.65	3.56	3.90	4.42	4.88	5.59	5.23	3.70	3.61	3.18	2.84	4.04	4.06	3.94	5.08	4.42	3.70	5.14	4.58	Diurnal Average	
	15.54	13.10	--	7.62	15.13	9.80	12.78	15.43	15.41	14.04	17.17	18.21	14.10	24.98	17.18	9.35	27.34	13.38	10.66	17.27	21.75	11.80	21.79	16.27	Diurnal Maximum	

Z - zerospan    C - Calibration

Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb    24-hr 106 ppb

Maximum Value: 48.52 ppb on Oct 22 14:00      Maximum Daily Average: 10.04 ppb on Oct 7																				Hours in Service:	744					
Minimum Value: 0.0 ppb on Oct 3 04:00      Minimum Daily Average: 0.08 ppb on Oct 3																				Hours of Data:	707					
Maximum Diurnal Average: 9.05 ppb at hour 11      Minimum Diurnal Average: 2.88 ppb at hour 4																				Hours of Missing Data:	37					
Monthly Average: 4.651 ppb      Percentiles: P <sub>1</sub> = 0.0 P <sub>10</sub> = 0.5 Q <sub>1</sub> = 1.5 Median = 2.8 Q <sub>3</sub> = 5.5 P <sub>90</sub> = 10.4 P <sub>99</sub> = 31.9																				Hours of Calibration:	37					
																				Percent Operational Time:	100.0					
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily Average	Daily Maximum
1-Oct	3.4	3.1	Z	2.6	2.6	8.3	13.4	6.2	4.9	4.7	4.5	4.0	2.5	0.3	0.4	0.8	2.5	4.8	2.9	4.2	5.4	6.6	7.4	5.8	4.42	13.36
2-Oct	4.4	3.9	Z	5.1	4.1	2.9	2.7	3.2	4.7	6.8	7.0	5.6	2.2	1.8	1.3	2.5	1.9	0.1	10.2	25.9	8.6	0.9	0.4	0.3	4.63	25.95
3-Oct	0.2	0.1	Z	0.0	0.0	0.0	0.0	0.0	0.0	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	0.5	0.4	0.08	0.48
4-Oct	0.4	0.2	Z	0.6	0.5	0.0	0.0	0.1	0.6	0.7	0.4	0.5	0.7	0.8	0.7	0.5	0.4	0.4	0.4	0.5	0.9	1.5	2.3	2.6	0.67	2.58
5-Oct	2.6	2.7	Z	2.3	6.9	6.6	5.4	11.0	13.8	14.6	19.3	9.9	2.1	1.1	1.6	0.6	2.1	0.3	0.7	1.9	1.8	3.1	2.8	3.0	5.04	19.34
6-Oct	2.9	2.7	Z	2.8	2.3	2.7	3.9	5.7	6.8	5.9	4.2	3.7	3.3	3.6	3.3	2.4	2.6	2.6	3.0	2.8	2.8	4.4	9.6	18.2	4.45	18.25
7-Oct	12.7	10.0	Z	6.4	9.8	7.9	7.7	10.8	11.6	7.6	8.0	8.2	6.2	1.7	3.6	8.1	43.2	14.3	4.5	4.2	1.3	2.2	25.2	16.0	10.04	43.19
8-Oct	15.2	5.6	Z	1.3	6.3	9.3	1.9	2.3	4.6	6.1	14.0	4.3	1.7	0.2	0.2	0.5	0.8	1.4	1.5	2.8	2.2	4.0	3.1	3.1	4.01	15.23
9-Oct	2.8	1.9	Z	1.1	1.0	1.0	1.3	2.0	3.1	2.4	3.2	4.1	2.5	3.2	2.1	2.4	3.0	2.5	4.1	3.0	3.1	2.6	1.8	1.4	2.41	4.12
10-Oct	1.4	0.8	Z	0.9	0.8	0.6	0.3	0.3	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.1	0.7	1.2	2.4	2.2	2.1	0.5	1.3	0.6	0.75	2.35
11-Oct	1.0	0.6	Z	2.7	17.9	3.8	14.7	18.5	19.7	18.3	8.4	1.6	0.8	1.8	3.9	2.3	1.5	1.4	0.8	0.4	2.1	3.3	2.7	1.8	5.66	19.72
12-Oct	1.1	1.3	Z	3.1	3.0	2.3	2.0	2.5	3.8	4.1	6.1	6.0	2.4	2.2	1.4	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.7	2.01	6.10
13-Oct	1.2	1.4	Z	1.8	1.3	1.1	1.0	1.7	6.7	3.0	2.3	21.2	10.8	1.5	3.3	1.6	4.7	5.8	1.8	3.3	4.6	1.8	1.1	0.5	3.63	21.21
14-Oct	1.1	1.3	Z	1.7	2.1	2.0	2.3	1.5	2.8	14.5	24.2	9.5	3.6	6.9	11.0	5.4	0.1	0.1	1.7	18.6	4.2	3.4	5.4	3.3	5.51	24.22
15-Oct	2.5	0.9	Z	1.7	2.3	2.7	2.9	3.7	5.6	6.0	4.4	1.7	0.6	0.2	0.6	0.9	1.8	2.7	5.1	5.7	5.1	4.9	3.6	3.4	3.01	6.01
16-Oct	3.4	3.8	Z	2.9	2.7	2.7	2.7	3.1	4.2	6.5	8.7	7.7	5.7	4.5	5.0	5.4	7.9	9.4	10.1	8.6	6.9	3.8	2.8	2.6	5.29	10.12
17-Oct	2.6	2.5	Z	1.7	2.3	3.1	2.8	3.3	3.4	5.3	5.6	5.1	4.1	3.9	4.5	4.7	5.7	5.1	5.6	6.2	5.5	5.3	8.5	8.5	13.6	13.65
18-Oct	16.0	12.1	Z	5.2	9.7	4.3	2.5	7.0	10.5	8.9	16.9	17.1	4.2	13.4	25.5	11.6	11.0	8.5	5.9	3.0	1.2	1.0	1.2	3.1	8.68	25.48
19-Oct	3.6	3.1	Z	2.7	3.6	3.2	4.0	3.8	4.4	6.9	6.1	2.8	1.9	1.6	0.9	1.2	1.7	2.3	2.1	2.4	3.5	6.0	16.2	6.2	3.93	16.22
20-Oct	6.5	6.0	Z	5.3	3.3	4.6	3.3	3.2	5.7	10.9	32.0	42.5	26.0	9.2	0.4	0.0	0.1	0.4	0.3	1.2	2.6	2.4	1.6	1.9	7.36	42.45
21-Oct	1.4	1.5	Z	2.3	2.4	2.1	1.9	2.0	3.5	4.6	6.5	6.2	3.5	1.8	2.1	5.7	8.8	8.3	7.0	13.2	32.3	13.0	25.2	5.9	7.01	32.32
22-Oct	8.8	13.3	Z	5.9	5.5	9.6	4.8	9.5	8.6	16.0	3.1	19.2	19.0	48.5	2.0	0.2	0.2	5.0	5.4	12.2	1.7	1.0	4.1	2.4	8.94	48.52
23-Oct	1.3	1.9	Z	1.2	1.5	1.1	1.2	2.0	2.9	C	C	C	C	C	C	5.2	3.9	3.9	6.4	2.4	10.3	6.3	10.4	5.5	--	10.37
24-Oct	2.3	1.5	Z	2.8	0.6	0.4	0.9	0.4	0.7	1.4	37.8	36.3	9.5	0.5	1.0	0.0	2.7	1.7	2.2	8.0	5.4	1.5	0.6	0.6	5.17	37.76
25-Oct	2.5	1.8	Z	8.1	7.1	4.5	1.9	1.8	2.2	9.7	4.7	3.0	1.5	1.3	1.7	1.7	1.9	2.0	2.2	2.1	1.8	1.2	1.5	2.92	9.65	
26-Oct	1.9	1.2	Z	0.9	0.9	1.4	1.5	1.7	1.9	2.3	2.9	2.7	2.7	3.6	3.5	8.5	8.8	7.4	8.3	17.9	20.4	25.1	25.6	30.2	7.87	30.21
27-Oct	29.0	14.7	Z	8.4	6.4	3.8	6.5	6.5	16.7	21.7	16.2	12.7	11.3	11.1	9.3	6.4	2.2	9.6	1.9	1.1	0.8	0.9	2.3	4.7	8.88	28.96
28-Oct	1.9	2.0	Z	1.5	1.3	1.2	1.4	1.8	2.8	4.2	4.4	2.9	3.8	4.5	4.9	3.7	3.5	4.8	4.4	3.6	3.1	3.3	4.5	4.2	3.20	4.86
29-Oct	4.8	4.2	Z	3.4	4.6	2.9	2.2	3.4	4.4	3.9	3.9	3.3	1.8	1.0	1.2	1.3	1.9	3.0	4.7	3.3	2.0	1.3	1.2	1.9	2.85	4.84
30-Oct	2.1	1.5	Z	1.8	1.8	1.2	1.5	2.0	2.5	2.9	15.0	9.2	11.0	14.3	11.5	4.3	7.6	2.3	1.9	1.4	1.0	1.5	1.9	6.2	4.63	15.01
31-Oct	2.8	0.9	Z	1.2	1.7	3.8	2.1	2.6	3.1	3.4	3.3	3.0	3.1	2.1	2.7	1.9	1.6	1.5	1.5	1.9	1.7	1.5	1.4	0.8	2.16	3.79
																								Diurnal Average		
																								Diurnal Maximum		
Z - zerospan    C - Calibration																										
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ppb    24-hr --- ppb																										

Maximum Value: 11.13 $\mu\text{g}/\text{m}^3$ on Oct 1 21:00      Maximum Daily Average: 6.02 $\mu\text{g}/\text{m}^3$ on Oct 17 Minimum Value: 0.0 $\mu\text{g}/\text{m}^3$ on Oct 2 23:00      Minimum Daily Average: 0.10 $\mu\text{g}/\text{m}^3$ on Oct 3 Maximum Diurnal Average: 3.40 $\mu\text{g}/\text{m}^3$ at hour 10      Minimum Diurnal Average: 1.57 $\mu\text{g}/\text{m}^3$ at hour 15 Monthly Average: 2.380 $\mu\text{g}/\text{m}^3$ Percentiles: P <sub>1</sub> = 0.0 P <sub>10</sub> = 0.0 Q <sub>1</sub> = 0.5 Median = 1.8 Q <sub>3</sub> = 3.7 P <sub>90</sub> = 5.3 P <sub>99</sub> = 10.5																								Hours in Service: 744 Hours of Data: 744 Hours of Missing Data: 0 Hours of Calibration: 0 Percent Operational Time: 100.0			
Day	Hourly Period Ending At																								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-Oct	3.3	3.6	3.1	3.6	3.8	3.2	3.9	4.5	4.1	5.3	4.8	7.2	4.9	1.7	1.4	4.6	5.8	8.6	8.8	10.1	11.1	10.9	10.7	8.3	5.73	11.13	
2-Oct	7.3	8.6	6.1	4.8	4.1	4.6	5.9	6.9	8.5	9.8	7.7	6.1	6.2	6.9	4.1	2.0	1.0	1.1	1.2	1.5	1.1	0.9	0.0	0.1	4.43	9.83	
3-Oct	0.2	0.0	0.6	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.72	
4-Oct	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.74	4.00	
5-Oct	1.0	2.4	2.4	4.2	5.3	4.7	4.7	6.2	4.9	5.2	4.7	3.2	1.8	1.3	0.6	0.8	1.3	0.9	0.7	2.4	1.4	1.8	2.0	2.0	2.74	6.24	
6-Oct	1.7	2.0	2.0	1.1	1.2	1.6	2.6	3.6	3.9	3.7	3.2	4.2	3.7	2.7	3.9	2.2	4.1	4.6	3.4	4.9	4.6	5.3	5.7	7.7	3.49	7.68	
7-Oct	6.9	5.3	5.9	6.8	6.9	5.4	6.7	7.5	6.0	6.0	5.9	5.0	3.1	2.1	0.5	2.6	6.0	3.7	3.0	1.6	2.4	2.6	4.2	3.8	4.58	7.50	
8-Oct	4.2	3.5	3.4	2.9	2.7	3.5	2.9	1.3	4.5	3.2	4.3	3.0	0.6	0.0	0.2	0.5	1.2	4.0	1.6	2.2	3.3	3.7	2.1	2.54	4.46		
9-Oct	1.4	1.1	0.0	0.0	0.0	0.0	0.0	1.6	1.1	0.2	0.8	3.3	0.0	1.4	0.0	1.0	0.0	0.0	1.7	1.4	1.5	1.8	1.1	0.4	0.82	3.28	
10-Oct	1.9	0.7	1.0	0.0	0.0	0.6	0.3	0.6	2.1	2.5	1.2	0.8	0.0	0.0	0.0	0.1	0.0	0.0	2.1	2.3	1.4	0.0	0.0	0.0	0.73	2.47	
11-Oct	0.1	0.8	2.3	7.5	3.0	1.6	2.2	4.3	7.7	6.5	6.4	4.2	1.6	0.8	1.3	1.5	0.1	0.2	1.5	1.4	0.2	3.4	2.2	0.5	2.55	7.69	
12-Oct	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.5	2.8	2.2	2.7	3.7	1.3	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.5	0.4	0.66	3.69		
13-Oct	0.0	0.2	0.3	0.0	0.4	0.1	0.0	1.5	1.9	1.7	1.1	0.7	0.6	0.0	0.5	1.4	1.3	0.6	1.9	1.0	1.5	2.5	1.8	1.0	0.92	2.50	
14-Oct	1.8	1.1	2.1	2.2	1.9	1.7	1.3	3.2	3.1	3.2	4.7	1.8	2.1	3.0	1.0	3.8	3.0	2.8	3.4	4.6	3.8	4.5	4.6	3.2	2.83	4.68	
15-Oct	2.6	3.0	2.6	2.3	2.6	3.2	2.9	4.0	4.5	4.2	2.7	0.2	0.4	0.0	0.6	2.3	2.5	5.7	4.1	5.6	5.8	4.9	4.7	4.9	3.18	5.82	
16-Oct	4.2	4.1	4.1	3.3	3.7	4.8	4.8	4.5	6.5	6.1	5.0	5.3	4.4	3.9	4.7	4.9	5.0	8.2	7.7	7.1	7.0	4.8	4.9	3.6	5.11	8.16	
17-Oct	3.2	3.5	3.0	1.8	2.7	2.8	2.9	4.3	4.9	8.3	6.3	6.1	5.1	5.5	5.9	5.7	6.4	8.0	10.6	8.3	9.3	7.9	11.0	10.8	6.02	10.96	
18-Oct	8.9	7.4	6.4	4.8	4.7	2.2	1.5	2.1	2.2	2.5	2.3	2.4	1.0	0.7	2.4	1.6	3.1	3.1	4.5	3.9	1.7	2.5	2.3	4.0	3.26	8.89	
19-Oct	5.1	5.3	3.3	4.1	4.4	4.6	5.4	4.5	4.7	5.5	6.1	1.6	2.0	1.4	1.0	2.5	2.4	5.0	4.7	5.8	6.5	11.0	5.0	3.1	4.37	11.02	
20-Oct	2.3	0.8	0.5	0.6	0.8	1.1	1.7	2.5	4.8	5.1	4.1	4.8	4.2	3.3	2.3	3.3	2.0	1.7	2.9	3.9	4.1	3.8	3.7	2.4	2.78	5.06	
21-Oct	2.9	1.7	2.6	2.8	2.1	2.0	2.2	2.0	4.6	3.6	2.7	4.3	0.0	0.0	1.1	0.4	1.1	1.3	1.4	3.5	6.3	3.4	3.4	2.1	2.39	6.34	
22-Oct	1.3	2.3	2.6	1.3	2.0	3.6	1.9	1.6	1.2	2.9	0.9	1.0	0.0	2.8	0.0	0.3	0.4	3.5	3.0	1.1	0.1	0.2	0.1	0.2	1.43	3.58	
23-Oct	0.8	0.4	0.9	0.9	0.0	0.9	0.0	1.2	1.0	1.0	1.3	1.9	0.0	0.3	0.0	0.0	0.4	0.0	2.1	1.8	1.8	2.6	2.9	1.9	1.01	2.90	
24-Oct	1.8	0.7	1.7	1.7	2.4	1.9	1.7	1.3	2.2	1.4	2.6	2.5	1.1	0.5	0.4	1.1	0.0	0.6	1.8	2.3	1.9	1.1	0.9	0.8	1.43	2.64	
25-Oct	0.3	1.6	0.6	0.6	1.3	0.8	2.8	3.6	3.7	4.7	5.4	2.3	1.9	2.7	2.5	2.1	3.0	2.4	1.8	1.6	1.2	0.0	0.2	0.2	1.98	5.35	
26-Oct	0.5	0.0	0.5	0.4	0.4	0.7	0.9	1.3	1.7	2.3	2.1	2.7	2.9	2.4	3.6	4.3	3.1	1.9	4.3	5.4	3.5	4.6	5.2	4.7	2.47	5.42	
27-Oct	2.7	1.4	1.6	1.2	1.8	0.8	1.5	0.8	0.5	1.4	0.9	0.9	0.4	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.74	2.68	
28-Oct	0.0	1.1	0.0	0.0	0.9	0.4	0.0	0.0	1.9	2.5	0.0	0.0	0.0	0.4	0.2	0.6	1.2	0.8	0.0	0.8	1.5	0.6	1.4	1.1	0.64	2.53	
29-Oct	1.5	1.3	2.1	2.5	4.0	4.1	1.0	1.0	2.1	3.0	0.1	1.3	0.0	0.0	0.0	0.2	0.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.09	4.08	
30-Oct	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.1	0.7	2.2	1.6	1.2	2.4	5.8	5.2	3.2	1.7	3.0	0.6	1.2	2.6	1.6	0.9	1.47	5.78		
31-Oct	0.0	0.3	0.0	0.6	0.3	0.9	1.5	0.8	2.9	1.1	1.2	0.0	0.0	0.3	0.0	0.0	0.0	2.7	3.3	4.8	4.3	3.7	4.4	1.57	4.77		
	2.19	2.08	2.00	2.00	2.00	1.99	2.46	3.21	3.40	2.98	2.72	1.76	1.62	1.57	1.91	1.92	2.43	2.79	2.97	2.84	2.99	2.86	2.42		Diurnal Average		
	8.89	8.63	6.39	7.45	6.94	5.39	6.73	7.50	8.52	9.83	7.69	7.24	6.15	6.89	5.91	5.66	6.37	8.64	10.58	10.14	11.13	11.02	10.96	10.79		Diurnal Maximum	
Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 80 $\mu\text{g}/\text{m}^3$ 24-hr 30 $\mu\text{g}/\text{m}^3$																											

# Calibration Data Summary

## West Central Airshed Society

Operator: WCAS

Location: Station 910, Genesee

Calibration Date: October 23, 2015

Parameter: NO/NO<sub>2</sub>/NO<sub>x</sub>

Instrument: Teco 42 i	Serial Number: 0708 721218	Previous Calibration Date: September 24, 2015
Calibration: Routine	Calibration Equipment: SABIO 2010 sn 04300810	Barometric Pressure: 27.40" Hg
Calibration Method: Standard Gas Dilution/ GPT	Cylinder ID: FF16109	Temperature: 18.5° C
Cylinder Concentration: 12.6 ppm NO / NO <sub>x</sub>	In Service: January 14,2015	Technician: Dean Yustak

Instrument Settings	NO bkg ppb	NO <sub>x</sub> bkg ppb	Pre-reactor bkg ppb	NO Coefficient	NO <sub>x</sub> Coefficient	NO <sub>2</sub> Coefficient	Monitoring Range
Previous	1.7	1.9	na	1.127	1.001	1.000	300 ppb
Current	1.8	1.9	na	1.139	1.000	1.000	300 ppb

NO	Final Zero: -0.2 ppb	Final Span: 224.4 ppb	As Found Correction Factor: 0.992
NO <sub>2</sub>	Final Zero: 0.1 ppb	Final Span: 0.3 ppb	As Found Correction Factor: NA
NO <sub>x</sub>	Final Zero: -0.3 ppb	Final Span: 224.2 ppb	As Found Correction Factor: 0.991

Results of Linear Regression			Slope	Intercept	R <sup>2</sup>
NO	R <sub>c</sub> vs C <sub>c</sub>	Previous	99.995710	-78.594010	0.999916
		Current	99.738820	19.571240	0.999997
	C <sub>i</sub> vs C <sub>c</sub>	Current	1.000000	0.000007	0.999997
		Previous	99.920840	10.079040	0.999916
NO <sub>2</sub>	R <sub>c</sub> vs C <sub>c</sub>	Current	98.708260	-6.826327	0.999937
		Current	1.000000	-0.000003	0.999937
	C <sub>i</sub> vs C <sub>c</sub>	Previous	99.957310	-80.423360	0.999916
		Current	99.792420	18.726050	0.999996
NO <sub>x</sub>	R <sub>c</sub> vs C <sub>c</sub>	Current	1.000000	-0.000028	0.999996
		Previous	99.957310	-80.423360	0.999916

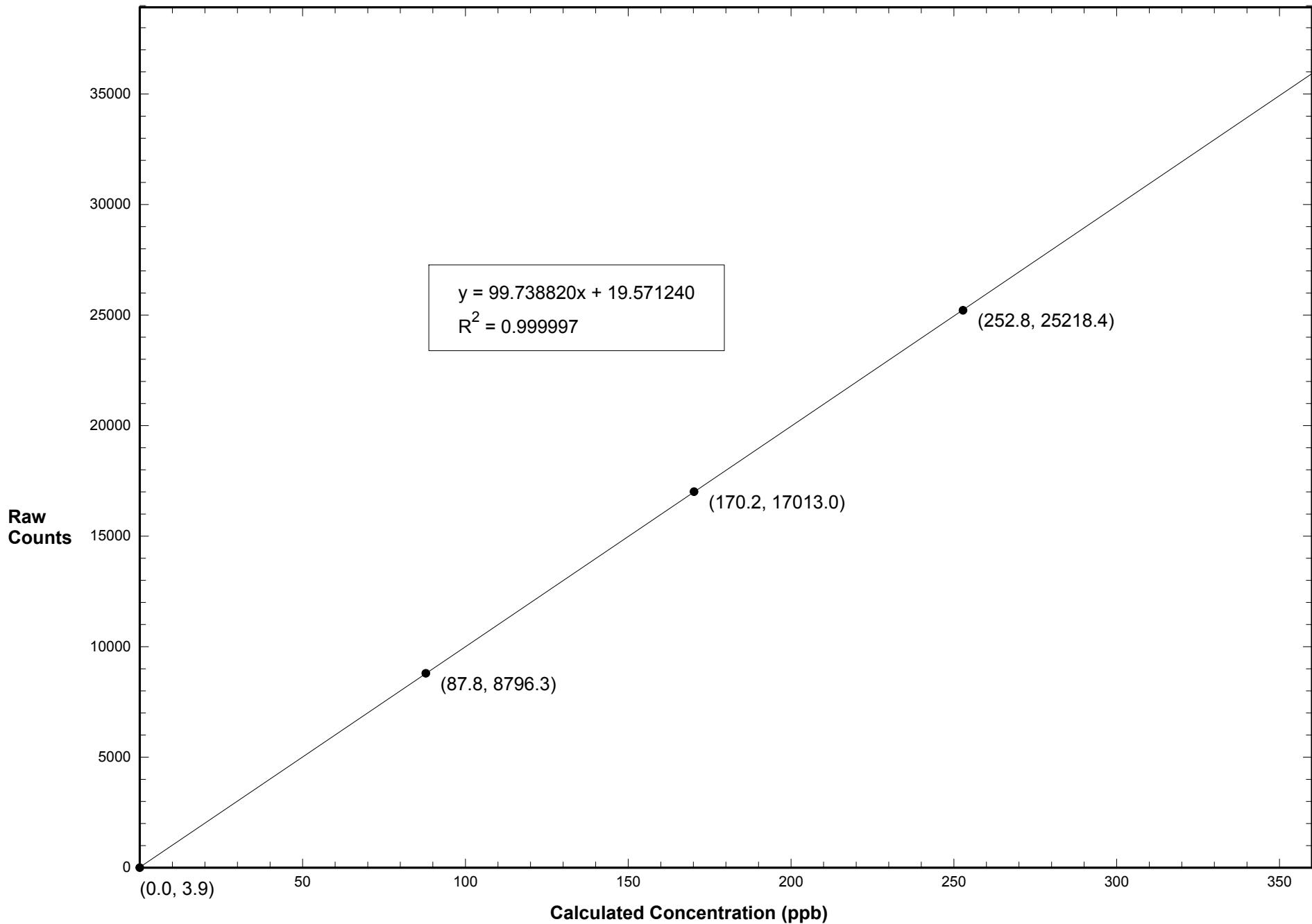
Comments:

## Calibration Data Summary (Page 2)

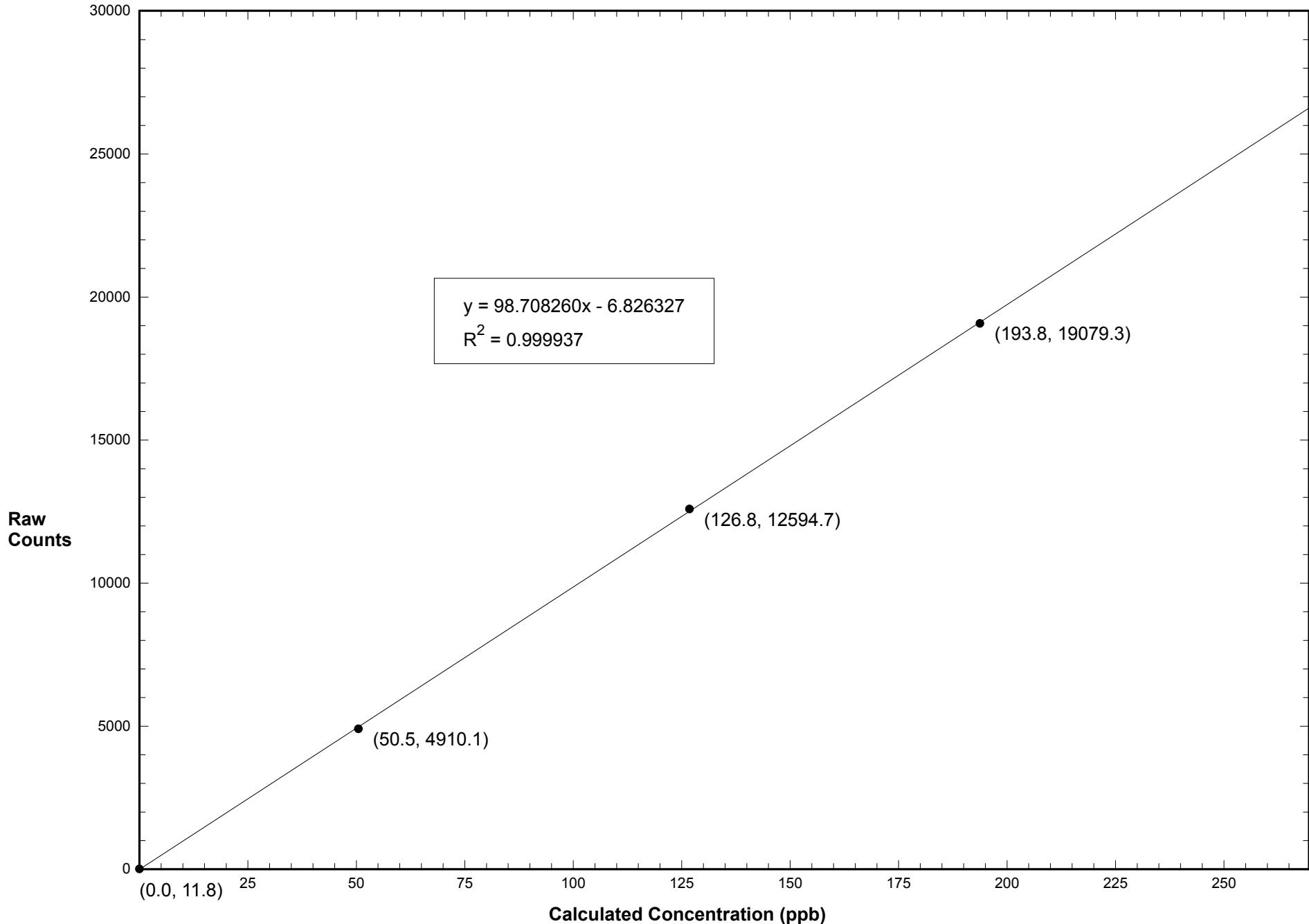
October 23, 2015 - Station 910

NO Flow Rate (LPM)	Dilution Flow Rate (LPM)	Calculated Concentration C <sub>c</sub> (ppb)	Raw Count Output R <sub>c</sub>	Indicated Concentration C <sub>i</sub> (ppb)	Correction Factor C <sub>c</sub> /C <sub>i</sub>		
0.06208	3.032	252.8	25218.4	252.6	1.001		
0.04154	3.034	170.2	17013.0	170.4	0.999		
0.02130	3.034	87.8	8796.3	88.0	0.998		
0.00000	3.052	0.0	3.9	-0.2			
NO Calibration				Average Correction Factor:	0.999		
0.06208	3.032	252.8	25226.4	252.6	1.001		
0.04154	3.034	170.2	17029.8	170.5	0.999		
0.02130	3.034	87.8	8797.2	88.0	0.999		
0.00000	3.052	0.0	2.2	-0.2			
NO <sub>x</sub> Calibration				Average Correction Factor:	0.999		
Reference Concentration NO (ppb)	Raw Count Output NO	Calculated Concentration NO (ppb)	Calculated Concentration NO <sub>2</sub> , C <sub>c</sub> (ppb)	Raw Count Output R <sub>c</sub>	Indicated Concentration C <sub>i</sub> (ppb)	Correction Factor C <sub>c</sub> /C <sub>i</sub>	Converter Efficiency C <sub>i</sub> /C <sub>c</sub>
224.3	3068.2	30.6	193.8	19079.3	193.4	1.002	0.998
224.3	9746.4	97.5	126.8	12594.7	127.7	0.993	1.007
224.3	17358.9	173.8	50.5	4910.1	49.8	1.013	0.987
			0.0	11.8	0.2		
				Average Correction Factor:	1.003		
NO <sub>2</sub> Gas Phase Titration				Average Converter Efficiency:	0.997		
Parameter	Correction Factor (Previous)	Correction Factor: (Current)	Percent Change of Correction Factor				
NO	0.997	1.001	0.4				
NO <sub>2</sub>	1.000	1.002	0.2				
NO <sub>x</sub>	0.997	1.001	0.4				

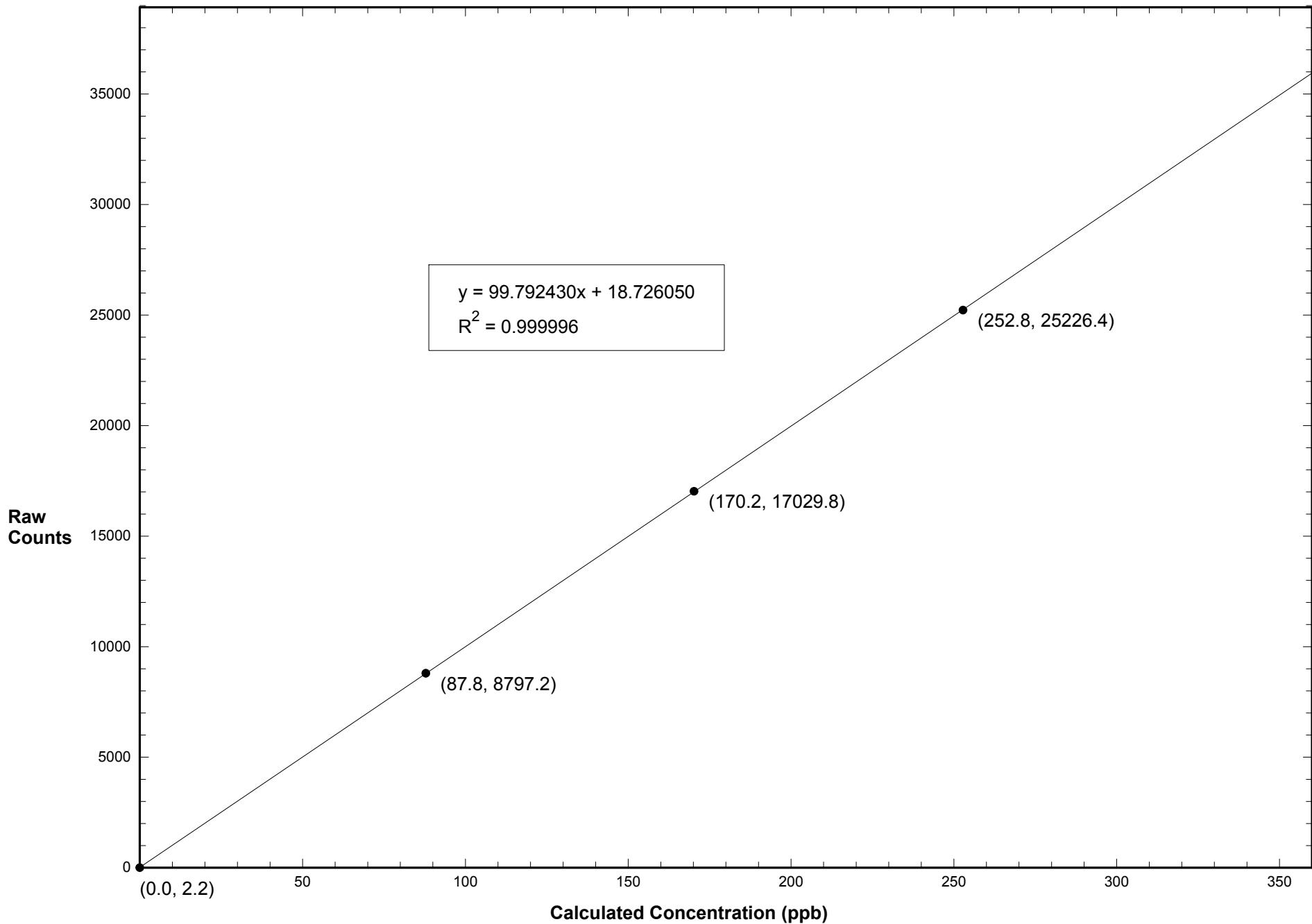
## Station 910 NO October 23, 2015: Linear Regression



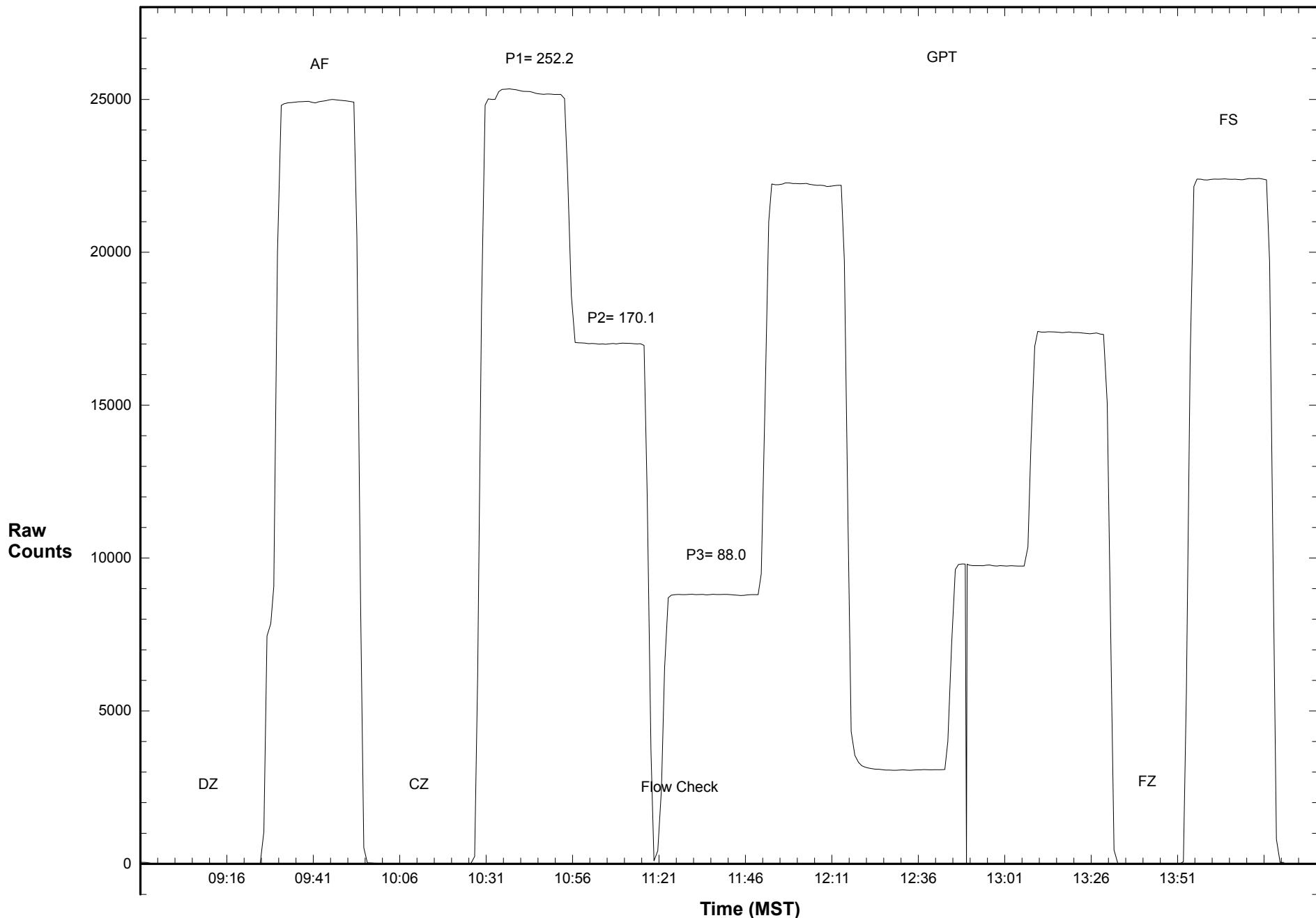
## Station 910 NO<sub>2</sub> October 23, 2015: Linear Regression



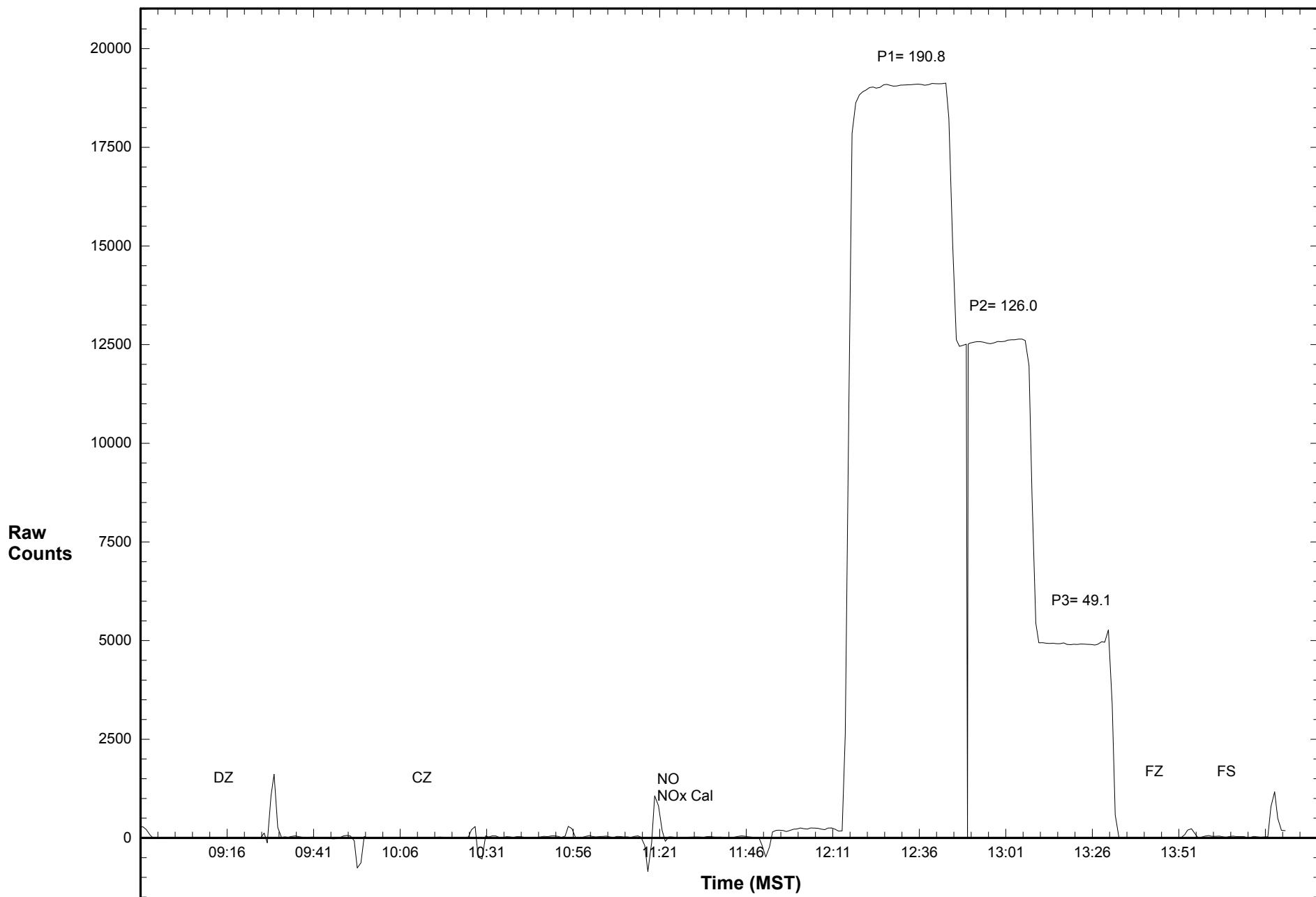
## Station 910 NOX October 23, 2015: Linear Regression



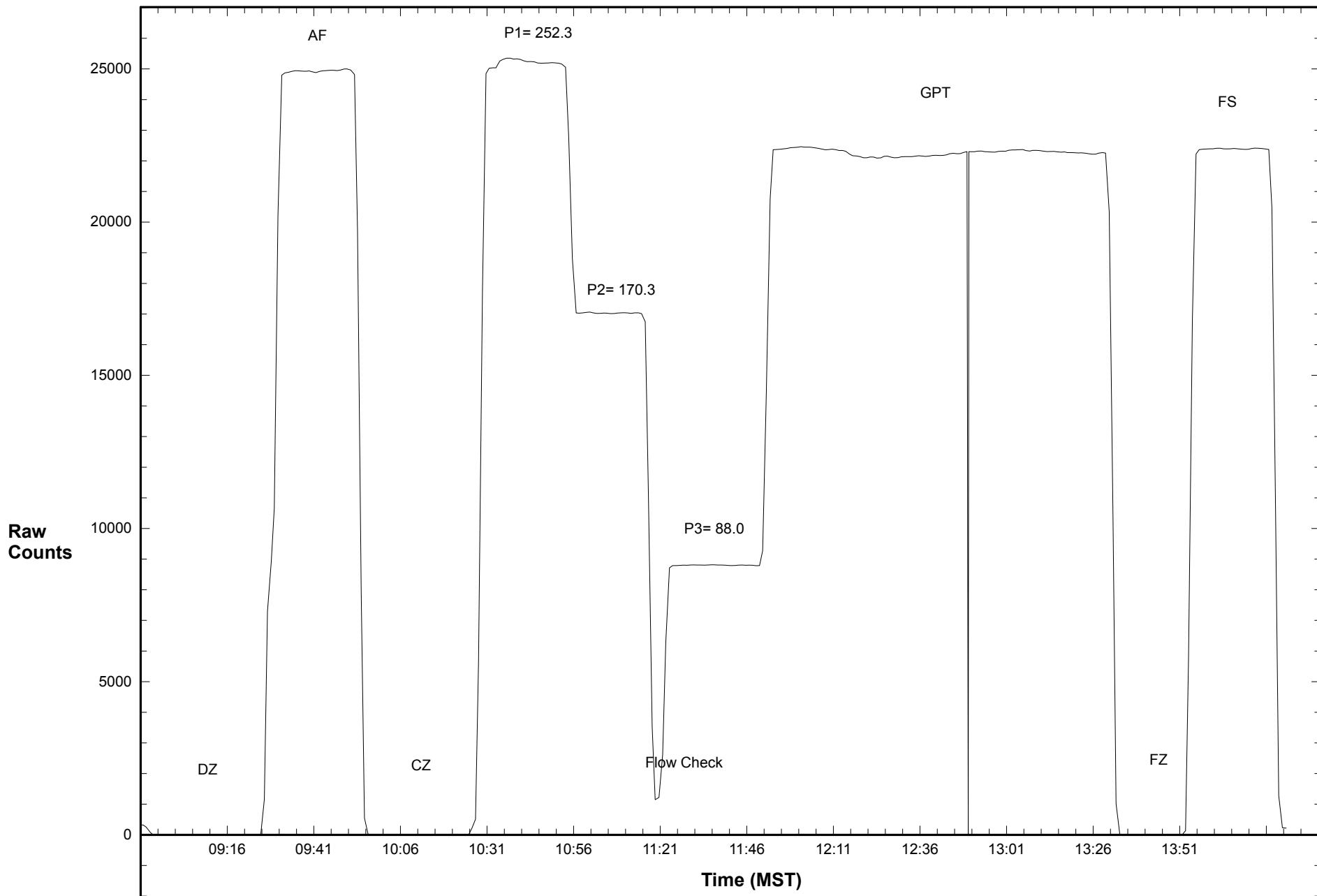
## Station 910 NO October 23, 2015: Calibration Graph



## Station 910 NO<sub>2</sub> October 23, 2015: Calibration Graph



## Station 910 NOX October 23, 2015: Calibration Graph



# Calibration Data Summary

## West Central Airshed Society

Operator: WCAS

Location: Station 910, Genesee

Calibration Date: October 23, 2015

Parameter: O<sub>3</sub>

Instrument: Teco 49i

Serial Number: 0708721220

Previous Calibration Date: September 24, 2015

Calibration: Routine

Calibration Equipment: 2B Technology 306 SN 135 Barometric Pressure: 27.40" Hg

Calibration Method: Certified Ozone Calibrator

Temperature: 18.5° C

Technician: Dean Yustak

Instrument Settings	Background	Coefficient	Monitoring Range
Previous	0.1	0.998	500 ppb
Current	0.0	0.976	500 ppb

Final Zero: -1.3 ppb      Final Span: 395.1 ppb      As Found Correction Factor: 0.972

Calibration System Flow Rate (LPM)	Calculated Concentration C <sub>c</sub> (ppb)	Raw Count Output R <sub>c</sub>	Indicated Concentration C <sub>i</sub> (ppb)	Correction Factor C <sub>c</sub> /C <sub>i</sub>
3.000	398.0	23853.7	398.1	1.000
3.000	250.0	14979.5	249.9	1.001
3.000	100.0	6010.7	100.1	0.999
3.000	0.0	14.6	0.0	

### Results of Linear Regression

R <sub>c</sub> vs C <sub>c</sub>	Slope	Intercept	R <sup>2</sup>
Previous	60.259240	-101.785200	0.999887
Current	59.884620	16.200420	1.000000
C <sub>i</sub> vs C <sub>c</sub>	Current	1.000000	1.000000

Average Correction Factor: 1.000

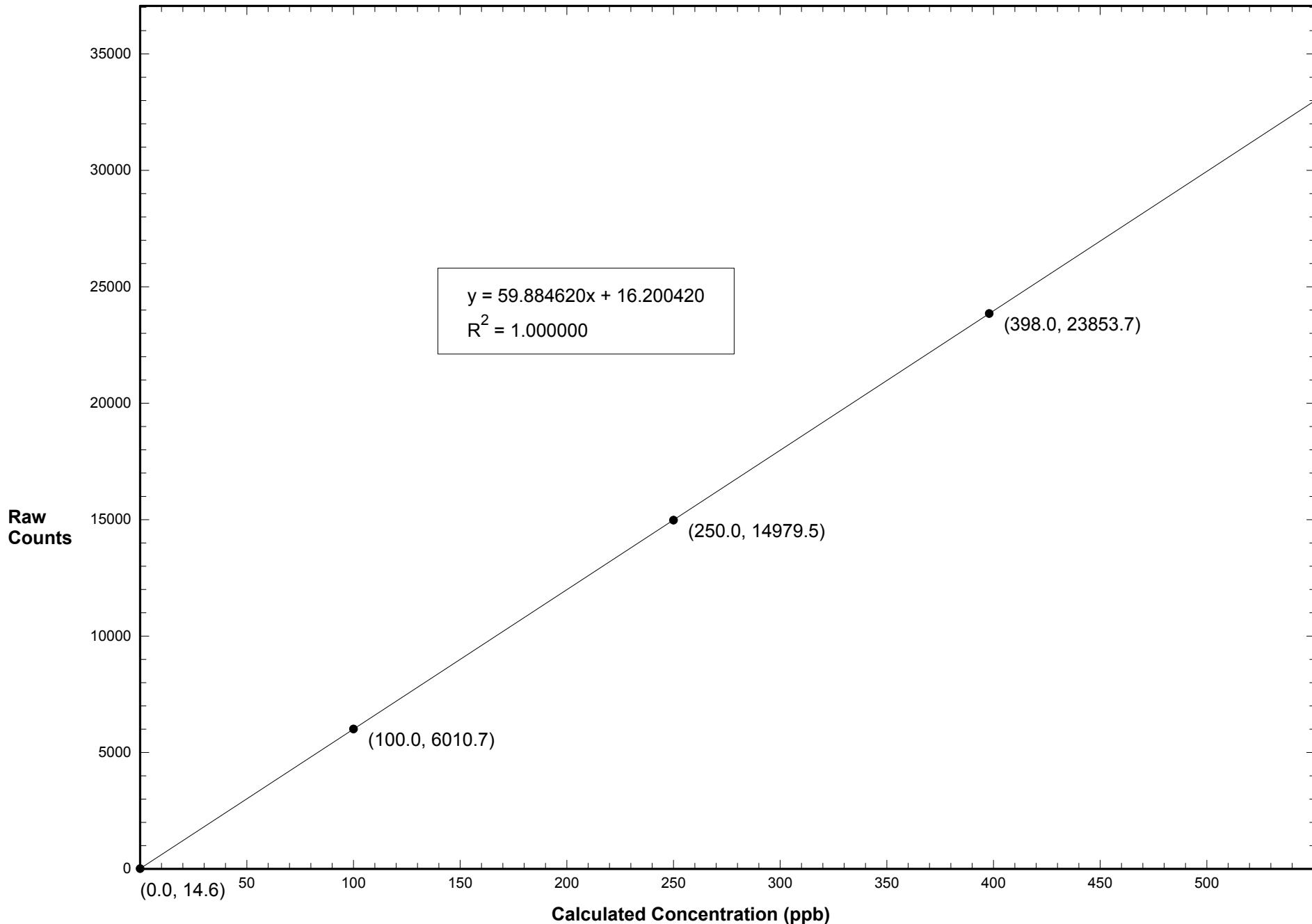
Previous Correction Factor: 0.997

Current Correction Factor: 1.000

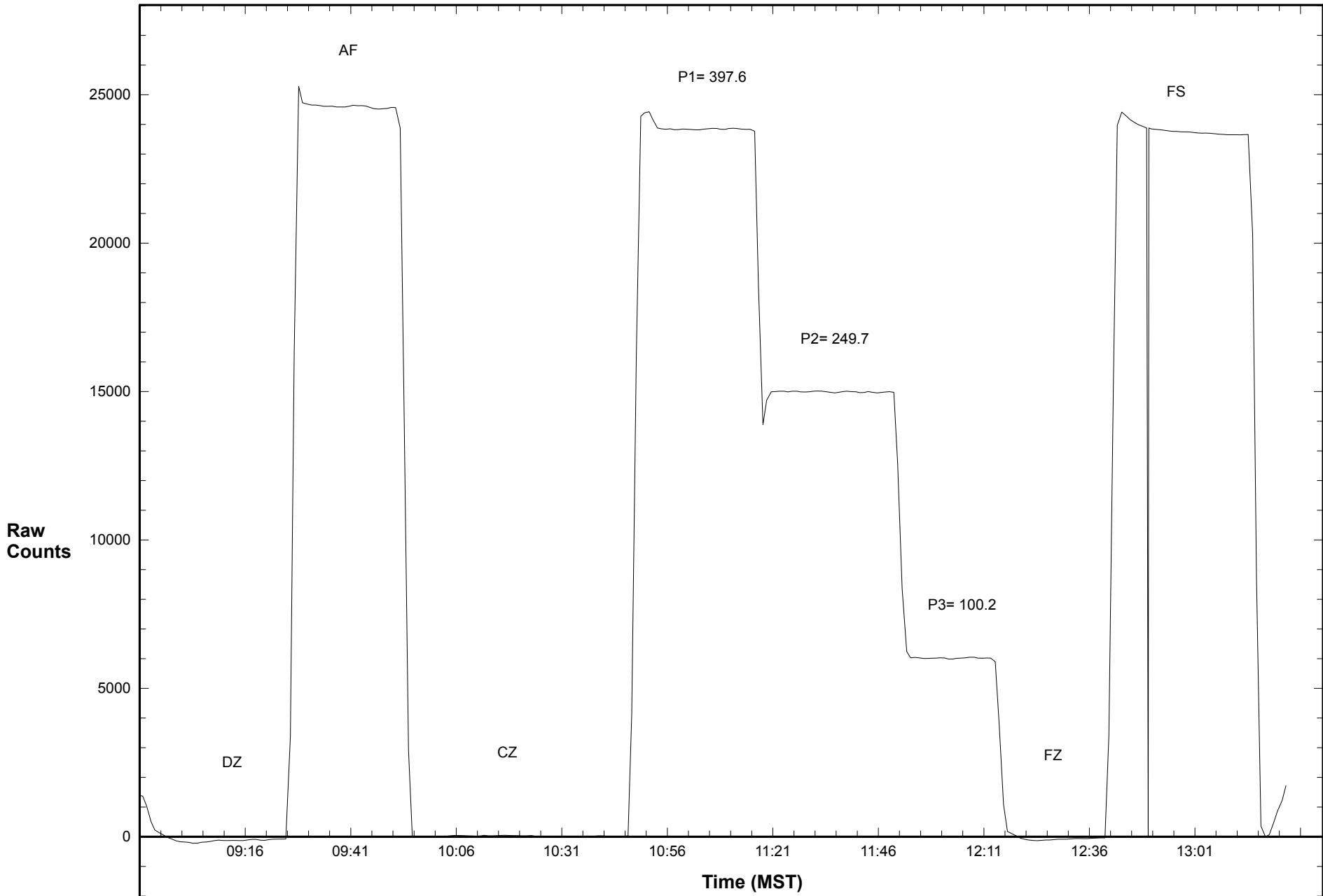
Percent Change of Correction Factor: 0.3

Comments:

## Station 910 O3 October 23, 2015: Linear Regression



## Station 910 O3 October 23, 2015: Calibration Graph



# Calibration Data Summary

## West Central Airshed Society

Operator: WCAS

Location: Station 910, Genesee

Calibration Date: October 23, 2015

Parameter: SO<sub>2</sub>

Instrument: Teco 43 i	Serial Number: 0708721218	Previous Calibration Date: September 24, 2015
Calibration: Routine	Calibration Equipment: SABIO 2010 sn 04300810	Barometric Pressure: 27.40" Hg
Calibration Method: Standard Gas Dilution	Cylinder ID: FF16109	Temperature: 18.5° C
Cylinder Concentration: 6.11 ppm SO <sub>2</sub>	In Service: Jan 14, 2014	Technician: Dean Yustak

Instrument Settings	SO <sub>2</sub> bkg ppb	SO <sub>2</sub> Coefficient	Monitoring Range
Previous	33.3	1.061	200 ppb
Current	34.1	1.108	200 ppb

Final Zero: 0.1 ppb	Final Span: 103.8 ppb	As Found Correction Factor: 1.023
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SO <sub>2</sub> Flow Rate (LPM)	Dilution Flow Rate (LPM)	Calculated Concentration C <sub>c</sub> (ppb)	Raw Count Output R <sub>c</sub>	Indicated Concentration C <sub>i</sub> (ppb)	Correction Factor C <sub>c</sub> /C <sub>i</sub>
0.0621	3.032	122.6	18464.2	122.3	1.003
0.0415	3.034	82.5	12538.7	83.1	0.993
0.0213	3.034	42.6	6393.6	42.5	1.003
0.0000	3.052	0.0	-47.8	-0.1	

### Results of Linear Regression

R <sub>c</sub> vs C <sub>c</sub>	Slope	Intercept	R <sup>2</sup>
Previous	151.293600	-109.696100	0.999739
Current	151.283700	-32.208840	0.999946
C <sub>i</sub> vs C <sub>c</sub>			
Current	1.000000	0.000015	0.999946

Average Correction Factor: 1.000

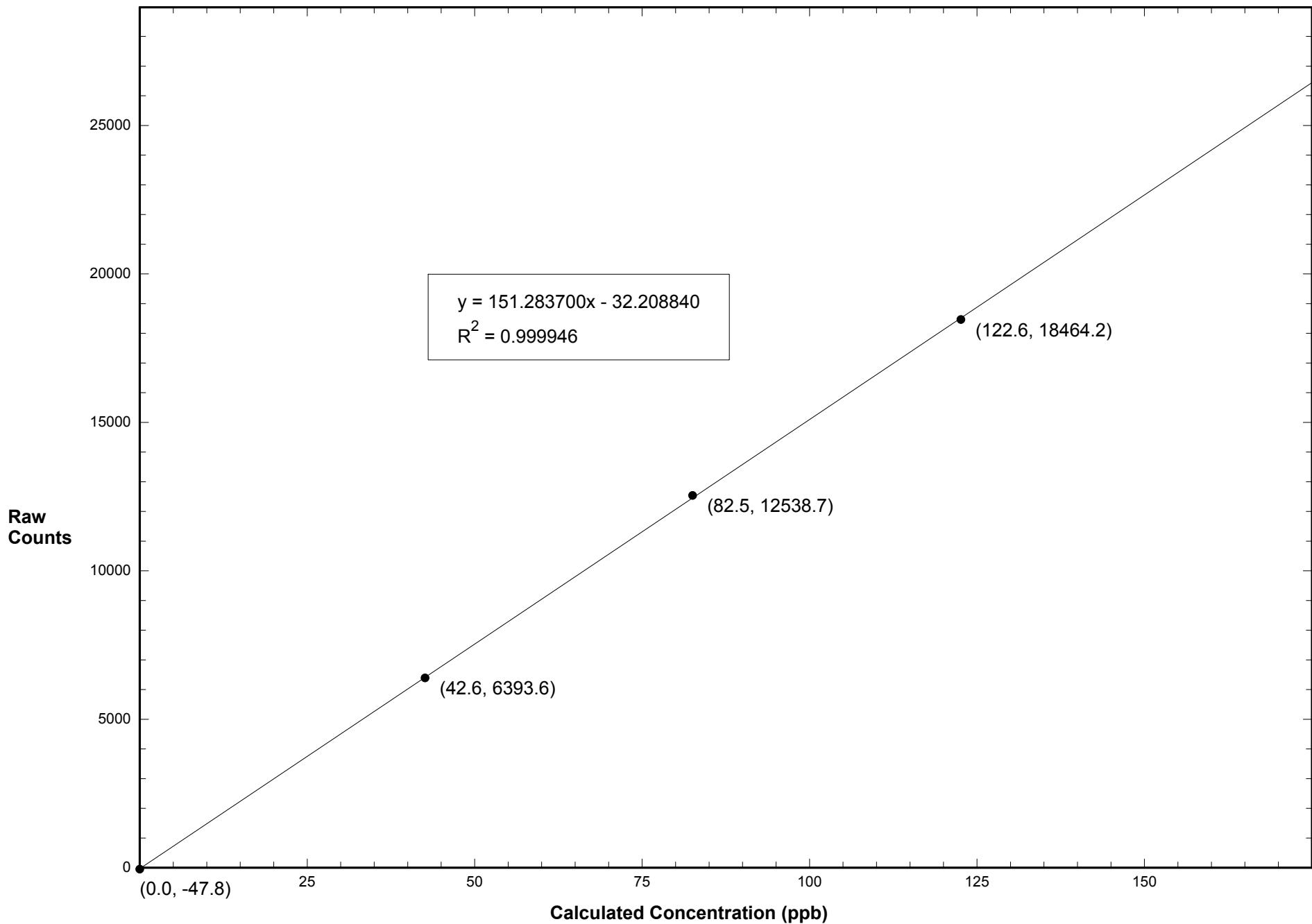
Previous Correction Factor: 0.995

Current Correction Factor: 1.003

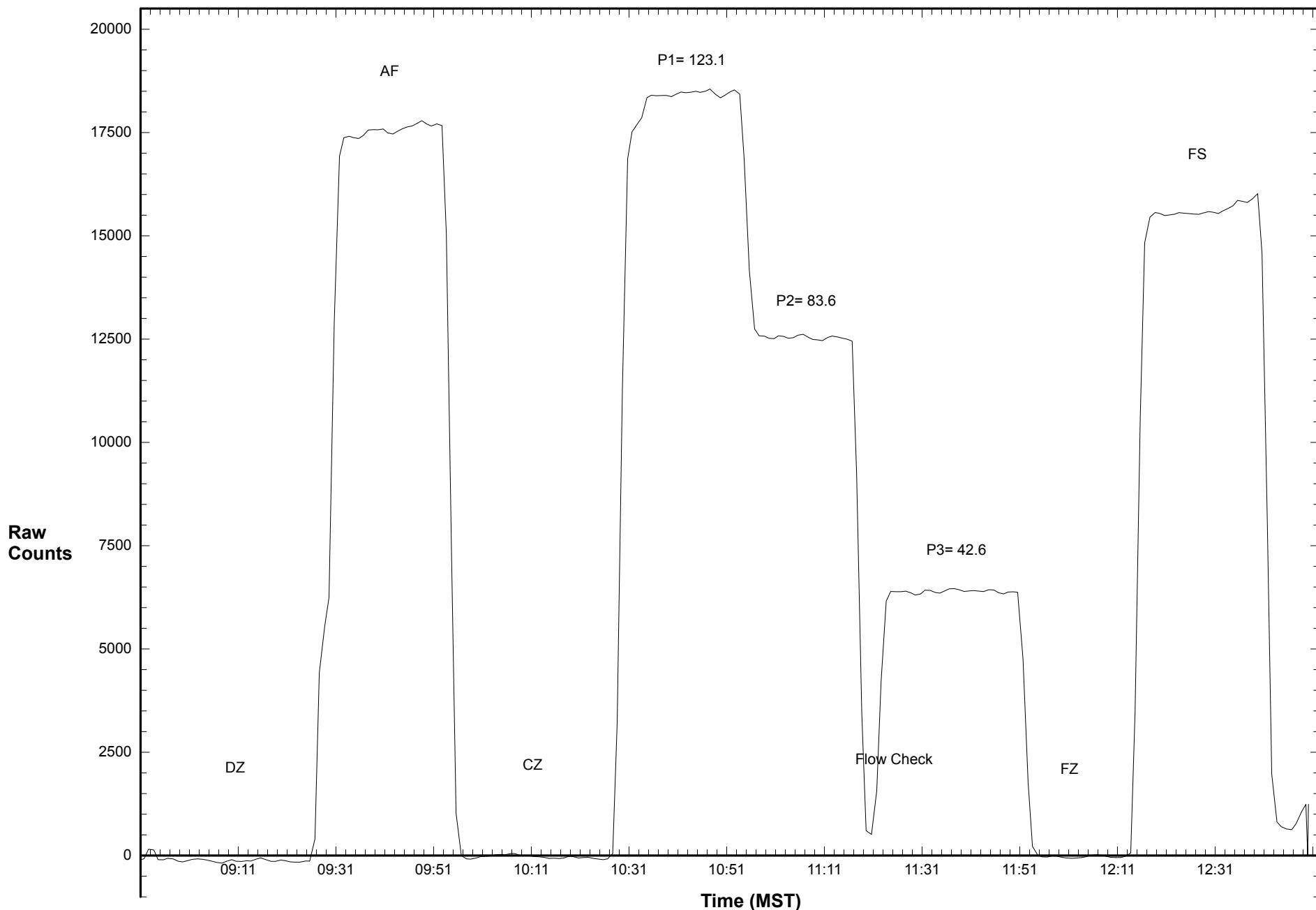
Percent Change of Correction Factor: 0.8

Comments:

## Station 910 SO<sub>2</sub> October 23, 2015: Linear Regression



## Station 910 SO<sub>2</sub> October 23, 2015: Calibration Graph



**WEST CENTRAL AIRSHED SOCIETY**

**CONTINUOUS AMBIENT AIR QUALITY  
MONITORING PROGRAM  
MONTHLY REPORT  
METEROLOGICAL DATA**

**AMS 910  
GENESEE  
OCTOBER 2015**

Operations and Data Collection by:  
West Central Airshed Society  
Drayton Valley, Alberta

QA/QC, Data Validation and Reporting by:  
West Central Airshed Society  
Drayton Valley, Alberta

Maximum Value: 24.43 C on Oct 10 13:00      Maximum Daily Average: 17.31 C on Oct 10																								Hours in Service: 744		
Minimum Value: -5.6 C on Oct 28 05:00      Minimum Daily Average: 0.75 C on Oct 28																								Hours of Data: 744		
Maximum Diurnal Average: 13.27 C at hour 14      Minimum Diurnal Average: 3.35 C at hour 7																								Hours of Missing Data: 0		
Monthly Average: 7.327 C      Percentiles: P <sub>1</sub> = -3.8 P <sub>10</sub> = 0.6 Q <sub>1</sub> = 3.0 Median = 6.9 Q <sub>3</sub> = 11.3 P <sub>90</sub> = 15.1 P <sub>99</sub> = 22.1																								Hours of Calibration: 0		
																									Percent Operational Time: 100.0	
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily Average	Daily Maximum
1-Oct	9.9	9.5	8.8	7.5	7.4	6.0	5.8	5.0	9.8	12.9	15.8	18.6	21.8	23.6	23.8	22.8	20.1	18.3	16.7	14.2	13.0	12.0	10.8	10.3	13.52	23.76
2-Oct	8.8	8.2	6.3	6.3	4.8	4.8	6.1	6.0	7.2	10.8	14.1	16.8	18.5	18.3	13.0	9.1	7.9	7.0	5.7	4.5	4.1	3.7	3.3	3.3	8.27	18.53
3-Oct	3.3	3.2	3.0	2.8	2.5	2.5	2.6	2.4	2.7	3.3	3.7	4.3	4.8	4.6	4.4	4.0	4.2	4.1	3.7	3.6	3.2	0.3	-1.4	-0.3	2.98	4.79
4-Oct	0.5	-0.5	0.2	0.6	0.5	0.3	0.2	0.7	1.5	2.3	3.9	5.0	6.5	7.4	7.5	7.5	6.8	5.1	2.3	0.4	-0.5	-1.0	-1.3	-1.7	2.27	7.54
5-Oct	-1.6	-3.1	-3.6	-3.5	-1.6	-0.4	-0.2	0.5	2.2	4.4	6.7	8.9	10.2	10.9	11.7	11.7	11.2	9.7	8.0	5.1	3.7	3.0	2.5	1.8	4.09	11.71
6-Oct	1.5	1.2	0.6	0.9	0.4	0.1	0.0	0.8	3.5	6.5	8.7	9.8	11.9	11.8	13.0	12.3	12.7	11.0	9.4	8.8	8.4	8.0	7.4	6.8	6.49	13.01
7-Oct	7.6	7.1	6.8	7.5	7.2	5.1	5.2	7.0	8.3	9.6	12.6	15.7	17.2	18.1	17.9	17.6	15.8	15.0	11.2	10.3	11.6	8.2	8.0	7.3	10.75	18.08
8-Oct	7.6	7.2	8.0	7.6	7.9	7.6	7.4	7.5	10.9	12.3	14.4	17.0	19.4	20.5	21.0	20.0	17.9	15.1	13.4	13.4	13.1	12.7	13.2	12.4	12.81	21.02
9-Oct	11.5	11.3	11.0	9.6	9.4	7.1	6.9	9.1	12.2	15.8	16.0	17.6	19.1	19.6	19.8	19.5	17.7	16.2	15.1	14.6	13.9	13.7	13.8	13.3	13.91	19.84
10-Oct	12.6	15.1	16.4	14.6	15.2	14.4	12.2	11.7	14.8	16.9	21.9	24.0	24.4	24.1	23.9	22.5	20.6	18.4	16.3	15.2	15.1	15.5	15.1	14.3	17.31	24.43
11-Oct	13.7	15.9	15.2	12.5	11.5	11.2	11.0	11.3	11.0	11.0	10.4	8.4	9.8	10.7	12.3	12.8	12.5	11.1	8.7	7.0	5.0	3.7	2.1	2.7	10.06	15.88
12-Oct	3.6	3.4	3.0	2.6	2.6	2.3	3.1	4.3	6.4	6.6	7.3	8.7	11.0	12.4	14.1	15.4	14.9	13.8	11.7	10.4	10.7	9.4	8.6	6.7	8.04	15.38
13-Oct	2.5	1.7	1.8	2.6	2.8	3.3	3.2	4.0	4.8	8.8	12.6	13.6	15.1	16.1	16.4	16.4	14.7	12.7	11.3	10.3	9.1	8.9	7.6	3.9	8.50	16.43
14-Oct	3.0	2.0	2.0	2.8	3.9	3.3	2.0	5.0	5.9	8.6	10.8	12.2	12.7	12.7	12.6	12.4	11.4	9.0	7.4	6.5	5.4	4.2	4.3	4.4	6.86	12.74
15-Oct	2.7	0.5	1.5	-1.5	-1.8	-1.9	-2.1	-1.5	1.9	5.5	8.3	10.8	12.2	12.8	13.0	12.4	10.8	8.5	7.1	7.5	7.1	7.0	6.4	5.7	5.53	13.03
16-Oct	3.7	2.4	1.4	0.7	-0.1	-0.3	0.1	0.2	2.2	6.3	8.8	11.2	13.6	15.8	16.3	16.2	14.5	10.4	9.2	8.1	6.5	5.8	4.9	5.3	6.81	16.33
17-Oct	4.4	4.7	4.5	2.2	1.1	0.6	0.6	0.6	2.8	6.5	10.2	13.6	16.2	17.9	19.3	18.9	17.3	14.4	11.8	9.6	9.9	10.2	11.9	11.6	9.20	19.27
18-Oct	10.7	10.2	11.6	11.4	12.4	12.5	11.6	11.5	11.2	13.1	14.3	15.1	15.9	16.8	16.9	16.2	13.2	11.3	9.6	7.9	8.2	6.6	5.5	12.11	16.91	
19-Oct	5.6	5.9	5.7	4.4	4.9	5.9	5.5	4.9	7.2	8.5	11.4	13.9	15.9	15.8	14.7	13.9	13.1	12.0	11.7	10.6	9.6	10.3	9.3	8.0	9.53	15.86
20-Oct	7.9	7.3	6.3	5.9	5.4	4.6	4.5	3.9	5.2	7.0	8.9	10.2	11.0	11.8	12.0	12.1	11.5	9.4	8.0	5.6	4.0	5.0	5.5	3.5	7.35	12.09
21-Oct	5.4	4.3	2.9	2.7	2.3	0.8	1.5	2.0	4.6	7.3	8.5	13.4	17.9	19.3	17.5	15.7	14.3	13.6	13.6	14.2	12.3	11.9	10.6	10.3	9.45	19.34
22-Oct	10.3	10.1	10.0	8.5	8.4	8.6	8.0	6.4	6.3	8.1	11.1	11.4	11.9	12.7	11.0	9.6	9.2	7.0	4.8	4.9	5.8	6.0	5.8	2.4	8.26	12.73
23-Oct	0.6	-0.9	-0.4	0.5	1.0	2.0	2.1	2.4	4.5	6.0	7.9	9.7	11.2	11.1	11.8	11.9	9.7	8.5	7.2	7.4	5.7	3.9	4.3	3.0	5.45	11.85
24-Oct	2.6	5.0	4.7	4.4	4.5	4.8	4.1	3.6	3.4	5.2	6.9	8.1	9.1	9.6	9.0	7.6	7.0	4.9	3.0	1.8	1.0	0.6	0.3	-0.4	4.62	9.65
25-Oct	-0.6	0.3	-1.3	-1.4	-3.1	-3.9	-3.6	-3.1	-0.3	1.3	4.7	8.4	9.6	10.4	10.4	9.6	7.9	5.5	3.9	2.9	2.2	2.4	2.6	2.2	2.79	10.41
26-Oct	2.4	1.4	2.4	1.9	1.8	3.0	3.6	3.8	4.4	5.6	7.1	7.4	7.1	7.1	6.5	5.6	4.9	4.2	3.2	2.1	1.9	1.8	2.1	1.8	3.88	7.38
27-Oct	1.5	1.2	1.1	0.6	0.0	-0.1	-0.4	-0.5	-0.3	0.8	1.6	2.7	3.4	3.9	4.6	4.3	3.3	1.4	0.8	0.9	-0.2	-0.4	-1.5	-2.5	1.09	4.56
28-Oct	-4.8	-3.0	-4.7	-5.5	-5.6	-4.2	-4.7	-3.8	-2.0	0.5	3.6	5.4	6.9	7.9	8.1	7.1	5.3	3.6	2.5	1.8	1.4	0.8	1.0	0.5	0.75	8.11
29-Oct	0.7	0.5	1.2	1.5	2.5	4.5	4.9	4.1	4.5	6.2	7.3	9.5	10.7	11.6	11.1	10.4	8.8	7.1	5.6	5.5	6.0	7.4	4.5	1.5	5.73	11.58
30-Oct	0.9	1.1	2.6	3.1	2.5	2.7	2.6	3.7	3.3	6.0	6.0	7.5	7.5	7.8	7.7	6.3	5.5	4.3	3.4	1.9	2.0	3.9	3.6	4.0	4.16	7.85
31-Oct	3.8	3.5	2.6	2.5	2.9	3.3	0.4	0.0	1.2	3.8	6.2	8.8	8.6	8.2	8.4	8.6	7.3	6.2	5.9	5.6	4.4	3.4	2.3	1.7	4.55	8.76
	4.59	4.41	4.24	3.75	3.66	3.56	3.35	3.67	5.20	7.34	9.40	11.21	12.62	13.27	13.22	12.61	11.45	9.70	8.19	7.23	6.56	6.14	5.62	4.82		Diurnal Average
	13.72	15.88	16.40	14.62	15.19	14.36	12.22	11.72	14.77	16.94	21.94	23.95	24.43	24.12	23.94	22.80	20.57	18.38	16.71	15.24	15.12	15.51	15.15	14.34		Diurnal Maximum

Maximum Value: 23.61 C on Oct 10 14:00      Maximum Daily Average: 18.44 C on Oct 10																								Hours in Service: 744 Hours of Data: 744 Hours of Missing Data: 0 Hours of Calibration: 0 Percent Operational Time: 100.0		
Minimum Value: -3.7 C on Oct 28 05:00      Minimum Daily Average: 1.04 C on Oct 28																										
Maximum Diurnal Average: 12.34 C at hour 15      Minimum Diurnal Average: 4.22 C at hour 8																										
Monthly Average: 7.706 C      Percentiles: P <sub>1</sub> = -2.1 P <sub>10</sub> = 1.2 Q <sub>1</sub> = 3.6 Median = 7.1 Q <sub>3</sub> = 11.2 P <sub>90</sub> = 15.5 P <sub>99</sub> = 22.5																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily Average	Daily Maximum
1-Oct	12.1	11.5	11.2	9.3	9.9	9.1	7.9	6.3	8.8	11.9	14.8	17.6	20.7	22.4	22.8	22.5	20.7	19.7	18.7	17.1	15.5	14.3	12.9	12.6	14.59	22.85
2-Oct	11.2	9.4	9.1	7.9	6.1	6.9	7.3	6.3	5.8	9.8	12.9	15.6	17.3	17.1	12.3	8.5	7.1	6.1	4.8	4.0	3.4	2.9	2.6	2.7	8.21	17.26
3-Oct	2.7	2.7	2.4	2.3	2.4	2.4	2.4	2.1	2.1	2.6	2.8	3.2	3.5	3.5	3.4	3.2	3.5	3.6	3.4	3.3	3.0	1.9	1.4	1.2	2.70	3.63
4-Oct	1.0	0.8	0.2	0.3	0.1	0.4	-0.1	0.0	0.3	0.8	1.6	2.3	3.5	4.6	5.1	5.4	5.5	4.9	3.5	2.0	0.8	0.2	-0.1	-0.1	1.78	5.48
5-Oct	-0.4	-0.7	-1.7	-2.0	-1.1	-0.4	-0.3	0.2	1.6	3.4	5.4	7.4	8.7	9.6	10.4	10.8	10.6	9.9	9.1	7.1	5.7	4.8	4.0	3.7	4.41	10.81
6-Oct	3.1	2.6	2.6	2.4	1.4	0.6	0.5	0.8	2.6	5.3	7.4	8.5	10.2	10.8	11.8	11.8	12.5	11.9	11.2	10.4	9.5	9.3	8.9	8.1	6.84	12.49
7-Oct	7.7	7.4	6.9	7.5	7.2	6.1	5.6	6.8	7.9	8.7	11.3	14.4	15.9	16.8	17.1	16.8	15.9	15.9	14.7	13.1	14.5	10.6	10.2	9.7	11.19	17.05
8-Oct	8.6	7.7	8.7	8.9	8.7	9.3	8.0	7.8	9.7	11.4	13.4	16.1	18.2	19.3	19.9	19.9	18.9	17.2	15.7	15.1	14.7	14.5	14.3	14.2	13.33	19.87
9-Oct	13.3	13.4	13.2	12.3	12.2	10.8	9.6	10.1	11.6	14.9	15.3	16.8	19.0	19.6	20.4	20.2	19.7	19.1	17.8	16.3	15.9	15.4	15.4	14.9	15.29	20.35
10-Oct	15.0	16.7	17.1	16.3	16.6	15.9	14.8	15.1	16.0	17.6	21.3	23.0	23.5	23.6	23.5	22.5	21.6	20.7	19.1	18.0	17.0	16.5	15.9	15.3	18.44	23.61
11-Oct	14.8	16.0	15.1	12.0	11.6	11.1	10.9	11.0	10.6	10.5	9.9	7.4	9.2	10.1	11.6	12.0	12.0	11.2	10.1	10.1	7.5	6.0	3.7	4.2	10.35	16.03
12-Oct	4.7	4.9	4.6	5.0	4.8	4.4	4.6	4.8	6.2	6.3	6.8	8.0	9.9	11.1	13.0	14.5	14.7	14.1	12.5	11.3	11.1	9.9	9.5	8.2	8.55	14.66
13-Oct	4.3	3.8	4.0	4.1	4.3	4.7	4.5	4.9	5.0	7.5	11.6	12.3	13.9	15.0	15.5	15.7	14.6	13.3	12.2	11.3	10.1	9.3	8.5	6.4	9.03	15.69
14-Oct	5.3	4.5	4.5	4.3	4.3	4.5	4.1	5.9	5.4	7.8	9.8	11.1	11.6	11.7	11.6	11.6	11.0	9.7	8.6	7.8	7.0	6.2	5.9	5.1	7.47	11.67
15-Oct	3.9	2.2	3.3	0.6	0.4	0.1	-0.4	-0.8	0.7	3.7	7.2	9.0	10.3	11.0	11.4	11.4	10.8	9.9	9.0	8.1	7.4	7.1	6.8	6.3	5.80	11.38
16-Oct	5.6	4.7	2.6	1.7	1.2	1.3	1.9	1.3	0.3	4.3	7.3	9.3	12.1	14.1	14.9	15.2	14.7	13.1	12.0	10.6	9.0	8.2	8.2	7.8	7.56	15.22
17-Oct	7.7	7.2	6.1	2.9	1.6	1.4	1.0	0.8	1.8	5.2	8.7	12.1	14.5	16.4	17.9	18.5	17.9	16.3	14.8	13.9	13.9	13.2	13.3	11.8	9.97	18.48
18-Oct	11.3	11.2	12.2	11.9	12.6	12.6	12.2	11.9	11.5	12.6	13.4	14.0	14.8	15.7	16.0	16.3	16.1	14.9	13.2	11.7	10.3	10.9	9.7	7.7	12.68	16.31
19-Oct	6.4	6.9	6.1	4.4	4.5	5.8	5.0	4.9	6.4	7.5	10.6	13.0	14.2	14.7	14.4	13.9	13.3	12.7	12.1	11.3	10.5	10.4	8.8	7.6	9.38	14.71
20-Oct	7.1	6.7	5.9	5.8	5.7	5.0	4.7	4.4	5.0	6.3	8.1	9.1	9.9	10.6	11.0	11.2	11.2	10.4	9.9	8.0	5.5	6.1	6.0	5.4	7.46	11.23
21-Oct	6.7	6.4	4.3	4.1	3.8	3.5	3.4	3.8	3.4	6.5	7.2	12.0	16.8	18.7	18.0	16.9	15.8	15.1	15.5	15.5	13.0	12.0	10.6	10.4	10.13	18.68
22-Oct	10.9	11.0	10.8	9.1	8.7	8.4	8.1	7.9	6.7	7.6	9.9	10.4	10.9	11.7	10.9	9.6	9.2	8.2	6.8	6.9	7.3	7.1	6.5	4.7	8.73	11.70
23-Oct	2.8	1.6	1.4	1.4	2.0	2.3	3.2	3.0	4.1	5.2	6.7	8.6	10.0	10.0	10.7	11.1	10.2	9.5	9.0	8.9	8.4	7.5	6.9	4.2	6.20	11.09
24-Oct	2.8	5.5	4.7	4.3	4.2	4.6	3.7	3.4	3.0	4.2	5.7	6.8	7.6	8.2	8.1	7.1	6.2	5.0	3.5	2.8	2.1	1.7	1.3	4.73	8.18	
25-Oct	1.0	1.7	1.4	1.0	-0.9	-2.1	-2.0	-2.0	-1.2	0.2	3.2	6.7	7.8	8.7	8.9	8.7	7.9	6.2	4.7	3.6	2.9	3.1	3.1	2.8	3.15	8.93
26-Oct	2.7	1.8	2.7	2.2	2.1	3.3	3.7	3.8	4.1	5.0	6.3	6.7	6.6	6.4	6.0	4.9	3.9	3.7	3.0	1.3	1.1	1.3	1.2	3.53	6.65	
27-Oct	1.3	1.0	0.7	0.1	-0.4	-0.5	-0.8	-1.0	-0.8	-0.1	0.5	1.4	2.1	2.8	3.5	3.6	3.3	2.5	2.1	1.9	1.7	0.9	0.4	-0.8	1.06	3.61
28-Oct	-2.6	-1.6	-2.0	-3.7	-3.7	-2.8	-3.4	-3.0	-2.1	-0.4	2.5	4.0	5.3	6.3	6.8	6.5	5.5	4.2	2.9	2.0	1.4	0.9	1.0	0.8	1.04	6.75
29-Oct	0.4	0.2	0.7	1.3	2.2	4.3	4.6	3.7	3.9	5.2	5.9	7.3	9.7	10.7	10.7	10.3	9.5	8.7	7.6	6.9	7.0	7.7	6.0	4.0	5.77	10.74
30-Oct	3.1	2.7	4.3	4.4	3.6	4.6	4.5	5.1	4.4	5.8	5.3	6.6	6.8	7.4	7.4	6.0	5.4	4.8	4.4	3.8	3.7	4.4	3.9	4.3	4.87	7.41
31-Oct	4.2	4.2	3.6	3.6	3.9	3.9	2.2	1.6	1.5	2.8	4.7	7.6	7.7	7.6	7.8	8.2	7.1	6.0	5.6	5.3	4.5	3.6	2.7	1.9	4.65	8.16
Diurnal Average 5.76 5.60 5.38 4.70 4.51 4.56 4.24 4.22 4.72 6.44 8.31 9.94 11.36 12.14 12.34 12.09 11.52 10.64 9.65 8.71 7.94 7.36 6.77 6.05																										
Diurnal Maximum 14.98 16.68 17.14 16.25 16.58 15.92 14.80 15.10 15.99 17.63 21.31 22.96 23.49 23.61 23.47 22.48 21.58 20.70 19.14 18.00 17.03 16.50 15.87 15.27																										



## WCAS - Genesee

### Summary of Hourly Averages

### **Delta Temperature (ET - D) - C**

October 2015

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	3.5	0.1	1.3	2.6	4.9	4.0	4.2	5.9	6.8	2.0	2.1	2.2	8.2	15.0	15.7	15.5	13.5	9.6	8.6	8.6	7.7	7.6	6.9	6.0	5.06	15.67	
Dir	SSW	S	E	SSW	WSW	NNW	N	SSW	SW	SSW	SE	SE	SE	SSE	SE	SSE	SSE	SE	SE	ESE	ESE	ESE	ESE	SSE	SSE	SSE	34.95
2 Spd	7.4	6.0	3.1	1.9	4.7	8.7	13.8	5.7	2.7	2.6	11.5	16.7	18.8	24.5	34.9	29.5	30.8	29.6	27.9	24.4	28.2	26.5	24.1	21.7	13.87	34.95	
Dir	ESE	E	NE	ESE	SSW	SW	WSW	WSW	S	W	NW	NNW	N	NNW	NW	NW	NNW	NW	WNW	NW	NW	NW	NW	NW	NW	NW	NW
3 Spd	20.7	20.1	24.2	24.4	20.0	19.2	21.1	23.2	17.8	17.1	18.6	19.0	19.3	18.4	16.1	13.9	14.0	12.6	8.7	11.5	12.0	10.6	8.6	4.9	16.31	24.38	
Dir	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW
4 Spd	5.5	4.3	4.9	2.0	2.2	1.5	4.9	5.2	4.2	5.3	10.0	11.0	10.0	11.8	14.8	15.7	15.2	12.1	8.6	6.5	5.9	4.7	4.1	6.5	5.84	15.67	
Dir	NE	NE	NE	ESE	SE	ENE	WSW	WSW	SW	SSE	SSE	SE	SE	SSE	SSE	SE	SE	SE	SE	SSE	SE	SSE	SE	SE	SSE	SE	SSE
5 Spd	4.3	4.2	5.2	8.0	10.1	14.4	18.3	17.4	11.1	12.3	14.1	14.8	12.6	10.8	9.7	7.2	4.6	1.9	2.8	4.6	5.5	5.7	4.9	4.3	6.29	18.27	
Dir	SE	NW	SW	WSW	W	WNW	NW	NW	NW	NNW	NNW	E	SE	S	SSW	SSW	SSW	WNW	WNW	WNW							
6 Spd	3.7	4.8	7.7	6.8	6.8	6.9	8.4	10.5	13.3	16.5	24.6	20.5	20.4	18.1	11.1	10.4	10.7	4.9	4.6	3.2	4.4	3.4	6.0	7.3	7.79	24.58	
Dir	SSE	SE	SE	ESE	E	E	E	ESE	SE	SE	SE	SE	ESE	E	SE	SE	E	SE	NNE	NNE	NNW	NNW	ESE	SE	SE	SE	
7 Spd	7.2	5.8	9.0	11.0	8.3	9.1	11.3	7.3	9.5	10.4	9.0	7.5	12.2	13.6	15.1	13.6	4.3	4.1	5.0	4.3	9.2	13.3	4.5	0.3	7.63	15.06	
Dir	WNW	W	W	W	WSW	WSW	W	WSW	W	WSW	SW	WSW	W	WNW	W	WNW	WNW	W	W	WSW	WSW	WSW	NW	ENE	W	WNW	WNW
8 Spd	3.2	5.2	4.6	6.7	2.0	3.7	7.7	6.8	12.3	7.4	7.0	2.4	3.7	5.3	7.0	9.1	12.2	11.3	7.7	5.2	6.3	7.6	9.2	11.6	4.56	12.27	
Dir	SSW	WSW	SW	SW	NW	WSW	SW	WSW	WSW	WNW	WNW	S	SSW	SSE	SSE	SE	SE	SE	SE	SSW	WSW	WSW	SSW	SSW	SSW	SSW	SSW
9 Spd	13.0	12.3	10.5	10.8	8.9	8.7	8.1	8.6	2.0	1.9	3.8	7.7	13.3	11.1	12.0	9.4	9.9	11.9	12.6	11.9	9.3	9.3	9.8	7.0	7.85	13.27	
Dir	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	S	SSE	SSE	SSE	SSW	S	S	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
10 Spd	13.5	13.1	14.1	12.6	19.0	19.1	14.2	15.0	15.5	15.1	22.6	29.5	29.5	27.0	28.1	23.9	11.3	3.3	7.3	4.3	10.7	20.8	16.5	13.7	16.13	29.54	
Dir	SW	W	W	WSW	WSW	WSW	SW	SW	SW																		
11 Spd	11.8	17.7	15.3	35.7	37.8	35.1	29.2	40.8	48.6	48.5	47.4	37.6	38.7	33.6	28.4	23.9	20.5	15.4	8.4	10.7	6.8	10.7	10.5	8.9	23.96	48.63	
Dir	WSW	W	W	WNW	NW	NNW	NNW	NNW	NNW	WNW	WNW	WSW	WSW	WSW	WSW	NW	NW	NW	NW								
12 Spd	6.0	5.3	7.8	7.7	9.7	12.3	11.4	8.3	8.8	14.3	10.1	2.5	6.1	7.0	8.0	13.8	15.8	16.0	14.7	16.9	17.2	13.4	12.0	10.8	8.86	17.22	
Dir	SSW	S	SSW	SSW	SSW	SSW	SW	SW	W	WNW	NW	NNW	SSW	SW	W	WSW	W	W	W	W	W	W	W	W	W	W	W
13 Spd	13.0	12.2	14.2	13.1	15.2	15.5	15.4	15.8	10.9	11.1	8.9	15.1	15.6	20.7	25.3	27.8	21.3	17.8	16.4	13.0	12.6	15.6	14.8	10.9	14.01	27.83	
Dir	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	WSW	W	WNW	WNW	WNW	WNW	NNW	NNW	NNW	NNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
14 Spd	10.0	10.9	10.1	13.7	13.5	11.2	11.3	11.4	7.5	14.0	19.1	28.8	34.5	34.9	28.7	25.8	23.8	15.6	14.2	13.4	10.9	9.9	11.6	14.1	13.23	34.86	
Dir	SW	SW	WSW	SW	SW	SW	SW	W	WSW	NW	NW	NW	NW	NW	NNW	NNW	NNW										
15 Spd	14.5	16.7	15.0	14.8	13.4	4.0	8.2	13.7	9.2	7.4	1.9	5.0	8.2	14.2	13.8	17.6	15.8	9.1	9.3	11.0	8.6	9.5	6.6	8.4	5.51	17.57	
Dir	W	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	SW	S	SSE	SSE	SSE	SSE	SE	ESE	S	SSE	SSE							
16 Spd	8.9	6.9	4.6	3.6	3.8	8.6	5.9	8.5	4.2	5.0	3.1	7.0	6.7	11.9	11.2	10.8	11.7	9.6	7.4	9.6	9.9	10.4	9.6	7.4	6.03	11.93	
Dir	SE	ESE	ESE	ENE	S	SSW	WSW	SW	WSW	SSW	SW	SSE	ESE	SE	SE	SE	SE	SE	SE	ESE	SE	SE	SSE	SSE	SSE	SSE	SSE
17 Spd	9.3	7.3	9.9	10.6	5.7	4.0	2.6	1.1	2.0	4.1	5.5	7.0	8.0	9.5	10.6	15.1	17.3	14.9	13.4	9.9	8.3	8.4	15.3	19.2	5.26	19.15	
Dir	SSE	ESE	E	E	ENE	NE	ENE	SSE	SE	SSE	SE	SSE	SSE	SE	SE	SE	SE	SE	SE								
18 Spd	12.8	14.0	13.0	12.2	14.0	13.4	12.0	11.6	10.0	12.7	14.9	12.0	10.6	8.6	3.6	2.4	4.6	4.4	4.9	6.6	7.1	7.9	0.4	4.6	6.79	14.89	
Dir	WNW	W	WNW	W	WNW	WNW	W	WNW	W	WNW	NW	WNW	NNW	NNW	NW	ENE	E	ESE	SE	SE	SW	SW	SSW	ENE	WNW	WNW	
19 Spd	1.6	2.3	0.8	1.5	7.5	4.9	2.2	0.6	2.7	5.9	10.4	15.7	18.3	22.4	18.7	13.9	12.6	8.0	10.5	7.5	6.1	20.6	30.2	22.3	3.12	30.23	
Dir	ESE	E	ESE	E	NNE	NNE	SSE	WSW	SSW	SSE	SSE	S	S	SSE	SSE	SE	ESE	ESE	SE	SE	SE	SE	SE	NW	NW	SSE	NW
20 Spd	14.6	16.6	15.4	15.9	12.0	10.2	14.6	10.6	12.1	9.9	18.8	21.3	24.5	18.1	17.5	13.5	11.7	7.1	6.8	7.0	5.7	6.6	6.9	6.2	11.43	24.46	
Dir	WNW	WNW	WNW	WNW	W	W	WNW	W	WNW	WNW	NW	NW	NW	WNW	WNW	W	WNW	W	WSW	SW	SSW	SW	SW	WNW	WNW	WNW	
21 Spd	4.8	0.3	1.7	0.9	3.2	3.3	2.8	4.9	3.1	1.6	6.9	7.8	10.6	14.6	11.0	9.0	5.2	2.9	4.8	11.3	16.5	19.2	23.8	20.4	2.26	23.75	
Dir	WSW	NE	E	SSE	SSW	WSW	SSW	SW	SW	E	SE	ESE	SE	SSE	SSE	SSE	S	W	WNW	WNW	NW	NW	NW	WSW	WNW	WNW	
22 Spd	14.0	13.4	12.6	14.0	14.9	17.9	14.5	12.2	10.7	6.6	8.1	10.9	9.9	8.1	12.6	14.6	12.9	9.7	11.8	11.2	12.9	11.3	13.8	10.2	10.33	17.87	
Dir	NW	NW	NW	W	WNW	WNW	NW	NW	W	W	W	WNW	NW	NW	WSW	SSW	SW	WSW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW



WCAS - Genesee

## **Summary of Hourly Averages**

## Wind Speed (WS) - kph

October 2015

Maximum Value: 93.66 % on Oct 29 10:00      Maximum Daily Average: 82.82 % on Oct 2																								Hours in Service: 744		
Minimum Value: 25.1 % on Oct 13 16:00      Minimum Daily Average: 42.52 % on Oct 10																								Hours of Data: 744		
Maximum Diurnal Average: 79.31 % at hour 7      Minimum Diurnal Average: 48.16 % at hour 15																								Hours of Missing Data: 0		
Monthly Average: 66.569 %      Percentiles: P <sub>1</sub> = 28.4 P <sub>10</sub> = 42.3 Q <sub>1</sub> = 54.5 Median = 68.0 Q <sub>3</sub> = 80.8 P <sub>90</sub> = 88.3 P <sub>99</sub> = 93.0																								Hours of Calibration: 0		
																									Percent Operational Time: 100.0	
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily Average	Daily Maximum
1-Oct	80.0	80.8	80.5	85.7	89.3	89.1	90.9	91.9	89.1	74.9	61.9	51.1	42.4	34.0	31.9	33.8	43.8	51.6	49.9	59.1	59.2	64.4	68.3	72.9	65.69	91.86
2-Oct	76.7	81.2	83.6	86.8	88.8	91.9	91.6	89.2	89.1	81.2	68.7	61.3	55.6	53.9	69.6	87.3	91.7	89.4	89.1	90.7	92.1	92.0	92.7	93.4	82.82	93.37
3-Oct	93.6	93.3	92.0	90.1	90.1	89.3	87.5	85.6	87.1	86.1	83.2	79.2	74.5	72.9	72.9	74.1	73.4	72.3	76.2	77.1	74.5	81.9	87.7	86.9	82.56	93.55
4-Oct	84.6	84.0	86.3	85.6	86.8	81.2	86.1	85.6	80.9	77.4	67.1	64.1	61.1	58.0	57.6	57.2	57.5	62.7	74.3	83.9	88.4	90.4	91.2	91.9	76.83	91.86
5-Oct	92.4	92.9	92.1	92.6	93.2	92.3	91.0	89.4	88.0	82.3	72.9	63.4	53.9	47.8	43.3	38.6	41.1	45.8	55.0	63.2	70.2	73.9	77.2	84.2	72.35	93.21
6-Oct	89.0	89.8	89.9	87.0	82.8	85.2	87.0	87.8	83.0	74.7	64.7	61.8	56.2	54.7	52.6	54.5	55.0	59.6	68.1	68.0	70.4	72.2	74.9	79.3	72.84	89.94
7-Oct	77.5	80.0	81.7	76.8	78.9	84.1	88.8	84.9	77.6	75.6	64.9	53.8	46.3	43.7	40.5	42.2	49.5	51.4	59.9	69.9	64.0	72.0	75.3	79.8	67.46	88.84
8-Oct	82.6	84.3	83.1	84.0	82.2	81.7	84.5	84.8	76.8	70.2	64.2	54.0	44.9	37.7	37.8	40.5	44.1	53.6	60.4	59.8	61.4	63.5	62.9	64.2	65.13	84.80
9-Oct	67.2	68.3	67.8	73.7	72.2	80.8	85.2	78.7	68.8	56.6	54.9	54.9	46.0	47.7	46.5	50.4	54.9	56.1	56.9	57.0	57.9	59.0	59.5	59.4	61.69	85.22
10-Oct	63.9	52.3	45.4	49.2	45.4	46.2	52.0	54.2	48.5	43.4	31.1	26.1	25.3	26.1	26.2	29.4	33.4	36.2	45.4	48.2	49.5	46.6	47.4	49.0	42.52	63.94
11-Oct	52.4	44.3	46.5	68.0	72.4	71.0	70.3	65.2	65.0	66.0	69.4	83.6	73.0	65.9	56.7	52.8	52.2	53.9	61.5	67.0	73.6	84.9	85.0	87.9	66.19	87.94
12-Oct	87.9	88.1	89.2	89.8	90.4	90.4	88.6	86.8	75.0	72.3	81.6	83.3	79.4	76.2	69.0	53.8	52.0	42.3	39.7	45.1	41.6	43.9	45.2	51.0	69.27	90.42
13-Oct	68.8	72.8	75.0	70.1	68.2	65.7	64.5	62.7	61.0	54.1	41.7	37.6	33.9	28.4	26.5	25.1	26.1	28.4	30.7	32.8	36.3	38.8	42.8	57.1	47.88	75.01
14-Oct	62.3	66.1	67.1	67.4	63.5	66.2	68.7	60.2	57.9	47.6	43.3	36.0	32.9	33.3	33.3	34.2	38.1	41.7	44.0	47.4	54.5	54.0	52.8	50.23	68.67	
15-Oct	58.0	69.7	63.2	76.2	78.7	78.7	78.1	79.2	71.3	59.1	49.8	40.5	35.6	33.2	33.3	34.6	38.7	47.4	51.1	50.7	51.7	52.1	54.7	57.9	55.97	79.21
16-Oct	64.9	69.4	72.3	76.5	82.4	82.7	79.9	80.9	81.6	65.5	52.5	49.2	43.2	35.2	35.2	36.0	39.0	48.8	55.1	58.4	62.9	67.3	70.1	68.6	61.56	82.68
17-Oct	73.2	71.0	70.1	74.2	79.7	79.7	81.8	85.4	84.3	73.6	59.6	48.6	40.1	36.0	34.5	34.7	38.2	47.6	56.9	65.0	66.8	64.5	58.0	56.7	61.67	85.40
18-Oct	57.3	62.6	59.8	61.4	60.0	59.2	61.7	61.3	61.6	54.6	49.7	47.2	44.0	38.9	37.9	39.1	40.8	49.1	58.8	62.8	68.6	68.7	71.6	74.0	56.28	74.03
19-Oct	79.0	81.7	80.1	83.5	82.4	80.0	79.2	83.6	82.3	73.2	66.5	52.7	45.2	42.3	43.9	49.3	50.2	54.4	54.7	60.8	65.9	67.8	80.9	90.0	67.90	90.03
20-Oct	91.1	90.0	88.8	87.4	85.9	86.1	82.7	81.7	79.4	75.9	65.5	55.3	44.9	41.4	40.0	39.8	36.9	41.4	47.0	58.5	71.4	72.6	71.7	77.4	67.20	91.13
21-Oct	73.2	72.4	78.4	82.9	83.3	88.0	80.1	81.5	83.3	73.4	73.1	60.0	44.6	36.2	41.9	49.8	54.8	57.0	53.9	51.3	63.3	59.6	62.5	60.4	65.21	88.03
22-Oct	60.1	61.0	60.4	64.8	64.7	65.2	66.9	73.0	70.8	66.7	55.5	51.7	47.7	42.3	50.3	55.4	58.7	64.8	73.0	64.6	57.7	50.2	49.1	59.6	59.76	73.02
23-Oct	70.5	75.2	76.7	75.4	71.0	67.9	65.4	65.0	59.2	54.6	48.3	42.6	35.9	36.6	34.7	37.6	40.3	43.4	42.6	47.0	56.7	59.2	64.4	54.26	76.71	
24-Oct	68.5	56.3	57.3	61.4	68.6	73.1	79.7	83.0	84.3	76.7	67.3	60.9	54.6	48.5	56.6	54.1	62.6	73.1	77.2	81.4	83.1	83.1	84.6	68.60	84.60	
25-Oct	84.9	84.3	83.3	85.5	89.1	91.3	92.1	92.6	92.4	91.8	89.2	72.1	57.6	53.4	52.4	54.8	59.0	68.4	77.2	81.1	82.9	83.5	78.7	78.9	78.19	92.61
26-Oct	76.7	80.3	77.0	77.8	77.9	74.5	71.4	71.8	71.1	68.4	62.8	62.7	74.2	82.1	84.7	89.2	87.8	80.3	83.9	90.0	89.5	89.5	88.0	87.7	79.14	90.02
27-Oct	83.8	79.6	76.2	73.8	76.7	75.7	73.8	75.2	73.2	70.7	68.2	65.5	61.9	58.5	55.3	54.7	56.4	62.5	66.8	64.8	66.8	65.0	73.6	75.8	68.95	83.82
28-Oct	84.1	81.5	83.0	87.6	90.0	88.8	88.4	89.7	87.9	82.5	72.1	56.0	50.6	47.9	47.8	50.3	56.3	63.3	67.4	69.8	71.2	75.7	76.1	78.4	72.77	89.99
29-Oct	79.9	80.4	80.2	83.1	84.5	92.0	92.6	93.1	93.6	93.7	91.8	85.6	78.0	70.7	70.5	71.5	76.1	80.9	87.6	84.3	77.3	58.8	63.4	77.4	81.12	93.66
30-Oct	79.9	80.5	74.3	71.5	74.0	73.3	72.0	64.8	67.4	58.0	66.5	59.4	57.6	59.2	63.4	83.3	90.1	90.8	90.9	89.1	91.0	83.9	78.0	70.5	74.56	91.01
31-Oct	67.5	66.1	69.4	69.2	66.3	63.7	75.9	80.8	76.9	71.0	66.9	58.5	51.3	53.3	54.4	52.6	56.2	61.9	66.1	67.4	72.0	75.6	80.8	85.4	67.05	85.37
75.22 75.49 75.19 77.39 78.05 78.55 79.31 79.02 76.40 70.05 63.70 57.37 51.36 48.32 48.16 50.22 52.89 56.86 61.80 64.65 66.90 68.15 69.78 72.82																								Diurnal Average		
93.55 93.29 92.14 92.59 93.21 92.31 92.63 93.09 93.60 93.66 91.79 85.55 79.37 82.07 84.74 89.21 91.66 90.76 90.91 90.75 92.07 92.68 93.37																								Diurnal Maximum		

Maximum Value: 600.03 W/m <sup>2</sup> on Oct 4 13:00      Maximum Daily Average: 158.35 W/m <sup>2</sup> on Oct 5 Minimum Value: 0.0 W/m <sup>2</sup> on Oct 1 01:00      Minimum Daily Average: 25.74 W/m <sup>2</sup> on Oct 26 Maximum Diurnal Average: 412.04 W/m <sup>2</sup> at hour 13      Minimum Diurnal Average: 0.00 W/m <sup>2</sup> at hour 1 Monthly Average: 97.014 W/m <sup>2</sup> Percentiles: P <sub>1</sub> = 0.0 P <sub>10</sub> = 0.0 Q <sub>1</sub> = 0.0 Median = 0.0 Q <sub>3</sub> = 147.4 P <sub>90</sub> = 385.8 P <sub>99</sub> = 535.7																								Hours in Service: 744 Hours of Data: 744 Hours of Missing Data: 0 Hours of Calibration: 0 Percent Operational Time: 100.0		
Day																									Daily Average	Daily Maximum
1-Oct																									153.60	577.32
2-Oct																									105.79	525.22
3-Oct																									60.77	362.38
4-Oct																									134.93	600.03
5-Oct																									158.35	573.04
6-Oct																									98.80	435.09
7-Oct																									107.00	503.71
8-Oct																									127.44	541.13
9-Oct																									74.74	317.65
10-Oct																									123.84	527.96
11-Oct																									52.87	207.65
12-Oct																									78.86	392.26
13-Oct																									133.97	524.08
14-Oct																									123.70	505.13
15-Oct																									131.59	505.05
16-Oct																									127.26	491.33
17-Oct																									124.13	485.89
18-Oct																									102.79	435.49
19-Oct																									64.26	437.64
20-Oct																									114.72	463.24
21-Oct																									86.03	437.53
22-Oct																									69.59	361.62
23-Oct																									91.53	380.15
24-Oct																									96.13	449.22
25-Oct																									102.34	430.70
26-Oct																									25.74	163.12
27-Oct																									91.25	448.32
28-Oct																									95.07	424.18
29-Oct																									51.17	294.84
30-Oct																									30.30	185.50
31-Oct																									68.91	374.15
0.00 0.00 0.00 0.00 0.00 0.08 29.92 120.01 217.87 318.52 380.77 412.04 357.47 242.79 159.95 75.43 12.93 0.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00																									Diurnal Average	
0.00 0.00 0.00 0.00 0.00 1.53 142.47 249.64 386.14 493.45 558.68 600.03 566.52 444.28 328.47 177.30 73.55 17.96 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00																									Diurnal Maximum	

Maximum Value: 14.62 kph on Oct 19 22:00      Maximum Daily Average: 5.90 kph on Oct 11 Minimum Value: 0.3 kph on Oct 1 02:00      Minimum Daily Average: 1.95 kph on Oct 16 Maximum Diurnal Average: 4.03 kph at hour 14      Minimum Diurnal Average: 2.07 kph at hour 19 Monthly Average: 2.791 kph      Percentiles: P <sub>1</sub> = 0.8 P <sub>10</sub> = 1.2 Q <sub>1</sub> = 1.7 Median = 2.4 Q <sub>3</sub> = 3.5 P <sub>90</sub> = 4.8 P <sub>99</sub> = 7.8																								Hours in Service: 744 Hours of Data: 744 Hours of Missing Data: 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-Oct	0.9	0.3	1.2	1.7	3.3	4.2	2.8	2.4	1.6	2.2	2.0	2.3	5.6	4.9	3.8	3.1	2.1	1.8	2.3	1.5	1.0	1.1	1.0	1.4	2.27	5.59
2-Oct	1.6	3.9	1.7	1.5	1.7	1.5	2.1	3.3	1.8	2.1	3.5	4.3	3.9	5.2	6.2	5.0	6.4	7.4	6.6	4.8	5.6	5.3	4.5	3.7	3.90	7.41
3-Oct	4.4	3.6	6.1	5.2	5.0	4.2	5.1	5.0	3.7	3.6	3.9	4.2	3.7	3.7	3.1	2.5	2.9	3.2	1.4	2.2	2.5	2.1	1.0	1.0	3.47	6.14
4-Oct	1.0	1.3	1.5	1.9	1.9	1.3	1.4	1.7	1.4	3.5	3.7	4.1	4.0	3.7	4.0	3.5	2.7	2.3	1.4	1.2	1.1	1.2	1.0	1.3	2.18	4.14
5-Oct	1.7	1.5	1.0	1.5	4.3	2.6	3.3	3.1	2.7	2.6	3.2	3.3	4.2	4.1	3.6	3.1	1.7	1.6	1.3	0.8	0.8	0.9	0.6	1.2	2.27	4.30
6-Oct	1.0	1.3	1.2	1.2	1.1	1.4	1.5	2.1	2.7	5.5	4.6	3.8	4.0	3.8	2.9	2.6	3.1	2.3	1.2	1.9	1.4	1.5	1.2	1.7	2.30	5.52
7-Oct	3.0	3.1	1.8	2.0	1.8	2.3	1.7	2.4	2.3	2.3	2.0	2.7	3.3	4.2	3.6	4.0	2.3	2.3	1.4	2.9	2.0	3.2	2.4	2.2	2.55	4.21
8-Oct	2.7	3.1	2.3	2.7	2.4	2.9	2.1	2.3	3.6	2.5	1.8	2.9	2.9	3.5	3.3	2.8	1.8	1.4	1.6	1.3	1.9	1.9	1.3	1.7	2.37	3.60
9-Oct	0.8	1.0	1.2	3.0	3.8	1.5	3.8	3.3	2.0	1.8	1.6	2.7	2.8	2.9	2.7	1.3	2.8	1.7	2.1	2.5	1.8	1.9	1.2	1.2	2.14	3.82
10-Oct	2.9	2.8	3.2	2.9	3.1	2.3	2.0	1.2	1.7	2.1	4.9	4.8	5.7	5.8	5.1	4.7	4.3	2.8	1.6	1.1	6.0	4.2	4.0	2.0	3.38	6.04
11-Oct	2.1	4.1	4.8	7.9	7.2	7.3	6.5	10.5	9.6	11.2	11.1	8.3	8.1	8.9	6.4	5.3	5.1	4.6	1.4	1.5	1.7	2.6	3.1	2.3	5.90	11.15
12-Oct	1.0	1.5	1.7	1.1	2.0	0.9	1.7	1.0	1.6	4.2	6.0	2.5	3.2	4.6	3.3	3.8	4.8	4.7	3.4	2.5	3.4	2.5	2.1	1.7	2.72	6.04
13-Oct	1.7	2.0	1.8	2.0	1.8	1.4	1.5	1.9	3.2	2.1	4.8	3.4	4.3	5.4	5.7	6.0	4.7	3.2	2.6	1.9	2.2	2.9	2.3	2.1	2.95	5.97
14-Oct	1.3	2.6	1.8	2.3	1.7	1.4	1.4	1.9	3.8	3.0	5.1	6.3	6.7	7.0	5.6	5.2	4.5	3.9	2.7	3.3	1.6	1.6	1.3	2.1	3.26	7.00
15-Oct	2.1	1.3	1.7	0.9	1.3	4.3	2.6	1.3	2.3	2.4	2.2	2.3	4.4	4.5	3.8	3.7	3.9	1.2	1.2	1.6	2.0	2.0	2.1	2.38	4.52	
16-Oct	2.0	2.4	1.2	2.2	3.0	1.6	2.0	2.0	1.1	1.9	2.1	2.2	3.4	3.1	2.7	2.6	2.3	1.3	1.0	1.4	1.9	1.1	1.0	1.2	1.95	3.42
17-Oct	1.7	1.1	2.3	2.4	1.5	1.2	1.5	1.3	1.6	1.4	1.9	2.3	2.8	2.6	3.1	3.1	2.6	1.6	1.2	1.3	1.1	4.1	4.7	3.3	2.15	4.70
18-Oct	2.9	1.5	2.1	2.1	3.3	2.5	1.7	2.1	1.7	3.1	3.5	2.9	3.5	4.4	4.0	2.0	1.2	1.0	0.8	2.3	1.3	1.8	1.0	1.9	2.27	4.40
19-Oct	1.6	2.0	1.3	2.2	2.8	2.5	2.1	2.1	1.6	1.3	2.8	2.9	3.9	3.8	3.3	3.0	3.7	1.5	2.5	1.9	1.9	14.6	8.3	3.9	3.23	14.62
20-Oct	3.0	3.2	2.8	2.8	2.6	2.5	3.0	2.8	3.2	3.1	6.1	4.1	3.9	3.6	4.0	2.9	2.9	2.0	2.0	2.6	1.3	1.2	1.0	1.0	2.82	6.07
21-Oct	1.5	1.7	1.7	1.4	1.3	2.6	1.7	1.4	2.0	1.9	3.1	3.3	2.7	2.7	2.0	1.3	1.3	1.8	2.3	4.6	2.4	3.4	3.9	3.9	2.32	4.57
22-Oct	2.5	2.2	2.3	2.1	2.5	2.7	2.6	1.7	2.2	3.2	2.4	3.2	2.5	5.0	2.7	2.6	1.1	1.5	1.5	2.3	2.0	3.1	1.4	2.42	5.02	
23-Oct	2.4	1.6	2.0	1.3	1.0	1.5	1.2	1.5	1.8	4.3	2.6	2.5	3.8	3.5	3.6	3.5	2.3	1.8	2.5	1.1	1.0	2.0	1.1	3.2	2.21	4.25
24-Oct	3.4	2.1	2.5	3.1	3.1	2.5	2.5	2.6	2.0	2.4	3.3	3.5	3.1	3.2	2.6	4.0	2.0	1.5	1.0	1.5	1.3	1.4	0.8	1.2	2.36	4.02
25-Oct	2.4	1.8	2.9	3.2	1.2	2.2	1.9	1.8	1.0	1.9	2.0	3.9	3.8	3.6	4.4	3.8	3.4	2.8	2.0	2.0	2.4	2.3	3.3	2.58	4.35	
26-Oct	3.2	3.6	3.6	2.5	3.6	4.1	4.1	4.2	3.1	3.8	3.3	3.5	2.1	2.6	2.6	2.0	2.4	6.8	4.0	5.0	6.9	5.7	6.3	7.2	4.00	7.16
27-Oct	7.3	6.6	6.5	6.4	5.4	6.4	6.8	5.9	6.0	5.9	5.8	5.1	4.8	4.4	4.6	3.9	3.4	1.9	1.6	1.2	2.7	3.8	2.4	3.1	4.66	7.29
28-Oct	3.4	2.0	1.1	0.9	1.1	1.2	1.6	2.2	1.3	2.1	4.0	3.6	3.6	3.9	3.4	3.5	3.3	2.1	1.9	2.0	1.2	2.2	3.3	1.2	2.33	4.03
29-Oct	1.2	0.7	1.2	1.8	2.1	3.0	1.7	2.3	2.8	3.5	1.9	2.3	2.4	2.5	2.2	2.1	1.0	1.0	0.7	1.2	2.5	3.1	2.8	1.4	1.98	3.46
30-Oct	1.1	1.0	1.5	1.9	1.7	1.8	1.3	2.0	2.9	2.2	3.3	1.6	5.1	3.6	2.9	3.6	1.8	1.0	3.8	2.2	2.3	2.9	2.6	3.9	2.42	5.15
31-Oct	3.1	2.2	2.6	1.8	2.3	2.2	2.3	1.7	2.1	1.4	4.2	3.2	2.9	3.7	5.2	4.8	3.7	3.5	3.0	3.9	2.6	1.6	1.4	2.81	5.16	
																									Diurnal Average	
																									Diurnal Maximum	

Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ul/m^3    24-hr 100 ul/m^3

Maximum Value: 92.89 deg on Oct 8 00:00      Maximum Daily Average: 27.19 deg on Oct 1 Minimum Value: 2.4 deg on Oct 24 23:00      Minimum Daily Average: 9.95 deg on Oct 27 Maximum Diurnal Average: 20.91 deg at hour 11      Minimum Diurnal Average: 11.54 deg at hour 20 Monthly Average: 16.138 deg      Percentiles: $P_1 = 4.0$ $P_{10} = 6.8$ $Q_1 = 8.6$ Median = 11.5 $Q_3 = 18.2$ $P_{90} = 30.0$ $P_{99} = 75.6$																								Hours in Service: 744 Hours of Data: 744 Hours of Missing Data: 0 Hours of Calibration: 0 Percent Operational Time: 100.0		
Day	Hourly Period Ending At																								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-Oct	10.2	45.2	48.0	14.9	48.9	72.5	70.8	47.2	8.6	47.5	31.9	47.1	33.6	18.8	17.5	12.0	7.9	11.4	11.2	11.5	7.9	10.6	8.4	9.1	27.19	72.54
2-Oct	7.2	47.4	42.3	60.4	19.4	8.4	5.8	27.3	20.0	54.8	13.2	15.9	21.0	22.6	13.4	9.2	10.6	9.3	13.8	9.0	8.4	8.2	8.4	8.4	19.35	60.42
3-Oct	10.0	9.3	11.7	12.1	12.6	13.2	10.7	13.8	15.7	13.3	12.9	15.3	18.0	15.6	18.5	19.1	18.0	17.9	12.1	9.9	15.0	5.1	6.9	13.5	13.35	19.12
4-Oct	14.9	17.7	21.5	33.9	39.8	68.5	20.8	14.7	30.5	24.3	23.6	22.5	24.2	24.0	17.1	11.4	13.3	8.9	8.2	7.5	12.2	4.6	9.5	4.4	19.92	68.52
5-Oct	10.6	43.9	8.1	6.6	14.4	9.7	10.1	8.9	11.8	11.4	13.5	13.4	17.4	25.0	21.5	25.8	34.3	16.8	12.4	13.5	7.3	13.0	5.2	13.2	15.32	43.89
6-Oct	8.4	7.7	6.8	14.6	11.7	13.7	10.2	9.6	11.2	18.2	9.7	10.3	12.8	9.9	19.1	14.1	14.0	21.2	16.1	45.6	25.8	32.3	19.6	20.4	15.95	45.64
7-Oct	23.8	32.8	21.0	13.2	16.7	14.1	8.1	27.9	27.3	9.8	16.6	31.9	16.8	21.1	21.8	20.0	29.1	16.8	32.8	13.5	2.7	17.7	55.9	92.9	24.34	92.89
8-Oct	54.6	19.9	18.3	10.9	62.0	46.7	10.3	14.5	15.1	34.5	24.3	73.0	49.5	33.3	40.2	11.4	6.6	6.3	7.0	13.4	13.8	22.2	10.3	6.2	25.17	73.00
9-Oct	5.8	7.8	10.9	7.9	13.5	9.7	23.4	13.8	80.8	28.6	26.4	21.6	11.6	6.7	16.7	8.9	14.1	6.9	8.0	6.1	9.4	6.4	9.6	10.0	15.19	80.79
10-Oct	12.1	9.5	10.3	11.2	6.9	6.2	5.1	5.4	4.6	5.8	8.1	9.0	10.4	14.1	12.4	7.9	12.8	32.3	16.6	34.6	22.3	10.3	13.8	10.3	12.17	34.62
11-Oct	15.8	10.6	10.9	15.4	8.7	7.4	8.7	8.6	9.2	9.0	9.5	7.6	8.4	9.4	9.2	11.1	15.8	10.4	13.9	7.3	29.8	7.2	14.3	8.3	11.11	29.79
12-Oct	13.7	13.4	11.1	13.9	7.8	5.8	9.8	6.9	14.3	16.1	46.6	67.1	29.1	33.2	27.6	15.7	11.6	12.4	9.2	6.8	9.5	8.9	8.7	21.4	17.53	67.08
13-Oct	6.7	7.3	5.7	6.4	5.4	5.7	6.3	7.5	20.6	12.2	37.4	13.3	15.6	14.7	12.4	10.2	10.0	8.4	9.4	7.4	9.1	8.8	9.2	7.4	10.70	37.40
14-Oct	5.0	5.5	8.3	6.3	3.4	4.8	9.2	16.0	31.7	10.6	14.1	11.2	9.5	9.5	9.7	10.0	9.1	10.6	8.0	7.6	8.4	18.1	8.0	11.1	10.23	31.75
15-Oct	17.5	10.1	9.5	7.1	4.9	63.4	11.9	4.6	11.4	12.0	80.4	27.8	25.7	26.1	20.3	14.9	7.0	7.7	6.6	7.6	9.8	9.1	19.0	13.7	17.84	80.37
16-Oct	7.7	33.1	26.5	24.4	16.0	13.0	6.8	13.3	11.2	19.9	41.9	20.2	30.4	20.1	15.2	11.7	8.3	6.4	5.7	7.0	8.8	7.2	13.0	7.6	15.64	41.95
17-Oct	9.9	13.4	6.7	8.1	11.8	13.5	23.9	25.0	30.6	24.2	20.4	19.7	19.1	22.1	15.1	11.7	7.2	5.6	5.2	7.1	4.5	23.3	23.0	13.2	15.17	30.62
18-Oct	22.9	6.9	13.1	10.1	9.1	8.7	8.4	8.9	9.3	12.1	13.6	18.7	24.6	46.2	81.7	57.4	15.5	21.1	15.9	16.9	6.4	5.7	47.7	8.3	20.39	81.73
19-Oct	26.0	28.3	35.2	37.5	26.3	36.6	30.0	85.3	28.1	9.2	8.5	8.7	9.0	9.0	8.6	8.9	9.8	12.5	9.2	8.9	15.6	48.1	9.5	6.7	21.47	85.29
20-Oct	11.3	8.5	9.9	8.5	11.5	11.2	10.6	14.9	12.6	17.4	13.2	10.2	9.5	16.4	14.5	12.8	10.1	15.9	25.1	20.7	15.5	9.0	9.4	10.3	12.88	25.13
21-Oct	19.1	77.9	67.7	30.4	16.1	52.0	34.7	26.4	38.2	21.0	13.0	18.7	21.7	11.6	7.4	6.2	15.8	10.5	26.3	18.1	10.5	13.3	6.0	5.9	23.70	77.92
22-Oct	7.3	11.5	11.1	6.2	8.9	10.5	6.2	6.1	22.9	21.8	30.2	15.2	25.4	26.8	30.8	17.7	8.7	6.2	5.8	4.4	8.7	8.8	11.0	16.9	13.73	30.83
23-Oct	7.3	5.2	5.7	2.9	3.8	8.2	6.2	7.3	7.8	13.7	14.2	14.2	20.1	20.1	27.8	33.0	37.5	80.6	48.3	7.8	11.6	16.0	3.2	33.7	18.18	80.57
24-Oct	23.6	9.0	8.6	8.4	11.7	11.9	9.9	9.5	7.7	9.9	14.7	14.0	21.4	24.9	14.5	10.3	16.2	32.6	6.2	4.6	5.0	6.1	2.4	4.0	11.96	32.63
25-Oct	8.6	7.2	30.5	51.8	62.4	20.7	16.6	13.9	13.4	11.8	12.7	14.6	11.5	11.7	14.0	10.9	9.5	9.0	7.6	7.5	8.5	8.7	8.6	10.4	15.92	62.39
26-Oct	12.3	11.5	7.3	8.7	11.4	10.4	10.8	9.9	9.5	14.2	10.8	12.9	18.3	14.9	60.5	8.0	11.2	14.6	9.6	7.9	7.7	7.4	8.0	8.1	12.74	60.51
27-Oct	8.3	8.4	7.9	7.2	7.8	7.2	7.7	7.2	7.6	8.8	9.1	10.0	7.9	8.5	8.4	8.0	6.6	18.5	7.4	5.8	10.8	20.3	9.5	30.0	9.95	29.97
28-Oct	14.5	5.0	11.1	13.5	10.9	9.5	18.5	10.2	16.3	10.6	9.8	10.1	13.2	12.3	16.3	10.1	8.7	7.3	10.3	9.7	11.4	18.3	9.4	10.2	11.55	18.53
29-Oct	17.1	15.6	14.1	12.4	8.1	12.4	13.5	25.9	27.0	18.8	7.1	9.3	8.2	9.5	9.8	14.0	6.3	6.7	9.6	5.5	10.1	8.5	19.2	9.5	12.42	27.02
30-Oct	5.7	3.1	8.3	10.0	8.4	19.9	17.8	11.8	14.0	11.5	28.7	23.9	48.6	46.9	11.9	8.6	22.7	14.5	15.7	10.9	8.2	11.5	9.9	10.7	15.97	48.58
31-Oct	12.1	7.6	11.1	5.3	8.5	7.9	10.7	11.4	5.8	11.2	32.3	10.7	10.1	11.3	10.5	11.2	12.8	12.1	17.7	13.6	39.1	14.4	14.5	15.6	13.23	39.15
Diurnal Average 13.87 17.44 16.76 15.50 16.42 19.46 14.63 16.57 18.54 17.55 20.91 19.93 19.43 19.23 20.14 14.27 13.59 15.20 13.25 11.54 12.06 13.20 13.26 14.56 54.60 77.92 67.71 60.42 62.39 72.54 70.78 85.29 80.79 54.79 80.37 73.00 49.48 46.90 81.73 57.38 37.50 80.57 48.28 45.64 39.15 48.12 55.88 92.89																									Diurnal Maximum	
,Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- $\mu\text{g}/\text{m}^3$ 24-hr $100 \mu\text{g}/\text{m}^3$																										

**WEST CENTRAL AIRSHED SOCIETY**

**CONTINUOUS AMBIENT AIR QUALITY  
MONITORING PROGRAM  
MONTHLY REPORT**

**END OF REPORT  
OCTOBER 2015**