

Capital Power

**AIR QUALITY MONITORING
June 2015
Monthly Report**

Prepared by:

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





June 15th, 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 June 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 SO₂, NO₂ and PM_{2.5}.

2. Operational times less than 90 percent:

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

3. Monitoring Notes:

AMS 910 (Genesee)

All analyzers and meteorological equipment returned uptimes of 99.7% in June due to power outage. In addition, the PM_{2.5} analyzer experienced unstable operation, returning an uptime of 96.7%. Rise in PM concentrations measured at the end of June are associated with forest fire activity around the province, with similar trends captured at monitoring stations across central and northern Alberta.

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".

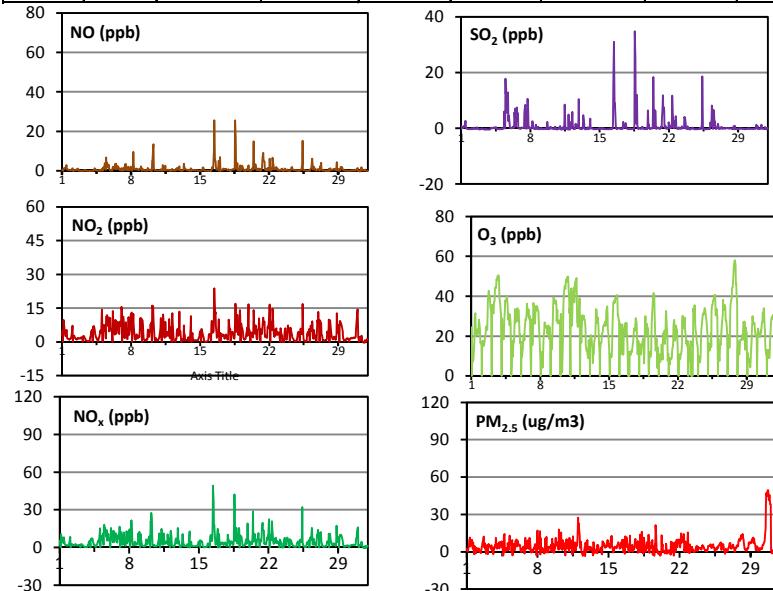
Robert Scotten
Executive Director

A handwritten signature in black ink, appearing to read "P. Andersen".

Patrick Andersen
Environmental Specialist

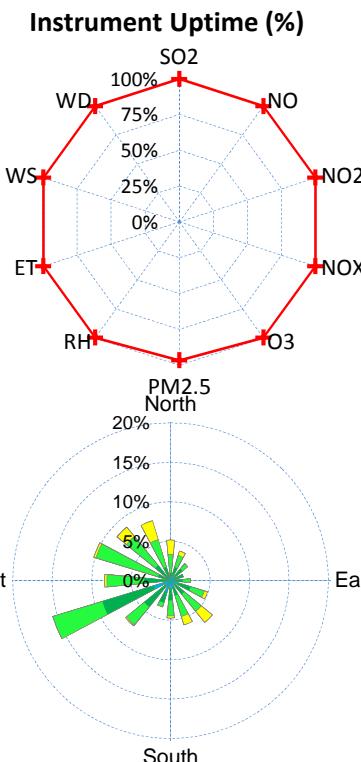
WCAS - June 2015 Genesee Summary Report

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 ₂	ppb	0.8	99.7%	1.7	Jun-22	48	0	34.7	Jun-18 14:00	172	0
NO	ppb	1.1	99.7%	4.0	Jun-16	-	-	25.6	Jun-16 11:00	-	-
NO ₂	ppb	4.2	99.7%	8	Jun-5	-	-	23.8	Jun-16 11:00	159	0
NO _x	ppb	5.3	99.7%	11.7	Jun-16	-	-	49.2	Jun-16 11:00	-	-
O ₃	ppb	24	99.7%	41	Jun-3	-	-	58	Jun-27 20:00	82	0
PM _{2.5}	µg/m ³	5	96.5%	25	Jun-30	30	0	49	Jun-30 18:00	-	-

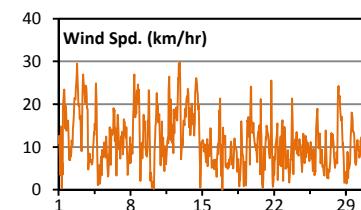


Monthly Summary

- * 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 June 2015.
- * All compliance parameters are above 90% operational for the month of June 2015.
- * Routine calibration was performed on June 23, 2015.



Wind Rose (km/hr)



WEST CENTRAL AIRSHED SOCIETY

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

**AMS 910
GENESEE
JUNE 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														
Parameter	June 2015													24 Hour Average Max (ppm)
	Calibration Hours	Number of Data	Percent Uptime	Mean	Total	Min	Max	P10	Q1	Percentile Median	Q3	P90		
SO ₂ (ppb)	35	683	99.7	1.0	-	0.0	34.7	0.0	0.0	0.0	0.4	2.6	0.004	
O ₃ (ppb)	35	683	99.7	24.4	-	1.5	58.1	10.7	16.1	23.9	31.6	39.1	0.041	
NO (ppb)	35	683	99.7	1.1	-	0.0	25.6	0.1	0.2	0.5	1.1	2.3	-	
NO ₂ (ppb)	35	683	99.7	4.3	-	0.0	23.8	0.7	1.5	3.4	6.0	9.6	0.008	
NO _x (ppb)	35	683	99.7	5.4	-	0.2	49.2	1.0	1.9	3.9	7.1	11.2	-	
Particulate Matter 2.5 microns (µ/m ³)	6	690	96.7	5.3	-	0.0	49.4	0.0	1.7	3.9	6.9	10.4	25.4 ug/m3	
Wind Speed (kph)	0	718	99.7	11.3	-	0.1	29.8	4.3	6.8	10.4	15.0	20.1	-	
Temperature - 2m (°C)	0	718	99.7	16.6	-	4.3	31.3	9.0	11.9	16.4	20.8	24.3	-	
Temperature - 10m (°C)	0	718	99.7	16.2	-	4.7	29.8	9.3	11.9	16.2	19.9	23.2	-	
Delta Temperature (°C)	0	718	99.7	-0.4	-	-3.8	4.0	-2.1	-1.6	-0.7	0.5	1.8	-	
Relative Humidity (%)	0	718	99.7	58.7	-	21.8	93.9	29.9	39.9	59.8	77.3	88.1	-	
Global Solar Radiation (W/m ²)	0	718	99.7	260.6	-	0.0	971.7	0.0	0.0	131.6	453.5	739.5	-	
Precipitation (mm)	0	718	99.7	-	3.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	-	
Std Dev Wind Direction (deg)	0	718	99.7	23.4	-	2.9	102.7	8.8	11.5	17.7	29.0	47.4	-	
Std Dev Wind Speed (kph)	0	718	99.7	3.3	-	0.4	18.0	1.4	2.1	3.1	4.4	5.2	-	

Maximum Value: 34.74 ppb on Jun 18 14:00 Maximum Daily Average: 4.37 ppb on Jun 5																								Hours in Service: 720 Hours of Data: 683 Hours of Missing Data: 37 Hours of Calibration: 35 Percent Operational Time: 99.7		
Minimum Value: 0.0 ppb on Jun 1 01:00 Minimum Daily Average: 0.00 ppb on Jun 3																										
Maximum Diurnal Average: 2.85 ppb at hour 10 Minimum Diurnal Average: 0.10 ppb at hour 23																										
Monthly Average: 1.015 ppb Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.0 Q ₃ = 0.4 P ₉₀ = 2.6 P ₉₉ = 17.6																										
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-Jun	0.0	0.7	Z	0.1	0.1	0.4	0.7	0.6	0.8	1.4	2.7	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	0.35	2.67
2-Jun	0.0	0.0	Z	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.39
3-Jun	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	0.01
4-Jun	0.2	0.1	Z	0.1	0.0	0.0	0.2	0.4	0.0	0.1	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.49
5-Jun	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	6.0	1.9	0.0	17.8	12.4	14.4	8.5	8.4	5.4	12.9	2.5	4.6	4.0	1.6	0.1	0.0	4.37	17.80
6-Jun	0.0	0.1	Z	0.2	0.2	0.6	0.2	0.1	0.5	5.7	2.6	7.1	0.6	4.9	3.8	7.4	2.8	5.4	0.3	0.0	0.0	0.0	0.0	0.0	1.85	7.42
7-Jun	0.0	0.0	Z	0.3	0.1	0.1	0.2	0.0	0.2	5.6	6.8	8.4	1.1	0.0	0.0	0.0	3.1	10.6	6.0	0.1	0.0	0.4	0.0	0.0	1.86	10.58
8-Jun	0.0	0.0	Z	0.2	2.5	1.9	1.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.39	2.53
9-Jun	0.0	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	2.1	2.3	0.0	0.0	0.0	0.0	0.0	0.20	0.29
10-Jun	0.5	0.4	Z	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.7	0.13	0.75
11-Jun	0.8	0.0	Z	0.0	0.0	0.0	0.4	0.0	0.0	0.0	2.0	8.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	4.9	1.1	0.0	0.0	0.0	0.81	8.56
12-Jun	0.0	1.4	Z	2.5	1.0	5.9	1.6	0.4	0.0	0.0	0.0	0.0	0.0	1.7	0.4	1.1	1.3	1.1	0.1	0.2	2.5	10.5	0.3	0.0	1.38	10.48
13-Jun	0.0	0.0	Z	0.0	0.0	0.0	0.0	1.2	4.7	3.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.48	4.71
14-Jun	1.9	3.5	Z	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	3.48
15-Jun	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.2	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	0.0	0.0	0.0	0.01	0.18
16-Jun	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	1.6	15.7	31.0	18.7	7.4	8.9	3.2	0.2	0.0	0.0	0.0	0.0	0.0	0.1	PF	PF	4.13	30.96
17-Jun	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	1.0	2.3	0.7	0.1	0.4	0.6	1.2	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	2.27
18-Jun	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	34.7	25.1	4.6	1.9	1.6	11.9	1.7	0.0	0.0	0.3	0.0	3.63	34.74
19-Jun	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.9	6.4	0.5	1.3	0.45	6.43	
20-Jun	0.4	0.0	Z	0.0	0.0	0.1	0.0	0.1	0.0	6.7	18.4	2.1	0.2	4.2	6.6	6.0	0.5	0.0	0.0	0.3	0.4	0.3	0.1	0.0	2.02	18.41
21-Jun	0.0	0.0	Z	0.0	0.0	0.6	0.4	3.5	7.8	11.8	7.2	7.6	6.5	0.2	0.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.2	11.84	
22-Jun	1.4	1.4	Z	0.8	0.7	0.4	0.1	1.2	11.7	4.8	3.3	1.2	0.0	2.5	2.4	0.6	4.4	3.1	0.2	0.0	0.0	0.0	0.0	0.0	1.76	11.70
23-Jun	0.4	0.0	Z	0.0	0.0	0.0	0.0	0.7	C	C	C	C	C	4.0	3.6	3.9	1.9	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.85	4.05
24-Jun	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.22	
25-Jun	0.0	0.0	Z	0.0	0.2	0.0	0.0	0.0	3.2	18.6	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	0.0	0.99	18.60
26-Jun	0.0	0.0	Z	0.0	2.1	1.8	0.7	3.5	8.1	4.5	0.0	0.0	6.6	5.2	1.3	2.5	1.5	0.0	0.0	0.0	0.0	0.2	0.7	1.7	1.77	8.14
27-Jun	0.3	0.0	Z	0.0	0.0	0.0	0.2	0.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.08	0.46	
28-Jun	0.0	0.0	Z	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.7	0.0	0.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.91
29-Jun	0.0	0.0	Z	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	0.0	0.0	0.0	0.0	0.00	0.06
30-Jun	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	0.8	1.2	0.7	0.5	0.8	0.18	1.24
	0.19	0.25	--	0.14	0.23	0.39	0.22	0.45	1.60	2.85	2.65	2.50	1.34	2.78	1.89	1.29	0.90	1.23	0.72	0.27	0.46	0.74	0.10	0.24	Diurnal Average	
	1.87	3.48	--	2.48	2.53	5.87	1.85	3.51	11.70	18.60	30.96	18.68	12.41	34.74	25.12	8.41	5.37	12.87	11.91	4.64	4.90	10.48	0.71	2.24	Diurnal Maximum	
Z - zerospan C - Calibration PF - Power Failure Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb																										

Maximum Value: 58.08 ppb on Jun 27 20:00 Maximum Daily Average: 40.88 ppb on Jun 3																								Hours in Service: 720		
Minimum Value: 1.5 ppb on Jun 22 03:00 Minimum Daily Average: 16.00 ppb on Jun 21																								Hours of Data: 683		
Maximum Diurnal Average: 32.00 ppb at hour 17 Minimum Diurnal Average: 13.19 ppb at hour 6																								Hours of Missing Data: 37		
Monthly Average: 24.378 ppb Percentiles: $P_1 = 4.4$ $P_{10} = 10.7$ $Q_1 = 16.1$ Median = 23.9 $Q_3 = 31.6$ $P_{90} = 39.1$ $P_{99} = 50.3$																								Hours of Calibration: 35		
																									Percent Operational Time: 99.7	
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-Jun	24.5	Z	13.5	7.3	7.8	8.7	14.9	18.9	29.2	31.5	20.0	21.0	21.3	21.0	21.4	23.5	21.3	24.9	28.3	26.8	24.2	19.0	16.4	16.9	20.10	31.53
2-Jun	15.5	Z	14.6	17.6	16.5	14.9	15.4	16.5	17.3	19.2	21.4	24.6	24.7	24.9	23.2	29.5	37.6	41.8	42.7	40.8	40.9	37.4	34.3	33.4	26.29	42.75
3-Jun	34.6	Z	35.7	34.0	32.3	31.5	31.3	36.8	38.0	43.2	44.4	44.0	45.2	48.4	48.0	49.7	50.3	50.5	50.4	46.7	40.0	37.9	35.4	32.0	40.88	50.47
4-Jun	31.3	Z	28.9	24.2	21.2	18.7	18.3	20.4	27.9	32.1	38.0	37.6	37.6	38.8	39.9	39.3	34.2	29.3	28.1	31.2	27.5	25.4	30.7	26.3	29.86	39.88
5-Jun	14.7	Z	5.3	17.0	17.9	9.5	17.3	16.8	17.9	24.8	33.5	26.6	29.4	30.4	31.6	27.7	34.0	27.5	33.2	32.3	25.6	20.6	20.8	16.4	23.09	34.03
6-Jun	17.4	Z	12.1	9.7	12.4	13.1	17.7	20.7	20.3	17.8	23.3	27.3	28.6	28.2	31.0	36.3	34.5	30.3	31.2	33.4	28.7	30.2	30.1	26.0	24.36	36.31
7-Jun	13.0	Z	19.5	28.5	15.4	17.4	22.9	36.6	35.0	28.6	26.9	26.2	33.3	35.0	32.7	34.9	34.1	33.0	32.5	27.5	24.0	17.1	12.2	27.00	36.65	
8-Jun	8.7	Z	4.4	12.0	11.6	4.2	9.1	13.9	18.9	22.5	26.8	26.8	24.8	25.3	24.1	25.0	25.1	21.1	22.4	25.2	25.2	20.8	18.5	24.4	19.17	26.84
9-Jun	17.3	Z	18.2	13.1	14.2	18.3	28.3	35.7	39.3	39.2	37.5	37.8	36.3	37.8	37.2	36.1	27.4	33.1	26.4	26.6	27.7	27.0	26.8	26.4	29.03	39.27
10-Jun	27.9	Z	31.1	12.5	14.5	1.7	7.7	21.5	36.2	39.2	42.9	45.3	45.1	43.7	48.3	47.3	47.0	49.2	49.1	50.0	49.2	44.6	39.1	31.5	35.85	50.00
11-Jun	34.2	Z	39.1	43.9	40.4	25.2	33.0	42.2	40.2	44.2	41.6	36.9	45.8	47.3	47.6	47.5	49.1	38.4	27.1	24.5	26.3	26.4	33.0	38.8	37.95	49.10
12-Jun	39.0	Z	30.1	24.0	16.7	23.1	30.2	30.6	29.3	29.2	30.1	28.2	28.4	26.4	24.1	15.4	13.1	12.6	13.5	11.3	9.5	8.8	18.0	14.4	21.98	38.98
13-Jun	17.7	Z	18.4	20.6	20.0	19.0	17.0	13.5	6.5	10.7	10.9	16.6	17.7	18.1	21.4	27.2	33.6	33.3	26.7	26.8	29.4	26.3	23.3	17.9	20.55	33.56
14-Jun	11.2	Z	12.8	15.5	16.7	16.7	20.5	21.2	22.2	24.2	25.4	25.7	26.0	25.0	27.1	25.2	26.6	32.2	34.1	34.9	30.2	23.0	20.6	16.3	23.18	34.89
15-Jun	13.8	Z	11.0	9.8	10.0	9.3	9.9	13.5	22.0	32.7	36.5	37.5	37.8	36.6	38.2	39.0	39.1	38.8	39.3	40.6	36.6	30.3	30.7	27.6	27.85	40.58
16-Jun	27.8	Z	26.3	21.5	18.0	10.9	22.8	25.9	25.6	18.8	10.7	15.1	23.9	21.3	26.1	20.7	26.5	23.9	26.6	23.2	15.9	9.8	PF	PF	21.01	27.81
17-Jun	12.0	Z	11.8	11.4	10.6	10.6	12.8	11.9	13.3	14.8	17.1	19.7	22.2	23.9	22.6	22.8	25.9	29.1	27.3	26.3	18.9	10.9	14.1	17.7	17.72	29.14
18-Jun	16.3	Z	14.4	16.1	15.3	12.0	10.7	13.2	15.9	17.1	17.7	18.8	16.8	6.2	11.3	26.4	30.1	29.3	21.6	20.6	26.1	23.8	24.2	21.3	18.49	30.11
19-Jun	5.8	Z	12.0	11.3	9.5	9.7	10.8	18.6	26.2	33.3	35.9	39.6	41.6	39.9	40.9	31.7	19.1	12.7	13.2	18.9	14.2	4.1	14.5	12.0	20.67	41.62
20-Jun	10.3	Z	9.6	10.7	6.9	7.4	9.1	11.8	15.7	14.1	8.1	19.4	21.4	17.4	19.0	22.8	16.0	20.5	29.0	32.6	25.0	23.6	18.6	7.8	16.38	32.58
21-Jun	11.0	Z	4.8	7.0	5.9	9.2	8.6	8.4	9.0	9.3	13.3	14.6	16.5	25.0	28.0	26.2	24.3	17.7	23.8	25.1	23.5	23.3	19.3	14.3	16.00	28.04
22-Jun	2.1	Z	1.5	9.3	11.0	8.5	9.7	10.6	12.1	13.8	20.6	30.3	29.7	27.1	24.0	26.8	29.3	23.6	21.8	19.9	16.2	17.5	15.1	17.7	17.31	30.26
23-Jun	13.6	Z	8.7	7.6	8.6	14.1	15.4	17.4	C	C	C	C	C	33.9	32.1	32.1	35.5	34.1	25.6	23.2	21.0	19.0	16.9	15.3	20.78	35.50
24-Jun	13.7	Z	10.1	7.7	7.8	6.7	8.2	10.9	18.5	23.0	26.2	27.9	30.0	30.9	31.5	30.9	33.0	34.0	33.9	31.6	30.2	27.6	26.2	22.9	22.76	33.98
25-Jun	19.7	Z	16.0	16.4	14.9	12.7	15.0	15.3	21.5	14.5	32.9	35.7	35.7	37.0	38.1	38.3	40.2	40.7	36.0	30.3	32.6	33.5	31.5	28.22	40.65	
26-Jun	29.6	Z	18.8	18.3	9.3	7.5	12.9	16.2	15.7	18.8	22.8	26.2	28.1	30.8	38.2	33.5	33.3	35.0	35.6	34.2	27.9	27.9	27.2	24.1	24.87	38.23
27-Jun	19.2	Z	20.6	14.3	15.9	14.1	14.3	28.5	35.3	37.7	38.0	39.4	44.1	44.3	47.3	50.3	54.9	57.2	57.8	58.1	55.7	46.2	46.4	41.4	38.30	58.08
28-Jun	35.7	Z	14.2	17.3	14.1	10.6	10.8	17.1	18.1	18.2	18.3	18.2	20.6	20.5	18.1	24.8	27.2	25.2	27.3	24.4	13.3	24.3	20.3	22.2	20.04	35.72
29-Jun	18.1	Z	11.6	7.8	8.7	8.9	8.7	7.0	4.4	7.1	11.2	16.9	23.0	27.1	30.1	26.1	26.5	26.3	26.6	24.2	22.7	20.6	20.6	20.1	17.58	30.11
30-Jun	19.3	Z	21.7	23.7	22.7	20.9	20.6	19.6	19.5	20.7	23.1	21.8	26.2	26.9	26.9	31.8	30.7	34.1	32.8	24.2	23.1	15.0	13.0	10.6	23.00	34.08
	19.17	--	16.56	16.34	14.90	13.19	16.13	19.71	22.44	24.14	26.04	27.78	29.72	29.96	31.00	31.63	32.00	31.34	30.97	30.21	27.07	24.26	24.31	22.06	Diurnal Average	
	38.98	--	39.10	43.93	40.38	31.47	33.00	42.20	40.19	44.16	44.43	45.29	45.81	48.43	48.30	50.25	54.94	57.20	57.83	58.08	55.69	46.17	46.42	41.44	Diurnal Maximum	
Z - zerospan C - Calibration PF - Power Failure Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 82.5 ppb 24-hr -- ppb																										

Maximum Value: 25.64 ppb on Jun 16 11:00																				Maximum Daily Average: 4.01 ppb on Jun 16				Hours in Service: 720			
Minimum Value: 0.0 ppb on Jun 3 22:00																				Hours of Data: 683							
Maximum Diurnal Average: 2.42 ppb at hour 10																				Hours of Missing Data: 37							
Monthly Average: 1.091 ppb																				Hours of Calibration: 35							
Percentiles: $P_1 = 0.0$ $P_{10} = 0.1$ $Q_1 = 0.2$ Median = 0.5 $Q_3 = 1.1$ $P_{90} = 2.3$ $P_{99} = 12.9$																				Percent Operational Time: 99.7							
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-Jun	0.4	0.5	Z	1.1	1.1	1.3	1.4	1.7	1.3	1.2	2.9	1.3	0.7	0.5	0.5	0.7	0.5	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.85	2.88	
2-Jun	0.7	1.3	Z	0.0	0.1	0.1	0.1	0.4	0.5	0.5	0.6	0.5	0.6	0.7	1.2	0.6	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.38	1.34	
3-Jun	0.1	0.1	Z	0.1	0.1	0.1	0.4	0.5	0.3	0.3	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.47	
4-Jun	0.0	0.0	Z	0.0	0.0	0.5	0.4	1.3	1.2	0.9	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.0	0.4	0.34	1.33		
5-Jun	0.6	1.0	Z	1.5	0.4	1.8	1.6	2.6	3.9	1.8	0.5	6.9	3.7	4.1	2.7	3.3	1.6	3.1	0.8	0.8	0.6	0.1	0.2	0.4	1.92	6.88	
6-Jun	0.5	0.2	Z	2.1	1.2	1.8	2.0	1.6	1.0	3.6	1.8	3.7	0.7	2.4	1.6	2.5	1.3	1.8	0.8	0.6	1.0	0.5	0.4	0.8	1.46	3.67	
7-Jun	1.4	0.7	Z	0.3	0.5	1.5	1.6	0.3	0.5	3.2	2.9	3.4	0.7	0.4	0.4	0.3	1.1	2.2	1.3	0.3	0.6	0.6	0.7	2.2	1.18	3.42	
8-Jun	2.0	1.8	Z	0.7	0.8	9.5	3.6	1.8	0.9	0.6	0.6	0.7	0.7	1.2	0.7	0.6	0.7	0.5	0.6	0.5	1.1	1.1	1.0	1.41	9.53		
9-Jun	2.3	0.7	Z	1.2	0.7	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.4	0.2	1.5	1.1	0.5	0.4	0.6	0.4	0.7	0.60	2.30			
10-Jun	0.0	0.2	Z	5.0	5.5	11.9	13.4	2.4	0.7	0.3	0.2	0.3	0.4	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.5	1.84	13.40			
11-Jun	0.8	0.3	Z	0.2	0.2	2.9	2.0	0.5	0.7	0.4	1.1	2.6	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.4	0.1	0.2	0.71	2.93		
12-Jun	0.1	0.5	Z	1.0	0.6	0.6	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.8	0.7	1.4	1.5	1.3	0.6	0.5	1.0	2.3	0.3	0.3	0.67	2.32	
13-Jun	0.2	0.2	Z	0.1	0.1	0.1	0.2	1.0	3.6	2.3	1.6	0.7	0.8	0.8	0.5	0.5	0.6	0.4	0.5	0.1	0.0	0.1	0.2	0.66	3.60		
14-Jun	0.6	1.3	Z	0.6	0.5	0.6	0.6	0.4	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.2	0.37	1.31		
15-Jun	0.3	0.2	Z	0.2	0.3	0.8	1.7	1.8	1.1	0.3	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.31	1.77		
16-Jun	0.0	0.0	Z	0.4	0.7	1.7	1.0	1.5	2.4	10.6	25.6	16.9	5.4	5.2	2.1	1.0	0.5	0.6	0.7	0.6	2.3	5.0	PF	PF	4.01	25.64	
17-Jun	7.0	1.1	Z	0.6	0.5	0.5	0.4	0.8	1.1	1.2	0.9	0.7	1.0	0.8	0.9	1.0	0.9	0.4	0.4	0.4	0.5	0.8	0.4	0.2	0.98	7.01	
18-Jun	0.1	0.4	Z	0.2	0.2	0.7	0.8	0.9	0.8	0.7	0.7	0.8	1.9	25.6	16.6	3.1	1.0	0.9	3.9	0.9	0.2	0.2	0.2	0.2	2.64	25.57	
19-Jun	1.8	2.7	Z	1.7	1.9	2.1	2.6	1.6	1.1	0.4	0.3	0.2	0.1	0.1	0.4	0.9	0.7	0.4	0.3	0.4	2.8	0.3	0.5	1.03	2.80		
20-Jun	0.3	0.1	Z	0.1	0.2	0.8	1.3	1.1	0.7	5.3	14.9	2.2	1.0	2.7	3.5	2.8	1.2	0.5	0.3	0.3	1.1	1.1	0.3	1.2	1.87	14.91	
21-Jun	0.5	0.5	Z	0.9	0.3	0.9	1.2	4.2	7.0	9.1	5.3	5.0	4.7	0.8	0.6	0.9	0.6	0.8	0.5	1.0	1.5	0.3	0.4	0.7	2.07	9.12	
22-Jun	0.7	6.3	Z	1.4	0.4	0.6	0.6	0.9	6.7	3.2	3.2	1.2	0.7	1.5	1.4	0.8	1.9	1.9	0.9	0.7	1.1	0.4	0.3	0.4	1.61	6.67	
23-Jun	0.4	0.3	Z	0.8	0.4	0.5	0.6	1.1	C	C	C	C	C	1.2	1.2	0.8	0.3	0.2	0.1	0.1	0.7	0.3	0.1	0.1	0.50	1.17	
24-Jun	0.1	0.2	Z	0.2	0.2	1.1	1.6	1.9	0.9	0.9	0.6	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.0	0.0	0.49	1.94		
25-Jun	0.1	0.2	Z	0.2	0.6	0.4	0.6	1.3	3.4	15.3	1.1	0.4	0.4	0.3	0.3	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.1	0.13	15.32		
26-Jun	0.2	0.1	Z	0.2	0.8	1.1	1.4	2.3	6.3	3.8	0.7	0.6	2.2	1.9	0.6	1.1	0.9	0.3	0.2	0.2	0.5	0.7	0.9	0.8	1.21	6.26	
27-Jun	0.9	0.9	Z	1.0	2.4	2.0	4.1	0.7	0.5	0.5	0.3	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.65	4.07	
28-Jun	0.0	1.0	Z	1.2	1.4	0.8	0.8	0.6	0.5	0.6	0.7	0.7	1.1	0.7	0.9	0.7	0.5	0.4	0.9	4.4	0.4	1.2	0.5	0.90	4.42		
29-Jun	0.2	0.7	Z	0.9	0.4	0.5	1.9	2.0	2.0	1.9	1.0	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.62	1.99	
30-Jun	0.1	0.1	Z	0.0	0.1	0.0	0.1	0.2	0.2	0.3	0.3	0.4	0.2	0.3	0.2	0.2	0.2	0.3	0.7	0.5	0.6	0.8	1.5	0.33	1.54		
	0.74	0.78	--	0.80	0.74	1.59	1.63	1.27	1.72	2.42	2.39	1.78	1.01	1.82	1.28	0.84	0.66	0.67	0.51	0.40	0.64	0.65	0.31	0.49	Diurnal Average		
	7.01	6.25	--	4.98	5.46	11.90	13.40	4.23	6.97	15.32	25.64	16.95	5.37	25.57	16.59	3.27	1.86	3.11	3.93	1.02	4.42	4.99	1.21	2.19	Diurnal Maximum		
Z - zerospan C - Calibration PF - Power Failure Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ppb 24-hr --- ppb																											

Maximum Value: 23.78 ppb on Jun 16 11:00																				Maximum Daily Average: 8.04 ppb on Jun 5				Hours in Service: 720							
Minimum Value: 0.0 ppb on Jun 15 13:00												Minimum Daily Average: 1.48 ppb on Jun 3												Hours of Data: 683							
Maximum Diurnal Average: 6.72 ppb at hour 4												Minimum Diurnal Average: 2.45 ppb at hour 19												Hours of Missing Data: 37							
Monthly Average: 4.326 ppb												Percentiles: P ₁ = 0.2 P ₁₀ = 0.7 Q ₁ = 1.5 Median = 3.4 Q ₃ = 6.0 P ₉₀ = 9.6 P ₉₉ = 16.1												Hours of Calibration: 35							
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-Jun	2.8	5.2	Z	9.8	7.7	7.1	3.9	3.5	2.5	2.6	5.4	4.7	2.0	1.5	1.2	1.4	1.3	1.1	1.0	1.1	1.5	1.7	2.1	3.1	3.23	9.84					
2-Jun	5.1	7.2	Z	2.7	2.5	2.8	2.5	2.0	1.7	1.5	1.5	0.9	1.3	1.5	1.8	1.6	1.4	1.5	1.6	1.6	1.6	1.5	2.0	2.1	2.17	7.23					
3-Jun	1.8	1.8	Z	2.5	2.7	2.5	2.1	1.6	1.2	0.8	0.7	0.4	0.3	0.4	0.3	0.1	0.2	0.3	0.4	0.8	2.0	2.7	4.3	3.8	1.48	4.32					
4-Jun	5.4	4.1	Z	6.8	6.6	7.1	6.4	5.7	3.3	3.0	2.0	1.8	1.5	0.9	0.7	0.3	0.8	1.7	2.4	3.3	3.8	5.1	4.1	5.3	3.57	7.12					
5-Jun	10.8	14.4	Z	7.6	5.7	7.5	4.9	5.3	7.4	3.3	1.5	11.3	11.0	11.9	10.3	10.1	6.9	10.9	4.6	7.3	9.9	10.6	5.8	5.9	8.04	14.38					
6-Jun	4.5	5.1	Z	13.7	9.9	9.5	6.7	5.2	3.3	9.8	6.3	9.3	3.6	7.3	6.7	8.9	6.3	7.5	4.3	3.5	9.0	8.3	7.1	8.2	7.12	13.73					
7-Jun	15.6	13.4	Z	10.0	11.3	11.1	7.6	2.0	1.7	6.8	6.9	8.8	2.9	1.4	1.3	1.2	4.4	11.1	8.6	3.2	5.2	5.3	9.9	12.2	7.04	15.62					
8-Jun	12.4	13.0	Z	7.5	8.5	12.5	7.6	3.9	1.8	1.2	1.0	1.3	1.6	3.4	1.9	1.5	2.3	2.0	2.9	2.4	2.0	7.5	10.6	5.5	4.98	13.04					
9-Jun	10.5	7.1	Z	9.8	7.0	4.5	2.0	1.1	0.8	0.7	0.8	0.5	0.6	0.5	1.5	1.1	4.6	5.6	3.0	2.3	2.4	4.1	5.8	7.9	3.66	10.48					
10-Jun	6.6	8.8	Z	16.1	15.1	15.8	10.2	7.4	2.4	1.0	0.8	1.3	1.7	1.1	0.6	0.7	0.5	0.6	1.0	1.5	1.9	3.2	5.0	6.6	4.78	16.15					
11-Jun	10.6	2.4	Z	3.5	3.0	12.2	10.5	2.6	3.5	1.8	4.0	8.9	3.4	2.5	2.5	3.4	4.5	4.1	3.6	2.7	10.2	7.3	1.7	2.9	4.86	12.19					
12-Jun	2.2	6.8	Z	10.4	12.8	8.7	3.3	1.5	1.0	0.7	0.3	0.2	0.2	1.6	1.6	4.8	5.9	5.7	3.0	2.7	5.7	13.5	3.5	4.8	4.39	13.49					
13-Jun	3.0	1.6	Z	1.2	0.7	0.7	0.7	1.8	7.3	3.7	2.9	0.5	0.9	1.0	0.8	0.6	0.7	0.8	0.6	2.2	0.8	0.5	0.6	1.4	1.53	7.31					
14-Jun	6.3	11.5	Z	3.5	3.4	4.0	1.6	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.6	0.7	0.6	0.7	0.8	0.8	1.8	2.0	3.4	4.4	2.20	11.48					
15-Jun	4.8	4.1	Z	5.8	4.8	3.8	3.5	2.7	1.8	0.6	0.4	0.1	0.0	0.2	0.1	0.2	0.2	0.3	0.3	0.6	1.4	3.4	3.5	3.0	1.97	5.85					
16-Jun	2.8	1.9	Z	7.9	9.4	8.2	4.1	4.1	4.8	14.2	23.8	19.3	12.5	13.3	7.0	3.9	1.8	2.2	2.8	3.7	7.2	10.0	PF	PF	7.85	23.78					
17-Jun	4.0	3.9	Z	3.7	3.4	2.8	2.5	3.2	3.2	3.1	2.2	1.4	2.0	2.5	2.9	3.4	2.7	1.5	1.1	1.0	3.6	9.9	8.8	5.5	3.40	9.93					
18-Jun	4.7	5.7	Z	4.0	3.7	4.2	4.5	4.0	2.9	2.0	1.5	1.4	3.4	17.0	15.8	6.3	4.7	4.4	12.0	6.0	3.2	3.6	3.4	3.5	5.29	17.01					
19-Jun	14.2	11.7	Z	8.3	7.4	6.4	6.2	4.9	3.5	1.9	1.2	1.0	1.3	1.4	2.4	3.7	5.0	6.3	2.6	5.5	16.7	4.6	5.5	5.33	16.73						
20-Jun	4.6	2.8	Z	3.6	4.3	3.8	3.0	2.3	1.9	5.7	14.2	6.2	3.7	5.6	7.3	6.6	3.9	1.8	1.2	5.3	5.8	6.8	10.5	4.89	14.23						
21-Jun	6.7	5.2	Z	5.7	4.7	3.9	3.5	5.6	9.2	10.8	9.0	8.8	9.0	3.2	2.1	2.8	2.2	2.3	1.9	5.2	6.8	6.0	8.1	10.2	5.77	10.81					
22-Jun	16.2	16.5	Z	9.1	7.4	6.9	5.4	5.3	14.7	9.7	6.5	3.7	2.2	4.1	5.5	3.0	5.8	6.1	3.8	3.1	4.3	3.9	3.3	3.6	6.53	16.55					
23-Jun	4.2	1.9	Z	6.0	5.5	4.1	2.8	2.8	C	C	C	C	4.9	4.9	6.1	3.1	1.0	1.0	1.6	4.3	7.3	5.6	4.8	4.01	7.33						
24-Jun	4.7	6.0	Z	6.4	5.5	5.0	3.6	3.0	1.8	1.7	1.3	1.0	0.7	0.4	0.3	0.5	0.3	0.3	0.3	0.9	2.4	3.9	3.9	4.6	2.54	6.44					
25-Jun	4.4	3.5	Z	5.4	6.0	5.3	3.5	3.5	4.1	16.8	3.2	1.3	0.8	0.5	0.3	0.5	0.2	0.1	0.2	0.8	3.5	4.1	4.6	2.8	3.28	16.82					
26-Jun	3.8	5.8	Z	1.5	7.2	7.2	4.8	5.2	9.2	7.7	2.5	1.4	4.8	5.2	2.4	3.0	2.2	0.6	0.5	1.0	5.1	9.6	8.3	13.3	4.89	13.29					
27-Jun	9.3	8.0	Z	9.6	9.5	8.1	8.2	3.6	2.6	1.8	0.7	0.7	0.5	0.7	0.6	0.7	0.7	0.6	1.0	1.7	4.7	3.9	4.4	3.58	9.62						
28-Jun	4.3	9.9	Z	9.1	9.6	6.3	4.7	3.4	2.2	1.6	1.3	1.1	1.6	2.3	1.2	2.1	2.0	0.9	0.9	3.4	12.8	4.0	5.0	3.9	4.07	12.79					
29-Jun	5.3	7.6	Z	8.9	9.3	8.7	8.2	7.9	7.1	6.1	5.0	2.9	1.5	1.1	0.4	0.7	0.9	0.8	0.7	1.2	1.4	1.7	1.4	1.4	3.92	9.29					
30-Jun	1.5	1.2	Z	1.3	1.4	1.6	1.5	1.9	1.9	1.6	1.7	1.8	1.9	2.0	1.7	1.6	1.9	1.9	2.1	5.9	7.8	11.8	13.7	14.5	3.66	14.47					
	6.43	6.61	--	6.72	6.53	6.41	4.66	3.58	3.77	4.23	3.76	3.54	2.67	3.33	2.86	2.68	2.55	2.78	2.45	2.50	4.46	5.99	5.21	5.71	Diurnal Average						
	16.22	16.55	--	16.15	15.08	15.82	10.54	7.95	14.70	16.82	23.78	19.32	12.48	17.01	15.76	10.09	6.95	11.10	12.00	7.25	12.79	16.73	13.65	14.47	Diurnal Maximum						
Z - zerospan C - Calibration PF - Power Failure Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb 24-hr 106 ppb																															

Maximum Value: 49.24 ppb on Jun 16 11:00 Maximum Daily Average: 11.75 ppb on Jun 16																								Hours in Service: 720		
Minimum Value: 0.2 ppb on Jun 15 13:00 Minimum Daily Average: 1.60 ppb on Jun 3																								Hours of Data: 683		
Maximum Diurnal Average: 7.93 ppb at hour 6 Minimum Diurnal Average: 2.91 ppb at hour 20																								Hours of Missing Data: 37		
Monthly Average: 5.391 ppb																								Hours of Calibration: 35		
Percentiles: P ₁ = 0.4 P ₁₀ = 1.0 Q ₁ = 1.9 Median = 3.9 Q ₃ = 7.1 P ₉₀ = 11.2 P ₉₉ = 27.3																								Percent Operational Time: 99.7		
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-Jun	3.1	5.6	Z	10.8	8.7	8.4	5.2	5.1	3.7	3.8	8.2	5.9	2.7	2.1	1.8	2.2	1.8	1.5	1.5	1.5	1.9	2.0	2.4	3.5	4.06	10.79
2-Jun	5.7	8.5	Z	2.7	2.5	2.9	2.5	2.3	2.1	1.9	2.1	1.4	1.9	2.3	3.0	2.2	1.6	1.7	1.8	1.8	1.7	1.6	2.1	2.1	2.54	8.50
3-Jun	1.9	1.9	Z	2.5	2.7	2.6	2.5	2.1	1.5	1.1	0.9	0.6	0.5	0.6	0.5	0.3	0.3	0.4	0.5	0.9	2.0	2.6	4.3	3.7	1.60	4.31
4-Jun	5.3	4.0	Z	6.6	6.4	7.5	6.7	6.9	4.4	3.9	2.4	2.2	1.9	1.2	0.9	0.5	1.0	2.0	2.7	3.6	4.1	5.6	4.1	5.7	3.90	7.51
5-Jun	11.2	15.3	Z	9.0	6.0	9.3	6.4	7.8	11.2	5.2	2.1	18.1	14.7	15.9	12.9	13.3	8.5	13.9	5.4	8.0	10.5	10.7	6.0	6.3	9.91	18.08
6-Jun	5.0	5.4	Z	15.7	11.0	11.2	8.6	6.8	4.2	13.2	8.0	12.9	4.3	9.6	8.2	11.3	7.4	9.2	5.0	4.0	9.9	8.6	7.3	8.8	8.50	15.66
7-Jun	16.8	13.9	Z	10.1	11.6	12.3	9.0	2.3	2.2	9.9	9.7	12.1	3.6	1.8	1.7	1.5	5.3	13.1	9.7	3.4	5.7	5.8	10.4	14.2	8.09	16.75
8-Jun	14.3	14.6	Z	8.1	9.1	21.8	11.0	5.7	2.7	1.9	1.7	2.0	2.3	4.6	2.6	2.2	3.0	2.5	3.6	2.9	2.5	8.4	11.6	6.4	6.33	21.85
9-Jun	12.6	7.7	Z	10.8	7.6	4.9	2.4	1.3	1.1	1.0	1.1	0.8	0.8	1.9	1.4	6.1	6.6	3.6	2.7	2.8	4.7	6.2	8.5	4.24	12.61	
10-Jun	6.5	8.9	Z	21.0	20.5	27.7	23.5	9.7	3.0	1.4	1.0	1.8	2.2	1.4	0.9	0.9	0.8	0.8	1.1	1.7	2.1	3.3	5.0	7.1	6.62	27.68
11-Jun	11.2	2.7	Z	3.6	3.1	14.9	12.4	3.1	4.1	2.2	5.1	11.4	3.9	2.9	2.9	3.9	4.9	4.5	4.1	3.2	10.6	7.7	1.9	3.1	5.54	14.95
12-Jun	2.3	7.3	Z	11.4	13.4	9.3	3.6	1.7	1.2	1.0	0.5	0.6	0.6	2.5	2.3	6.2	7.3	7.1	3.6	3.2	6.7	15.7	3.8	5.1	5.06	15.65
13-Jun	3.1	1.8	Z	1.4	0.8	0.8	0.9	2.8	10.9	6.0	4.5	1.1	1.8	1.8	1.4	1.1	1.2	1.4	1.1	2.7	1.0	0.6	0.7	1.7	2.20	10.86
14-Jun	6.9	12.9	Z	4.2	3.9	4.6	2.3	1.0	0.9	1.1	1.2	1.2	1.2	1.0	1.1	1.0	1.1	1.1	1.0	1.9	2.2	3.6	4.6	2.65	12.88	
15-Jun	5.0	4.3	Z	6.1	5.0	4.5	5.1	4.4	3.0	0.9	0.6	0.4	0.2	0.4	0.3	0.4	0.4	0.5	0.5	0.7	1.4	3.4	3.0	2.34	6.05	
16-Jun	2.8	1.9	Z	8.3	10.0	9.9	4.9	5.5	7.1	24.5	49.2	36.0	17.6	18.2	9.1	4.8	2.2	2.8	3.4	4.2	9.3	14.8	PF	PF	11.75	49.24
17-Jun	10.9	4.9	Z	4.1	3.7	3.2	2.7	3.8	4.1	4.1	3.0	2.0	2.8	3.1	3.6	4.2	3.4	1.8	1.4	1.2	3.9	10.4	9.0	5.4	4.20	10.89
18-Jun	4.5	5.7	Z	3.9	3.6	4.5	5.0	4.6	3.5	2.5	2.0	2.1	5.2	42.2	32.1	9.3	5.4	5.1	15.6	6.7	3.2	3.7	3.5	3.6	7.72	42.23
19-Jun	15.7	14.1	Z	9.8	9.1	8.3	8.7	6.4	4.6	2.3	1.5	1.2	1.3	1.5	1.6	2.7	4.5	5.7	6.7	2.9	5.8	19.3	4.9	5.9	6.28	19.27
20-Jun	4.9	2.9	Z	3.6	4.4	4.5	4.3	3.4	2.5	11.0	29.0	8.3	4.6	8.2	10.7	9.3	5.0	2.3	1.4	2.0	6.2	6.8	6.9	11.5	6.69	28.96
21-Jun	7.1	5.5	Z	6.4	4.9	4.7	4.6	9.6	16.0	19.7	14.1	13.7	13.5	3.9	2.6	3.7	2.7	2.9	2.3	6.1	8.1	6.2	8.3	10.7	7.71	19.73
22-Jun	16.6	22.5	Z	10.3	7.6	7.3	5.8	6.0	21.1	12.7	9.6	4.8	2.9	5.5	6.7	3.8	7.5	7.9	4.6	3.7	5.3	4.2	3.5	3.9	7.99	22.48
23-Jun	4.5	2.1	Z	6.6	5.6	4.4	3.1	3.6	C	C	C	C	C	6.8	7.0	7.8	4.3	1.9	1.8	2.3	5.5	8.1	6.1	5.2	4.81	8.06
24-Jun	4.9	6.2	Z	6.7	5.8	6.0	5.2	5.0	2.7	2.6	1.9	1.4	1.0	0.7	0.7	0.9	0.6	0.6	0.6	1.1	2.6	4.0	4.0	5.0	3.06	6.68
25-Jun	4.5	3.6	Z	5.5	6.5	5.7	4.1	4.8	7.4	32.3	4.2	1.6	1.2	0.8	0.6	0.9	0.4	0.4	0.4	1.0	3.7	4.2	4.7	3.0	4.42	32.27
26-Jun	4.0	6.0	Z	1.8	8.1	8.4	6.2	7.5	15.5	11.5	3.3	2.0	7.0	7.1	3.0	4.1	3.1	0.9	0.7	1.3	5.6	10.4	9.2	14.2	6.12	15.53
27-Jun	10.2	8.9	Z	10.6	11.8	10.1	12.3	4.2	3.1	2.3	0.9	0.9	0.7	0.9	0.7	0.8	0.8	0.8	0.7	1.1	1.8	4.9	4.0	4.5	4.20	12.28
28-Jun	4.4	11.0	Z	10.4	11.1	7.2	5.4	4.0	2.8	2.2	2.0	1.8	2.3	3.4	2.0	3.1	2.8	1.5	1.4	4.4	17.4	4.5	6.4	4.6	5.04	17.37
29-Jun	5.5	8.3	Z	9.9	9.8	9.3	10.2	10.0	9.1	8.0	6.1	3.4	1.8	1.3	0.5	0.9	1.1	0.9	0.9	1.4	1.6	1.8	1.5	1.5	4.56	10.22
30-Jun	1.5	1.3	Z	1.4	1.5	1.6	1.6	2.0	2.1	1.9	2.0	2.1	2.3	2.3	2.1	1.9	2.1	2.1	2.4	6.6	8.3	12.5	14.6	4.03	16.20	
	7.10	7.32	--	7.44	7.20	7.93	6.22	4.78	5.44	6.62	6.13	5.30	3.68	5.17	4.18	3.55	3.23	3.46	2.98	2.91	5.10	6.61	5.50	6.17	Diurnal Average	
	16.75	22.48	--	21.02	20.47	27.68	23.55	10.03	21.05	32.27	49.24	36.02	17.65	42.23	32.12	13.28	8.47	13.90	15.62	8.03	17.37	19.27	14.62	16.20	Diurnal Maximum	

Z - zerospan C - Calibration PF - Power Failure
 Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ppb 24-hr --- ppb

Maximum Value: 49.43 $\mu\text{g}/\text{m}^3$ on Jun 30 18:00 Maximum Daily Average: 25.40 $\mu\text{g}/\text{m}^3$ on Jun 30																								Hours in Service: 720 Hours of Data: 690 Hours of Missing Data: 30 Hours of Calibration: 6 Percent Operational Time: 96.7			
Minimum Value: 0.0 $\mu\text{g}/\text{m}^3$ on Jun 1 18:00													Minimum Daily Average: 1.84 $\mu\text{g}/\text{m}^3$ on Jun 20														
Maximum Diurnal Average: 6.97 $\mu\text{g}/\text{m}^3$ at hour 24													Minimum Diurnal Average: 3.46 $\mu\text{g}/\text{m}^3$ at hour 11														
Monthly Average: 5.312 $\mu\text{g}/\text{m}^3$													Percentiles: $P_1 = 0.0$ $P_{10} = 0.0$ $Q_1 = 1.7$ Median = 3.9 $Q_3 = 6.9$ $P_{90} = 10.4$ $P_{99} = 44.7$														
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-Jun	2.3	1.1	0.1	1.5	4.0	5.9	9.2	11.4	4.2	8.5	7.6	8.2	9.6	5.5	2.6	7.7	3.6	0.0	2.7	4.6	2.9	0.0	1.1	3.2	4.47	11.40	
2-Jun	2.0	0.6	1.6	1.0	2.7	0.9	0.0	0.9	0.6	0.0	0.5	3.7	4.7	7.1	7.8	9.9	12.2	3.9	7.2	2.8	3.9	0.0	5.1	5.4	3.52	12.17	
3-Jun	1.3	3.2	0.0	6.3	4.5	4.7	4.2	4.7	4.4	2.5	5.4	1.5	2.5	0.0	3.3	0.0	2.8	4.1	2.7	5.6	4.5	11.3	4.2	4.8	3.69	11.27	
4-Jun	2.6	6.0	5.5	5.2	7.6	2.8	4.6	7.9	7.7	6.0	8.5	3.9	5.6	UO	0.0	0.0	12.1	14.3	0.7	UO	2.8	2.2	1.7	3.3	5.05	14.35	
5-Jun	1.0	7.2	2.3	1.4	4.5	13.0	6.8	7.8	5.4	7.9	UO	9.5	0.0	1.2	0.6	6.4	4.3	1.3	2.7	8.5	8.6	9.9	9.7	4.3	5.41	13.04	
6-Jun	9.0	6.0	5.1	5.8	4.8	5.9	4.3	0.9	0.5	0.0	1.1	2.8	2.9	3.9	4.3	3.3	0.0	0.0	11.3	3.3	2.1	4.9	2.7	5.5	3.76	11.34	
7-Jun	9.2	8.4	2.7	2.3	11.1	9.5	8.1	0.0	1.7	0.0	0.6	1.2	0.0	2.6	2.3	4.2	6.0	5.6	5.9	4.3	0.0	5.5	17.1	4.56	17.12		
8-Jun	3.9	2.2	6.0	3.5	8.0	16.6	0.0	11.0	UO	UO	3.1	0.6	2.6	1.2	2.0	0.0	0.7	3.3	11.0	0.0	12.0	2.7	2.0	3.7	4.38	16.64	
9-Jun	1.6	0.0	4.1	3.6	3.5	2.9	3.9	5.5	1.2	UO	10.5	UO	6.6	1.7	0.0	UO	5.3	3.1	11.3	5.1	5.1	5.9	7.6	5.8	4.50	11.26	
10-Jun	4.5	1.7	17.8	3.1	2.7	11.8	11.3	15.6	2.2	4.9	1.3	9.5	7.4	2.7	6.8	5.2	5.6	0.0	7.1	8.6	10.3	2.8	8.3	6.5	6.57	17.77	
11-Jun	2.4	5.6	0.5	11.3	2.8	7.2	9.2	5.6	6.1	6.4	0.0	12.4	UO	3.9	4.7	6.3	7.6	0.9	6.9	4.3	5.5	5.1	10.5	27.3	6.63	27.33	
12-Jun	19.2	22.8	18.8	12.8	3.4	4.7	8.1	1.3	0.0	0.0	0.0	0.0	0.0	1.0	3.7	0.0	7.3	0.0	2.6	5.8	9.4	3.6	1.4	5.25	22.83		
13-Jun	3.9	4.0	4.0	1.4	3.9	1.2	3.7	2.3	2.5	0.7	0.0	0.0	7.8	0.7	0.0	0.0	1.5	0.4	0.0	2.3	5.3	0.0	5.6	4.2	2.30	7.75	
14-Jun	2.3	1.1	1.0	1.6	1.0	2.8	3.5	0.0	0.0	8.4	8.3	6.7	5.1	7.0	4.7	3.3	3.1	5.1	4.1	4.0	6.8	9.3	5.6	4.7	4.14	9.33	
15-Jun	3.9	6.4	4.2	3.0	7.2	12.2	8.0	12.7	4.3	2.7	0.0	3.3	0.4	2.7	4.1	3.4	3.5	3.9	2.7	4.0	5.2	5.4	7.6	4.93	12.73		
16-Jun	5.2	3.7	2.5	3.3	4.3	7.5	6.8	8.5	9.8	2.9	9.5	0.0	7.7	10.0	0.0	12.4	4.5	3.6	11.7	8.2	6.7	5.8	PF	PF	6.12	12.43	
17-Jun	RE	UO	13.0	0.7	1.6	4.7	1.5	5.6	0.0	2.4	2.6	1.3	4.0	4.4	9.3	10.5	7.4	3.3	3.1	5.0	8.7	0.0	6.1	0.4	4.36	12.98	
18-Jun	1.8	UO	13.9	UO	UO	2.4	16.1	5.1	6.4	5.0	0.0	11.4	7.6	5.7	3.5	UO	1.1	0.8	7.5	3.8	3.2	5.4	13.7	7.6	6.11	16.13	
19-Jun	0.0	4.7	4.8	2.9	3.3	7.8	6.9	9.3	0.0	UO	4.3	3.6	0.0	6.5	1.8	21.4	12.4	3.7	UO	1.1	UO	0.0	0.0	4.50	21.39		
20-Jun	0.0	0.0	0.0	0.0	UO	13.3	3.3	6.0	1.8	UO	0.3	UO	UO	0.0	1.3	1.0	6.6	0.0	0.0	1.3	0.0	0.9	0.9	1.84	13.32		
21-Jun	0.8	1.2	0.0	8.1	0.0	2.1	3.9	7.5	3.5	0.9	0.0	3.7	3.9	7.7	0.0	2.9	8.0	9.6	3.7	9.2	6.9	10.0	9.4	8.9	4.66	9.97	
22-Jun	4.6	3.6	8.2	14.8	7.2	9.7	8.1	11.4	8.1	14.4	8.1	UO	4.2	8.4	5.8	4.7	0.0	3.1	2.7	15.6	6.7	1.3	0.3	0.0	6.56	15.59	
23-Jun	6.0	0.1	2.9	2.4	1.6	4.0	1.6	1.9	C	C	C	C	2.0	3.0	4.4	4.9	3.6	0.8	3.9	3.0	3.6	2.6	3.2	2.92	6.02		
24-Jun	2.8	3.0	2.6	1.8	2.7	5.2	4.8	5.0	4.0	3.5	2.4	1.5	0.7	0.6	1.0	1.4	0.1	1.7	1.8	4.1	4.7	4.5	4.7	4.8	2.90	5.22	
25-Jun	4.7	6.0	4.6	3.1	3.9	3.6	4.7	6.1	3.8	3.6	2.0	1.2	0.7	2.9	2.2	2.6	1.7	3.9	3.0	3.9	5.0	5.3	5.5	7.0	3.79	6.95	
26-Jun	5.2	7.6	4.6	1.4	5.2	6.3	6.4	5.7	3.4	1.5	0.1	0.0	0.2	2.4	0.4	0.6	0.0	0.5	1.7	3.1	3.6	4.7	6.4	7.1	3.26	7.63	
27-Jun	5.9	2.6	2.6	4.6	3.2	4.3	5.7	4.6	2.9	3.1	0.0	1.3	3.0	3.6	3.3	5.2	5.3	4.3	4.7	8.1	9.6	10.5	9.9	8.8	4.88	10.49	
28-Jun	10.4	13.2	10.6	11.6	12.1	14.3	10.9	9.8	7.2	3.1	1.8	1.6	2.5	1.5	0.7	2.3	2.8	2.2	3.3	6.7	7.5	6.5	6.7	7.8	6.55	14.34	
29-Jun	7.4	7.2	7.1	9.9	9.3	10.9	11.6	7.2	10.5	7.7	6.1	4.3	1.1	1.4	2.3	4.5	3.2	2.5	1.1	1.0	1.6	2.9	1.5	2.7	5.21	11.59	
30-Jun	2.6	2.6	2.3	2.3	5.3	5.2	5.9	6.8	7.9	8.8	12.9	18.8	39.8	47.2	44.8	46.6	49.4	49.4	45.0	41.4	45.6	42.9	38.1	38.2	25.40	49.43	
	4.37	4.72	5.12	4.50	4.69	6.79	6.10	6.28	3.93	4.19	3.46	4.31	4.84	4.93	4.13	6.14	5.79	4.87	5.72	6.10	6.87	5.74	6.44	6.97	Diurnal Average		
	19.25	22.83	18.84	14.75	12.14	16.64	16.13	15.59	10.49	14.40	12.87	18.82	39.79	47.24	44.76	46.63	49.35	49.43	44.97	41.42	45.59	42.92	38.09	38.21	25.40	49.43	
C - Calibration UO - Unstable Operation PF - Power Failure RE - Recovery 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: June 23, 2015

Parameter: NO/NO₂/NO_x

Instrument: 42C	Serial Number: 42C 70978367	Previous Calibration Date: May 20,2015
Calibration: Routine	Calibration Equipment: SABIO 2010 sn 05200311	Barometric Pressure: 27.31" Hg
Calibration Method: Standard Gas Dilution/ GPT	Cylinder ID: FF9469	Temperature: 22.0° C
Cylinder Concentration: 12.6 ppm No/ NOX	In Service: May 6/15	Technician: J.McClintock

Instrument Settings	NO bkg ppb	NO _x bkg ppb	Pre-reactor bkg ppb	NO Coefficient	NO _x Coefficient	NO ₂ Coefficient	Monitoring Range
Previous	4.6	4.9	na	0.824	1.005	1.001	300 ppb
Current	4.7	5.2	na	0.833	1.003	1.001	300 ppb

NO	Final Zero: 0.4 ppb	Final Span: 0.6 ppb	As Found Correction Factor: 1.007
NO ₂	Final Zero: -1.4 ppb	Final Span: 78.2 ppb	As Found Correction Factor: 1.000
NO _x	Final Zero: 0.6 ppb	Final Span: 80.0 ppb	As Found Correction Factor: 1.009

Results of Linear Regression			Slope	Intercept	R ²
NO	R _c vs C _c	Previous	100.217700	38.210320	0.999986
		Current	99.912010	-27.122480	0.999956
	C _i vs C _c	Current	1.000000	-0.000009	0.999956
		Previous	98.887170	13.481050	0.999986
NO ₂	R _c vs C _c	Current	98.170650	138.746400	0.999995
		Current	1.000000	-0.000009	0.999995
	C _i vs C _c	Previous	100.187700	22.743200	0.999986
		Current	99.473400	-46.706480	0.999896
NO _x	R _c vs C _c	Current	1.000000	-0.000012	0.999896
		Previous	100.187700	22.743200	0.999986

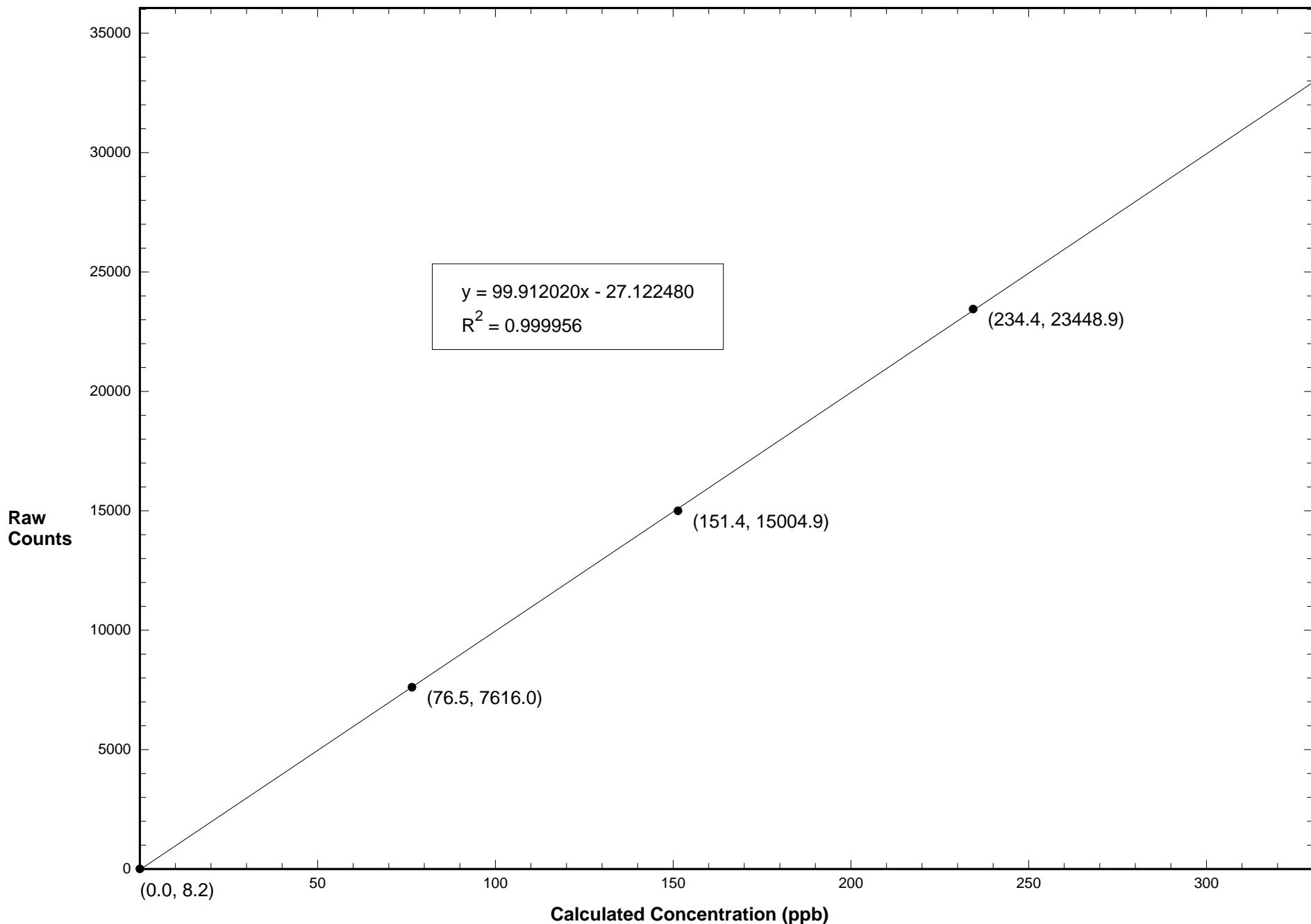
Comments:

Calibration Data Summary (Page 2)

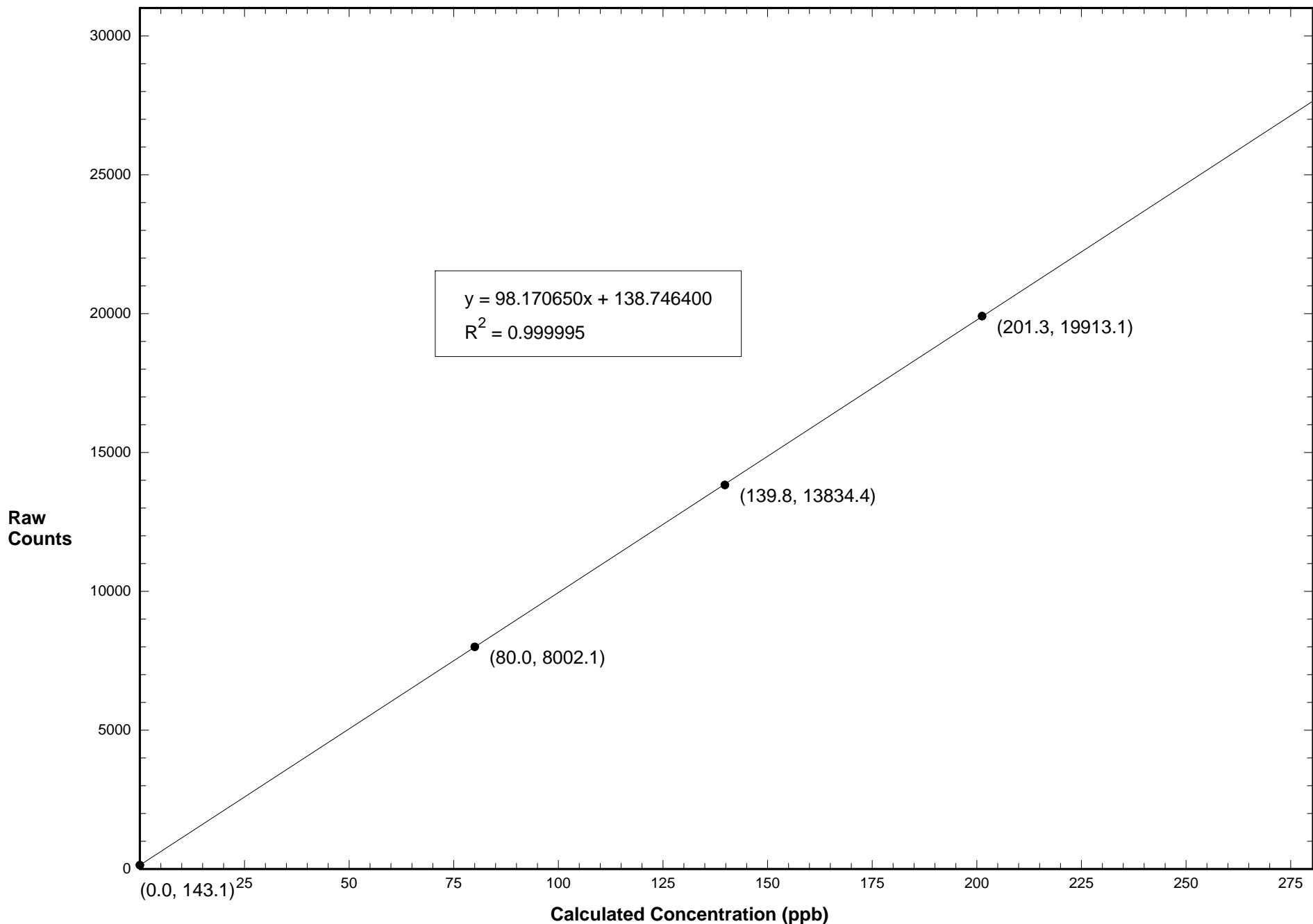
June 23, 2015 - Station 910

NO Flow Rate (LPM)	Dilution Flow Rate (LPM)	Calculated Concentration C _c (ppb)	Raw Count Output R _c	Indicated Concentration C _i (ppb)	Correction Factor C _c /C _i		
0.09700	5.118	234.4	23448.9	235.0	0.997		
0.06200	5.099	151.4	15004.9	150.5	1.006		
0.03100	5.072	76.5	7616.0	76.5	1.001		
0.00000	5.000	0.0	8.2	0.4			
NO Calibration				Average Correction Factor:	1.001		
0.09700	5.118	234.4	23359.7	235.3	0.996		
0.06200	5.099	151.4	14874.5	150.0	1.009		
0.03100	5.072	76.5	7549.1	76.4	1.002		
0.00000	5.000	0.0	13.6	0.6			
NO _x Calibration				Average Correction Factor:	1.002		
Reference Concentration NO (ppb)	Raw Count Output NO	Calculated Concentration NO (ppb)	Calculated Concentration NO ₂ , C _c (ppb)	Raw Count Output R _c	Indicated Concentration C _i (ppb)	Correction Factor C _c /C _i	Converter Efficiency C _i /C _c
234.4	3285.2	33.2	201.3	19913.1	201.4	0.999	1.001
234.4	9425.5	94.6	139.8	13834.4	139.5	1.002	0.998
234.4	15397.6	154.4	80.0	8002.1	80.1	0.999	1.001
			0.0	143.1	0.0		
				Average Correction Factor:	1.000		
NO ₂ Gas Phase Titration				Average Converter Efficiency:	1.000		
Parameter	Correction Factor (Previous)	Correction Factor: (Current)	Percent Change of Correction Factor				
NO	1.000	0.997	-0.3				
NO ₂	0.999	0.999	0.0				
NO _x	1.000	0.996	-0.4				

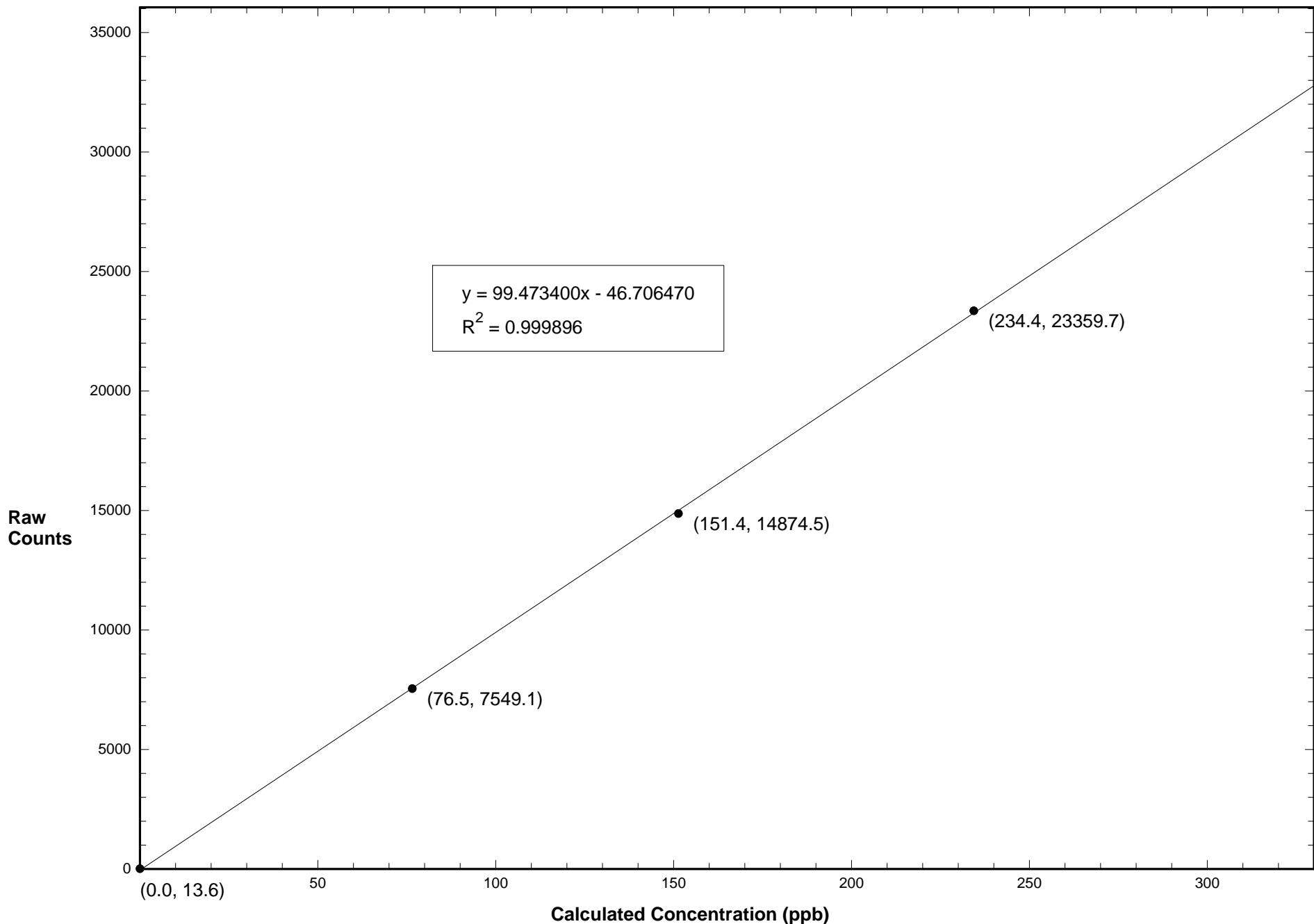
Station 910 NO June 23, 2015: Linear Regression



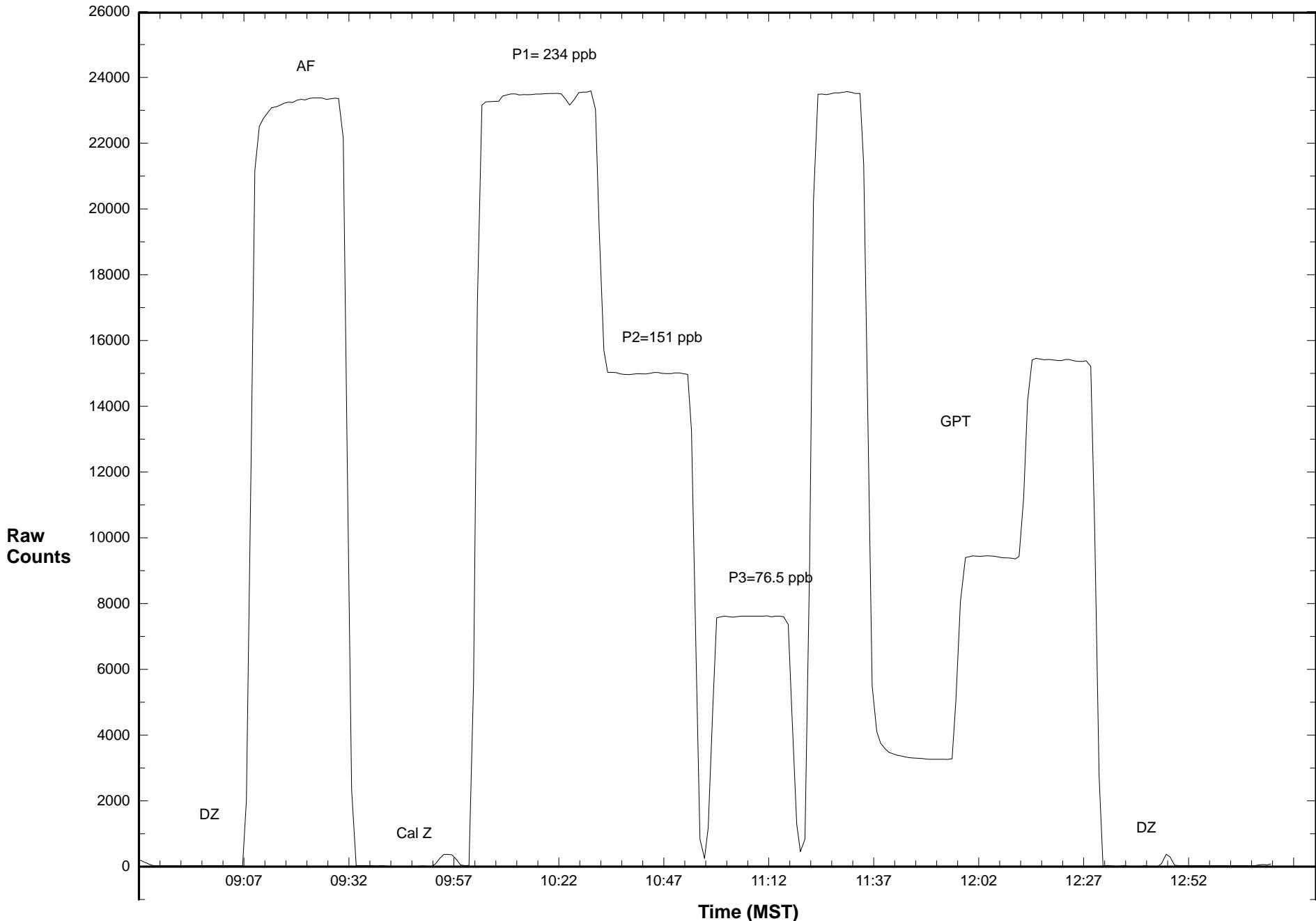
Station 910 NO₂ June 23, 2015: Linear Regression



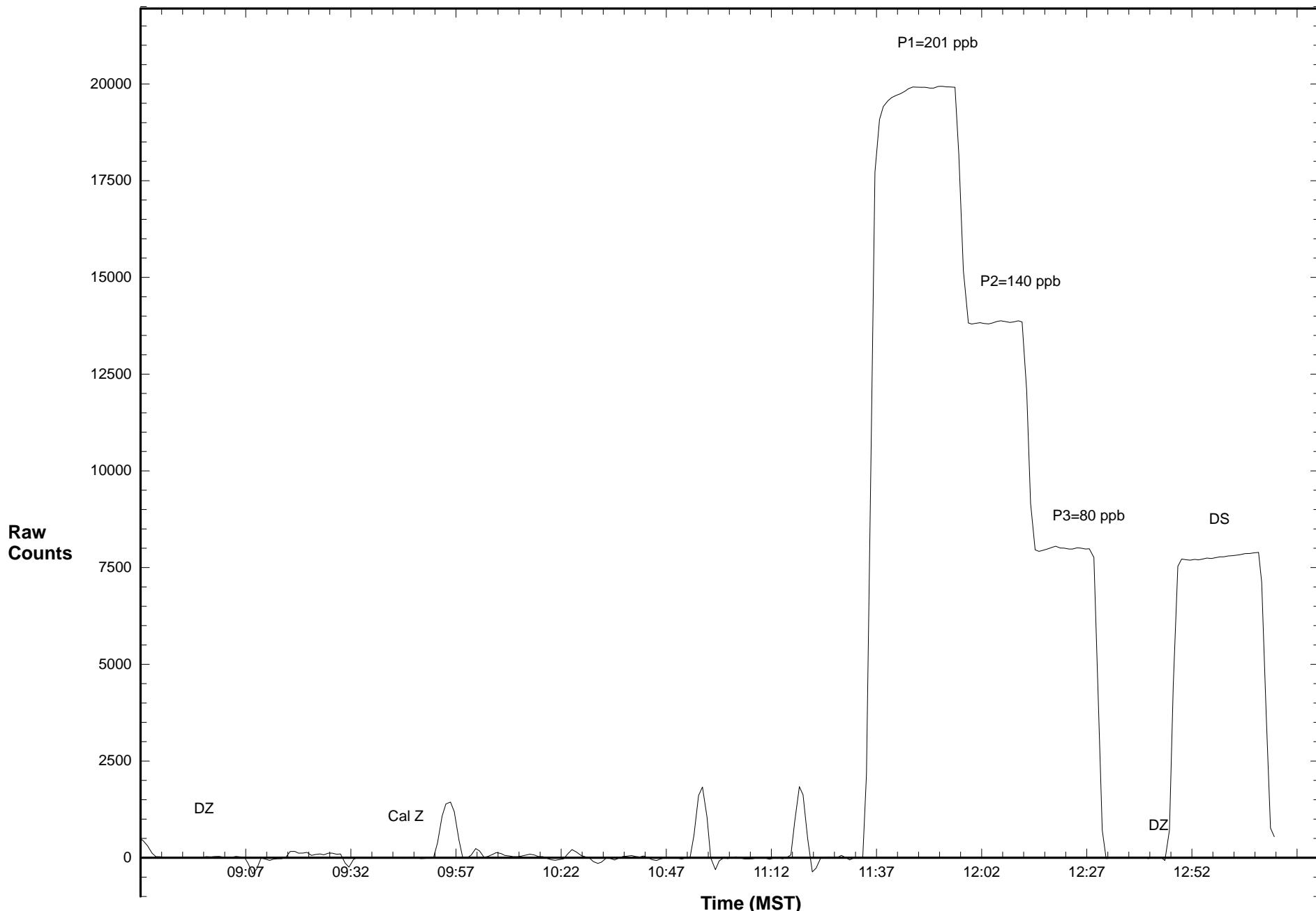
Station 910 NOX June 23, 2015: Linear Regression



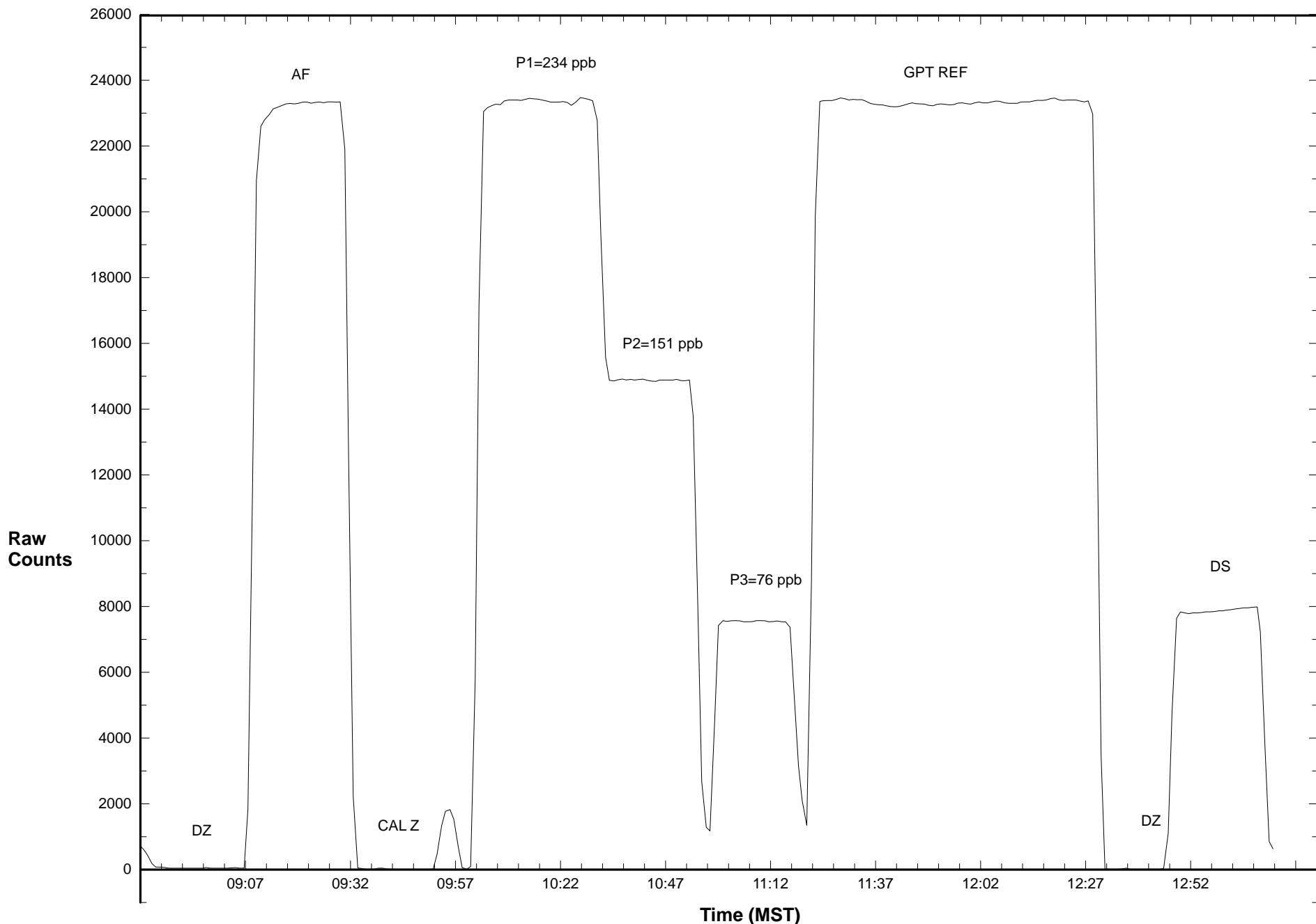
Station 910 NO June 23, 2015: Calibration Graph



Station 910 NO₂ June 23, 2015: Calibration Graph



Station 910 NOX June 23, 2015: Calibration Graph



Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 910, Genesee

Calibration Date: June 23, 2015

Parameter: O₃

Instrument: Teco 49i

Serial Number: 0708721220

Previous Calibration Date: May 20,2015

Calibration: Routine

Calibration Equipment: 2B Technology 306 SN 145 Barometric Pressure: 27.31" Hg

Calibration Method: Ozone Generator

Temperature: 22.0° C

Technician: J.McClintock

Instrument Settings	Background	Coefficient	Monitoring Range
Previous	0.2	1.049	500 ppb
Current	-0.5	1.022	500 ppb

Final Zero: 2.0 ppb Final Span: 238.5 ppb As Found Correction Factor: 0.984

Calibration System Flow Rate (LPM)	Calculated Concentration C _c (ppb)	Raw Count Output R _c	Indicated Concentration C _i (ppb)	Correction Factor C _c /C _i
3.000	397.0	23832.1	398.3	0.997
3.000	252.0	14956.6	250.6	1.005
3.000	103.0	5985.6	101.4	1.016
3.000	0.0	-5.7	1.7	

Results of Linear Regression

R _c vs C _c	Slope	Intercept	R ²
Previous	59.961070	-21.624160	0.999997
Current	60.107000	-107.965400	0.999900
C _i vs C _c			
Current	1.000000	0.000000	0.999900

Average Correction Factor: 1.006

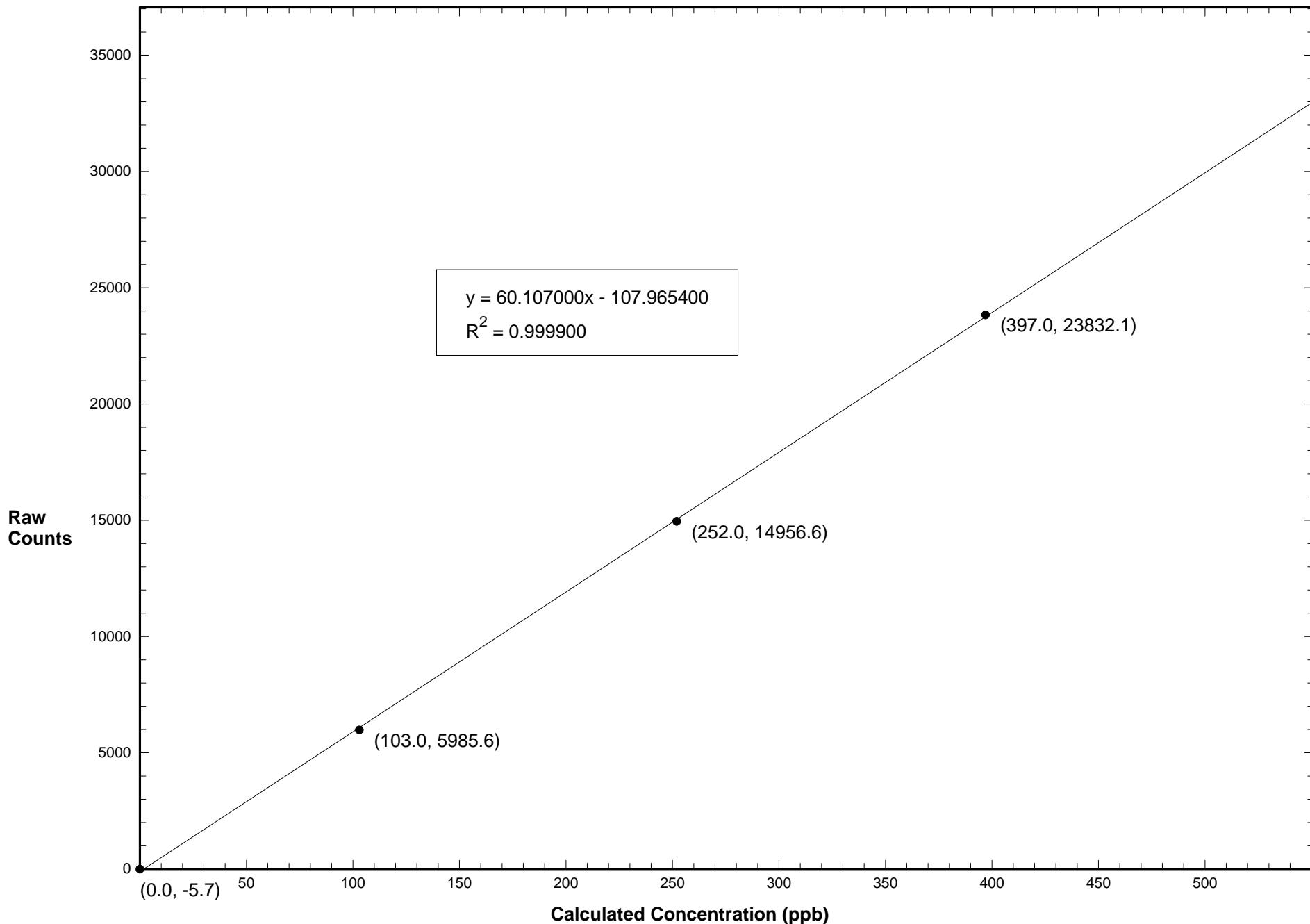
Previous Correction Factor: 1.000

Current Correction Factor: 0.997

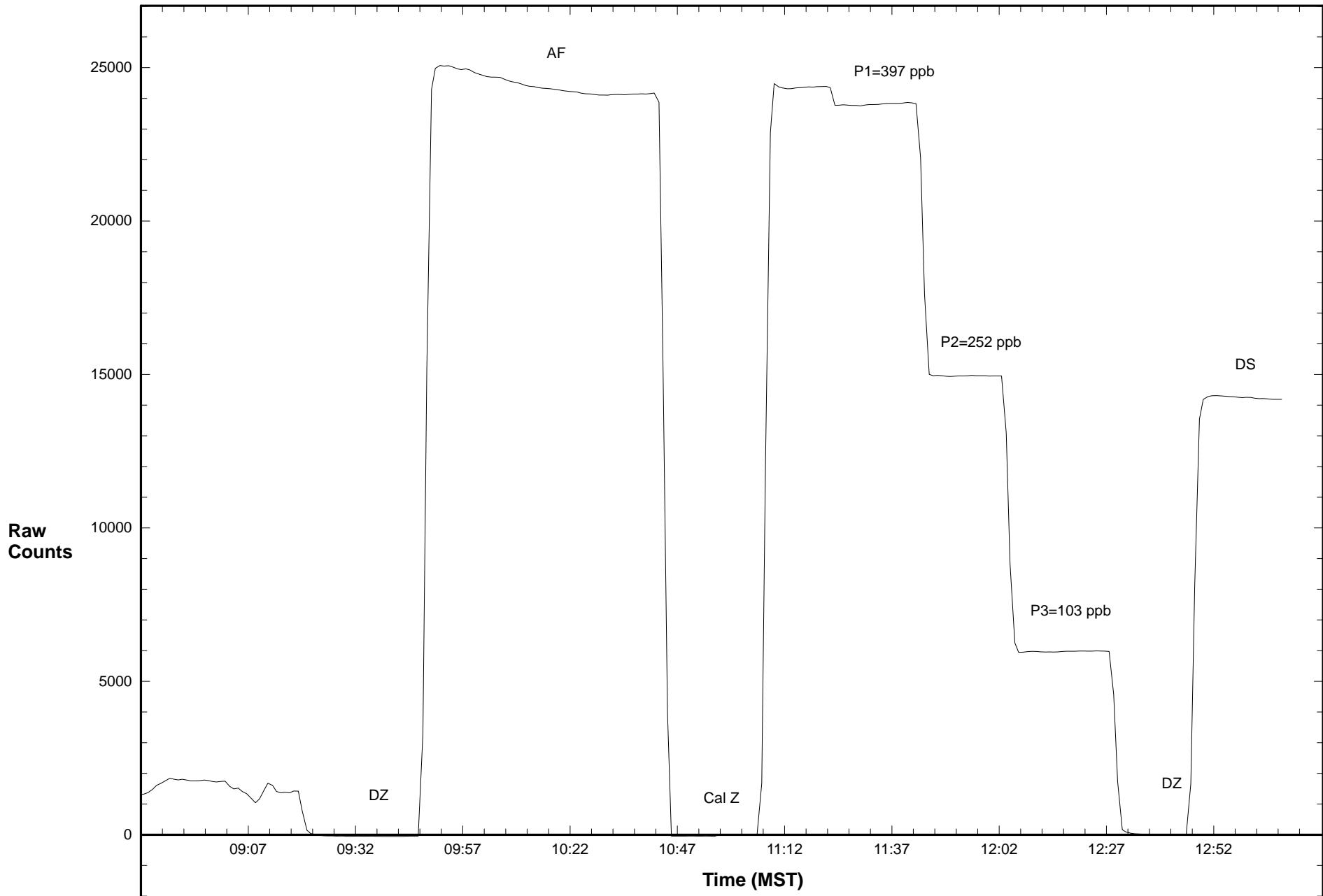
Percent Change of Correction Factor: -0.3

Comments:

Station 910 O3 June 23, 2015: Linear Regression



Station 910 O3 June 23, 2015: Calibration Graph



Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 910, Genesee

Calibration Date: June 23, 2015

Parameter: SO₂

Instrument: Teco 43 i	Serial Number: 0708 721218	Previous Calibration Date: May 20,2015
Calibration: Routine	Calibration Equipment: SABIO 2010 sn 05200311	Barometric Pressure: 27.31" Hg
Calibration Method: Standard Gas Dilution	Cylinder ID: FF9469	Temperature: 22.0° C
Cylinder Concentration: 6.2 ppm SO ₂	In Service: Jan.14/15	Technician: J.McClintock

Instrument Settings	SO ₂ bkg ppb	SO ₂ Coefficient	Monitoring Range
Previous	13.6	0.897	200 ppb
Current	13.0	0.860	200 ppb

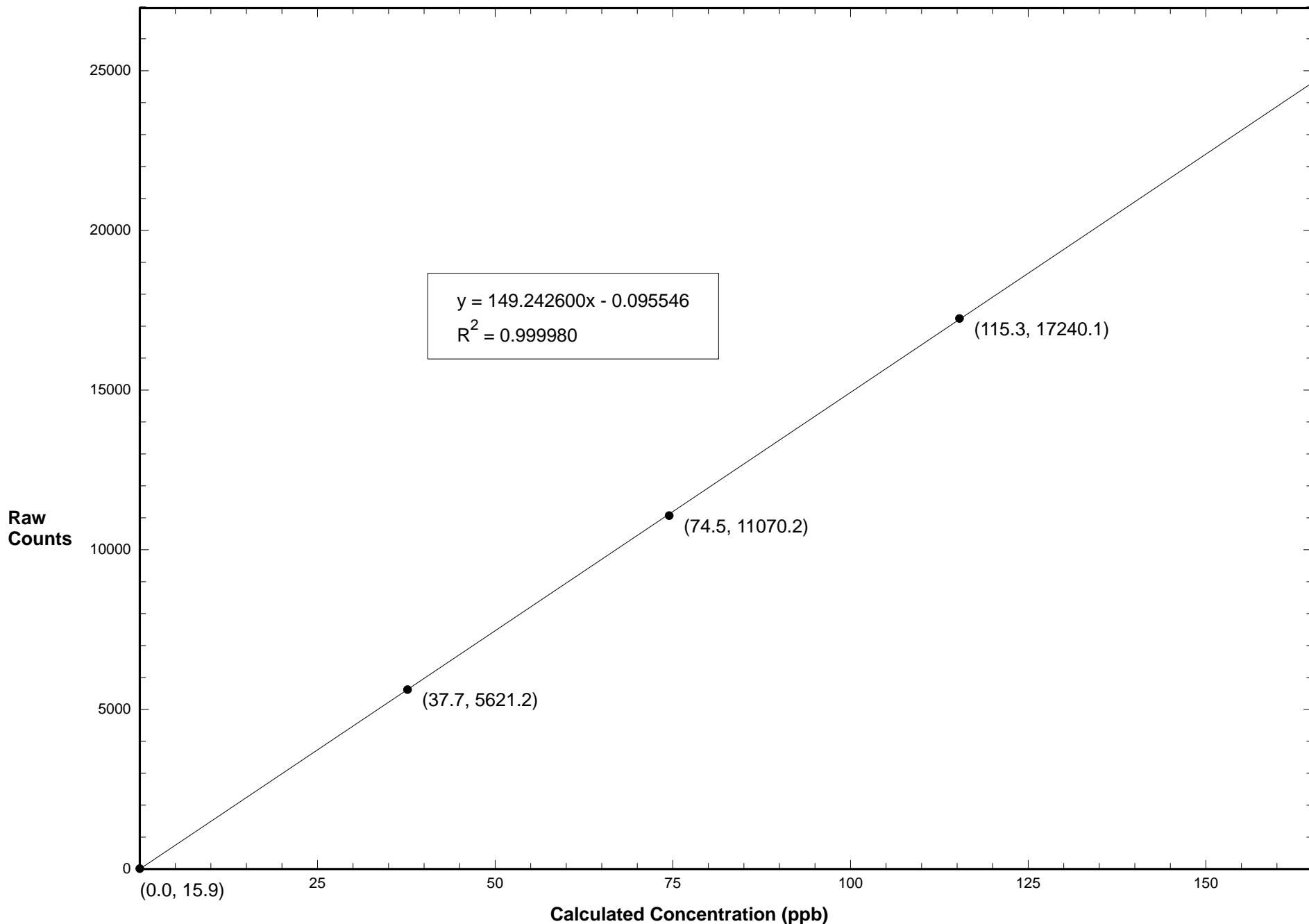
Final Zero: 0.2 ppb	Final Span: 46.0 ppb	As Found Correction Factor: 1.018
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SO ₂ Flow Rate (LPM)	Dilution Flow Rate (LPM)	Calculated Concentration C _c (ppb)	Raw Count Output R _c	Indicated Concentration C _i (ppb)	Correction Factor C _c /C _i
0.0970	5.118	115.3	17240.1	115.5	0.998
0.0620	5.099	74.5	11070.2	74.2	1.004
0.0310	5.072	37.7	5621.2	37.7	1.000
0.0000	5.000	0.0	15.9	0.1	

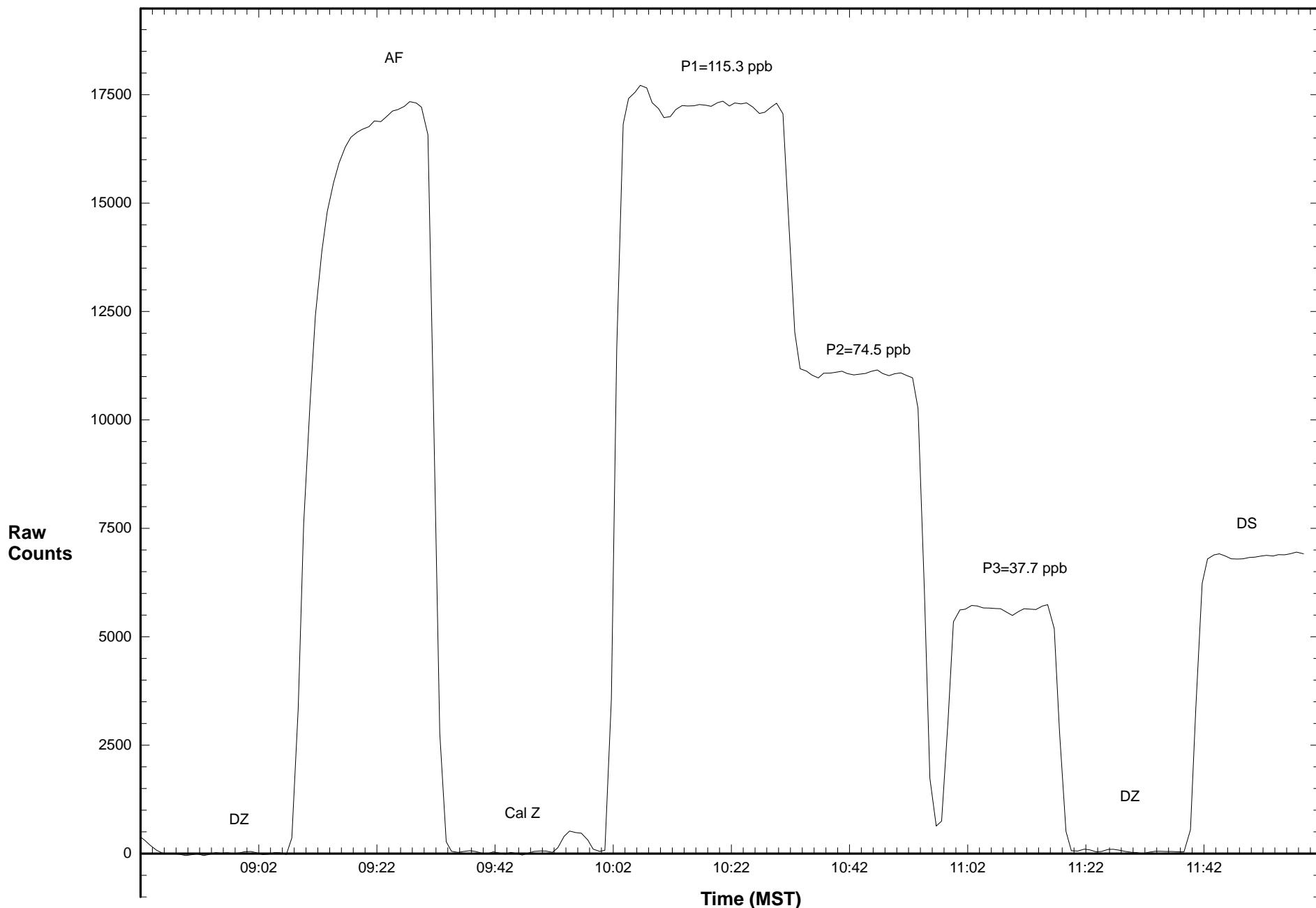
Results of Linear Regression	Average Correction Factor:	1.001
R _c vs C _c	Slope	Intercept R ²
Previous	150.322600	-10.255450 0.999998
Current	149.242600	-0.095546 0.999980
C _i vs C _c	Current	Percent Change of Correction Factor: -0.2

Comments:

Station 910 SO₂ June 23, 2015: Linear Regression



Station 910 SO₂ June 23, 2015: Calibration Graph



WEST CENTRAL AIRSHED SOCIETY

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

**AMS 910
GENESEE
JUNE 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



WCAS - Genesee

Summary of Hourly Averages

External Temperature (ET) - C

June 2015

Maximum Value: 31.34 C on Jun 28 16:00											Maximum Daily Average: 24.62 C on Jun 28											Hours in Service:		720												
Minimum Value: 4.3 C on Jun 15 05:00											Minimum Daily Average: 10.31 C on Jun 13											Hours of Data:		718												
Maximum Diurnal Average: 22.15 C at hour 16											Minimum Diurnal Average: 10.61 C at hour 5											Hours of Missing Data:		2												
Monthly Average: 16.646 C											Percentiles: P ₁ = 5.7 P ₁₀ = 9.0 Q ₁ = 11.9 Median = 16.4 Q ₃ = 20.8 P ₉₀ = 24.3 P ₉₉ = 30.2																					Hours of Calibration:		0		
Day	Hourly Period Ending At																								Percent Operational Time:		99.7									
	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-Jun	10.1	9.0	7.5	5.9	5.8	7.3	10.4	12.9	16.3	18.2	17.7	18.2	18.4	18.0	17.9	18.5	18.7	18.3	17.7	16.6	14.4	12.4	11.1	10.5	13.83	18.72										
2-Jun	10.1	9.2	9.4	9.1	8.4	7.9	7.5	8.1	9.2	10.0	11.4	13.2	13.6	14.7	16.3	18.4	19.0	19.9	19.6	18.2	16.3	14.6	13.3	12.8	12.92	19.92										
3-Jun	12.2	11.3	10.6	9.8	8.6	9.7	11.9	14.5	15.4	18.0	18.9	20.1	20.9	21.2	22.7	22.8	22.6	21.9	21.0	19.6	16.5	14.6	12.9	11.9	16.23	22.81										
4-Jun	11.0	11.8	11.6	11.8	11.9	11.8	12.3	13.9	16.3	18.2	19.9	21.4	23.2	24.2	24.5	24.3	20.7	15.2	14.3	14.5	14.0	11.9	11.4	10.5	15.87	24.54										
5-Jun	8.8	7.7	7.6	8.2	7.7	9.8	13.4	15.0	14.5	16.6	19.1	20.4	21.5	22.4	23.2	23.6	24.3	23.8	24.1	22.4	20.0	16.7	15.1	15.3	16.71	24.31										
6-Jun	15.2	14.8	14.1	15.9	15.6	15.0	16.4	19.1	19.4	21.0	22.4	22.9	23.3	24.1	24.0	25.6	26.5	26.8	25.5	24.1	20.8	18.2	17.5	16.6	20.20	26.79										
7-Jun	13.8	13.4	12.6	15.2	10.9	12.2	16.6	18.7	21.1	22.3	23.3	24.1	24.7	26.2	26.6	26.8	26.2	26.2	25.7	24.4	23.2	20.6	18.6	17.6	20.48	26.81										
8-Jun	15.2	14.8	14.1	15.8	15.6	15.3	17.5	19.7	21.4	22.0	21.3	22.5	22.5	22.8	23.6	23.3	22.9	23.6	23.4	22.3	19.5	15.9	13.1	11.8	19.16	23.64										
9-Jun	10.4	12.1	12.7	12.1	12.2	12.8	14.4	17.6	19.6	21.2	22.6	23.0	23.4	25.2	23.9	24.3	24.8	23.7	22.8	20.7	18.7	16.2	14.1	13.3	18.42	25.17										
10-Jun	12.8	12.1	12.1	8.5	8.6	8.1	10.3	14.3	17.9	20.0	20.8	22.8	23.3	22.4	24.0	24.6	24.6	23.8	21.7	20.2	19.3	17.8	16.8	17.0	17.64	24.64										
11-Jun	16.2	14.3	12.5	11.8	11.0	10.9	14.0	15.7	17.3	18.7	19.4	20.5	21.6	22.5	23.0	22.9	22.4	21.6	18.6	17.3	16.7	16.6	14.0	13.0	17.19	22.96										
12-Jun	12.5	11.2	11.0	10.4	9.5	11.5	11.1	11.4	11.6	12.4	13.9	14.6	15.4	17.4	18.1	17.5	18.4	16.9	14.7	13.0	10.4	9.2	8.7	8.2	12.87	18.39										
13-Jun	8.3	8.6	8.7	8.6	8.8	8.8	8.4	9.2	9.6	10.8	10.9	12.7	11.0	9.7	10.4	11.9	11.5	12.4	12.5	12.0	11.5	10.5	10.3	10.2	10.31	12.75										
14-Jun	10.1	9.5	8.5	8.6	7.8	8.0	9.9	11.7	12.6	14.0	14.5	14.7	15.3	15.5	15.8	15.9	15.6	15.0	14.7	14.6	13.8	10.8	9.3	7.6	12.25	15.89										
15-Jun	6.6	6.3	5.2	4.6	4.3	5.4	8.3	11.3	14.2	16.5	17.2	18.6	18.2	17.9	19.8	20.0	19.2	20.2	20.1	18.1	15.3	12.0	11.4	9.2	13.33	20.24										
16-Jun	8.8	9.2	6.9	6.0	5.5	5.7	11.3	14.6	16.9	19.4	21.0	22.3	23.5	22.2	24.1	23.3	21.9	19.7	17.7	13.7	12.8	12.7	PF	PF	15.43	24.13										
17-Jun	11.1	10.0	9.3	8.8	8.6	8.5	8.6	9.0	9.8	10.5	11.1	12.7	14.3	14.1	14.7	14.7	15.8	15.8	15.0	15.3	12.3	9.9	8.7	7.7	11.51	15.84										
18-Jun	7.2	6.7	7.0	7.8	7.8	8.1	9.5	11.4	12.9	14.0	15.6	17.0	16.9	17.1	19.1	20.7	20.9	21.2	20.7	18.3	16.6	14.9	14.6	13.8	14.16	21.17										
19-Jun	10.5	9.9	9.7	9.3	8.2	10.3	13.0	15.6	18.4	20.1	21.0	22.3	21.5	20.3	18.8	18.2	16.9	14.8	11.2	10.6	10.4	10.5	9.9	9.7	14.21	22.34										
20-Jun	9.0	7.0	6.1	5.6	4.8	5.8	8.7	11.7	12.6	14.3	15.6	16.8	18.1	18.3	18.6	19.5	17.3	15.4	16.9	16.1	15.0	12.1	10.4	7.9	12.66	19.53										
21-Jun	8.0	8.4	5.8	9.3	8.2	9.2	9.9	11.6	13.7	14.4	15.7	16.9	17.9	19.0	20.2	20.9	21.3	20.0	19.8	18.2	16.7	14.8	13.2	11.3	14.35	21.27										
22-Jun	8.5	7.3	6.7	9.8	10.6	10.5	11.5	12.7	15.8	17.5	20.0	21.8	22.9	22.8	20.3	20.4	21.7	22.5	21.5	19.2	15.4	13.9	13.0	14.0	15.83	22.92										
23-Jun	13.9	13.2	10.6	10.7	10.9	12.7	14.4	16.3	17.8	19.3	20.6	21.8	22.4	23.4	22.8	21.9	21.7	22.4	18.8	17.1	16.4	14.9	12.7	11.4	17.00	23.39										
24-Jun	10.3	9.7	10.0	8.5	9.1	9.2	12.5	15.8	18.8	21.1	23.3	25.2	25.8	27.5	27.9	27.8	27.7	27.4	26.8	24.6	21.0	18.3	16.3	16.1	19.19	27.91										
25-Jun	15.2	14.9	12.9	15.3	15.9	14.6	16.5	18.4	22.3	23.7	25.3	27.1	27.8	29.2	29.4	28.8	29.2	29.2	27.6	25.3	21.9	21.1	20.8	18.4	22.12	29.39										
26-Jun	17.3	16.2	17.6	19.7	18.0	17.6	18.7	19.8	21.4	22.8	23.8	24.8	26.0	26.7	27.9	28.6	28.9	28.8	28.5	27.3	24.6	22.5	19.6	18.5	22.74	28.93										
27-Jun	17.0	15.7	16.3	15.8	13.9	14.2	18.6	21.3	23.5	25.5	26.7	27.8	29.1	30.0	30.1	30.3	30.2	29.1	29.8	28.3	25.2	22.6	21.9	19.9	23.45	30.28										
28-Jun	18.7	16.6	16.1	15.1	16.4	18.6	19.7	22.6	24.6	26.6	28.8	29.6	30.0	30.7	31.3	31.3	31.1	30.4	29.0	26.6	24.2	20.7	20.9	24.62	31.34											
29-Jun	18.5	17.7	16.4	17.5	18.1	17.7	17.4	17.6	17.4	18.0	18.1	18.2	18.4	18.5	17.7	17.3	17.2	17.0	16.9	16.6	16.3	15.9	17.38	18.50												
30-Jun	15.7	15.6	15.4	15.5	15.5	15.8	16.1	16.5	17.1	17.3	17.4	18.6	18.0	18.9	20.3	19.3	20.1	18.9	17.8	16.9	15.6	15.7	17.23	20.26												
Diurnal Average																									Diurnal Maximum											
PF - Power Failure																									Diurnal Maximum											



WCAS - Genesee

Summary of Hourly Averages

External Temperature 10 m (ET_10) - C

June 2015

Maximum Value: 3.95 C on Jun 28 23:00 Maximum Daily Average: 0.24 C on Jun 7																				Hours in Service: 720 Hours of Data: 718 Hours of Missing Data: 2 Hours of Calibration: 0 Percent Operational Time: 99.7						
Minimum Value: -3.8 C on Jun 10 15:00 Minimum Daily Average: -0.95 C on Jun 15																										
Maximum Diurnal Average: 1.51 C at hour 23 Minimum Diurnal Average: -1.95 C at hour 12																										
Monthly Average: -0.429 C Percentiles: P ₁ = -3.3 P ₁₀ = -2.1 Q ₁ = -1.6 Median = -0.7 Q ₃ = 0.5 P ₉₀ = 1.8 P ₉₉ = 3.2																										
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-Jun	1.3	1.3	1.7	1.4	1.4	0.0	-1.2	-1.2	-1.8	-1.9	-1.6	-1.7	-1.8	-1.9	-1.8	-1.8	-1.6	-1.4	-1.0	-0.6	-0.1	0.0	0.1	-0.1	-0.59	1.74
2-Jun	-0.2	0.0	-0.4	-0.5	-0.4	-0.5	-0.5	-0.9	-1.0	-1.0	-1.4	-1.6	-1.4	-1.8	-2.5	-2.3	-1.8	-1.5	-0.8	-0.3	0.2	0.6	0.8	0.7	-0.77	0.78
3-Jun	0.7	0.7	0.8	1.0	1.4	0.2	-0.6	-0.9	-1.0	-2.0	-2.2	-2.5	-2.5	-2.3	-2.8	-2.5	-2.2	-1.6	-1.0	-0.2	1.4	1.9	2.1	1.2	-0.55	2.12
4-Jun	1.6	0.2	-0.2	-0.3	-0.2	-0.4	-0.7	-1.2	-1.7	-1.9	-2.1	-2.3	-3.1	-3.3	-2.7	-2.0	-0.8	0.0	-0.4	-0.2	0.0	1.6	1.9	1.8	-0.69	1.87
5-Jun	1.9	1.1	1.7	1.4	1.5	-0.9	-1.7	-2.2	-1.1	-1.6	-1.8	-1.9	-1.7	-1.7	-1.6	-1.7	-1.8	-1.2	-1.2	0.1	1.2	2.6	2.3	1.6	-0.29	2.64
6-Jun	1.1	1.0	2.1	0.8	0.4	0.5	0.0	-0.9	-0.9	-1.4	-1.8	-1.7	-1.5	-1.6	-1.3	-1.7	-1.4	-1.2	-0.7	-0.3	1.5	3.0	3.2	2.9	0.00	3.18
7-Jun	2.7	2.3	3.5	1.6	1.5	1.7	-0.6	-0.6	-1.2	-1.6	-1.8	-1.8	-2.2	-2.0	-1.9	-1.0	-0.9	-0.4	0.5	0.9	2.3	3.3	3.2	0.24	3.46	
8-Jun	2.5	1.5	0.9	1.0	1.2	1.0	-0.4	-0.9	-1.4	-1.6	-1.2	-1.5	-1.5	-1.3	-1.4	-1.3	-1.0	-1.1	-1.0	-0.5	-0.2	1.0	2.4	2.5	-0.10	2.49
9-Jun	3.0	0.7	0.1	0.3	-0.2	-0.3	-1.1	-2.2	-2.3	-2.2	-2.5	-2.2	-2.1	-2.9	-1.4	-1.7	-1.8	-1.1	-1.0	-0.7	-0.2	0.6	1.6	1.7	-0.75	2.96
10-Jun	1.3	1.4	1.1	3.0	2.1	0.2	-0.9	-1.6	-2.1	-2.3	-2.4	-3.1	-3.3	-3.3	-3.8	-3.4	-3.0	-2.4	-0.8	0.1	0.3	0.9	1.1	0.2	-0.85	3.04
11-Jun	0.6	0.5	1.7	1.5	1.5	0.8	-0.7	-1.4	-1.5	-1.5	-1.5	-1.5	-1.8	-1.7	-1.5	-1.2	-0.9	-1.1	-1.2	-0.7	-0.2	0.0	0.1	0.6	-0.46	1.69
12-Jun	0.1	0.4	0.2	0.7	0.4	-0.2	-0.3	-0.5	-0.8	-1.2	-1.6	-1.6	-1.5	-2.1	-1.8	-1.4	-2.0	-1.2	-1.0	-0.7	-0.4	-0.2	-0.7	-0.7	-0.75	0.73
13-Jun	-0.7	-0.3	-0.5	-0.4	-0.4	-0.5	-0.5	-0.7	-0.7	-1.1	-0.9	-1.5	-0.8	-1.0	-1.1	-1.2	-0.9	-1.0	-0.7	-0.5	-0.4	-0.1	-0.3	-0.3	-0.68	-0.10
14-Jun	-0.2	0.0	0.0	0.1	-0.3	-0.8	-1.2	-1.3	-1.7	-1.6	-1.6	-1.7	-1.7	-1.8	-1.8	-1.5	-1.0	-0.7	-0.6	-0.2	0.8	0.2	0.1	-0.78	0.81	
15-Jun	0.1	-0.2	0.3	0.3	0.5	-0.7	-1.8	-2.0	-2.3	-2.8	-2.4	-3.4	-2.5	-1.9	-3.1	-2.9	-1.9	-2.4	-2.1	-0.6	1.3	2.9	2.1	2.6	-0.95	2.92
16-Jun	2.0	2.0	2.6	2.5	2.4	1.3	-1.1	-1.9	-2.1	-1.6	-1.7	-1.9	-2.3	-1.3	-2.2	-2.3	-2.2	-0.6	-0.3	0.4	-0.1	0.1	PF	PF	-0.36	2.59
17-Jun	-0.3	-0.9	-0.8	-0.9	-0.9	-0.8	-0.9	-0.7	-0.9	-1.0	-1.0	-1.6	-2.4	-1.8	-2.2	-1.9	-1.9	-1.1	-1.2	0.7	1.8	2.2	2.1	-0.78	2.16	
18-Jun	1.3	1.3	1.2	0.5	0.4	-0.4	-0.8	-0.9	-1.2	-1.5	-1.9	-2.2	-1.5	-1.4	-2.0	-1.9	-1.5	-1.3	-1.2	-0.6	0.2	0.7	0.5	0.3	-0.57	1.34
19-Jun	1.8	1.7	1.5	2.0	1.8	0.2	-0.8	-1.3	-1.7	-2.0	-1.9	-2.6	-1.7	-0.5	0.4	-0.1	-0.6	-0.4	-1.1	-0.9	-0.2	-0.1	-0.1	-0.1	-0.27	1.99
20-Jun	0.1	0.2	0.7	1.0	0.8	-0.2	-1.7	-1.8	-1.2	-1.6	-1.8	-1.9	-2.1	-1.9	-1.8	-2.1	-1.0	-0.8	-2.4	-0.8	-0.1	2.1	1.8	2.0	-0.60	2.05
21-Jun	2.3	1.2	1.1	0.4	0.0	0.0	-0.4	-1.2	-1.6	-1.5	-1.7	-1.8	-1.7	-1.8	-1.9	-1.8	-1.7	-1.3	-1.1	-0.2	0.5	1.3	2.4	2.6	-0.32	2.61
22-Jun	2.1	2.1	2.4	1.4	0.8	0.0	-0.3	-0.2	-0.6	-1.5	-2.1	-2.1	-1.9	-1.8	-0.4	-1.1	-1.1	-1.1	-0.4	-0.1	0.4	1.1	0.7	0.15	2.38	
23-Jun	0.0	0.4	1.0	0.8	0.7	0.3	-1.1	-1.3	-1.5	-1.7	-1.6	-2.0	-1.6	-2.1	-1.2	-0.7	-1.1	-1.9	-0.6	-0.3	0.2	0.8	1.4	1.8	-0.49	1.80
24-Jun	1.7	1.1	0.9	1.5	1.0	0.4	-1.1	-1.5	-1.9	-2.3	-2.6	-2.9	-2.4	-3.4	-3.3	-2.7	-2.3	-1.8	-1.4	0.3	2.0	2.8	3.2	2.5	-0.52	3.16
25-Jun	2.0	1.9	2.2	1.0	0.9	1.0	-0.3	-1.1	-1.6	-1.5	-2.1	-2.9	-2.7	-3.3	-3.2	-2.2	-2.5	-2.2	-0.8	0.8	2.5	2.1	1.4	2.4	-0.35	2.48
26-Jun	3.0	2.1	1.1	0.4	0.2	-0.1	-0.7	-1.1	-1.4	-1.5	-1.5	-1.6	-1.8	-1.8	-2.1	-2.1	-1.9	-1.8	-1.4	-0.4	1.0	1.6	3.0	3.7	-0.21	3.74
27-Jun	3.9	3.9	2.4	1.4	3.8	2.7	-0.1	-1.4	-1.4	-1.7	-2.0	-2.1	-2.8	-2.8	-2.7	-2.2	-1.8	-0.8	-1.1	-0.1	1.6	2.5	2.0	2.5	0.16	3.93
28-Jun	1.9	2.4	2.8	1.9	1.1	-0.1	-0.6	-1.1	-1.3	-1.4	-1.7	-1.9	-1.9	-2.0	-2.0	-1.9	-1.6	-1.3	-0.8	-0.2	1.2	2.1	4.0	2.9	0.03	3.95
29-Jun	2.9	3.1	1.6	0.3	0.0	0.2	1.4	0.4	0.1	-0.5	-0.2	-0.2	-0.1	-0.1	-0.1	-0.6	-1.2	-1.1	-1.1	-0.8	-0.4	-0.6	-0.7	0.05	3.13	
30-Jun	-0.7	-0.7	-0.7	-0.8	-0.3	-0.3	-0.4	-0.6	-0.7	-0.9	-1.0	-1.0	-1.6	-1.1	-1.5	-1.8	-0.7	-1.1	-0.8	0.0	0.6	1.0	1.5	1.6	-0.49	1.55
Diurnal Average																										
Diurnal Maximum																										
PF - Power Failure																										

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	10.9	12.6	8.2	3.5	9.4	14.8	8.6	0.3	6.3	3.5	19.6	21.8	23.1	23.4	18.6	14.3	19.6	18.1	13.8	15.1	14.1	16.2	16.0	11.0	8.48	23.45	
Dir	W	WSW	WSW	W	WSW	WSW	WSW	SSE	S	W	NNW	NNW	N	N	NNW	N	N	NNE	NNE	NE	NE	NE	NNE	NE	N	N	N
2 Spd	7.0	8.6	6.9	9.5	7.6	8.7	11.6	10.4	10.4	14.3	15.0	17.4	20.2	21.4	21.1	21.1	23.4	25.6	27.0	29.5	24.8	23.2	19.7	19.7	14.70	29.48	
Dir	NE	NNE	ENE	E	ESE	E	ESE	SE	SE	SSE	SE	SSE															
3 Spd	20.1	16.7	17.3	15.8	10.2	9.0	12.1	22.8	25.6	26.9	24.5	24.1	23.0	20.7	20.3	24.3	23.8	22.1	19.1	18.8	10.1	4.7	6.6	6.7	17.24	26.94	
Dir	SSE	SSE	SSE	SSE	SE	ESE	SE	SSE	SSE	SE	SSE	SSE	SE	ESE	ESE	SE	SSE	SE	SSE								
4 Spd	8.4	6.8	7.0	6.5	7.0	5.8	6.0	7.4	9.9	10.6	13.5	12.8	15.4	14.1	22.0	24.8	20.0	12.3	8.6	1.1	5.5	2.6	3.6	5.8	6.57	24.84	
Dir	ESE	E	ENE	ENE	ENE	E	ENE	E	E	E	SE	SSE	SE	SE	SSE	W	W	SSW	ESE	SE	SSE	WSW	ESE	SE	SE	SE	
5 Spd	1.3	2.8	6.3	7.8	3.4	9.3	9.2	7.6	8.7	9.0	11.1	10.0	8.8	7.5	10.2	12.5	8.4	8.0	5.1	3.1	3.6	6.0	10.1	14.6	5.72	14.63	
Dir	WSW	S	WSW	W	WSW	WSW	WSW	WNW	WNW	W	WNW	WNW	NW	NW	NNW	NW	NNW	NW	NW	NE	SE	S	SW	WSW	W	WSW	
6 Spd	11.6	5.8	8.0	14.1	13.8	12.8	13.1	14.0	19.1	18.0	18.6	11.4	14.5	10.3	10.6	3.3	13.2	15.4	17.5	14.5	12.3	9.5	11.1	10.0	11.47	19.06	
Dir	W	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	WNW	WNW	N	N	NNW	NW	N	N	NNW	NNW	NNW	NW	NW	NW	NW	NW	
7 Spd	7.3	12.2	12.5	12.0	13.5	12.6	8.2	10.4	16.5	16.1	15.8	13.5	12.8	12.0	14.6	11.3	6.8	3.4	4.3	7.6	6.3	8.8	10.2	12.3	10.03	16.46	
Dir	WSW	WSW	W	W	WSW	W	W	W	WNW	WNW	WNW	WNW	WNW	W	W	NNW	NNE	WNW	WSW	WNW	WNW	NW	NW	W	WNW	W	
8 Spd	6.2	8.5	10.5	10.1	8.4	11.0	16.5	20.1	25.0	27.0	18.6	16.9	19.7	17.9	21.7	23.2	20.3	24.6	21.1	23.4	20.8	11.2	5.8	2.0	13.82	26.96	
Dir	WSW	WSW	SW	WSW	WSW	NW	NW	NNW	NNW																		
9 Spd	7.5	10.3	10.9	7.4	9.1	11.0	17.5	14.2	15.8	16.0	13.2	10.0	8.1	9.3	7.8	9.2	16.2	12.7	23.3	22.7	16.5	8.1	2.1	4.1	4.75	23.30	
Dir	WSW	WSW	WSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	SW	NW	NNW	NNW	N	NNE	NNE	NE	NE	ENE	E	W	NNE	W	
10 Spd	3.1	1.5	0.4	1.7	1.8	1.9	0.2	3.8	8.9	12.4	15.0	15.3	19.5	22.6	17.5	20.1	17.2	15.7	17.2	17.7	13.9	10.0	5.7	12.4	9.06	22.64	
Dir	ESE	E	S	SW	NNE	S	S	SSE	SE	SE	SE	SSE	S	S	SSE	SSE	SE	SSE	SE	SE	SSE	WNW	SSE	S	S	S	
11 Spd	7.7	16.0	8.0	10.7	12.2	8.2	5.8	4.4	10.2	8.6	6.2	6.0	8.6	9.9	11.4	12.2	10.9	23.2	26.5	21.6	11.8	13.6	21.1	11.5	5.74	26.45	
Dir	WSW	S	SSW	SW	SW	NNW	WNW	SW	S	SSW	NW	NNE	NE	NNE	N	N	NNW	NNW	NW	WNW	WNW	WNW	W	NW	NNW	NNW	
12 Spd	15.3	11.0	11.4	11.3	8.5	18.8	13.2	17.0	16.7	17.9	18.3	19.2	16.8	16.2	18.8	26.1	25.9	29.5	28.7	29.8	26.4	14.7	7.1	8.4	16.42	29.78	
Dir	WNW	WNW	WNW	NW	W	WNW	WNW	WNW	W	W	W	WNW	WNW	WNW	NW	WNW	WNW	NW	NW								
13 Spd	10.8	11.9	10.3	15.2	16.2	15.6	15.0	18.8	18.9	17.0	19.9	21.2	21.9	20.7	23.6	22.2	17.2	14.6	19.0	15.6	12.7	15.2	17.2	20.1	14.18	23.60	
Dir	WSW	W	W	W	WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	N	N	NNE	NNW	NNW	NW	NW	W	WNW	WNW	WNW	WNW	NW	N	
14 Spd	17.6	15.3	15.4	17.8	14.6	12.7	16.0	22.5	24.9	26.2	25.9	24.6	22.7	22.5	18.7	19.7	17.1	9.0	6.3	0.4	4.5	10.1	11.0	11.3	12.17	26.17	
Dir	WNW	WNW	WNW	NW	WNW	NNW	NNW	NNW	NNW	N	N	N	N	NNE	NE	NNE	NE	WNW	WSW	WSW	WSW	WNW	NNW	N	N	N	
15 Spd	11.5	11.6	10.9	8.9	9.4	10.0	10.5	8.3	6.5	6.6	6.5	11.9	5.5	10.4	10.3	7.9	7.8	10.2	12.4	14.4	10.5	7.1	5.1	6.4	7.54	14.36	
Dir	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SSW	SW	S	S	SSW	S	S	S	SSE	SSE	SSE	SSE	SSE	SSW	SSE	SSE	SSE	
16 Spd	5.8	6.8	7.0	4.8	5.5	5.9	7.1	5.0	5.1	3.0	6.9	9.0	10.6	8.3	12.1	18.6	21.4	13.0	6.3	3.1	10.4	PF	PF	PF	5.04	21.36	
Dir	SW	SW	SW	WSW	WSW	SW	WSW	SW	SW	W	NNW	NW	W	W	W	SW	NNE	SW	SW	NNW	SW	W	W	NNE	W	NNE	
17 Spd	14.5	12.4	10.6	10.9	12.5	12.6	5.5	5.5	5.2	6.0	6.0	4.9	6.3	5.1	7.1	5.7	6.9	7.8	10.2	11.2	9.8	6.3	5.8	6.3	2.73	14.53	
Dir	N	N	NNE	NNE	NNE	NE	ESE	ESE	ESE	SE	SSW	S	S	S	S	S	SSE	SE	SE	E							
18 Spd	5.0	6.2	9.9	12.0	10.1	10.0	10.0	9.6	8.7	4.2	6.2	7.1	7.2	4.5	0.8	4.2	2.1	5.1	6.5	16.1	11.9	9.0	8.4	7.7	2.57	16.06	
Dir	SE	SE	SE	SE	ESE	ESE	ESE	ESE	SSE	WSW	WSW	WSW	NW	WNW	NW	WNW	N	ESE	NNE	NW	WSW	W	W	W	SSW	SW	
19 Spd	2.8	0.8	4.2	6.5	5.8	4.5	1.0	6.9	12.5	16.3	16.0	17.0	15.7	12.4	14.2	5.9	16.4	24.1	23.8	16.4	15.3	13.3	14.1	15.6	1.85	24.13	
Dir	S	ESE	SSW	WSW	SW	WSW	ESE	ESE	ESE	E	E	E	ESE	ESE	ESE	SE	SW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	
20 Spd	13.5	11.5	10.9	10.1	10.7	9.2	10.1	7.4	6.4	12.0	13.5	12.1	14.3	15.1	10.6	3.6	21.2	14.2	12.6	1.3	1.7	0.5	2.5	6.0	7.24	21.22	
Dir	WNW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WNW	WNW	WNW	NW	NW	NNW	N	WNW	S	WSW	NNW	SW	SW	W	W	N		
21 Spd	10.0	8.9	4.7	9.6	12.3	11.8	15.0	14.2	13.6	13.3	12.4	10.9	8.4	7.3	7.8	10.1	13.1	25.5	17.9	5.6	1.4	0.7	2.2	7.6	8.53	25.52	
Dir	W	W	WSW	WNW	W	WNW	NW	WNW	NW	NW	WNW	WNW	NNW	NNW	NNW	NW	NNW	N	N	N	S	SSW	SW	NW	N	N	
22 Spd	3.5	7.9	7.1	10.3	11.4	12.0	12.7	15.5	2.3	7.1	5.7	6.3	10.0	9.6	11.3	12.5	5.5	11.0	15.0	16.2	14.3	2.0	11.8	11.1	6.30	16.24	
Dir	SSW	SW	WSW	W	WSW	WSW	WSW	W	NE	SSW	WSW	W	NW	NW	WNW	SW	WSW	NNW	N	N	E	WSW	WNW	W	W	N	

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	14.7	12.4	10.4	4.9	7.1	6.8	5.3	9.2	9.3	6.2	3.5	1.7	2.7	4.6	7.1	7.0	11.2	16.3	21.4	14.6	7.2	3.6	10.7	10.3	5.15	21.36																						
	Dir	W	W	SW	WSW	WSW	W	WSW	W	NNW	NW	NNW	N	NE	NNE	NE	SSE	SSW	SW	NW	WSW	WSW	WSW	WSW	WSW	WSW	SW																					
24 Spd	10.4	11.8	11.6	9.4	13.5	8.5	10.0	8.4	8.5	7.9	10.3	11.8	10.5	10.6	10.2	7.8	5.7	4.2	5.9	9.3	13.1	8.6	7.4	6.2	8.58	13.46																						
	Dir	SW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	SW	WSW	WSW	SSW	SW	WSW	SW	S	S	SSW	SSW	WSW	SSW	WSW	WSW	SW																						
25 Spd	10.0	12.6	7.6	11.8	10.2	8.7	11.0	10.7	9.6	7.8	6.7	9.4	9.8	11.2	10.4	7.2	7.7	7.0	4.4	7.7	9.6	4.9	3.4	3.9	7.25	12.61																						
	Dir	WSW	WSW	WSW	W	WNW	SW	WSW	WSW	W	WNW	WSW	SW	WSW	SW	W	SSW	SW	SSW	S	SSE	SE	WSW	WSW	WSW	WSW																						
26 Spd	4.3	9.2	14.2	17.0	17.7	18.9	13.0	10.4	9.6	12.1	13.2	12.5	6.2	7.8	6.2	9.4	6.0	5.3	5.7	4.5	4.0	3.3	6.8	8.4	6.89	18.92																						
	Dir	SSE	SW	W	WNW	WNW	NW	NW	WNW	NW	NNW	NNW	NW	NW	W	W	WSW	SW	SSW	ESE	N	NNE	WNW	NW	NW																							
27 Spd	13.8	10.6	8.4	3.3	2.7	4.8	2.7	4.6	4.1	4.3	5.6	6.4	10.4	12.4	13.3	10.3	11.5	12.9	11.1	10.0	7.7	6.0	5.1	5.8	4.34	13.84																						
	Dir	N	N	NNE	WSW	WSW	SW	WSW	SSW	SSE	ESE	E	SSE	S	S	SSE	SE	SE	SE	SE	SE	SE	SE	SE	N																							
28 Spd	6.9	6.2	8.8	6.2	13.3	21.5	24.3	21.9	21.5	22.0	19.2	18.0	16.2	16.5	17.1	12.4	10.0	11.0	7.7	5.4	1.7	1.8	3.2	3.8	10.56	24.25																						
	Dir	ESE	NNE	NNW	WSW	WNW	NW	NW	NNW	NNW	NNW	NNW	NW	NNW	NW	NNW	NNW	N	NNE	ENE	E	SSW	SW	NNW	NW																							
29 Spd	4.2	1.4	3.5	8.8	8.0	2.7	5.8	5.0	5.3	6.2	9.0	12.3	15.1	18.1	17.6	16.5	13.6	13.6	13.4	12.7	10.4	6.3	6.4	5.8	7.36	18.05																						
	Dir	SSW	SSW	ENE	ENE	ENE	ESE	NNW	WSW	SW	SE	SSE	SSE	SE	SE	SSE	SE	ESE	ESE	SE	SE	ESE	ESE	SE	SE																							
30 Spd	6.8	9.9	11.5	11.6	10.3	9.2	9.2	7.5	7.9	8.7	11.6	10.8	12.3	10.1	7.4	3.8	4.6	1.7	4.8	6.8	5.8	6.3	0.1	5.6	5.14	12.34																						
	Dir	E	E	E	ESE	ESE	E	E	ESE	ESE	ESE	ESE	ESE	ESE	SE	S	SSW	NNW	NNW	NW	NW	SW	NW	E	ESE																							
Spd	4.13	4.34	4.22	4.58	5.13	5.40	5.16	4.69	3.63	3.45	3.66	2.76	1.98	1.31	1.50	1.33	2.24	4.29	3.30	1.21	0.61	1.20	2.93	4.48	Diurnal Average																							
Dir	WSW	WSW	WSW	W	W	W	W	WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	W	W	WSW	WSW	WSW	WSW																							
Spd	20.07	16.65	17.31	17.78	17.75	21.53	24.25	22.79	25.60	26.96	25.94	24.57	23.13	23.45	23.60	26.13	25.93	29.50	28.73	29.78	26.36	23.23	21.08	20.14	Diurnal Maximum																							
Dir	167.28	153.16	160.05	313.56	297.75	313.11	315.52	157.56	162.35	343.94	354.73	353.74	350.37	0.07	9.13	327.62	323.82	323.75	324.63	321.07	313.90	160.98	278.93	291.82																								
Maximum Speed Value: 29.8 kph on Jun 12 20:00				Minimum Speed Value: 0.1 kph on Jun 30 23:00												Hours in Service: 720				Hours of Data: 718				Hours of Missing Data: 2																								
Maximum Daily Speed Average: 17.24 kph on Jun 12				Minimum Daily Speed Average: 1.85 kph on Jun 18												Percent Operational Time: 99.7																																
Maximum Diurnal Speed Average: 5.40 kph at hour 6				Minimum Diurnal Speed Average: 0.61 kph at hour 21																																												
Monthly Average Velocity: 2.849 kph 284.38 deg				Speed Percentiles: $P_1 = 0.7$ $P_{10} = 4.3$ $Q_1 = 6.8$ Median = 10.4 $Q_3 = 15.0$ $P_{90} = 20.1$ $P_{99} = 26.9$																																												
All monthly, daily, and diurnal averages have been calculated using vector methods																																																
PF - Power Failure																																																
Frequency Distribution																																																
Direction		0 to 5		5 to 11		11 to 19		19 to 28		28 to 38		> 38		Total																																		
North		5	12	25	27	0	0	69																																								
NorthEast		7	23	9	2	0	0	41																																								
East		12	31	10	0	0	0	53																																								
SouthEast		12	30	30	19	0	0	91																																								
South		13	28	17	11	1	0	70																																								
SouthWest		29	78	21	1	0	0	129																																								
West		7	64	57	3	0	0	131																																								
NorthWest		6	39	64	22	3	0	134																																								
Total		91	305	233	85	4	0	718																																								



WCAS - Genesee
Summary of Hourly Averages

Relative Humidity (RH) - %
June 2015

Maximum Value: 93.87 % on Jun 30 03:00 Maximum Daily Average: 85.47 % on Jun 30																								Hours in Service: 720		
Minimum Value: 21.8 % on Jun 24 19:00 Minimum Daily Average: 40.69 % on Jun 7																								Hours of Data: 718		
Maximum Diurnal Average: 80.03 % at hour 5 Minimum Diurnal Average: 40.69 % at hour 18																								Hours of Missing Data: 2		
Monthly Average: 58.702 % Percentiles: P ₁ = 23.3 P ₁₀ = 29.9 Q ₁ = 39.9 Median = 59.8 Q ₃ = 77.3 P ₉₀ = 88.1 P ₉₉ = 93.1																								Hours of Calibration: 0		
Day	Hourly Period Ending At																								Daily Average	Daily Maximum
1-Jun	77.3	80.0	81.2	87.3	88.9	84.8	71.4	58.1	50.7	50.8	58.7	53.5	54.0	54.9	51.8	48.4	46.4	44.6	44.2	46.3	52.3	57.4	59.8	61.3	61.00	88.89
2-Jun	65.2	74.0	72.5	76.1	79.9	84.2	87.2	85.0	81.3	76.1	69.4	64.5	65.2	64.8	61.0	55.7	51.5	44.9	44.1	47.9	54.2	62.0	68.2	69.6	66.86	87.24
3-Jun	70.8	75.7	77.5	80.1	85.0	79.5	67.9	57.9	58.1	50.1	46.2	41.2	39.0	36.3	33.4	28.2	27.8	26.4	26.2	28.5	37.5	49.9	57.5	61.5	51.76	84.95
4-Jun	61.8	57.2	58.6	62.2	64.2	68.7	70.8	66.9	59.8	55.4	50.5	47.4	41.8	36.4	33.1	30.9	41.4	71.3	79.9	73.9	71.8	77.9	87.1	88.1	60.71	88.07
5-Jun	90.3	92.4	93.2	92.5	92.4	86.4	71.5	66.9	76.2	71.4	56.7	50.5	44.5	38.5	34.7	35.8	33.7	32.7	30.4	34.2	42.9	53.7	66.4	65.7	60.57	93.21
6-Jun	66.3	67.8	70.0	62.9	61.7	62.0	57.6	46.6	43.6	37.9	32.4	32.9	31.9	31.5	32.4	30.1	26.2	21.8	26.7	30.4	34.5	39.1	39.2	44.3	42.91	69.98
7-Jun	54.7	61.7	60.0	47.8	65.7	63.1	52.9	41.4	34.3	34.1	31.6	30.3	29.1	27.4	26.5	26.3	26.4	26.8	27.7	32.5	33.6	42.6	46.6	53.2	40.69	65.68
8-Jun	63.5	67.3	70.7	63.7	63.1	65.5	58.9	50.8	39.7	32.1	34.2	33.3	33.2	32.5	31.2	29.3	26.9	25.2	24.7	22.8	33.9	47.5	56.9	60.0	44.46	70.73
9-Jun	68.3	64.9	61.6	66.4	68.6	66.3	59.8	47.7	42.7	39.2	33.5	30.8	29.2	25.4	24.5	26.0	24.9	25.0	29.9	35.9	40.9	48.2	55.3	60.3	44.81	68.60
10-Jun	64.4	66.7	66.2	75.6	78.3	81.4	69.6	56.3	44.0	42.2	38.8	35.8	35.2	37.6	33.5	29.6	30.8	29.1	34.9	45.4	50.9	55.8	61.3	60.8	51.02	81.41
11-Jun	59.8	74.5	75.7	78.0	83.1	81.9	71.0	62.9	57.2	57.5	55.8	53.1	51.0	46.8	45.5	45.1	46.7	43.8	47.4	55.6	62.7	62.6	65.4	66.9	60.42	83.12
12-Jun	68.0	73.0	72.8	70.5	74.7	65.1	66.5	63.9	63.6	60.1	51.4	45.2	42.4	35.5	31.3	34.2	29.7	34.5	43.1	53.1	67.4	78.0	83.0	86.0	58.04	85.97
13-Jun	83.3	77.2	77.3	77.2	75.6	76.5	83.0	82.3	81.5	78.6	77.5	63.1	72.5	85.4	80.5	67.0	64.7	61.2	59.9	61.2	65.7	72.1	74.8	78.6	74.04	85.41
14-Jun	81.5	82.7	86.1	83.6	85.5	85.3	79.5	68.1	59.1	49.2	44.6	44.6	42.7	43.0	42.3	42.3	42.2	44.4	46.1	43.7	52.3	70.1	78.3	84.7	61.74	86.15
15-Jun	88.1	89.5	90.3	91.3	92.0	87.7	73.3	66.3	55.5	49.1	41.1	36.6	34.8	35.4	33.0	32.5	34.2	29.8	26.8	29.9	34.6	49.1	63.1	72.1	55.66	92.01
16-Jun	78.4	77.7	78.2	84.1	88.2	75.3	60.6	50.5	49.2	46.8	37.3	29.9	28.1	34.0	26.6	29.0	36.5	37.3	46.8	78.4	88.5	88.3	PF	PF	56.80	88.49
17-Jun	86.7	91.3	92.0	92.3	91.5	92.3	92.4	91.3	87.5	81.2	75.6	67.4	58.1	54.9	54.3	52.8	49.5	47.4	52.8	42.4	44.5	64.3	84.8	89.6	72.38	92.38
18-Jun	90.8	92.1	93.1	93.4	92.9	91.6	89.1	87.0	79.8	72.5	66.0	63.2	63.6	63.1	55.8	50.3	45.4	38.5	40.3	54.3	57.7	68.5	70.8	71.9	70.48	93.38
19-Jun	82.7	90.6	91.6	92.7	93.0	89.6	70.9	63.8	55.5	48.6	43.5	39.4	39.6	43.7	52.3	62.0	75.5	81.9	89.2	89.5	88.3	84.4	86.5	86.0	72.53	92.95
20-Jun	87.5	90.9	92.6	92.4	93.0	90.6	73.7	68.5	73.1	62.4	53.5	48.7	41.1	38.5	38.6	36.7	46.2	51.6	41.4	32.4	38.0	58.5	70.4	81.6	62.59	92.96
21-Jun	86.9	82.3	84.1	83.7	87.0	84.4	83.6	78.4	69.1	64.0	56.3	53.1	48.3	44.6	41.1	37.4	35.4	39.5	36.0	41.9	45.4	52.8	64.6	75.0	61.45	87.04
22-Jun	85.6	90.0	91.1	84.8	81.4	83.8	78.0	73.7	63.5	59.4	51.1	38.6	32.7	34.5	42.7	59.7	45.7	34.3	35.4	48.2	70.7	77.9	83.7	73.8	63.34	91.13
23-Jun	76.0	77.6	88.7	89.7	89.7	77.6	63.8	61.1	59.2	52.6	48.3	43.8	39.6	38.3	39.1	42.8	47.4	41.2	51.7	62.5	64.4	70.3	77.9	84.6	62.00	89.68
24-Jun	88.1	91.5	90.8	90.8	91.0	82.5	69.7	61.4	51.8	49.7	43.2	35.5	31.6	28.6	26.7	25.9	24.4	22.1	21.8	25.2	33.2	50.5	62.7	66.0	52.69	91.48
25-Jun	69.7	71.3	77.8	65.4	63.6	66.1	66.9	59.1	43.9	39.5	35.3	31.3	28.9	26.4	25.6	25.6	23.7	25.2	33.3	51.3	60.4	54.3	69.6	47.50	77.78	
26-Jun	80.2	85.2	74.5	56.0	64.8	69.9	66.9	62.9	57.8	50.2	43.1	37.0	33.6	32.5	31.1	28.4	27.3	26.3	24.8	27.7	34.1	48.8	56.9	60.1	49.17	85.18
27-Jun	60.2	59.4	55.8	63.1	66.1	62.8	51.2	37.2	30.8	30.7	26.8	27.1	28.4	28.9	29.2	32.2	30.9	32.8	27.3	30.0	39.9	49.4	59.5	63.7	42.65	66.13
28-Jun	69.2	76.5	80.4	82.4	82.3	77.2	70.6	55.9	46.0	37.6	30.0	26.9	26.7	25.2	22.8	23.2	23.4	22.6	23.8	28.8	31.0	36.1	50.2	51.5	45.84	82.39
29-Jun	61.2	64.4	69.0	68.7	65.3	68.2	79.4	80.8	84.6	85.0	84.9	84.4	80.5	77.2	80.5	87.3	88.9	91.3	91.6	91.5	92.0	92.4	81.37	92.41		
30-Jun	93.1	93.7	93.9	93.5	92.5	92.8	91.8	91.5	90.5	88.5	85.9	86.8	80.8	82.1	80.3	68.4	73.2	69.0	68.6	78.1	85.0	88.4	91.0	92.0	85.47	93.87
Diurnal Average																									Diurnal Maximum	
PF - Power Failure																										

Maximum Value: 971.66 W/m ² on Jun 20 13:00 Maximum Daily Average: 360.55 W/m ² on Jun 24																								Hours in Service: 720 Hours of Data: 718 Hours of Missing Data: 2 Hours of Calibration: 0 Percent Operational Time: 99.7		
Minimum Value: 0.0 W/m ² on Jun 1 01:00 Minimum Daily Average: 44.09 W/m ² on Jun 29																										
Maximum Diurnal Average: 690.59 W/m ² at hour 12 Minimum Diurnal Average: 0.00 W/m ² at hour 1																										
Monthly Average: 260.62 W/m ² Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 131.6 Q ₃ = 453.5 P ₉₀ = 739.5 P ₉₉ = 904.6																										
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-Jun	0.0	0.0	0.0	0.0	4.1	70.4	206.7	367.2	516.0	686.6	676.3	837.8	862.9	845.5	779.5	745.1	395.7	432.4	276.4	155.2	42.9	2.1	0.0	0.0	329.28	862.93
2-Jun	0.0	0.0	0.0	0.0	0.0	3.8	18.6	76.3	127.6	145.8	248.3	355.8	285.6	404.2	584.5	563.5	347.6	394.2	292.6	146.5	51.1	2.4	0.0	0.0	168.68	584.53
3-Jun	0.0	0.0	0.0	0.0	5.6	87.9	210.3	345.1	301.5	680.9	635.6	737.7	740.1	620.4	791.1	675.4	444.4	428.9	296.0	165.9	50.8	2.6	0.0	0.0	300.84	791.06
4-Jun	0.0	0.0	0.0	0.0	1.2	22.5	47.6	248.3	537.8	677.6	707.1	795.5	843.2	906.0	729.8	567.2	169.9	31.9	81.1	85.4	66.5	5.3	0.0	0.0	271.82	905.99
5-Jun	0.0	0.0	0.0	0.0	6.6	95.1	277.0	352.0	273.3	654.8	787.8	777.3	841.0	841.0	757.6	661.5	399.4	355.4	325.1	125.0	50.4	1.7	0.0	0.0	315.91	841.04
6-Jun	0.0	0.0	0.0	0.0	6.5	33.3	145.4	380.2	348.8	579.4	791.3	742.6	610.9	820.3	558.4	674.7	373.8	417.7	269.1	151.4	41.8	2.5	0.0	0.0	289.50	820.25
7-Jun	0.0	0.0	0.0	0.0	2.7	72.9	182.3	221.4	544.8	672.7	777.5	845.2	785.0	870.9	735.5	607.7	390.3	323.5	186.1	110.4	61.8	3.5	0.0	0.0	308.08	870.85
8-Jun	0.0	0.0	0.0	0.0	1.8	33.8	176.0	341.7	550.9	595.5	468.2	573.4	528.8	440.9	548.6	453.5	276.7	380.5	327.5	170.1	61.1	3.4	0.0	0.0	247.19	595.54
9-Jun	0.0	0.0	0.0	0.0	0.9	16.5	207.5	395.8	550.2	687.8	784.4	820.8	630.9	882.0	593.8	630.9	438.0	365.8	306.9	175.7	65.4	4.9	0.0	0.0	314.92	881.98
10-Jun	0.0	0.0	0.0	0.0	5.6	40.7	181.5	310.1	537.1	630.8	653.7	824.9	826.8	740.0	865.2	739.7	432.4	446.4	216.9	86.1	32.3	0.8	0.0	0.0	315.46	865.24
11-Jun	0.0	0.0	0.0	0.0	3.9	56.7	191.1	342.9	271.3	309.6	598.0	674.0	669.8	596.8	625.3	375.6	239.2	296.7	332.4	107.8	9.1	0.4	0.0	0.0	237.52	674.00
12-Jun	0.0	0.0	0.0	0.0	2.6	26.5	33.6	88.3	129.5	237.0	411.2	443.4	463.2	763.1	614.0	463.1	408.0	340.3	267.6	136.6	12.0	0.9	0.0	0.0	201.70	763.05
13-Jun	0.0	0.0	0.0	0.4	9.9	26.5	105.6	99.0	220.6	213.7	426.3	115.1	253.7	393.5	381.8	305.5	221.5	138.2	59.0	36.3	2.5	0.0	0.0	125.38	426.30	
14-Jun	0.0	0.0	0.0	0.0	7.1	89.4	234.4	401.2	445.8	627.5	580.7	602.5	536.9	607.4	565.8	550.8	378.9	235.7	160.8	117.0	31.6	3.4	0.0	0.0	257.37	627.47
15-Jun	0.0	0.0	0.0	0.0	6.9	83.3	219.1	397.8	551.4	682.5	618.6	698.3	548.8	333.2	657.2	540.8	320.2	446.3	372.9	185.0	69.6	6.9	0.0	0.0	280.78	698.28
16-Jun	0.0	0.0	0.0	0.0	8.1	91.5	229.8	391.5	544.9	677.6	782.4	846.6	796.6	488.8	714.2	586.0	402.2	130.0	30.7	28.4	17.3	1.5	PF	PF	307.64	846.60
17-Jun	0.0	0.0	0.0	0.0	0.0	11.4	28.5	59.5	150.9	203.2	242.7	482.6	476.2	292.2	317.9	279.5	381.3	305.0	177.9	213.3	71.2	8.5	0.0	0.0	154.24	482.60
18-Jun	0.0	0.0	0.0	0.0	9.4	65.5	73.6	98.7	146.6	262.3	385.8	676.8	505.0	403.6	661.4	705.8	345.7	339.5	230.9	135.3	50.9	8.4	0.0	0.0	212.72	705.76
19-Jun	0.0	0.0	0.0	0.0	12.1	100.1	230.6	345.6	559.6	698.1	628.7	715.9	424.4	178.4	98.6	134.8	162.5	37.3	7.6	18.7	13.4	0.8	0.0	0.0	181.96	715.94
20-Jun	0.0	0.0	0.0	0.0	2.8	84.8	259.6	369.9	319.9	705.5	816.0	893.2	971.7	742.4	795.4	732.7	284.7	128.3	377.0	179.6	82.0	6.4	0.0	0.0	322.99	971.66
21-Jun	0.0	0.0	0.0	0.0	2.6	38.2	107.4	357.4	517.1	480.3	635.9	767.6	859.1	817.9	840.1	674.0	409.5	415.3	337.1	108.7	70.2	15.9	0.0	0.0	310.60	859.10
22-Jun	0.0	0.0	0.0	0.0	4.7	34.1	51.2	68.4	199.6	323.9	802.0	846.0	910.9	629.3	342.6	577.9	330.9	435.4	220.2	82.8	29.0	2.7	0.0	0.0	245.48	910.85
23-Jun	0.0	0.0	0.0	0.0	8.0	105.6	238.2	388.0	542.7	675.0	804.6	792.1	653.0	707.4	438.3	188.4	269.9	352.8	135.0	61.5	26.2	4.6	0.0	0.0	266.30	804.61
24-Jun	0.0	0.0	0.0	0.0	6.9	81.3	221.4	389.3	545.5	684.9	799.5	875.3	914.7	920.0	899.4	785.7	443.5	458.5	342.2	198.9	78.4	7.8	0.0	0.0	360.55	920.00
25-Jun	0.0	0.0	0.0	0.0	7.3	19.6	107.9	321.3	544.9	626.1	717.8	794.1	843.7	958.3	857.4	732.2	422.7	457.3	266.9	121.3	22.1	4.1	0.0	0.0	326.04	958.30
26-Jun	0.0	0.0	0.0	0.0	3.4	63.1	229.8	392.3	547.8	685.6	803.2	879.1	859.1	843.2	861.2	762.3	413.7	450.3	347.7	191.0	72.3	6.4	0.0	0.0	350.47	879.10
27-Jun	0.0	0.0	0.0	0.0	6.4	85.6	210.6	382.4	559.2	679.0	794.0	873.0	863.1	804.0	728.4	687.1	400.3	339.0	347.0	184.7	51.7	11.0	0.0	0.0	333.60	873.00
28-Jun	0.0	0.0	0.0	0.0	4.3	76.8	227.0	418.5	531.4	636.7	800.1	873.3	905.2	902.4	852.4	760.3	424.6	462.8	313.3	198.3	72.6	10.4	0.0	0.0	352.93	905.19
29-Jun	0.0	0.0	0.0	0.0	0.6	6.2	18.5	45.9	49.0	89.4	66.2	110.7	93.0	103.9	83.0	110.5	83.1	67.7	64.4	60.0	5.6	0.4	0.0	0.0	44.09	110.74
30-Jun	0.0	0.0	0.0	0.0	6.2	48.1	52.8	66.1	127.0	132.6	135.7	280.4	116.0	287.4	259.6	101.1	245.7	185.5	56.2	24.3	2.9	0.0	0.0	88.65	287.43	
Diurnal Average: 4.49 W/m ²																									Diurnal Average	
Diurnal Maximum: 15.89 W/m ²																									Diurnal Maximum	
PF - Power Failure																										

Maximum Value: 0.40 mm on Jun 11 18:00 Maximum Daily Total: 0.50 mm on Jun 11																								Hours in Service: 720 Hours of Data: 718 Hours of Missing Data: 2 Hours of Calibration: 0 Percent Operational Time: 99.7			
Minimum Value: 0.0 mm on Jun 1 01:00 Minimum Daily Total: 0.00 mm on Jun 3																											
Maximum Diurnal Total: 0.50 mm at hour 11 Minimum Diurnal Total: 0.00 mm at hour 1																											
Monthly Total: 3.000 mm Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.0 Q ₃ = 0.0 P ₉₀ = 0.0 P ₉₉ = 0.1																											
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 Total	Daily Maximum	
1-Jun	0.0	0.0	0.0	0.0	0.1	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	0.0	0.20	0.10
2-Jun	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	0.0	0.0	0.0	0.0	0.0	0.10	0.10
3-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10
5-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10
6-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
7-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
8-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
10-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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-Jun	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	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.40
12-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
13-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.10	0.10
14-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
15-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
16-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	PF	PF	0.00	0.00	0.00	0.00
17-Jun	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.50	0.10
18-Jun	0.0	0.0	0.0	0.0	0.1	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	0.1	0.0	0.0	0.0	0.0	0.0	0.30	0.10
19-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10
20-Jun	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	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.20	0.10
21-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
22-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.10
23-Jun	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.20
24-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
25-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
26-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10
27-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
28-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
29-Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10
30-Jun	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	0.1	0.0	0.0	0.0	0.0	0.0	0.20	0.10
Diurnal Average: 0.00 0.10 0.10 0.00 0.20 0.10 0.10 0.00 0.20 0.50 0.00 0.10 0.10 0.10 0.10 0.00 0.40 0.00 0.00 0.10 0.30 0.20 0.10																											
Diurnal Maximum: 0.00 0.10 0.10 0.00 0.10 0.10 0.10 0.00 0.10 0.20 0.00 0.10 0.10 0.10 0.10 0.00 0.40 0.00 0.00 0.10 0.10 0.10 0.10																											
PF - Power Failure																											

Maximum Value: 18.03 kph on Jun 11 18:00 Maximum Daily Average: 4.42 kph on Jun 12																								Hours in Service: 720 Hours of Data: 718 Hours of Missing Data: 2 Hours of Calibration: 0 Percent Operational Time: 99.7			
Minimum Value: 0.4 kph on Jun 30 23:00 Minimum Daily Average: 2.20 kph on Jun 30																											
Maximum Diurnal Average: 4.94 kph at hour 15 Minimum Diurnal Average: 2.05 kph at hour 23																											
Monthly Average: 3.288 kph Percentiles: P ₁ = 0.8 P ₁₀ = 1.4 Q ₁ = 2.1 Median = 3.1 Q ₃ = 4.4 P ₉₀ = 5.2 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-Jun	1.7	2.0	3.0	2.5	3.5	1.0	4.1	0.8	3.1	6.3	3.9	4.7	4.7	4.5	4.8	4.1	4.6	3.6	2.9	3.1	2.9	2.7	2.2	2.8	3.31	6.30	
2-Jun	1.2	1.5	2.0	2.4	1.9	2.1	2.6	2.6	2.6	3.3	4.5	4.4	4.5	4.8	5.1	4.4	5.1	4.4	4.7	3.6	3.0	2.1	3.3	3.29	5.11		
3-Jun	3.3	2.6	2.0	2.0	1.7	1.5	3.5	4.2	4.6	4.3	4.8	6.1	5.4	4.8	5.6	6.1	5.5	4.5	4.4	4.2	3.1	0.9	1.8	1.7	3.69	6.15	
4-Jun	1.6	1.2	1.4	1.5	1.2	1.4	1.7	2.1	2.7	4.0	4.7	4.2	4.9	6.0	5.5	5.3	6.7	4.4	2.5	2.4	1.4	2.2	1.5	3.0	3.06	6.66	
5-Jun	2.8	1.8	2.1	3.1	3.2	2.6	2.0	2.4	2.3	3.3	3.9	4.1	4.7	4.9	6.2	4.4	5.4	3.4	4.1	2.9	1.4	1.8	1.9	3.17	6.23		
6-Jun	2.2	4.8	4.6	1.3	1.6	1.7	1.6	3.2	3.6	4.5	5.4	5.7	4.6	5.5	4.9	4.6	4.3	5.2	3.1	2.6	2.2	1.3	0.9	2.5	3.42	5.70	
7-Jun	2.4	1.6	1.2	1.8	1.6	1.1	1.9	2.8	4.7	4.1	5.5	5.4	4.8	6.1	6.0	4.7	4.0	3.3	3.1	1.7	1.2	1.9	0.8	1.1	3.03	6.10	
8-Jun	2.2	1.5	1.5	1.7	1.3	7.2	6.3	3.9	4.2	4.5	4.5	6.4	4.3	4.2	6.4	5.6	5.4	4.8	4.5	5.1	5.0	2.9	2.1	3.0	4.10	7.21	
9-Jun	3.7	3.3	3.1	2.1	1.9	2.5	3.1	2.3	3.3	3.4	4.9	5.6	5.0	4.9	4.0	4.9	5.4	4.0	5.7	4.0	4.7	2.4	1.6	1.6	3.65	5.70	
10-Jun	1.1	1.5	1.1	2.2	2.1	2.1	1.7	2.4	2.8	5.3	4.0	4.8	5.4	3.5	4.7	5.2	4.7	4.2	3.1	3.4	2.3	2.1	2.6	4.2	3.19	5.38	
11-Jun	5.8	4.3	3.1	2.6	1.0	3.8	1.6	3.5	1.7	3.5	3.7	3.9	3.8	4.0	3.9	3.3	2.0	18.0	7.0	3.5	3.0	5.4	7.1	2.7	4.26	18.03	
12-Jun	3.2	2.6	2.3	2.1	5.3	4.0	3.2	3.8	2.9	3.5	3.8	4.3	4.4	5.5	5.5	7.3	5.8	9.4	5.9	5.9	7.9	5.0	1.0	1.4	4.42	9.44	
13-Jun	2.1	3.3	2.2	3.4	4.2	3.9	3.4	4.5	3.9	3.5	4.5	4.7	3.9	3.6	4.6	4.9	5.1	3.9	5.1	3.8	2.7	3.6	4.0	3.9	3.86	5.14	
14-Jun	3.4	2.6	2.6	2.6	3.0	2.5	2.8	4.0	4.5	4.7	5.0	4.4	5.0	4.6	5.5	4.8	5.2	3.4	2.8	2.0	2.6	1.9	1.4	1.4	3.44	5.52	
15-Jun	1.3	1.1	1.2	2.7	1.3	1.2	1.8	2.3	2.4	3.5	3.3	4.3	4.0	4.3	5.2	4.6	4.5	4.2	4.3	2.5	3.1	0.9	0.8	1.7	2.78	5.21	
16-Jun	0.8	1.0	1.1	1.6	2.7	1.2	2.2	2.8	3.1	3.4	3.5	4.0	5.4	4.9	5.9	6.6	6.8	3.8	2.6	3.8	2.1	1.8	PF	PF	3.23	6.83	
17-Jun	3.4	3.1	2.3	2.2	2.0	2.4	3.4	1.9	1.9	1.8	2.3	3.8	3.9	3.4	3.0	2.9	3.6	3.1	2.3	2.3	1.5	0.6	0.6	0.7	2.44	3.88	
18-Jun	0.9	1.0	1.6	1.8	1.8	2.4	2.4	2.5	2.6	2.4	3.4	3.6	3.2	2.8	2.5	3.5	3.3	3.1	4.2	3.4	3.0	1.2	3.2	3.7	2.64	4.20	
19-Jun	2.2	2.1	2.3	1.6	1.5	1.9	1.5	2.1	4.2	4.4	4.5	4.3	4.3	3.4	3.8	2.3	6.6	5.3	5.6	3.2	2.9	3.3	3.0	2.8	3.30	6.58	
20-Jun	3.3	1.5	1.2	1.2	1.1	2.3	2.3	2.5	2.3	3.9	3.7	4.2	5.0	5.2	5.3	4.6	6.3	5.3	4.7	1.7	1.6	1.4	3.0	2.3	3.16	6.31	
21-Jun	2.0	3.0	2.9	2.4	1.3	2.5	2.2	3.0	3.4	4.3	4.2	4.6	4.4	4.7	4.4	5.2	5.0	4.3	4.4	2.1	1.2	1.4	1.7	2.1	3.19	5.23	
22-Jun	1.9	1.2	2.0	3.5	2.1	1.4	3.4	3.7	2.3	4.5	3.9	4.5	4.8	5.1	9.3	5.5	3.8	5.7	3.3	3.6	4.3	2.9	1.2	1.7	3.57	9.35	
23-Jun	3.4	4.9	4.0	3.1	1.3	1.6	2.1	2.6	2.4	3.6	3.9	3.2	3.3	3.4	4.1	2.9	5.5	5.3	3.9	4.0	2.6	2.9	1.4	1.2	3.19	5.48	
24-Jun	0.8	1.1	2.8	4.4	3.0	2.2	1.5	1.7	2.5	2.7	3.1	3.7	5.4	4.7	5.4	4.8	4.3	4.5	3.4	3.2	1.5	2.8	2.3	2.3	3.09	5.44	
25-Jun	1.8	0.9	4.4	2.7	2.1	2.5	2.7	1.8	3.3	3.5	3.4	5.0	6.3	5.3	4.4	5.0	5.1	3.5	3.4	3.0	2.0	2.5	1.4	7.0	3.45	6.99	
26-Jun	2.1	1.3	4.5	4.2	3.5	2.8	2.8	2.4	2.6	4.0	4.0	4.5	5.1	5.0	4.7	5.4	5.0	4.2	3.6	1.4	2.5	2.2	4.0	2.2	3.50	5.38	
27-Jun	0.9	4.1	3.2	2.4	1.3	1.2	2.5	1.4	2.0	2.3	3.2	3.8	4.8	6.7	5.5	4.8	4.5	2.5	3.0	2.0	1.2	1.1	1.8	1.1	2.80	6.70	
28-Jun	1.1	2.5	2.6	3.8	3.2	3.1	3.6	4.0	3.7	3.7	4.5	4.5	5.2	5.3	5.6	4.7	4.5	4.8	3.8	1.4	1.3	2.2	2.2	2.5	3.49	5.56	
29-Jun	0.9	1.5	2.8	1.6	1.3	3.4	4.2	2.9	5.3	2.3	2.2	2.6	3.6	4.8	3.8	2.4	3.3	2.8	2.7	2.4	1.9	1.7	1.8	2.69	5.29		
30-Jun	2.0	2.6	3.1	3.1	3.0	2.3	2.5	2.0	1.9	2.8	2.7	2.4	2.7	2.2	2.0	2.7	1.6	2.2	1.7	1.3	1.1	1.9	0.4	2.5	2.20	3.14	
	2.18	2.25	2.48	2.45	2.21	2.40	2.69	2.74	3.10	3.68	3.91	4.38	4.52	4.55	4.94	4.66	4.71	4.75	3.85	3.03	2.61	2.26	2.05	2.42	Diurnal Average		
	5.78	4.86	4.62	4.39	5.28	7.21	6.27	4.48	5.29	6.30	5.50	6.35	6.31	6.70	9.35	7.30	6.83	18.03	7.04	5.87	7.94	5.38	7.05	6.99	Diurnal Maximum		
PF - Power Failure Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ul/m^3 24-hr 100 ul/m^3																											

Maximum Value: 102.68 deg on Jun 14 20:00 Maximum Daily Average: 35.01 deg on Jun 23																								Hours in Service: 720 Hours of Data: 718 Hours of Missing Data: 2 Hours of Calibration: 0 Percent Operational Time: 99.7			
Minimum Value: 2.9 deg on Jun 6 04:00 Minimum Daily Average: 13.13 deg on Jun 2																											
Maximum Diurnal Average: 33.99 deg at hour 16 Minimum Diurnal Average: 16.28 deg at hour 5																											
Monthly Average: 23.360 deg Percentiles: P ₁ = 4.4 P ₁₀ = 8.8 Q ₁ = 11.5 Median = 17.7 Q ₃ = 29.0 P ₉₀ = 47.4 P ₉₉ = 88.9																											
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-Jun	6.7	6.8	22.6	52.9	13.5	4.3	20.2	40.9	18.9	62.0	14.9	17.9	19.6	20.0	22.3	23.3	23.3	18.5	17.9	11.1	10.7	8.9	7.5	9.4	19.75	62.01	
2-Jun	16.6	17.3	23.8	14.2	20.3	15.7	10.4	15.0	15.7	10.5	13.2	14.2	11.6	13.5	15.8	19.0	12.2	12.2	10.0	9.7	6.6	5.3	5.6	6.6	13.13	23.78	
3-Jun	7.6	8.2	5.2	4.7	14.3	16.3	19.3	10.3	11.4	14.9	15.6	18.0	17.1	16.1	21.4	15.9	15.8	15.9	15.1	9.8	10.3	9.3	15.3	12.1	13.33	21.40	
4-Jun	9.6	13.8	12.7	18.1	9.1	20.7	16.2	14.5	18.1	24.8	21.6	27.2	31.3	23.3	19.4	14.5	47.6	19.2	17.0	84.8	24.9	32.7	26.7	29.5	24.06	84.80	
5-Jun	64.3	37.9	9.2	15.6	22.5	7.3	12.8	22.3	15.9	23.2	21.5	31.7	47.4	49.7	41.4	23.8	34.7	34.0	53.4	49.2	33.0	16.3	7.4	5.8	28.35	64.26	
6-Jun	18.4	67.4	27.1	2.9	7.6	8.1	7.1	9.8	10.6	17.0	15.0	32.3	24.9	40.3	38.1	81.5	28.7	26.6	18.8	16.2	4.8	6.3	8.2	29.0	22.78	81.55	
7-Jun	33.7	6.5	8.8	12.5	4.5	5.4	13.4	14.9	13.0	17.0	20.9	25.4	26.0	37.3	25.3	31.9	52.9	69.4	56.9	9.5	20.4	13.0	4.1	4.4	21.95	69.41	
8-Jun	35.8	13.2	12.1	7.3	11.6	28.0	9.2	11.7	14.5	11.1	16.3	20.1	15.5	16.1	15.5	16.6	17.2	12.0	11.1	16.6	18.5	14.3	10.8	91.9	18.62	91.92	
9-Jun	14.4	9.0	12.1	13.2	9.0	10.0	7.3	11.3	13.5	16.0	22.9	32.9	50.6	45.9	34.5	35.2	25.8	21.2	12.3	9.6	9.5	10.4	35.9	21.7	20.18	50.58	
10-Jun	12.6	46.2	27.1	69.1	61.0	71.1	74.4	18.4	23.7	23.2	17.2	26.7	21.2	11.5	17.1	15.6	18.9	19.4	10.4	11.4	10.3	11.1	33.7	37.6	28.70	74.42	
11-Jun	59.1	21.5	23.6	8.4	5.5	32.7	20.3	50.0	12.4	44.4	38.7	43.7	34.5	34.6	26.0	21.0	17.4	31.7	13.2	10.7	14.2	20.1	12.3	9.6	25.23	59.14	
12-Jun	10.1	20.8	13.6	23.3	48.7	10.0	13.5	12.0	9.1	10.6	13.7	17.9	16.3	26.6	27.5	16.9	14.9	11.5	9.7	8.3	10.8	15.0	14.4	6.8	15.91	48.67	
13-Jun	9.5	12.7	14.7	10.5	12.2	12.1	11.2	13.3	10.1	14.6	14.7	15.1	11.1	21.2	19.1	18.7	17.4	16.8	9.7	14.7	11.0	10.6	11.2	9.3	13.40	21.21	
14-Jun	7.8	9.1	9.2	7.0	11.8	10.3	9.8	10.8	12.1	21.6	20.6	20.0	19.0	19.7	22.8	17.7	19.0	31.4	39.6	102.7	55.3	8.9	8.2	5.1	20.81	102.68	
15-Jun	4.3	5.3	5.2	9.6	6.8	7.8	6.1	12.9	21.1	28.7	49.6	26.1	47.5	26.7	35.9	41.8	32.0	27.9	21.3	15.2	7.6	6.5	11.3	9.3	19.43	49.59	
16-Jun	18.1	7.8	14.8	18.7	12.7	15.6	11.3	26.7	38.6	68.0	40.2	36.4	31.2	41.7	37.7	39.1	40.7	18.1	26.3	56.0	58.8	16.1	PF	PF	30.67	68.01	
17-Jun	17.0	16.1	14.9	8.6	8.8	9.7	28.5	15.0	23.8	26.0	27.2	47.3	41.4	33.3	23.9	25.9	27.1	23.2	15.5	17.7	10.2	5.7	9.7	5.5	20.09	47.31	
18-Jun	11.6	6.6	7.2	10.7	11.2	11.0	10.9	17.3	13.0	34.8	34.6	31.1	23.5	43.3	94.3	63.8	94.6	51.8	43.9	10.3	10.0	10.5	12.4	44.4	29.28	94.56	
19-Jun	37.0	58.6	29.5	11.4	16.5	31.9	36.0	19.1	20.0	16.9	17.9	16.8	17.6	19.4	15.1	50.7	22.2	13.2	26.1	11.5	14.3	13.7	10.4	11.5	22.38	58.65	
20-Jun	31.3	6.6	11.9	8.6	4.8	7.5	9.1	19.0	27.4	19.3	18.9	24.5	20.9	20.1	26.7	90.1	17.4	49.6	14.3	17.6	73.4	98.3	46.7	49.6	29.74	98.25	
21-Jun	10.1	22.6	35.6	23.5	8.9	15.5	8.3	11.9	17.3	21.7	21.3	29.8	41.7	53.0	40.8	32.5	26.9	14.4	18.1	17.9	36.1	25.1	20.6	13.7	23.64	52.96	
22-Jun	49.3	18.0	11.5	27.4	14.4	5.1	21.9	25.1	71.7	27.5	38.6	48.5	35.1	46.5	56.0	38.6	45.8	23.8	11.8	20.3	15.9	77.9	6.9	8.9	31.11	77.90	
23-Jun	10.9	33.0	39.2	61.1	16.2	17.4	22.6	18.0	22.3	41.8	85.6	94.9	67.6	51.0	38.9	23.7	21.9	17.8	9.3	13.0	43.2	73.2	7.6	9.8	35.01	94.87	
24-Jun	9.0	8.7	5.0	14.3	7.9	23.5	6.9	11.9	18.1	20.7	20.9	26.5	35.9	28.2	34.2	48.8	46.3	65.7	39.1	26.4	4.2	11.5	20.3	40.5	23.94	65.72	
25-Jun	8.0	4.1	28.4	19.7	22.6	16.3	9.6	10.2	23.4	29.1	33.0	30.8	37.6	36.2	31.7	65.1	40.9	33.5	32.4	18.1	16.0	18.7	23.5	72.8	27.57	72.75	
26-Jun	37.1	16.2	16.2	11.0	10.3	8.2	13.7	14.6	21.9	24.8	18.6	23.4	66.7	48.4	62.7	37.5	57.0	57.5	30.3	15.7	16.2	22.6	44.4	17.2	28.84	66.72	
27-Jun	15.7	11.9	10.5	78.4	47.5	17.1	27.5	27.8	22.1	39.8	39.0	50.0	36.8	41.5	24.5	26.7	27.1	17.2	17.2	9.5	8.9	18.0	18.3	14.2	26.97	78.45	
28-Jun	14.2	48.7	9.6	64.3	15.4	6.6	6.9	7.5	9.0	13.8	18.2	15.4	20.1	20.7	17.9	26.8	43.0	26.8	38.3	12.7	38.3	48.6	20.1	24.1	23.62	64.27	
29-Jun	14.9	21.3	30.1	10.5	16.1	66.3	52.3	42.6	66.2	31.4	10.5	10.6	9.6	10.3	11.1	11.0	12.2	12.0	10.3	10.1	13.8	14.1	12.0	14.6	21.41	66.31	
30-Jun	15.3	15.7	14.4	14.7	17.1	17.6	15.9	19.6	11.7	13.9	11.8	11.5	12.5	12.7	26.8	45.9	49.1	52.2	20.4	7.7	8.4	12.3	67.3	21.8	21.51	67.26	
Diurnal Average 20.34 19.72 16.86 21.74 16.28 17.64 17.75 18.49 20.90 25.64 25.09 28.90 29.73 30.29 30.81 33.99 31.66 28.15 22.32 21.46 20.52 21.82 18.38 21.96																											
Diurnal Maximum 64.26 67.43 39.21 78.45 61.03 71.10 74.42 49.98 71.74 68.01 85.60 94.87 67.64 52.96 94.27 90.10 94.56 69.41 56.88 102.68 73.38 98.25 67.26 91.92																											
PF - Power Failure Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ul/m^3 24-hr 100 ul/m^3																											

WEST CENTRAL AIRSHED SOCIETY

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

**END OF REPORT
JUNE 2015**