

Hinton Pulp
A division of West Fraser Mills Limited
Hinton, Alberta

AIR QUALITY MONITORING
December 2015
Monthly Report

Prepared by:

West Central Airshed Society
Drayton Valley, Alberta





January 13th, 2016

Hinton Pulp
A Division of West Fraser Mills Ltd.
Mr. Phil Whitney
760 Switzer Drive
Hinton, Alberta
T7V 1V7

Dear Mr. Whitney:

**Monthly Ambient Air Quality Monitoring Report for December 2015
For Hinton Pulp – A Division of West Fraser Mills Ltd.**

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

Network Station is AMS 906 Hinton
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 7 readings occurring in December 2015 in excess of the one – hour average guidelines as indicated in Air Monitoring Directive Section III.A.3. (a) for H₂S. The maximum one-hour average reading was 34.38 ppb, occurring December 30th. There was one reading in December 2015 in excess of the twenty–four hour average guidelines as indicated in Air Monitoring Directive Section III.A.3. (a) for H₂S. The maximum 24-hour average reading was 8.47 ppb.

2. Operational times less than 90 percent:

There were no operational times less than 90 percent in the month of December.

3. Monitoring Notes:

AMS 906 (Hinton)

The PM_{2.5} analyzer experienced unstable operation, returning an uptime of 99.5 percent. The wind head froze and failed to return data, with an uptime of 91.4 percent. All other analyzers and meteorological equipment returned uptimes of 100 percent for the month of December.

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

Sincerely,



Robert Scotten
Executive Director



Patrick Andersen
Environmental Specialist

Forest Products Industry Monthly Report Summary

Hinton
Plant Name/Location

Hinton Pulp - A Division of West Fraser Mills Ltd.
Company

| | | |
|----------------|-------------|----------|
| License Number | Report Date | |
| | Year | Month |
| | 2015 | December |

TOTAL EMISSIONS FOR MONTH (IN TONNES)

| POLLUTANT | INCINERATOR STACK | FLARE | MISCELLANEOUS |
|-----------------|-------------------|-------|---------------|
| SO ₂ | | | |

"HOURS" OF EXCEEDED STACK LICENSED LIMITS (CEM)

| POLLUTANT | STACK TYPE | 1-HR AVG CONCENTRATION | 1-HR AVG MASS EMISSION | 24-HR AVG MASS EMISSION | STACK TOP TEMP. | % TIME STACK MONITOR OPERATIONAL |
|-----------------|------------|------------------------|------------------------|-------------------------|-----------------|----------------------------------|
| SO ₂ | | | | | | |

STATIC AMBIENT MONITORING

| PARAMETER | NO. OF STATIONS | PEAK READING | AVG. OF NETWORK | NO. OF STATIONS OVER GUIDELINES |
|------------------|-----------------|--------------|-----------------|---------------------------------|
| T.S. | | | | |
| H ₂ S | | | | |

CONTINUOUS AMBIENT MONITORING

| PARAMETER | STATION NUMBER | % TIME OPERATIONAL | 1-HR AVERAGE | | 24-HR AVERAGE | |
|-------------------|----------------|--------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|
| | | | MAXIMUM CONCENTRATION (ppm) | NO. READINGS > REGULATIONS | MAXIMUM CONCENTRATION (ppm) | NO. READINGS > REGULATIONS |
| Wind | 906 | 91.4 | n/a | n/a | n/a | n/a |
| TRS | 906 | 100.0 | 0.034 | 7 | 0.008 | 1 |
| PM _{2.5} | 906 | 99.5 | 31.7 µg/m ³ | 0 | 15.73 µg/m ³ | 0 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |

SIGNATURE OF COMPANY REPRESENTATIVE

FOR ALBERTA ENVIRONMENT USE ONLY

WEST CENTRAL AIRSHED SOCIETY

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

**AMS 906
HINTON
DECEMBER 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

| Hinton Pulp / Hinton Station 906 | | | | | | | | | | | | | December 2015 | | 24 Hour Average Max (ppm) |
|---------------------------------------------------|-------------------|----------------|----------------|------|-------|-------|------------|-------|--------|------|------|-------------|---------------|-------------|---------------------------|
| Parameter | Calibration Hours | Number of Data | Percent Uptime | Mean | Min | Max | Percentile | | | | | Exceedences | | | |
| | | | | | | | P10 | Q1 | Median | Q3 | P90 | 1-hour | 24-hour | | |
| TRS (ppb) | 35 | 709 | 100.0 | 1.4 | 0.0 | 34.0 | 0.2 | 0.3 | 0.8 | 1.7 | 3.0 | 7 | 1 | 0.008 | |
| SO ₂ (ppb) | 35 | 709 | 100.0 | 0.5 | 0.0 | 7.7 | 0.0 | 0.1 | 0.2 | 0.3 | 1.1 | 0 | - | 0.003 | |
| O ₃ (ppb) | 35 | 709 | 100.0 | 15.3 | 0.0 | 42.2 | 0.6 | 3.2 | 11.4 | 28.9 | 34.3 | 0 | 0 | 0.035 | |
| NO (ppb) | 37 | 707 | 100.0 | 9.9 | 0.0 | 124.6 | 0.2 | 0.8 | 2.4 | 11.4 | 29.1 | - | - | - | |
| NO ₂ (ppb) | 37 | 707 | 100.0 | 11.8 | 0.8 | 42.0 | 3.9 | 7.0 | 10.7 | 15.0 | 21.3 | 0 | 0 | 0.020 | |
| NO _x (ppb) | 37 | 707 | 100.0 | 21.7 | 0.9 | 143.1 | 4.7 | 8.0 | 14.4 | 27.7 | 47.3 | - | - | - | |
| Particulate Matter 2.5 microns (µm ³) | 0 | 740 | 99.5 | 7.6 | 0.0 | 31.7 | 2.8 | 4.2 | 6.6 | 9.9 | 13.2 | 0 | 0 | 15.73 ug/m3 | |
| Wind Speed (kph) | 0 | 680 | 91.4 | 3.7 | 0.1 | 17.6 | 0.5 | 1.0 | 2.4 | 5.6 | 9.2 | - | - | - | |
| Temperature (°C) | 0 | 744 | 100.0 | -7.1 | -26.8 | 8.6 | -17.6 | -13.4 | -6.7 | -2.0 | 4.2 | - | - | - | |
| Relative Humidity (%) | 0 | 744 | 100.0 | 66.6 | 27.2 | 90.9 | 39.6 | 48.9 | 74.6 | 80.6 | 87.1 | - | - | - | |
| Std Dev Wind Direction (deg) | 0 | 680 | 91.4 | 48.1 | 16.5 | 108.9 | 24.9 | 31.6 | 42.5 | 61.1 | 82.8 | - | - | - | |
| Std Dev Wind Speed (kph) | 0 | 680 | 91.4 | 2.5 | 0.0 | 9.6 | 0.9 | 1.2 | 1.8 | 3.4 | 5.5 | - | - | - | |



WCAS - Hinton
Summary of Hourly Averages

Total Reduced Sulphur (TRS) - ppb
December 2015

| Maximum Value: 34.38 ppb on Dec 30 21:00 | | Maximum Daily Average: 8.47 ppb on Dec 30 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------|----|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|---------------|---------------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-----------------|--|
| Minimum Value: 0 ppb on Dec 15 23:00 | | Minimum Daily Average: 0.28 ppb on Dec 27 | | Hours of Data: 709 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: 2.17 ppb at hour 21 | | Minimum Diurnal Average: 0.91 ppb at hour 15 | | Hours of Missing Data: 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: 1.425 ppb | | Percentiles: P ₁ = 0.2 P ₁₀ = 0.2 Q ₁ = 0.3 Median = 0.8 Q ₃ = 1.7 P ₉₀ = 3.0 P ₉₉ = 10.9 | | Hours of Calibration: 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 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-Dec | 1 | 2 | 3 | Z | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 1 | 0 | 1.00 | 2.72 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Dec | 0 | 0 | 0 | Z | 2 | 1 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1.20 | 3.43 | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Dec | 0 | 0 | 0 | Z | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0.53 | 1.23 | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Dec | 0 | 1 | 3 | Z | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 1 | 1 | 0 | 1 | 2 | 1.45 | 3.45 | | | | | | | | | | | | | | | | | | | | | | | |
| 5-Dec | 2 | 1 | 1 | Z | 1 | 1 | 3 | 3 | 2 | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0.99 | 3.31 | | | | | | | | | | | | | | | | | | | | | | | |
| 6-Dec | 1 | 0 | 0 | Z | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 0.56 | 2.26 | | | | | | | | | | | | | | | | | | | | | | |
| 7-Dec | 2 | 0 | 0 | Z | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 0 | 1 | 2 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 1.37 | 2.87 | | | | | | | | | | | | | | | | | | | | | | | |
| 8-Dec | 5 | 5 | 2 | Z | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 2 | 5 | 4 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 6 | 2.13 | 5.80 | | | | | | | | | | | | | | | | | | | | | | | |
| 9-Dec | 5 | 7 | 5 | Z | 4 | 5 | 4 | 4 | 4 | 3 | 2 | 2 | 1 | 1 | 1 | 3 | 4 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 3.26 | 7.22 | | | | | | | | | | | | | | | | | | | | | | | |
| 10-Dec | 2 | 3 | 4 | Z | 11 | 5 | 5 | 5 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2.25 | 11.44 | | | | | | | | | | | | | | | | | | | | | | | |
| 11-Dec | 0 | 0 | 0 | Z | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.61 | 1.36 | | | | | | | | | | | | | | | | | | | | | | | |
| 12-Dec | 2 | 3 | 3 | Z | 2 | 2 | 2 | 2 | 3 | 7 | 5 | 2 | 1 | C | C | C | C | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1.84 | 6.50 | | | | | | | | | | | | | | | | | | | | | | | |
| 13-Dec | 0 | 0 | 0 | Z | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.29 | 0.40 | | | | | | | | | | | | | | | | | | | | | | | |
| 14-Dec | 0 | 0 | 0 | Z | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0.98 | 2.24 | | | | | | | | | | | | | | | | | | | | | | | |
| 15-Dec | 1 | 1 | 1 | Z | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0.43 | 1.32 | | | | | | | | | | | | | | | | | | | | | | | |
| 16-Dec | 0 | 0 | 0 | Z | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0.66 | 1.34 | | | | | | | | | | | | | | | | | | | | | | | |
| 17-Dec | 1 | 1 | 1 | Z | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1.02 | 2.03 | | | | | | | | | | | | | | | | | | | | | | | |
| 18-Dec | 0 | 0 | 0 | Z | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.35 | 0.45 | | | | | | | | | | | | | | | | | | | | | | | |
| 19-Dec | 0 | 0 | 0 | Z | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0.62 | 1.78 | | | | | | | | | | | | | | | | | | | | | | | |
| 20-Dec | 0 | 0 | 1 | Z | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 0.80 | 2.02 | | | | | | | | | | | | | | | | | | | | | | | |
| 21-Dec | 2 | 2 | 1 | Z | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 0.92 | 1.93 | | | | | | | | | | | | | | | | | | | | | | | |
| 22-Dec | 2 | 2 | 2 | Z | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 3 | 4 | 2 | 2 | 2 | 2.41 | 3.91 | | | | | | | | | | | | | | | | | | | | | | | |
| 23-Dec | 1 | 1 | 1 | Z | 1 | 1 | 1 | 3 | 2 | 1 | 4 | 4 | 3 | 3 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1.74 | 4.22 | | | | | | | | | | | | | | | | | | | | | | | |
| 24-Dec | 1 | 1 | 2 | Z | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.68 | 1.94 | | | | | | | | | | | | | | | | | | | | | | | |
| 25-Dec | 3 | 4 | 1 | Z | 1 | 1 | 3 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1.08 | 3.74 | | | | | | | | | | | | | | | | | | | | | | | |
| 26-Dec | 1 | 1 | 1 | Z | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0.52 | 1.22 | | | | | | | | | | | | | | | | | | | | | | | |
| 27-Dec | 0 | 0 | 0 | Z | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.28 | 0.48 | | | | | | | | | | | | | | | | | | | | | | | |
| 28-Dec | 0 | 0 | 1 | Z | 1 | 1 | 1 | 2 | 3 | 2 | 1 | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1.51 | 3.07 | | | | | | | | | | | | | | | | | | | | | | | |
| 29-Dec | 1 | 1 | 1 | Z | 1 | 2 | 3 | 3 | 3 | 4 | 8 | 6 | 5 | 3 | 1 | 0 | 0 | 1 | 1 | 1 | 7 | 6 | 3 | 3 | 2.78 | 7.87 | | | | | | | | | | | | | | | | | | | | | | | |
| 30-Dec | 3 | 14 | 5 | Z | 4 | 6 | 4 | 5 | 6 | 10 | 7 | 3 | 3 | 1 | 1 | 1 | 2 | 3 | 9 | 18 | 34 | 27 | 17 | 12 | 8.47 | 34.38 | | | | | | | | | | | | | | | | | | | | | | | |
| 31-Dec | 8 | 5 | 3 | Z | 3 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 4 | 1.49 | 8.32 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.52 | 1.91 | 1.48 | -- | 1.51 | 1.24 | 1.53 | 1.64 | 1.48 | 1.55 | 1.58 | 1.33 | 1.10 | 0.99 | 0.91 | 0.92 | 0.94 | 1.08 | 1.42 | 1.52 | 2.17 | 1.82 | 1.52 | 1.54 | Diurnal Average | |
| | | | | | | | | | | | | | | | | | | | | | | | | 8.32 | 14.22 | 5.39 | -- | 11.44 | 5.54 | 4.60 | 5.43 | 5.51 | 9.91 | 7.87 | 6.46 | 4.76 | 3.91 | 4.51 | 4.06 | 3.74 | 3.74 | 9.13 | 17.80 | 34.38 | 27.23 | 17.47 | 12.29 | Diurnal Maximum | |
| Z - zerospan C - Calibration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 10 ppb 24-hr 3 ppb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Hinton
Summary of Hourly Averages

Sulphur Dioxide (SO₂) - ppb
December 2015

| Maximum Value: 7.72 ppb on Dec 5 00:00 | | Maximum Daily Average: 3.04 ppb on Dec 4 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------|-----|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|-----------------|--|--|--|--|--|--|--|
| Minimum Value: 0.0 ppb on Dec 3 00:00 | | Minimum Daily Average: 0.06 ppb on Dec 25 | | Hours of Data: 709 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: 0.70 ppb at hour 9 | | Minimum Diurnal Average: 0.26 ppb at hour 22 | | Hours of Missing Data: 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: 0.493 ppb | | Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.1 Median = 0.2 Q ₃ = 0.3 P ₉₀ = 1.1 P ₉₉ = 6.2 | | Hours of Calibration: 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 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-Dec | 0.1 | 0.0 | 0.2 | Z | 0.1 | 0.3 | 0.3 | 0.4 | 0.4 | 0.1 | 0.0 | 0.6 | 0.5 | 0.8 | 0.7 | 0.4 | 0.2 | 0.2 | 0.2 | 0.3 | 2.1 | 0.2 | 0.3 | 0.2 | 0.39 | 2.14 | | | | | | | |
| 2-Dec | 0.1 | 0.2 | 0.1 | Z | 1.5 | 0.2 | 2.9 | 5.4 | 3.3 | 5.7 | 4.7 | 5.9 | 3.5 | 4.6 | 1.2 | 2.3 | 3.5 | 4.3 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.22 | 5.88 | | | | | | | |
| 3-Dec | 0.0 | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.14 | 0.45 | | | | | | | |
| 4-Dec | 0.1 | 0.3 | 1.5 | Z | 1.7 | 1.3 | 1.0 | 1.1 | 3.6 | 1.9 | 1.8 | 1.4 | 4.0 | 6.3 | 6.8 | 2.4 | 5.0 | 7.0 | 5.5 | 2.7 | 1.5 | 1.0 | 4.2 | 7.7 | 3.04 | 7.72 | | | | | | | |
| 5-Dec | 6.8 | 6.0 | 4.3 | Z | 2.0 | 3.1 | 1.6 | 1.9 | 3.8 | 2.4 | 2.0 | 0.2 | 0.2 | 0.2 | 1.9 | 1.9 | 0.0 | 0.1 | 1.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.3 | 1.75 | 6.77 | | | | | | | |
| 6-Dec | 1.6 | 0.8 | 0.0 | Z | 0.3 | 0.7 | 0.6 | 0.2 | 0.2 | 0.4 | 0.9 | 0.0 | 0.1 | 0.1 | 0.2 | 0.8 | 1.0 | 0.1 | 0.0 | 0.2 | 2.4 | 2.3 | 0.2 | 0.5 | 0.59 | 2.45 | | | | | | | |
| 7-Dec | 0.1 | 0.1 | 0.2 | Z | 0.0 | 1.7 | 6.5 | 5.9 | 7.1 | 5.6 | 5.1 | 4.8 | 1.5 | 0.3 | 2.3 | 2.3 | 1.4 | 0.5 | 0.4 | 0.3 | 0.1 | 0.2 | 0.2 | 0.1 | 2.03 | 7.13 | | | | | | | |
| 8-Dec | 0.2 | 0.1 | 0.1 | Z | 0.2 | 0.3 | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.18 | 0.41 | | | | | | | |
| 9-Dec | 0.2 | 0.2 | 0.2 | Z | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.4 | 0.7 | 0.9 | 0.8 | 0.6 | 0.3 | 0.3 | 0.4 | 0.32 | 0.95 | | | | | | | |
| 10-Dec | 0.3 | 0.3 | 0.3 | Z | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.3 | 0.1 | 0.1 | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.22 | 0.40 | | | | | | | |
| 11-Dec | 0.1 | 0.0 | 0.1 | Z | 0.1 | 0.0 | 0.1 | 0.2 | 0.2 | 0.4 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.3 | 0.4 | 0.4 | 0.2 | 0.5 | 0.5 | 0.1 | 0.20 | 0.54 | | | | | | | |
| 12-Dec | 0.0 | 0.1 | 0.1 | Z | 0.0 | 0.1 | 0.1 | 0.1 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | C | C | C | C | 0.4 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.15 | 0.42 | | | | | | | |
| 13-Dec | 0.0 | 0.1 | 0.1 | Z | 0.0 | 0.1 | 0.0 | 0.1 | 0.2 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.06 | 0.18 | | | | | | | |
| 14-Dec | 0.0 | 0.0 | 0.1 | Z | 0.1 | 0.2 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | 0.0 | 0.2 | 0.3 | 0.8 | 0.9 | 0.9 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.34 | 0.92 | | | | | | | |
| 15-Dec | 0.2 | 0.2 | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.4 | 0.2 | 0.1 | 0.3 | 0.5 | 0.4 | 0.1 | 0.1 | 0.1 | 0.2 | 0.14 | 0.47 | | | | | | | |
| 16-Dec | 0.1 | 0.0 | 0.0 | Z | 0.1 | 0.2 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.08 | 0.30 | | | | | | | |
| 17-Dec | 0.0 | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 | 0.1 | 0.2 | 0.5 | 0.4 | 0.2 | 0.3 | 0.3 | 0.1 | 0.2 | 0.1 | 0.1 | 0.15 | 0.53 | | | | | | | |
| 18-Dec | 0.1 | 0.1 | 0.1 | Z | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.5 | 1.0 | 1.2 | 1.0 | 0.7 | 0.6 | 0.5 | 0.4 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 0.44 | 1.22 | | | | | | | |
| 19-Dec | 0.1 | 0.2 | 0.2 | Z | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.5 | 0.5 | 0.3 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.23 | 0.54 | | | | | | | |
| 20-Dec | 0.1 | 0.1 | 0.2 | Z | 1.2 | 1.2 | 0.3 | 0.7 | 0.2 | 0.5 | 0.1 | 0.1 | 0.4 | 0.7 | 0.9 | 1.2 | 0.5 | 1.3 | 2.7 | 1.6 | 0.2 | 0.3 | 0.3 | 0.3 | 0.66 | 2.67 | | | | | | | |
| 21-Dec | 0.3 | 1.1 | 0.8 | Z | 0.7 | 0.4 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.5 | 0.7 | 0.7 | 0.4 | 0.5 | 0.4 | 0.2 | 0.33 | 1.09 | | | | | | | |
| 22-Dec | 0.2 | 0.3 | 0.3 | Z | 0.1 | 0.2 | 0.1 | 0.0 | 0.1 | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 | 0.4 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.17 | 0.41 | | | | | | | |
| 23-Dec | 0.1 | 0.1 | 0.1 | Z | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.5 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.12 | 0.52 | | | | | | | |
| 24-Dec | 0.0 | 0.0 | 0.1 | Z | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.06 | 0.15 | | | | | | | |
| 25-Dec | 0.0 | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.06 | 0.17 | | | | | | | |
| 26-Dec | 0.0 | 0.1 | 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 | 0.1 | 0.1 | 0.7 | 1.2 | 1.6 | 0.1 | 0.2 | 0.1 | 0.19 | 1.64 | | | | | | | |
| 27-Dec | 0.3 | 1.1 | 0.1 | Z | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.7 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.21 | 1.09 | | | | | | | |
| 28-Dec | 0.1 | 0.1 | 0.1 | Z | 0.1 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.6 | 0.4 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.5 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 | 0.26 | 0.56 | | | | | | | |
| 29-Dec | 0.1 | 0.1 | 0.1 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.0 | 0.4 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.10 | 0.35 | | | | | | | |
| 30-Dec | 0.0 | 0.1 | 0.1 | Z | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.5 | 0.5 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.12 | 0.52 | | | | | | | |
| 31-Dec | 0.2 | 0.5 | 0.7 | Z | 0.3 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.9 | 1.8 | 0.29 | 1.85 | | | | | | | |
| | | 0.38 | 0.40 | 0.34 | -- | 0.31 | 0.37 | 0.52 | 0.60 | 0.70 | 0.65 | 0.61 | 0.58 | 0.49 | 0.58 | 0.62 | 0.54 | 0.57 | 0.66 | 0.63 | 0.40 | 0.39 | 0.26 | 0.32 | 0.46 | Diurnal Average | | | | | | | |
| | | 6.77 | 6.01 | 4.29 | -- | 2.01 | 3.10 | 6.51 | 5.90 | 7.13 | 5.68 | 5.12 | 5.88 | 4.05 | 6.33 | 6.76 | 2.37 | 5.05 | 6.98 | 5.46 | 2.71 | 2.45 | 2.30 | 4.15 | 7.72 | Diurnal Maximum | | | | | | | |
| Z - zerospan | | C - Calibration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alberta Ambient Air Quality Objectives (AAAQO): | | 1-hr 172 ppb | | | | 24-hr 48 ppb | | | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Hinton
Summary of Hourly Averages

Ozone (O₃) - ppb
December 2015

| Maximum Value: 42.24 ppb on Dec 1 15:00 | | | | | | | | | | | | | | | | | | | | | | | | Maximum Daily Average: 35.27 ppb on Dec 31 | | | | | | | | | | | | | | | | | | | | | | | | Hours in Service: 744 | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------|------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------------------|--|
| Minimum Value: 0.0 ppb on Dec 9 06:00 | | | | | | | | | | | | | | | | | | | | | | | | Minimum Daily Average: 0.45 ppb on Dec 9 | | | | | | | | | | | | | | | | | | | | | | | | Hours of Data: 709 | |
| Maximum Diurnal Average: 23.17 ppb at hour 15 | | | | | | | | | | | | | | | | | | | | | | | | Minimum Diurnal Average: 11.83 ppb at hour 1 | | | | | | | | | | | | | | | | | | | | | | | | Hours of Missing Data: 35 | |
| Monthly Average: 15.330 ppb | | | | | | | | | | | | | | | | | | | | | | | | Percentiles: P ₁ = 0.0 P ₁₀ = 0.6 Q ₁ = 3.2 Median = 11.4 Q ₃ = 28.9 P ₉₀ = 34.3 P ₉₉ = 38.8 | | | | | | | | | | | | | | | | | | | | | | | | Hours of Calibration: 35 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 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-Dec | 8.8 | 8.0 | 3.5 | Z | 14.0 | 6.4 | 2.8 | 2.0 | 3.0 | 30.9 | 27.7 | 38.1 | 40.2 | 40.2 | 42.2 | 40.3 | 37.4 | 34.1 | 36.8 | 38.9 | 35.6 | 37.7 | 38.5 | 37.7 | 26.30 | 42.24 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Dec | 26.4 | 13.2 | 7.6 | Z | 36.3 | 41.7 | 35.1 | 30.9 | 31.1 | 29.2 | 33.9 | 34.3 | 36.6 | 36.1 | 38.1 | 35.8 | 31.6 | 30.5 | 30.2 | 37.7 | 35.7 | 33.5 | 21.7 | 31.9 | 31.26 | 41.70 | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Dec | 21.0 | 16.1 | 13.1 | Z | 30.4 | 33.5 | 31.6 | 16.7 | 12.9 | 3.7 | 4.9 | 13.0 | 10.3 | 21.2 | 24.8 | 24.6 | 6.6 | 0.8 | 0.9 | 3.8 | 4.2 | 5.7 | 5.9 | 9.0 | 13.68 | 33.47 | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Dec | 15.0 | 15.4 | 27.7 | Z | 30.2 | 30.6 | 25.4 | 23.0 | 26.0 | 28.7 | 32.9 | 34.3 | 32.4 | 30.1 | 29.5 | 32.1 | 26.8 | 27.2 | 26.8 | 31.6 | 33.5 | 35.6 | 31.3 | 28.0 | 28.45 | 35.58 | | | | | | | | | | | | | | | | | | | | | | | |
| 5-Dec | 27.1 | 29.5 | 32.6 | Z | 32.4 | 30.7 | 33.5 | 32.7 | 29.6 | 32.6 | 32.7 | 26.6 | 28.9 | 28.9 | 34.0 | 32.0 | 35.8 | 37.1 | 32.9 | 34.4 | 35.7 | 32.5 | 33.3 | 34.7 | 32.18 | 37.07 | | | | | | | | | | | | | | | | | | | | | | | |
| 6-Dec | 30.8 | 35.2 | 35.5 | Z | 33.0 | 32.7 | 32.3 | 33.4 | 29.9 | 30.1 | 26.2 | 27.6 | 28.8 | 26.6 | 26.6 | 29.7 | 32.3 | 31.3 | 32.6 | 34.6 | 27.1 | 26.6 | 34.1 | 30.1 | 30.74 | 35.53 | | | | | | | | | | | | | | | | | | | | | | | |
| 7-Dec | 31.0 | 33.7 | 23.1 | Z | 21.7 | 27.4 | 30.2 | 29.6 | 28.1 | 30.7 | 30.9 | 32.3 | 37.1 | 37.9 | 36.4 | 32.9 | 32.0 | 32.1 | 22.2 | 3.5 | 9.7 | 3.6 | 4.0 | 5.7 | 25.03 | 37.86 | | | | | | | | | | | | | | | | | | | | | | | |
| 8-Dec | 7.1 | 9.9 | 4.3 | Z | 1.9 | 0.0 | 0.2 | 1.5 | 4.7 | 6.9 | 8.9 | 10.7 | 16.1 | 14.2 | 9.4 | 4.9 | 7.9 | 0.6 | 1.0 | 0.1 | 1.1 | 0.9 | 0.0 | 0.4 | 4.91 | 16.12 | | | | | | | | | | | | | | | | | | | | | | | |
| 9-Dec | 0.1 | 0.2 | 0.1 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.9 | 0.9 | 2.2 | 2.1 | 1.5 | 0.7 | 0.0 | 0.1 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.4 | 0.45 | 2.15 | | | | | | | | | | | | | | | | | | | | | | | |
| 10-Dec | 0.0 | 0.0 | 0.2 | Z | 0.2 | 0.1 | 0.0 | 0.3 | 0.2 | 0.3 | 0.7 | 1.1 | 2.3 | 5.6 | 5.4 | 2.1 | 2.7 | 3.0 | 1.3 | 1.0 | 3.1 | 3.3 | 5.4 | 5.1 | 1.90 | 5.64 | | | | | | | | | | | | | | | | | | | | | | | |
| 11-Dec | 5.3 | 4.9 | 2.9 | Z | 0.4 | 1.2 | 0.6 | 0.3 | 0.1 | 0.4 | 1.8 | 3.7 | 6.4 | 6.1 | 3.9 | 2.5 | 0.9 | 0.5 | 0.2 | 0.1 | 1.1 | 0.6 | 0.7 | 0.1 | 1.93 | 6.44 | | | | | | | | | | | | | | | | | | | | | | | |
| 12-Dec | 0.1 | 0.2 | 0.8 | Z | 0.9 | 0.8 | 0.8 | 0.7 | 0.8 | 1.2 | 3.5 | 5.1 | 5.9 | C | C | C | C | 0.8 | 0.0 | 0.0 | 0.0 | 0.4 | 3.9 | 5.2 | 1.64 | 5.88 | | | | | | | | | | | | | | | | | | | | | | | |
| 13-Dec | 2.9 | 7.8 | 8.4 | Z | 9.4 | 9.6 | 9.0 | 9.0 | 8.6 | 8.1 | 7.4 | 12.5 | 15.7 | 17.3 | 16.8 | 15.4 | 12.2 | 7.8 | 3.9 | 3.2 | 4.9 | 1.9 | 2.9 | 4.8 | 8.67 | 17.34 | | | | | | | | | | | | | | | | | | | | | | | |
| 14-Dec | 2.1 | 2.5 | 1.7 | Z | 0.5 | 0.3 | 0.8 | 0.4 | 0.3 | 0.8 | 2.2 | 4.7 | 5.5 | 7.8 | 7.9 | 4.5 | 1.1 | 0.7 | 0.6 | 0.6 | 0.0 | 0.1 | 0.1 | 0.1 | 1.96 | 7.92 | | | | | | | | | | | | | | | | | | | | | | | |
| 15-Dec | 0.0 | 2.1 | 22.9 | Z | 29.1 | 27.3 | 29.6 | 25.1 | 23.7 | 24.3 | 26.3 | 23.8 | 30.9 | 33.8 | 32.5 | 28.9 | 22.2 | 8.0 | 0.9 | 3.8 | 18.1 | 35.6 | 37.5 | 29.0 | 22.41 | 37.49 | | | | | | | | | | | | | | | | | | | | | | | |
| 16-Dec | 21.4 | 18.3 | 22.1 | Z | 15.3 | 6.6 | 12.5 | 16.3 | 8.2 | 12.1 | 16.8 | 19.5 | 26.5 | 24.5 | 24.0 | 20.0 | 11.4 | 14.0 | 13.1 | 9.8 | 19.1 | 3.2 | 2.4 | 7.3 | 14.97 | 26.46 | | | | | | | | | | | | | | | | | | | | | | | |
| 17-Dec | 11.4 | 12.2 | 11.9 | Z | 4.0 | 8.0 | 1.9 | 0.8 | 12.8 | 10.4 | 13.3 | 7.5 | 10.6 | 21.8 | 15.7 | 4.1 | 0.8 | 1.0 | 0.5 | 0.4 | 0.8 | 0.8 | 1.5 | 3.3 | 6.75 | 21.85 | | | | | | | | | | | | | | | | | | | | | | | |
| 18-Dec | 4.3 | 5.7 | 7.3 | Z | 11.2 | 15.7 | 16.8 | 16.3 | 15.1 | 12.9 | 10.5 | 11.9 | 16.6 | 18.3 | 19.0 | 18.0 | 18.0 | 18.0 | 18.0 | 17.7 | 16.5 | 15.5 | 11.3 | 7.7 | 14.01 | 18.98 | | | | | | | | | | | | | | | | | | | | | | | |
| 19-Dec | 9.0 | 6.9 | 5.5 | Z | 2.2 | 3.4 | 1.0 | 2.5 | 0.3 | 1.3 | 3.8 | 7.3 | 13.4 | 11.8 | 9.7 | 9.1 | 4.0 | 2.1 | 2.8 | 4.4 | 4.0 | 3.9 | 3.6 | 3.0 | 5.00 | 13.41 | | | | | | | | | | | | | | | | | | | | | | | |
| 20-Dec | 1.6 | 1.0 | 3.3 | Z | 28.6 | 33.0 | 36.0 | 33.0 | 32.9 | 28.9 | 27.7 | 30.6 | 35.3 | 35.1 | 34.1 | 30.9 | 20.7 | 29.5 | 27.8 | 30.1 | 28.0 | 29.0 | 26.3 | 28.2 | 26.59 | 36.03 | | | | | | | | | | | | | | | | | | | | | | | |
| 21-Dec | 28.1 | 28.0 | 31.2 | Z | 31.7 | 30.3 | 29.3 | 9.8 | 3.7 | 5.1 | 9.8 | 14.7 | 18.7 | 19.6 | 32.3 | 22.8 | 20.3 | 6.5 | 1.1 | 0.6 | 0.1 | 0.3 | 0.4 | 1.2 | 15.02 | 32.26 | | | | | | | | | | | | | | | | | | | | | | | |
| 22-Dec | 0.2 | 0.1 | 1.4 | Z | 9.8 | 5.8 | 3.7 | 6.0 | 5.2 | 4.0 | 4.5 | 5.1 | 5.4 | 15.2 | 26.3 | 16.8 | 23.0 | 4.1 | 5.0 | 12.6 | 6.5 | 1.3 | 2.0 | 3.1 | 7.27 | 26.30 | | | | | | | | | | | | | | | | | | | | | | | |
| 23-Dec | 3.0 | 2.1 | 1.6 | Z | 1.7 | 2.5 | 3.8 | 4.5 | 3.4 | 3.7 | 6.8 | 6.9 | 13.5 | 19.4 | 17.2 | 12.5 | 2.0 | 0.8 | 0.7 | 2.1 | 7.0 | 8.2 | 6.9 | 3.7 | 5.82 | 19.39 | | | | | | | | | | | | | | | | | | | | | | | |
| 24-Dec | 5.0 | 2.7 | 2.6 | Z | 4.5 | 1.9 | 0.7 | 0.9 | 0.2 | 1.9 | 5.1 | 7.8 | 11.0 | 9.2 | 9.8 | 8.8 | 9.3 | 8.6 | 7.3 | 5.0 | 5.5 | 3.5 | 3.6 | 3.5 | 5.15 | 11.01 | | | | | | | | | | | | | | | | | | | | | | | |
| 25-Dec | 2.3 | 1.2 | 4.8 | Z | 5.5 | 5.4 | 6.3 | 1.2 | 2.1 | 12.2 | 23.2 | 22.7 | 21.7 | 24.1 | 24.6 | 24.9 | 11.8 | 1.8 | 3.1 | 2.1 | 1.7 | 6.0 | 8.8 | 5.1 | 9.68 | 24.94 | | | | | | | | | | | | | | | | | | | | | | | |
| 26-Dec | 6.7 | 5.5 | 7.3 | Z | 5.0 | 4.8 | 3.4 | 5.6 | 6.9 | 7.9 | 9.6 | 11.3 | 12.2 | 13.8 | 14.8 | 14.9 | 12.1 | 10.8 | 30.8 | 30.3 | 28.4 | 33.9 | 35.4 | 35.8 | 15.09 | 35.78 | | | | | | | | | | | | | | | | | | | | | | | |
| 27-Dec | 35.5 | 34.7 | 35.1 | Z | 35.2 | 35.2 | 35.7 | 35.4 | 35.4 | 34.9 | 33.8 | 34.1 | 34.7 | 35.3 | 34.8 | 34.1 | 32.3 | 32.2 | 26.3 | 28.4 | 18.2 | 16.6 | 17.2 | 16.6 | 30.94 | 35.70 | | | | | | | | | | | | | | | | | | | | | | | |
| 28-Dec | 10.8 | 30.0 | 20.5 | Z | 4.2 | 2.2 | 0.6 | 3.2 | 3.4 | 1.0 | 4.7 | 7.1 | 17.3 | 21.8 | 23.8 | 25.0 | 11.8 | 11.6 | 1.6 | 0.3 | 0.0 | 0.0 | 0.6 | 1.1 | 8.82 | 29.99 | | | | | | | | | | | | | | | | | | | | | | | |
| 29-Dec | 3.8 | 3.2 | 6.6 | Z | 7.0 | 6.8 | 7.6 | 7.9 | 8.5 | 9.4 | 12.5 | 17.4 | 34.7 | 38.3 | 30.4 | 30.7 | 31.6 | 28.1 | 21.8 | 21.1 | 19.7 | 22.8 | 20.5 | 19.9 | 17.84 | 38.34 | | | | | | | | | | | | | | | | | | | | | | | |
| 30-Dec | 17.4 | 21.9 | 16.5 | Z | 15.5 | 19.5 | 18.7 | 21.0 | 18.4 | 21.3 | 21.6 | 31.3 | 31.3 | 31.1 | 30.5 | 30.4 | 24.0 | 24.8 | 29.1 | 21.8 | 22.7 | 20.8 | 19.4 | 22.3 | 23.11 | 31.31 | | | | | | | | | | | | | | | | | | | | | | | |
| 31-Dec | 28.8 | 28.8 | 29.0 | Z | 30.5 | 36.6 | 35.4 | 33.9 | 36.7 | 37.3 | 37.1 | 37.5 | 38.7 | 39.0 | 39.3 | 38.9 | 38.3 | 37.6 | 35.8 | 36.1 | 37.0 | 34.5 | 33.6 | 30.8 | 35.27 | 39.34 | | | | | | | | | | | | | | | | | | | | | | | |
| 11.83 12.29 12.62 -- 14.60 14.84 14.36 13.03 12.65 13.96 15.55 17.47 20.67 22.87 23.17 20.95 17.36 14.39 13.39 13.43 13.72 13.50 13.31 13.38 | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Average | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35.49 35.16 35.53 -- 36.25 41.70 36.03 35.36 36.71 37.34 37.14 38.15 40.21 40.22 42.24 40.30 38.26 37.63 36.78 38.89 36.99 37.74 38.46 37.66 | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Maximum | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z - zerospan C - Calibration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 82.5 ppb 24-hr -- ppb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Hinton
Summary of Hourly Averages

Nitrogen Oxide (NO) - ppb
December 2015

| Maximum Value: 124.55 ppb on Dec 9 19:00 | | Maximum Daily Average: 42.79 ppb on Dec 14 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|------|-------|---------------|---------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-----------------|--|
| Minimum Value: 0.0 ppb on Dec 29 22:00 | | Minimum Daily Average: 0.34 ppb on Dec 31 | | Hours of Data: 707 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: 24.04 ppb at hour 19 | | Minimum Diurnal Average: 4.13 ppb at hour 2 | | Hours of Missing Data: 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: 9.867 ppb | | Percentiles: P ₁ = 0.1 P ₁₀ = 0.2 Q ₁ = 0.8 Median = 2.4 Q ₃ = 11.4 P ₉₀ = 29.1 P ₉₉ = 80.5 | | Hours of Calibration: 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 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-Dec | 1.5 | 3.4 | 26.1 | Z | 9.3 | 34.6 | 39.9 | 60.0 | 63.5 | 2.2 | 4.7 | 1.3 | 1.8 | 1.8 | 0.7 | 0.6 | 0.3 | 0.5 | 0.2 | 0.2 | 0.3 | 0.5 | 0.4 | 0.4 | 11.04 | 63.45 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Dec | 0.8 | 1.9 | 5.5 | Z | 0.1 | 0.1 | 1.2 | 1.4 | 0.6 | 2.0 | 2.4 | 2.8 | 1.8 | 2.1 | 1.0 | 1.0 | 0.9 | 0.7 | 0.9 | 0.8 | 0.7 | 1.2 | 3.7 | 1.0 | 1.51 | 5.53 | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Dec | 1.5 | 1.6 | 9.6 | Z | 0.7 | 1.3 | 1.7 | 5.6 | 5.7 | 27.6 | 34.8 | 20.4 | 25.8 | 10.0 | 7.8 | 6.1 | 45.2 | 43.1 | 30.4 | 15.3 | 17.8 | 4.0 | 4.3 | 2.5 | 14.04 | 45.20 | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Dec | 0.8 | 0.8 | 0.2 | Z | 0.5 | 0.3 | 4.0 | 1.6 | 0.6 | 0.7 | 1.1 | 1.3 | 2.2 | 4.1 | 4.1 | 1.2 | 1.4 | 1.7 | 1.2 | 0.7 | 0.2 | 0.2 | 0.6 | 0.8 | 1.32 | 4.12 | | | | | | | | | | | | | | | | | | | | | | | |
| 5-Dec | 1.0 | 0.4 | 0.2 | Z | 0.1 | 0.4 | 0.4 | 0.4 | 0.7 | 0.3 | 0.4 | 5.1 | 6.8 | 3.4 | 1.2 | 2.7 | 1.7 | 0.3 | 0.4 | 1.5 | 0.4 | 1.4 | 0.3 | 0.2 | 1.29 | 6.79 | | | | | | | | | | | | | | | | | | | | | | | |
| 6-Dec | 0.8 | 0.1 | 0.2 | Z | 0.7 | 1.0 | 1.2 | 2.2 | 2.6 | 1.6 | 4.7 | 3.4 | 2.0 | 6.9 | 5.0 | 1.5 | 0.4 | 1.7 | 0.6 | 0.1 | 0.6 | 0.8 | 0.3 | 0.3 | 1.68 | 6.86 | | | | | | | | | | | | | | | | | | | | | | | |
| 7-Dec | 0.4 | 0.8 | 1.3 | Z | 1.5 | 0.9 | 0.9 | 1.3 | 1.5 | 1.2 | 2.0 | 2.4 | 1.1 | 0.7 | 1.2 | 1.0 | 0.6 | 0.3 | 2.4 | 18.0 | 2.4 | 8.8 | 6.5 | 3.5 | 2.63 | 17.97 | | | | | | | | | | | | | | | | | | | | | | | |
| 8-Dec | 1.8 | 2.2 | 4.4 | Z | 23.1 | 32.3 | 42.0 | 18.9 | 9.4 | 6.0 | 4.2 | 3.7 | 6.5 | 4.8 | 10.4 | 15.0 | 11.4 | 48.3 | 27.2 | 28.7 | 18.9 | 12.2 | 15.9 | 19.1 | 15.94 | 48.31 | | | | | | | | | | | | | | | | | | | | | | | |
| 9-Dec | 18.5 | 20.3 | 22.2 | Z | 19.3 | 19.8 | 23.9 | 29.2 | 24.4 | 22.6 | 24.6 | 21.1 | 12.3 | 13.7 | 20.5 | 24.2 | 47.6 | 81.4 | 124.6 | 93.6 | 65.7 | 40.1 | 27.0 | 38.0 | 36.28 | 124.55 | | | | | | | | | | | | | | | | | | | | | | | |
| 10-Dec | 29.4 | 18.4 | 22.8 | Z | 25.2 | 26.4 | 34.4 | 50.5 | 30.9 | 31.4 | 26.6 | 27.4 | 25.7 | 11.4 | 12.4 | 26.7 | 7.9 | 4.9 | 24.0 | 28.1 | 3.0 | 2.0 | 0.6 | 0.7 | 20.47 | 50.51 | | | | | | | | | | | | | | | | | | | | | | | |
| 11-Dec | 0.9 | 0.8 | 3.3 | Z | 4.0 | 4.0 | 10.3 | 14.7 | 28.3 | 46.7 | 26.1 | 15.9 | 8.7 | 9.9 | 13.8 | 17.1 | 9.9 | 34.3 | 56.6 | 42.4 | 25.3 | 61.1 | 66.4 | 25.2 | 22.86 | 66.40 | | | | | | | | | | | | | | | | | | | | | | | |
| 12-Dec | 14.1 | 17.5 | 20.1 | Z | 14.1 | 16.4 | 23.3 | 20.6 | 28.1 | 31.6 | 20.7 | 20.1 | 12.4 | C | C | C | C | C | C | 19.5 | 17.4 | 16.4 | 3.1 | 0.9 | -- | 31.57 | | | | | | | | | | | | | | | | | | | | | | | |
| 13-Dec | 3.4 | 0.9 | 1.4 | Z | 1.4 | 1.1 | 2.7 | 2.9 | 2.7 | 2.4 | 5.3 | 3.3 | 1.9 | 1.5 | 2.4 | 3.3 | 0.5 | 1.0 | 4.5 | 3.3 | 0.7 | 2.5 | 2.5 | 1.5 | 2.31 | 5.25 | | | | | | | | | | | | | | | | | | | | | | | |
| 14-Dec | 2.9 | 1.1 | 6.0 | Z | 12.8 | 30.9 | 60.2 | 57.6 | 57.3 | 45.4 | 38.9 | 22.4 | 31.3 | 6.7 | 10.5 | 35.2 | 95.0 | 120.9 | 122.3 | 50.1 | 52.2 | 35.5 | 40.6 | 48.5 | 42.79 | 122.31 | | | | | | | | | | | | | | | | | | | | | | | |
| 15-Dec | 27.9 | 23.9 | 1.8 | Z | 0.1 | 1.8 | 0.8 | 1.8 | 4.8 | 6.0 | 1.2 | 3.8 | 2.1 | 1.6 | 1.5 | 1.5 | 2.3 | 24.8 | 48.5 | 40.9 | 7.9 | 0.1 | 0.1 | 1.0 | 8.97 | 48.47 | | | | | | | | | | | | | | | | | | | | | | | |
| 16-Dec | 0.3 | 0.2 | 0.1 | Z | 2.7 | 7.6 | 0.3 | 0.2 | 2.9 | 4.3 | 3.5 | 7.2 | 1.8 | 3.6 | 2.4 | 3.6 | 8.0 | 2.8 | 2.4 | 3.0 | 0.2 | 6.8 | 7.9 | 2.7 | 3.23 | 8.02 | | | | | | | | | | | | | | | | | | | | | | | |
| 17-Dec | 0.5 | 0.1 | 1.9 | Z | 4.4 | 2.5 | 21.6 | 21.0 | 0.5 | 1.9 | 4.7 | 42.1 | 42.7 | 11.4 | 15.9 | 55.9 | 48.0 | 25.3 | 51.0 | 31.9 | 12.7 | 16.6 | 7.6 | 5.7 | 18.52 | 55.91 | | | | | | | | | | | | | | | | | | | | | | | |
| 18-Dec | 1.4 | 2.3 | 4.7 | Z | 1.3 | 1.5 | 1.6 | 2.2 | 2.2 | 3.6 | 5.4 | 8.4 | 8.5 | 6.7 | 6.4 | 5.2 | 4.0 | 2.3 | 1.8 | 1.7 | 1.3 | 1.3 | 1.5 | 1.4 | 3.33 | 8.49 | | | | | | | | | | | | | | | | | | | | | | | |
| 19-Dec | 0.3 | 0.8 | 1.4 | Z | 4.1 | 1.2 | 1.6 | 1.1 | 5.3 | 17.2 | 17.7 | 15.5 | 11.0 | 12.8 | 9.7 | 7.5 | 6.8 | 6.7 | 7.0 | 2.2 | 1.3 | 3.4 | 2.4 | 1.5 | 6.03 | 17.66 | | | | | | | | | | | | | | | | | | | | | | | |
| 20-Dec | 3.0 | 5.9 | 4.4 | Z | 0.3 | 0.2 | 0.1 | 0.7 | 0.4 | 3.6 | 3.4 | 3.9 | 1.2 | 0.8 | 0.9 | 1.0 | 3.6 | 0.5 | 0.6 | 0.4 | 0.1 | 0.2 | 0.2 | 0.1 | 1.55 | 5.91 | | | | | | | | | | | | | | | | | | | | | | | |
| 21-Dec | 0.2 | 0.2 | 0.1 | Z | 0.2 | 0.6 | 3.1 | 6.0 | 14.7 | 15.6 | 11.2 | 11.3 | 7.9 | 9.8 | 2.2 | 9.1 | 0.6 | 46.2 | 83.0 | 77.4 | 46.7 | 42.0 | 35.5 | 18.1 | 19.22 | 83.05 | | | | | | | | | | | | | | | | | | | | | | | |
| 22-Dec | 10.6 | 11.8 | 6.0 | Z | 0.2 | 1.7 | 4.3 | 0.9 | 0.9 | 13.0 | 28.3 | 22.7 | 37.0 | 21.9 | 1.9 | 5.6 | 0.7 | 51.9 | 30.5 | 1.5 | 7.3 | 9.3 | 5.9 | 3.7 | 12.06 | 51.86 | | | | | | | | | | | | | | | | | | | | | | | |
| 23-Dec | 2.4 | 3.1 | 6.0 | Z | 6.3 | 6.8 | 2.2 | 0.5 | 1.4 | 4.9 | 14.1 | 22.0 | 21.0 | 9.8 | 11.6 | 10.8 | 59.0 | 47.4 | 40.6 | 9.1 | 2.6 | 0.2 | 0.2 | 0.9 | 12.30 | 59.00 | | | | | | | | | | | | | | | | | | | | | | | |
| 24-Dec | 0.6 | 1.2 | 1.7 | Z | 0.8 | 2.0 | 5.1 | 9.6 | 13.9 | 9.1 | 10.3 | 10.2 | 7.9 | 7.1 | 4.8 | 5.6 | 2.2 | 0.8 | 1.1 | 1.3 | 0.9 | 1.6 | 1.7 | 2.9 | 4.46 | 13.95 | | | | | | | | | | | | | | | | | | | | | | | |
| 25-Dec | 1.1 | 1.4 | 1.2 | Z | 2.0 | 1.2 | 2.8 | 6.8 | 3.8 | 0.7 | 1.1 | 1.4 | 1.1 | 2.0 | 1.0 | 0.6 | 7.8 | 16.5 | 8.4 | 4.6 | 11.3 | 4.2 | 0.2 | 2.4 | 3.64 | 16.51 | | | | | | | | | | | | | | | | | | | | | | | |
| 26-Dec | 1.1 | 3.2 | 0.8 | Z | 1.3 | 3.1 | 2.4 | 2.6 | 1.7 | 1.9 | 3.6 | 4.2 | 3.3 | 2.6 | 2.0 | 1.7 | 3.6 | 3.4 | 0.3 | 0.3 | 0.5 | 0.3 | 0.2 | 0.1 | 1.92 | 4.17 | | | | | | | | | | | | | | | | | | | | | | | |
| 27-Dec | 0.1 | 0.2 | 0.2 | Z | 0.3 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.5 | 0.8 | 1.0 | 0.8 | 0.8 | 1.0 | 1.0 | 0.1 | 0.9 | 0.5 | 1.7 | 0.6 | 1.6 | 0.2 | 0.57 | 1.66 | | | | | | | | | | | | | | | | | | | | | | | |
| 28-Dec | 1.3 | 0.1 | 0.7 | Z | 1.6 | 11.7 | 28.4 | 8.8 | 9.6 | 25.0 | 27.1 | 50.7 | 11.6 | 4.4 | 2.6 | 1.6 | 22.3 | 19.0 | 49.5 | 52.5 | 35.6 | 19.6 | 13.5 | 5.5 | 17.51 | 52.51 | | | | | | | | | | | | | | | | | | | | | | | |
| 29-Dec | 2.8 | 3.0 | 0.4 | Z | 1.1 | 0.6 | 0.5 | 1.6 | 0.2 | 3.1 | 6.4 | 14.8 | 1.5 | 2.0 | 2.0 | 1.1 | 0.5 | 0.2 | 0.2 | 0.1 | 0.4 | 0.0 | 0.1 | 0.1 | 1.86 | 14.85 | | | | | | | | | | | | | | | | | | | | | | | |
| 30-Dec | 1.1 | 0.1 | 1.0 | Z | 0.1 | 0.3 | 0.4 | 0.1 | 0.4 | 0.6 | 3.1 | 0.7 | 1.6 | 2.1 | 2.1 | 1.7 | 1.0 | 0.4 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.77 | 3.06 | | | | | | | | | | | | | | | | | | | | | | | |
| 31-Dec | 0.1 | 0.2 | 0.2 | Z | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.7 | 1.0 | 1.0 | 0.9 | 0.9 | 0.8 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.34 | 0.99 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 4.28 | 4.13 | 5.03 | -- | 4.52 | 6.85 | 10.37 | 10.68 | 10.30 | 10.74 | 10.92 | 11.98 | 9.76 | 5.91 | 5.32 | 8.32 | 13.15 | 19.59 | 24.04 | 17.11 | 10.85 | 9.44 | 8.10 | 6.10 | Diurnal Average | |
| | | | | | | | | | | | | | | | | | | | | | | | | 29.36 | 23.94 | 26.10 | -- | 25.23 | 34.61 | 60.15 | 59.96 | 63.45 | 46.75 | 38.86 | 50.66 | 42.72 | 21.86 | 20.47 | 55.91 | 94.97 | 120.93 | 124.55 | 93.58 | 65.74 | 61.09 | 66.40 | 48.54 | Diurnal Maximum | |
| Z - zerospan C - Calibration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ppb 24-hr --- ppb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Hinton
Summary of Hourly Averages

Nitrogen Dioxide (NO₂) - ppb
December 2015

| Maximum Value: 42.03 ppb on Dec 1 09:00 | | | | | | | | | | | | | | | | | | | | | | Maximum Daily Average: 19.63 ppb on Dec 17 | | | | | | | | | | | | | | | | | | | | | | Hours in Service: 744 | | | | | |
|----------------------------------------------------------------------------|-------------------------|------|------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|---------------|---------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------------|-------|-------|-------|-----------------|--|
| Minimum Value: 0.8 ppb on Dec 2 06:00 | | | | | | | | | | | | | | | | | | | | | | Minimum Daily Average: 3.96 ppb on Dec 31 | | | | | | | | | | | | | | | | | | | | | | Hours of Data: 707 | | | | | |
| Maximum Diurnal Average: 16.71 ppb at hour 19 | | | | | | | | | | | | | | | | | | | | | | Minimum Diurnal Average: 8.29 ppb at hour 14 | | | | | | | | | | | | | | | | | | | | | | Hours of Missing Data: 37 | | | | | |
| Monthly Average: 11.839 ppb | | | | | | | | | | | | | | | | | | | | | | Percentiles: P ₁ = 1.7 P ₁₀ = 3.9 Q ₁ = 7.0 Median = 10.7 Q ₃ = 15.0 P ₉₀ = 21.3 P ₉₉ = 34.8 | | | | | | | | | | | | | | | | | | | | | | Hours of Calibration: 37 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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-Dec | 13.3 | 14.3 | 23.5 | Z | 23.8 | 34.0 | 37.7 | 35.8 | 42.0 | 9.9 | 11.6 | 5.0 | 5.9 | 6.9 | 4.6 | 5.6 | 6.8 | 10.0 | 6.0 | 3.9 | 8.8 | 5.6 | 4.5 | 3.5 | 14.05 | 42.03 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Dec | 12.5 | 23.2 | 25.8 | Z | 7.5 | 0.8 | 8.0 | 12.4 | 11.5 | 14.4 | 8.7 | 8.3 | 5.8 | 6.5 | 3.9 | 6.7 | 11.1 | 9.9 | 11.1 | 3.1 | 4.5 | 6.7 | 18.3 | 6.8 | 9.89 | 25.77 | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Dec | 12.4 | 15.5 | 16.0 | Z | 9.3 | 8.7 | 10.1 | 16.0 | 18.4 | 30.1 | 27.1 | 21.0 | 25.8 | 15.2 | 15.1 | 15.7 | 35.1 | 34.1 | 27.4 | 20.8 | 20.3 | 17.3 | 18.5 | 13.4 | 19.29 | 35.07 | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Dec | 8.5 | 13.1 | 8.2 | Z | 4.3 | 3.1 | 7.9 | 12.6 | 12.4 | 9.6 | 5.1 | 4.6 | 7.1 | 10.8 | 10.7 | 6.8 | 12.4 | 11.8 | 11.6 | 7.0 | 5.3 | 3.0 | 8.6 | 12.6 | 8.56 | 13.09 | | | | | | | | | | | | | | | | | | | | | | | |
| 5-Dec | 12.0 | 10.8 | 6.4 | Z | 6.0 | 8.2 | 3.7 | 5.2 | 9.5 | 6.4 | 5.6 | 10.1 | 9.0 | 8.3 | 7.2 | 9.1 | 4.6 | 2.2 | 5.6 | 3.9 | 2.0 | 5.4 | 3.8 | 2.0 | 6.38 | 11.96 | | | | | | | | | | | | | | | | | | | | | | | |
| 6-Dec | 6.7 | 2.3 | 1.4 | Z | 3.3 | 4.5 | 4.6 | 3.6 | 7.1 | 5.6 | 10.3 | 8.3 | 5.8 | 9.0 | 10.6 | 6.2 | 3.7 | 4.6 | 3.0 | 1.9 | 10.9 | 10.3 | 2.6 | 6.2 | 5.77 | 10.89 | | | | | | | | | | | | | | | | | | | | | | | |
| 7-Dec | 5.0 | 4.4 | 10.0 | Z | 8.1 | 8.5 | 11.3 | 11.6 | 14.5 | 11.1 | 9.9 | 9.3 | 4.5 | 3.2 | 5.9 | 8.5 | 9.2 | 7.7 | 16.2 | 32.5 | 17.7 | 26.6 | 21.7 | 18.9 | 12.01 | 32.45 | | | | | | | | | | | | | | | | | | | | | | | |
| 8-Dec | 19.8 | 16.5 | 20.7 | Z | 22.6 | 23.5 | 20.8 | 17.1 | 14.5 | 14.8 | 11.6 | 11.7 | 10.5 | 13.4 | 21.2 | 27.8 | 20.0 | 27.9 | 25.9 | 23.4 | 17.7 | 15.9 | 18.3 | 17.1 | 18.82 | 27.92 | | | | | | | | | | | | | | | | | | | | | | | |
| 9-Dec | 14.9 | 14.3 | 11.9 | Z | 12.0 | 10.7 | 9.8 | 10.6 | 12.6 | 11.9 | 12.4 | 12.8 | 11.6 | 11.6 | 15.9 | 14.2 | 16.3 | 18.1 | 18.8 | 15.0 | 14.4 | 9.2 | 7.9 | 9.3 | 12.88 | 18.82 | | | | | | | | | | | | | | | | | | | | | | | |
| 10-Dec | 8.4 | 6.7 | 7.9 | Z | 8.7 | 7.8 | 9.2 | 12.5 | 11.0 | 11.2 | 9.4 | 10.0 | 8.7 | 7.0 | 12.0 | 17.1 | 15.2 | 15.6 | 19.1 | 17.8 | 12.7 | 11.6 | 9.0 | 8.9 | 11.20 | 19.05 | | | | | | | | | | | | | | | | | | | | | | | |
| 11-Dec | 9.5 | 9.7 | 11.4 | Z | 11.1 | 10.9 | 12.4 | 13.3 | 12.5 | 14.6 | 10.8 | 10.5 | 8.3 | 8.6 | 9.6 | 11.2 | 11.4 | 14.7 | 14.2 | 11.5 | 10.0 | 11.3 | 10.1 | 7.0 | 11.06 | 14.73 | | | | | | | | | | | | | | | | | | | | | | | |
| 12-Dec | 7.5 | 8.7 | 10.6 | Z | 11.4 | 11.5 | 11.0 | 11.6 | 15.6 | 16.6 | 11.7 | 8.7 | 7.2 | C | C | C | C | C | C | 16.0 | 15.2 | 14.8 | 12.0 | 10.4 | -- | 16.64 | | | | | | | | | | | | | | | | | | | | | | | |
| 13-Dec | 11.8 | 8.8 | 9.1 | Z | 9.4 | 8.9 | 10.0 | 9.9 | 10.2 | 9.6 | 9.7 | 6.3 | 5.6 | 5.0 | 6.0 | 7.3 | 7.6 | 10.6 | 14.7 | 11.6 | 7.4 | 9.7 | 11.0 | 9.8 | 9.13 | 14.70 | | | | | | | | | | | | | | | | | | | | | | | |
| 14-Dec | 12.7 | 9.9 | 12.3 | Z | 12.9 | 12.4 | 14.1 | 14.3 | 11.9 | 12.1 | 11.1 | 9.5 | 11.8 | 5.0 | 9.9 | 15.0 | 22.9 | 22.5 | 22.2 | 13.4 | 12.7 | 10.8 | 11.5 | 13.0 | 13.21 | 22.86 | | | | | | | | | | | | | | | | | | | | | | | |
| 15-Dec | 12.4 | 14.5 | 7.6 | Z | 2.5 | 4.8 | 3.4 | 7.5 | 10.4 | 8.4 | 6.0 | 9.4 | 3.6 | 3.6 | 6.2 | 10.5 | 15.9 | 27.9 | 38.3 | 34.9 | 18.0 | 1.5 | 1.3 | 7.5 | 11.15 | 38.32 | | | | | | | | | | | | | | | | | | | | | | | |
| 16-Dec | 10.9 | 9.9 | 6.4 | Z | 12.8 | 19.0 | 10.8 | 8.2 | 24.8 | 17.9 | 11.9 | 14.7 | 4.9 | 9.8 | 10.2 | 15.5 | 24.9 | 21.3 | 18.7 | 17.2 | 5.5 | 20.6 | 21.4 | 13.4 | 14.36 | 24.91 | | | | | | | | | | | | | | | | | | | | | | | |
| 17-Dec | 7.8 | 7.7 | 8.3 | Z | 15.2 | 12.2 | 21.3 | 22.7 | 7.9 | 11.4 | 9.9 | 25.2 | 29.4 | 15.1 | 22.7 | 34.1 | 32.1 | 27.8 | 30.3 | 27.7 | 23.0 | 21.9 | 20.6 | 17.1 | 19.63 | 34.06 | | | | | | | | | | | | | | | | | | | | | | | |
| 18-Dec | 14.7 | 15.1 | 16.1 | Z | 14.2 | 11.7 | 10.7 | 10.6 | 11.9 | 14.4 | 18.0 | 17.0 | 11.5 | 9.8 | 9.2 | 10.5 | 11.0 | 9.5 | 8.8 | 8.6 | 9.3 | 9.0 | 11.9 | 15.9 | 12.15 | 17.97 | | | | | | | | | | | | | | | | | | | | | | | |
| 19-Dec | 11.8 | 14.2 | 14.6 | Z | 17.9 | 14.9 | 16.4 | 13.9 | 16.8 | 17.4 | 15.1 | 13.3 | 10.4 | 11.9 | 12.8 | 12.2 | 16.6 | 17.7 | 15.7 | 12.7 | 13.2 | 13.2 | 13.8 | 13.7 | 14.36 | 17.90 | | | | | | | | | | | | | | | | | | | | | | | |
| 20-Dec | 15.2 | 17.1 | 14.2 | Z | 7.1 | 4.5 | 1.7 | 5.4 | 5.5 | 8.7 | 8.8 | 8.3 | 3.8 | 3.1 | 3.5 | 6.0 | 17.2 | 7.6 | 9.2 | 6.4 | 6.5 | 4.8 | 8.5 | 5.7 | 7.77 | 17.22 | | | | | | | | | | | | | | | | | | | | | | | |
| 21-Dec | 6.6 | 7.3 | 4.2 | Z | 5.1 | 6.2 | 6.7 | 15.8 | 23.2 | 20.7 | 15.1 | 12.5 | 10.7 | 12.4 | 4.9 | 15.2 | 14.3 | 30.7 | 39.2 | 33.5 | 27.8 | 26.3 | 25.1 | 23.0 | 16.81 | 39.22 | | | | | | | | | | | | | | | | | | | | | | | |
| 22-Dec | 19.0 | 18.1 | 15.7 | Z | 7.4 | 11.3 | 14.7 | 13.1 | 14.1 | 16.4 | 18.7 | 20.1 | 24.2 | 17.8 | 5.9 | 17.2 | 7.7 | 32.5 | 24.5 | 9.8 | 15.9 | 20.1 | 17.2 | 15.0 | 16.36 | 32.52 | | | | | | | | | | | | | | | | | | | | | | | |
| 23-Dec | 14.5 | 14.3 | 14.6 | Z | 13.4 | 12.2 | 12.4 | 13.2 | 14.7 | 13.6 | 14.4 | 18.1 | 18.2 | 14.0 | 19.1 | 22.4 | 34.5 | 29.4 | 25.2 | 20.2 | 12.1 | 9.2 | 10.7 | 15.7 | 16.79 | 34.50 | | | | | | | | | | | | | | | | | | | | | | | |
| 24-Dec | 12.8 | 16.1 | 17.8 | Z | 15.1 | 17.4 | 18.7 | 18.4 | 19.0 | 16.5 | 14.2 | 11.6 | 8.6 | 8.0 | 7.0 | 8.5 | 8.0 | 8.3 | 8.5 | 10.7 | 9.0 | 10.5 | 10.6 | 12.9 | 12.53 | 19.02 | | | | | | | | | | | | | | | | | | | | | | | |
| 25-Dec | 14.2 | 14.7 | 13.3 | Z | 12.5 | 12.7 | 9.5 | 16.7 | 15.1 | 7.7 | 3.9 | 3.7 | 2.8 | 4.2 | 2.8 | 3.6 | 17.1 | 27.3 | 21.9 | 21.3 | 21.6 | 14.7 | 7.1 | 11.9 | 12.18 | 27.26 | | | | | | | | | | | | | | | | | | | | | | | |
| 26-Dec | 9.2 | 9.6 | 8.0 | Z | 9.7 | 10.4 | 11.8 | 11.3 | 9.2 | 7.7 | 6.7 | 6.3 | 5.2 | 4.8 | 5.4 | 6.5 | 9.1 | 13.4 | 8.3 | 8.9 | 10.8 | 4.0 | 2.3 | 1.8 | 7.84 | 13.35 | | | | | | | | | | | | | | | | | | | | | | | |
| 27-Dec | 1.8 | 3.1 | 1.8 | Z | 1.7 | 1.5 | 1.6 | 1.9 | 1.6 | 2.0 | 3.4 | 4.0 | 2.7 | 2.3 | 2.9 | 3.6 | 5.3 | 4.0 | 10.7 | 8.1 | 13.1 | 10.8 | 7.9 | 6.6 | 4.45 | 13.05 | | | | | | | | | | | | | | | | | | | | | | | |
| 28-Dec | 14.0 | 3.9 | 6.2 | Z | 14.2 | 14.4 | 22.1 | 18.5 | 18.1 | 20.5 | 16.4 | 26.9 | 13.6 | 8.3 | 7.3 | 7.6 | 22.6 | 21.5 | 29.5 | 27.7 | 25.5 | 21.0 | 18.1 | 14.2 | 17.05 | 29.45 | | | | | | | | | | | | | | | | | | | | | | | |
| 29-Dec | 9.9 | 11.1 | 7.1 | Z | 8.1 | 9.9 | 10.4 | 11.1 | 11.1 | 11.2 | 10.4 | 10.2 | 3.4 | 4.9 | 6.0 | 5.3 | 4.3 | 7.1 | 7.8 | 5.3 | 5.6 | 2.6 | 3.0 | 4.4 | 7.39 | 11.18 | | | | | | | | | | | | | | | | | | | | | | | |
| 30-Dec | 7.6 | 2.9 | 7.0 | Z | 10.7 | 11.0 | 11.6 | 7.6 | 11.2 | 7.7 | 10.4 | 2.3 | 4.0 | 5.7 | 7.0 | 9.4 | 14.0 | 13.2 | 5.0 | 9.8 | 7.4 | 6.8 | 9.0 | 7.1 | 8.20 | 14.03 | | | | | | | | | | | | | | | | | | | | | | | |
| 31-Dec | 5.6 | 6.9 | 6.3 | Z | 6.8 | 2.5 | 3.3 | 5.2 | 3.2 | 2.5 | 3.2 | 3.3 | 2.3 | 2.5 | 2.4 | 2.7 | 3.0 | 3.1 | 4.2 | 3.7 | 2.8 | 3.4 | 4.5 | 7.4 | 3.96 | 7.40 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 11.07 | 11.12 | 11.10 | -- | 10.48 | 10.66 | 11.54 | 12.50 | 13.59 | 12.35 | 11.02 | 11.06 | 9.26 | 8.29 | 8.93 | 11.40 | 14.46 | 16.40 | 16.71 | 14.46 | 12.47 | 11.58 | 11.31 | 10.72 | Diurnal Average | |
| | | | | | | | | | | | | | | | | | | | | | | | | 19.78 | 23.21 | 25.77 | -- | 23.81 | 34.03 | 37.68 | 35.83 | 42.03 | 30.14 | 27.09 | 26.92 | 29.40 | 17.80 | 22.72 | 34.06 | 35.07 | 34.13 | 39.22 | 34.91 | 27.76 | 26.64 | 25.11 | 22.99 | Diurnal Maximum | |
| Z - zerospan | | | | | | | | | | | | | | | | | | | | | | | | C - Calibration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb 24-hr 106 ppb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Hinton
Summary of Hourly Averages

NOx (NO_x) - ppb
December 2015

| Maximum Value: 143.09 ppb on Dec 9 19:00 | | Maximum Daily Average: 55.76 ppb on Dec 14 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------|------|---------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|---------------|-----------------|--|--|--|--|--|--|--|
| Minimum Value: 0.9 ppb on Dec 2 06:00 | | Minimum Daily Average: 4.31 ppb on Dec 31 | | Hours of Data: 707 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: 40.64 ppb at hour 19 | | Minimum Diurnal Average: 14.20 ppb at hour 14 | | Hours of Missing Data: 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: 21.692 ppb | | Percentiles: P ₁ = 1.7 P ₁₀ = 4.7 Q ₁ = 8.0 Median = 14.4 Q ₃ = 27.7 P ₉₀ = 47.3 P ₉₉ = 107.3 | | Hours of Calibration: 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 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-Dec | 14.9 | 17.7 | 49.6 | Z | 33.2 | 67.7 | 77.5 | 95.7 | 105.4 | 12.2 | 16.3 | 6.3 | 7.7 | 8.7 | 5.4 | 6.2 | 7.1 | 10.5 | 6.2 | 4.1 | 9.1 | 6.2 | 4.9 | 3.9 | 25.05 | 105.35 | | | | | | | |
| 2-Dec | 13.4 | 25.3 | 31.4 | Z | 7.6 | 0.9 | 9.2 | 13.8 | 12.1 | 16.4 | 11.1 | 11.2 | 7.7 | 8.6 | 4.8 | 7.8 | 12.1 | 10.6 | 12.1 | 3.9 | 5.2 | 7.9 | 22.1 | 7.9 | 11.43 | 31.39 | | | | | | | |
| 3-Dec | 13.9 | 17.1 | 25.7 | Z | 10.1 | 10.0 | 11.9 | 21.7 | 24.2 | 57.7 | 61.9 | 41.4 | 51.7 | 25.2 | 22.9 | 21.9 | 80.3 | 77.2 | 57.8 | 36.2 | 38.2 | 21.4 | 23.0 | 16.0 | 33.37 | 80.27 | | | | | | | |
| 4-Dec | 9.3 | 13.9 | 8.4 | Z | 4.8 | 3.4 | 11.9 | 14.2 | 13.1 | 10.3 | 6.2 | 5.9 | 9.3 | 15.0 | 14.8 | 8.0 | 13.8 | 13.5 | 12.8 | 7.7 | 5.5 | 3.1 | 9.3 | 13.5 | 9.90 | 14.96 | | | | | | | |
| 5-Dec | 13.0 | 11.2 | 6.6 | Z | 6.1 | 8.7 | 4.1 | 5.6 | 10.2 | 6.7 | 6.0 | 15.2 | 15.8 | 11.7 | 8.4 | 11.8 | 6.3 | 2.5 | 5.9 | 5.4 | 2.4 | 6.8 | 4.1 | 2.2 | 7.68 | 15.77 | | | | | | | |
| 6-Dec | 7.5 | 2.4 | 1.6 | Z | 4.0 | 5.5 | 5.8 | 5.9 | 9.8 | 7.3 | 15.0 | 11.7 | 7.8 | 15.9 | 15.6 | 7.7 | 4.2 | 6.3 | 3.6 | 2.0 | 11.5 | 11.1 | 3.0 | 6.5 | 7.47 | 15.93 | | | | | | | |
| 7-Dec | 5.5 | 5.1 | 11.3 | Z | 9.6 | 9.5 | 12.3 | 13.0 | 16.0 | 12.3 | 12.0 | 11.7 | 5.6 | 4.0 | 7.1 | 9.4 | 9.8 | 7.9 | 18.6 | 50.5 | 20.2 | 35.5 | 28.3 | 22.5 | 14.68 | 50.48 | | | | | | | |
| 8-Dec | 21.6 | 18.8 | 25.2 | Z | 45.8 | 55.9 | 62.8 | 36.0 | 24.0 | 20.9 | 15.9 | 15.5 | 17.1 | 18.2 | 31.6 | 42.9 | 31.5 | 76.2 | 53.1 | 52.1 | 36.7 | 28.1 | 34.3 | 36.3 | 34.81 | 76.23 | | | | | | | |
| 9-Dec | 33.4 | 34.7 | 34.1 | Z | 31.3 | 30.5 | 33.7 | 39.8 | 37.0 | 34.5 | 37.0 | 33.9 | 23.9 | 25.4 | 36.5 | 38.4 | 63.8 | 99.3 | 143.1 | 108.5 | 80.0 | 49.2 | 34.9 | 47.3 | 49.13 | 143.09 | | | | | | | |
| 10-Dec | 37.7 | 25.2 | 30.7 | Z | 34.0 | 34.2 | 43.6 | 62.9 | 41.9 | 42.5 | 36.0 | 37.4 | 34.5 | 18.4 | 24.4 | 43.8 | 23.1 | 20.6 | 43.1 | 46.0 | 15.8 | 13.7 | 9.6 | 9.6 | 31.68 | 62.92 | | | | | | | |
| 11-Dec | 10.4 | 10.5 | 14.7 | Z | 15.2 | 14.9 | 22.7 | 28.0 | 40.7 | 61.3 | 36.9 | 26.4 | 17.0 | 18.4 | 23.4 | 28.2 | 21.3 | 49.0 | 70.7 | 53.9 | 35.2 | 72.3 | 76.3 | 32.2 | 33.90 | 76.33 | | | | | | | |
| 12-Dec | 21.6 | 26.2 | 30.6 | Z | 25.4 | 27.7 | 33.9 | 31.8 | 43.3 | 47.6 | 31.7 | 28.0 | 18.7 | C | C | C | C | C | C | 36.4 | 33.4 | 31.9 | 15.7 | 11.7 | -- | 47.60 | | | | | | | |
| 13-Dec | 15.6 | 9.9 | 10.6 | Z | 10.8 | 10.0 | 12.7 | 12.8 | 12.9 | 12.1 | 15.0 | 9.6 | 7.5 | 6.5 | 8.4 | 10.5 | 8.1 | 11.7 | 19.2 | 14.9 | 8.1 | 12.2 | 13.4 | 11.3 | 11.47 | 19.20 | | | | | | | |
| 14-Dec | 15.6 | 11.0 | 18.2 | Z | 25.7 | 43.1 | 74.0 | 71.6 | 68.9 | 57.3 | 49.8 | 31.8 | 42.9 | 11.7 | 20.3 | 50.1 | 117.4 | 142.8 | 143.1 | 63.2 | 64.7 | 46.1 | 51.8 | 61.3 | 55.76 | 143.05 | | | | | | | |
| 15-Dec | 40.3 | 38.4 | 9.4 | Z | 2.7 | 6.6 | 4.2 | 9.3 | 15.2 | 14.4 | 7.2 | 13.1 | 5.7 | 5.2 | 7.7 | 12.1 | 18.2 | 52.6 | 86.5 | 75.6 | 25.9 | 1.6 | 1.3 | 8.5 | 20.08 | 86.52 | | | | | | | |
| 16-Dec | 11.1 | 10.1 | 6.4 | Z | 15.4 | 26.5 | 11.2 | 8.4 | 27.7 | 22.2 | 15.3 | 21.9 | 6.7 | 13.4 | 12.5 | 19.1 | 32.9 | 24.2 | 21.0 | 20.3 | 5.7 | 27.4 | 29.3 | 16.1 | 17.60 | 32.94 | | | | | | | |
| 17-Dec | 8.2 | 7.8 | 10.3 | Z | 19.5 | 14.7 | 42.8 | 43.6 | 8.5 | 13.3 | 14.6 | 67.1 | 71.9 | 26.5 | 38.6 | 89.7 | 79.8 | 53.0 | 81.0 | 59.5 | 35.7 | 38.5 | 28.3 | 22.9 | 38.07 | 89.68 | | | | | | | |
| 18-Dec | 16.1 | 17.5 | 20.8 | Z | 15.5 | 13.1 | 12.3 | 12.8 | 14.1 | 18.1 | 23.4 | 25.4 | 19.9 | 16.5 | 15.5 | 15.7 | 15.0 | 11.8 | 10.6 | 10.3 | 10.6 | 10.3 | 13.4 | 17.3 | 15.48 | 25.45 | | | | | | | |
| 19-Dec | 12.2 | 15.1 | 16.0 | Z | 22.1 | 16.2 | 18.0 | 15.0 | 22.1 | 34.5 | 32.7 | 28.8 | 21.3 | 24.7 | 22.5 | 19.7 | 23.5 | 24.4 | 22.7 | 14.9 | 14.5 | 16.6 | 16.2 | 15.2 | 20.38 | 34.54 | | | | | | | |
| 20-Dec | 18.2 | 23.0 | 18.7 | Z | 7.4 | 4.7 | 1.8 | 6.2 | 5.8 | 12.2 | 12.3 | 12.2 | 5.0 | 3.9 | 4.4 | 7.0 | 20.9 | 8.1 | 9.8 | 6.8 | 6.6 | 5.0 | 8.7 | 5.8 | 9.32 | 23.00 | | | | | | | |
| 21-Dec | 6.8 | 7.5 | 4.3 | Z | 5.3 | 6.8 | 9.8 | 21.8 | 37.8 | 36.2 | 26.3 | 23.8 | 18.6 | 22.2 | 7.2 | 24.2 | 14.9 | 76.7 | 121.5 | 110.5 | 74.3 | 68.1 | 60.5 | 41.0 | 35.93 | 121.51 | | | | | | | |
| 22-Dec | 29.6 | 29.9 | 21.7 | Z | 7.5 | 13.0 | 19.0 | 14.0 | 15.0 | 29.4 | 46.9 | 42.7 | 61.1 | 39.6 | 7.8 | 22.8 | 8.4 | 84.1 | 54.8 | 11.3 | 23.2 | 29.3 | 23.1 | 18.6 | 28.39 | 84.08 | | | | | | | |
| 23-Dec | 16.9 | 17.5 | 20.6 | Z | 19.7 | 18.9 | 14.6 | 13.7 | 16.2 | 18.5 | 28.4 | 40.0 | 39.2 | 23.8 | 30.7 | 33.3 | 93.0 | 76.5 | 65.6 | 29.3 | 14.6 | 9.4 | 11.0 | 16.6 | 29.05 | 93.03 | | | | | | | |
| 24-Dec | 13.4 | 17.4 | 19.5 | Z | 15.9 | 19.5 | 23.8 | 28.0 | 33.0 | 25.6 | 24.5 | 21.7 | 16.5 | 15.1 | 11.8 | 14.1 | 10.2 | 9.1 | 9.7 | 12.0 | 9.9 | 12.1 | 12.2 | 15.8 | 16.99 | 32.96 | | | | | | | |
| 25-Dec | 15.3 | 16.1 | 14.4 | Z | 14.6 | 13.9 | 12.3 | 23.5 | 19.0 | 8.5 | 5.0 | 5.1 | 3.9 | 6.2 | 3.7 | 4.2 | 24.8 | 43.7 | 30.4 | 25.9 | 32.9 | 19.0 | 7.3 | 14.3 | 15.83 | 43.73 | | | | | | | |
| 26-Dec | 10.4 | 12.8 | 8.7 | Z | 11.0 | 13.5 | 14.1 | 13.8 | 10.9 | 9.6 | 10.4 | 10.4 | 8.5 | 7.4 | 7.4 | 8.2 | 12.7 | 16.8 | 8.6 | 9.2 | 11.4 | 4.3 | 2.5 | 1.9 | 9.76 | 16.80 | | | | | | | |
| 27-Dec | 1.9 | 3.3 | 1.9 | Z | 2.1 | 1.7 | 1.8 | 2.0 | 1.7 | 2.1 | 3.9 | 4.8 | 3.7 | 3.1 | 3.7 | 4.7 | 6.3 | 4.1 | 11.6 | 8.6 | 14.7 | 11.5 | 9.5 | 6.8 | 5.02 | 14.72 | | | | | | | |
| 28-Dec | 15.4 | 4.0 | 6.9 | Z | 15.8 | 26.1 | 50.4 | 27.3 | 27.7 | 45.4 | 43.4 | 77.3 | 25.2 | 12.8 | 10.0 | 9.2 | 44.9 | 40.3 | 78.8 | 79.9 | 61.0 | 40.6 | 31.6 | 19.7 | 34.50 | 79.89 | | | | | | | |
| 29-Dec | 12.7 | 14.1 | 7.5 | Z | 9.2 | 10.4 | 10.9 | 12.7 | 11.3 | 14.3 | 16.8 | 25.0 | 4.8 | 6.9 | 8.0 | 6.4 | 4.8 | 7.2 | 7.9 | 5.4 | 6.0 | 2.7 | 3.0 | 4.5 | 9.24 | 25.02 | | | | | | | |
| 30-Dec | 8.7 | 3.0 | 8.0 | Z | 10.7 | 11.2 | 12.0 | 7.7 | 11.6 | 8.4 | 13.5 | 3.0 | 5.5 | 7.9 | 9.2 | 11.1 | 15.0 | 13.6 | 5.1 | 10.2 | 7.5 | 6.8 | 9.1 | 7.2 | 8.96 | 15.00 | | | | | | | |
| 31-Dec | 5.7 | 7.1 | 6.5 | Z | 6.9 | 2.7 | 3.5 | 5.3 | 3.4 | 2.9 | 4.0 | 4.3 | 3.3 | 3.3 | 3.3 | 3.5 | 3.3 | 3.2 | 4.4 | 3.9 | 3.0 | 3.4 | 4.6 | 7.6 | 4.31 | 7.60 | | | | | | | |
| | | 15.37 | 15.27 | 16.14 | -- | 15.00 | 17.47 | 21.89 | 23.16 | 23.88 | 23.06 | 21.91 | 22.99 | 18.97 | 14.20 | 14.26 | 19.72 | 27.58 | 35.93 | 40.64 | 31.56 | 23.33 | 21.03 | 19.43 | 16.84 | Diurnal Average | | | | | | | |
| | | 40.25 | 38.36 | 49.63 | -- | 45.78 | 67.69 | 77.53 | 95.68 | 105.35 | 61.27 | 61.89 | 77.31 | 71.91 | 39.57 | 38.58 | 89.68 | 117.39 | 142.82 | 143.09 | 110.48 | 80.03 | 72.29 | 76.33 | 61.33 | Diurnal Maximum | | | | | | | |
| Z - zerospan | | C - Calibration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alberta Ambient Air Quality Objectives (AAAQO): | | 1-hr --- ppb | | | | 24-hr --- ppb | | | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Hinton
Summary of Hourly Averages

PM2.5 (PM_{2.5}) - µg/m³
December 2015

| Maximum Value: 31.68 µg/m ³ on Dec 14 00:00 | | Maximum Daily Average: 15.73 µg/m ³ on Dec 14 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|--|
| Minimum Value: 0.0 µg/m ³ on Dec 22 02:00 | | Minimum Daily Average: 3.60 µg/m ³ on Dec 29 | | Hours of Data: 740 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: 9.09 µg/m ³ at hour 19 | | Minimum Diurnal Average: 6.51 µg/m ³ at hour 5 | | Hours of Missing Data: 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: 7.562 µg/m ³ | | Percentiles: P ₁ = 1.4 P ₁₀ = 2.8 Q ₁ = 4.2 Median = 6.6 Q ₃ = 9.9 P ₉₀ = 13.2 P ₉₉ = 25.0 | | Hours of Calibration: 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Percent Operational Time: 99.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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-Dec | 3.8 | 3.4 | 7.7 | 8.4 | 5.7 | 8.1 | 6.8 | 6.7 | 9.2 | 7.1 | 5.8 | 7.2 | 7.4 | 9.6 | 4.4 | 4.5 | 3.6 | 6.0 | 3.1 | 2.5 | 7.5 | 3.3 | 4.3 | 0.9 | 5.71 | 9.64 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Dec | 4.8 | 3.7 | 2.3 | 4.2 | 7.6 | 3.8 | 9.6 | 13.5 | 9.7 | 11.8 | 9.2 | 10.3 | 8.3 | 7.5 | 4.9 | 7.9 | 11.5 | 11.0 | 7.9 | 1.9 | 2.4 | 3.7 | 5.6 | 5.0 | 7.00 | 13.53 | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Dec | 5.9 | 5.0 | 4.0 | 5.1 | 3.5 | 3.8 | 2.7 | 3.4 | 3.6 | 7.1 | 6.7 | 9.0 | 7.5 | 7.2 | 2.9 | 2.8 | 14.2 | 5.6 | 3.2 | 6.5 | 4.5 | 7.9 | 3.4 | 5.1 | 5.44 | 14.19 | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Dec | 4.2 | 5.0 | 10.2 | 3.2 | 7.9 | 5.8 | 6.4 | 6.0 | 11.1 | 7.3 | 6.4 | 3.6 | 7.0 | 12.8 | 14.7 | 8.6 | 12.0 | 11.8 | 11.1 | 6.4 | 5.8 | 4.0 | 10.1 | 12.9 | 8.10 | 14.68 | | | | | | | | | | | | | | | | | | | | | | | |
| 5-Dec | 13.3 | 12.3 | 9.2 | 6.6 | 6.5 | 9.0 | 7.1 | 7.0 | 10.3 | 8.3 | 6.8 | 4.1 | 3.5 | 4.5 | 6.6 | 9.1 | 5.0 | 3.0 | 3.9 | 3.3 | 2.1 | 2.2 | 1.8 | 2.4 | 6.16 | 13.25 | | | | | | | | | | | | | | | | | | | | | | | |
| 6-Dec | 5.6 | 3.4 | 2.9 | 5.2 | 3.5 | 3.7 | 4.6 | 3.2 | 2.8 | 3.9 | 5.5 | 2.6 | 3.0 | 3.6 | 5.0 | 5.9 | 5.0 | 2.7 | 2.6 | 1.7 | 11.5 | 10.8 | 1.9 | 6.9 | 4.48 | 11.45 | | | | | | | | | | | | | | | | | | | | | | | |
| 7-Dec | 4.9 | 1.4 | 2.5 | 2.7 | 2.5 | 4.6 | 11.7 | 10.9 | 13.2 | 12.5 | 12.0 | 11.4 | 4.9 | 3.9 | 6.6 | 11.1 | 7.2 | 7.1 | 7.7 | 8.9 | 7.6 | 8.1 | 9.8 | 9.9 | 7.62 | 13.23 | | | | | | | | | | | | | | | | | | | | | | | |
| 8-Dec | 7.9 | 7.4 | 11.0 | 7.7 | 14.4 | 5.8 | 6.0 | 7.4 | 6.8 | 5.0 | 4.9 | 2.6 | 1.9 | 3.7 | 14.9 | 16.7 | 5.7 | 7.8 | 10.2 | 10.3 | 12.2 | 12.2 | 11.9 | 13.2 | 8.65 | 16.70 | | | | | | | | | | | | | | | | | | | | | | | |
| 9-Dec | 9.5 | 10.8 | 8.5 | 5.1 | 6.9 | 7.4 | 6.7 | 6.7 | 7.0 | 7.3 | 11.4 | 12.1 | 8.7 | 10.1 | 12.1 | 12.4 | 13.7 | 17.2 | 20.1 | 17.6 | 16.3 | 14.5 | 11.9 | 15.6 | 11.23 | 20.08 | | | | | | | | | | | | | | | | | | | | | | | |
| 10-Dec | 10.7 | 7.3 | 6.5 | 7.3 | 4.4 | 4.5 | 6.5 | 7.0 | 7.2 | 6.7 | 8.0 | 5.3 | 8.5 | 5.4 | 8.4 | 13.2 | 16.1 | 22.2 | 20.7 | 25.0 | 16.8 | 14.4 | 13.1 | 12.2 | 10.73 | 25.04 | | | | | | | | | | | | | | | | | | | | | | | |
| 11-Dec | 13.2 | 11.6 | 10.9 | 12.2 | 12.2 | 14.1 | 15.8 | 14.9 | 14.6 | 15.1 | 16.6 | 15.1 | 12.7 | 10.7 | 12.1 | 13.3 | 10.9 | 13.1 | 17.4 | 14.2 | 15.2 | 14.4 | 17.4 | 11.2 | 13.70 | 17.43 | | | | | | | | | | | | | | | | | | | | | | | |
| 12-Dec | 10.4 | 10.2 | 13.5 | 12.1 | 12.0 | 12.1 | 13.6 | 13.2 | 13.9 | 14.4 | 16.1 | 18.8 | 8.9 | 7.0 | 6.7 | 5.4 | 4.5 | 7.2 | 12.1 | 13.5 | 12.8 | 11.8 | 5.7 | 6.4 | 10.93 | 18.80 | | | | | | | | | | | | | | | | | | | | | | | |
| 13-Dec | 8.2 | 5.8 | 6.5 | 6.2 | 6.7 | 7.5 | 8.8 | 9.0 | 10.8 | 10.4 | 9.2 | 7.0 | 6.3 | 5.9 | 7.3 | 8.2 | 8.2 | 8.2 | 9.1 | 8.8 | 7.4 | 8.9 | 22.5 | 31.7 | 9.52 | 31.68 | | | | | | | | | | | | | | | | | | | | | | | |
| 14-Dec | 28.9 | 25.1 | 23.4 | 22.2 | 22.9 | 23.7 | 25.3 | 21.7 | 19.6 | 13.1 | 13.7 | 11.1 | 12.3 | 9.1 | 12.2 | 10.8 | 19.3 | 14.6 | 13.5 | 9.7 | 6.7 | 5.8 | 6.2 | 6.5 | 15.73 | 28.89 | | | | | | | | | | | | | | | | | | | | | | | |
| 15-Dec | 6.8 | 5.1 | 5.3 | 4.7 | 1.0 | 0.6 | 2.4 | 3.1 | 3.6 | 3.9 | 3.2 | 4.7 | 2.5 | 1.7 | 3.2 | 4.8 | 4.5 | 6.5 | 9.4 | 8.4 | 5.1 | 2.9 | 1.9 | 3.6 | 4.12 | 9.37 | | | | | | | | | | | | | | | | | | | | | | | |
| 16-Dec | 3.7 | 3.6 | 2.8 | 4.1 | 3.1 | 3.5 | 2.9 | 3.2 | 4.8 | 4.0 | 4.0 | 5.3 | 2.3 | 6.4 | 3.6 | 5.7 | 5.5 | 4.7 | 6.4 | 3.0 | 2.3 | 4.0 | 4.0 | 4.1 | 4.04 | 6.41 | | | | | | | | | | | | | | | | | | | | | | | |
| 17-Dec | 2.5 | 2.5 | 3.4 | 2.6 | 3.5 | 2.9 | 4.2 | 4.5 | 2.3 | 3.2 | 6.0 | 12.8 | 12.3 | 5.9 | 8.6 | 12.2 | 9.0 | 4.8 | 6.5 | 5.4 | 5.9 | 6.0 | 5.4 | 6.6 | 5.80 | 12.79 | | | | | | | | | | | | | | | | | | | | | | | |
| 18-Dec | 4.7 | 5.1 | 7.9 | 10.5 | 8.2 | 6.4 | 6.4 | 6.7 | 6.6 | 8.3 | 9.2 | 10.1 | 10.7 | 9.0 | 9.6 | 10.7 | 9.3 | 8.6 | 8.1 | 7.7 | 8.5 | 8.7 | 7.2 | 8.6 | 8.20 | 10.72 | | | | | | | | | | | | | | | | | | | | | | | |
| 19-Dec | 7.1 | 8.4 | 8.8 | 7.3 | 9.6 | 7.7 | 8.4 | 8.4 | 9.1 | 13.2 | 13.1 | 17.6 | 18.2 | 15.7 | 11.8 | 10.9 | 11.1 | 11.9 | 10.5 | 9.4 | 10.0 | 9.9 | 11.3 | 11.0 | 10.85 | 18.18 | | | | | | | | | | | | | | | | | | | | | | | |
| 20-Dec | 10.6 | 11.3 | 9.1 | 4.5 | 2.7 | 4.3 | 2.4 | 4.6 | 4.1 | 3.5 | 3.5 | 3.1 | 2.1 | 6.3 | 4.0 | 6.1 | 5.9 | 6.5 | 12.1 | 6.8 | 7.8 | 4.9 | 10.1 | 8.7 | 6.04 | 12.08 | | | | | | | | | | | | | | | | | | | | | | | |
| 21-Dec | 6.0 | 7.7 | 4.6 | 4.1 | 6.4 | 4.3 | 2.8 | 1.9 | 4.2 | 4.5 | 4.8 | 3.7 | 2.4 | 3.6 | 1.5 | 4.2 | 4.2 | 13.3 | 13.4 | 7.4 | 5.5 | 6.3 | 4.5 | 1.7 | 5.12 | 13.36 | | | | | | | | | | | | | | | | | | | | | | | |
| 22-Dec | UC | 0.0 | 5.7 | 7.4 | UC | 20.8 | UC | 16.7 | UC | 13.2 | 20.9 | 11.1 | 13.4 | 12.0 | 2.1 | 6.8 | 3.7 | 10.9 | 10.8 | 3.6 | 5.0 | 6.4 | 10.3 | 26.9 | 10.38 | 26.86 | | | | | | | | | | | | | | | | | | | | | | | |
| 23-Dec | 27.6 | 22.4 | 18.6 | 13.2 | 6.2 | 1.4 | 2.6 | 1.3 | 2.2 | 3.6 | 8.0 | 7.7 | 9.8 | 8.8 | 13.8 | 8.5 | 11.1 | 7.7 | 7.6 | 7.4 | 7.6 | 4.7 | 4.7 | 7.5 | 8.92 | 27.59 | | | | | | | | | | | | | | | | | | | | | | | |
| 24-Dec | 6.6 | 12.6 | 9.0 | 5.5 | 4.4 | 5.8 | 5.8 | 12.3 | 10.5 | 10.7 | 8.8 | 8.1 | 4.9 | 6.4 | 7.3 | 8.1 | 7.8 | 7.9 | 8.6 | 8.4 | 8.8 | 9.4 | 10.1 | 13.3 | 8.37 | 13.30 | | | | | | | | | | | | | | | | | | | | | | | |
| 25-Dec | 11.7 | 9.8 | 8.6 | 8.1 | 6.2 | 6.3 | 6.4 | 7.2 | 7.0 | 6.5 | 4.6 | 4.6 | 5.4 | 6.0 | 4.0 | 5.3 | 9.3 | 10.8 | 7.4 | 8.1 | 7.2 | 7.3 | 6.6 | 5.9 | 7.10 | 11.69 | | | | | | | | | | | | | | | | | | | | | | | |
| 26-Dec | 7.5 | 7.3 | 8.3 | 7.0 | 5.4 | 4.8 | 4.8 | 4.6 | 3.7 | 4.4 | 5.9 | 4.9 | 5.0 | 4.3 | 5.4 | 10.1 | 11.5 | 20.3 | 7.1 | 6.1 | 9.4 | 2.4 | 2.0 | 1.8 | 6.43 | 20.31 | | | | | | | | | | | | | | | | | | | | | | | |
| 27-Dec | 2.1 | 4.1 | 2.7 | 2.6 | 2.0 | 3.2 | 2.8 | 1.4 | 2.3 | 2.4 | 3.6 | 3.7 | 1.6 | 2.4 | 4.6 | 4.0 | 4.9 | 4.1 | 4.9 | 4.7 | 5.9 | 10.1 | 5.4 | 5.6 | 3.81 | 10.09 | | | | | | | | | | | | | | | | | | | | | | | |
| 28-Dec | 8.6 | 2.7 | 4.3 | 7.2 | 6.4 | 6.9 | 11.6 | 5.7 | 4.4 | 8.4 | 8.4 | 10.7 | 6.2 | 6.4 | 3.8 | 3.6 | 6.6 | 5.8 | 12.0 | 10.1 | 5.7 | 3.4 | 4.1 | 2.6 | 6.49 | 12.02 | | | | | | | | | | | | | | | | | | | | | | | |
| 29-Dec | 2.8 | 2.8 | 2.8 | 2.6 | 2.4 | 2.8 | 2.9 | 3.0 | 2.7 | 3.9 | 7.0 | 9.3 | 2.3 | 3.8 | 4.2 | 2.7 | 3.4 | 4.3 | 3.9 | 3.0 | 3.9 | 3.6 | 2.8 | 3.7 | 3.60 | 9.27 | | | | | | | | | | | | | | | | | | | | | | | |
| 30-Dec | 6.2 | 3.9 | 4.5 | 5.0 | 4.0 | 5.4 | 5.5 | 3.4 | 4.9 | 3.9 | 7.9 | 4.8 | 2.4 | 4.1 | 8.3 | 7.8 | 8.4 | 7.3 | 3.3 | 6.3 | 4.8 | 4.3 | 4.2 | 2.9 | 5.15 | 8.39 | | | | | | | | | | | | | | | | | | | | | | | |
| 31-Dec | 4.9 | 7.1 | 6.7 | 6.3 | 7.1 | 3.7 | 4.3 | 4.8 | 3.0 | 4.0 | 4.1 | 2.9 | 2.6 | 3.4 | 4.0 | 4.7 | 6.4 | 6.7 | 7.1 | 6.4 | 6.2 | 6.2 | 7.6 | 11.2 | 5.47 | 11.18 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 8.36 | 7.39 | 7.49 | 6.80 | 6.51 | 6.61 | 6.92 | 7.20 | 7.17 | 7.48 | 8.24 | 7.91 | 6.61 | 6.68 | 7.05 | 7.94 | 8.38 | 9.03 | 9.09 | 7.82 | 7.69 | 7.17 | 7.35 | 8.56 | Diurnal Average | |
| | | | | | | | | | | | | | | | | | | | | | | | | 28.89 | 25.14 | 23.41 | 22.24 | 22.90 | 23.74 | 25.25 | 21.70 | 19.63 | 15.05 | 20.91 | 18.80 | 18.18 | 15.72 | 14.92 | 16.70 | 19.33 | 22.18 | 20.72 | 25.04 | 16.78 | 14.54 | 22.53 | 31.68 | Diurnal Maximum | |
| UO - Unstable Operation Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 80 ul/m ³ 24-hr 30 ul/m ³ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 906, Hinton

Calibration Date: December 12, 2015

Parameter: NO/NO₂/NO_x

Instrument: Teco 42i

Serial Number: CM13040041

Previous Calibration Date: November 26, 2015

Calibration: Routine

Calibration Equipment: Sabio 2010 SN 08600312

Barometric Pressure: 26.30" Hg

Calibration Method: Standard Gas Dilution/GPT

Cylinder ID: FF14354

Temperature: 22.4° C

Cylinder Concentration: 12.6 ppm NO

In Service: January 14, 2015

Technician: L. Burns

| Instrument Settings | NO bkg ppb | NO _x bkg ppb | Pre-reactor bkg ppb | NO Coefficient | NO _x Coefficient | NO ₂ Coefficient | Monitoring Range |
|---------------------|---------------|----------------------------|------------------------|-------------------|--------------------------------|--------------------------------|---------------------|
| Previous | 5.5 | 5.9 | NA | 0.907 | 1.002 | 0.956 | 200 ppb |
| Current | 5.6 | 5.8 | NA | 0.930 | 1.003 | 1.000 | 200 ppb |

| | | | |
|-----------------|----------------------|-----------------------|-----------------------------------|
| NO | Final Zero: -0.3 ppb | Final Span: 152.8 ppb | As Found Correction Factor: 1.033 |
| NO ₂ | Final Zero: -0.5 ppb | Final Span: 0.0 ppb | As Found Correction Factor: NA |
| NO _x | Final Zero: -0.3 ppb | Final Span: 152.8 ppb | As Found Correction Factor: 1.033 |

| Results of Linear Regression | | | Slope | Intercept | R ² |
|------------------------------|----------------------------------|----------|------------|-------------|----------------|
| NO | R _c vs C _c | Previous | 150.089700 | 36.691620 | 0.999959 |
| | | Current | 149.334000 | 83.354430 | 0.999954 |
| | C _i vs C _c | Current | 1.000000 | -0.000021 | 0.999954 |
| NO ₂ | R _c vs C _c | Previous | 150.992900 | -346.950700 | 0.999959 |
| | | Current | 150.257100 | 82.102850 | 0.999878 |
| | C _i vs C _c | Current | 1.000000 | 0.000000 | 0.999879 |
| NO _x | R _c vs C _c | Previous | 150.513400 | 25.262620 | 0.999959 |
| | | Current | 150.127800 | 89.227000 | 0.999967 |
| | C _i vs C _c | Current | 1.000000 | 0.000002 | 0.999967 |

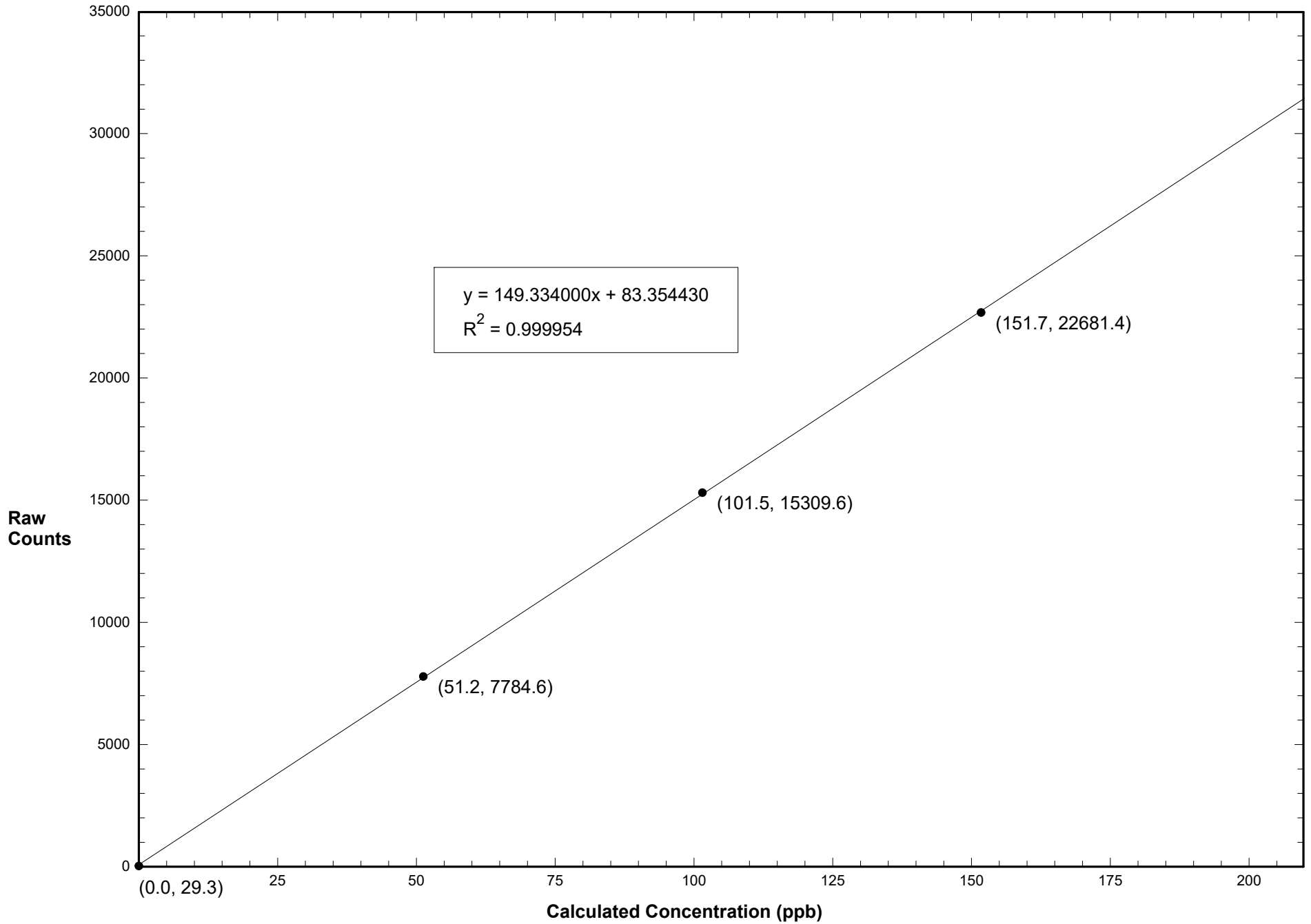
Comments:

Calibration Data Summary (Page 2)

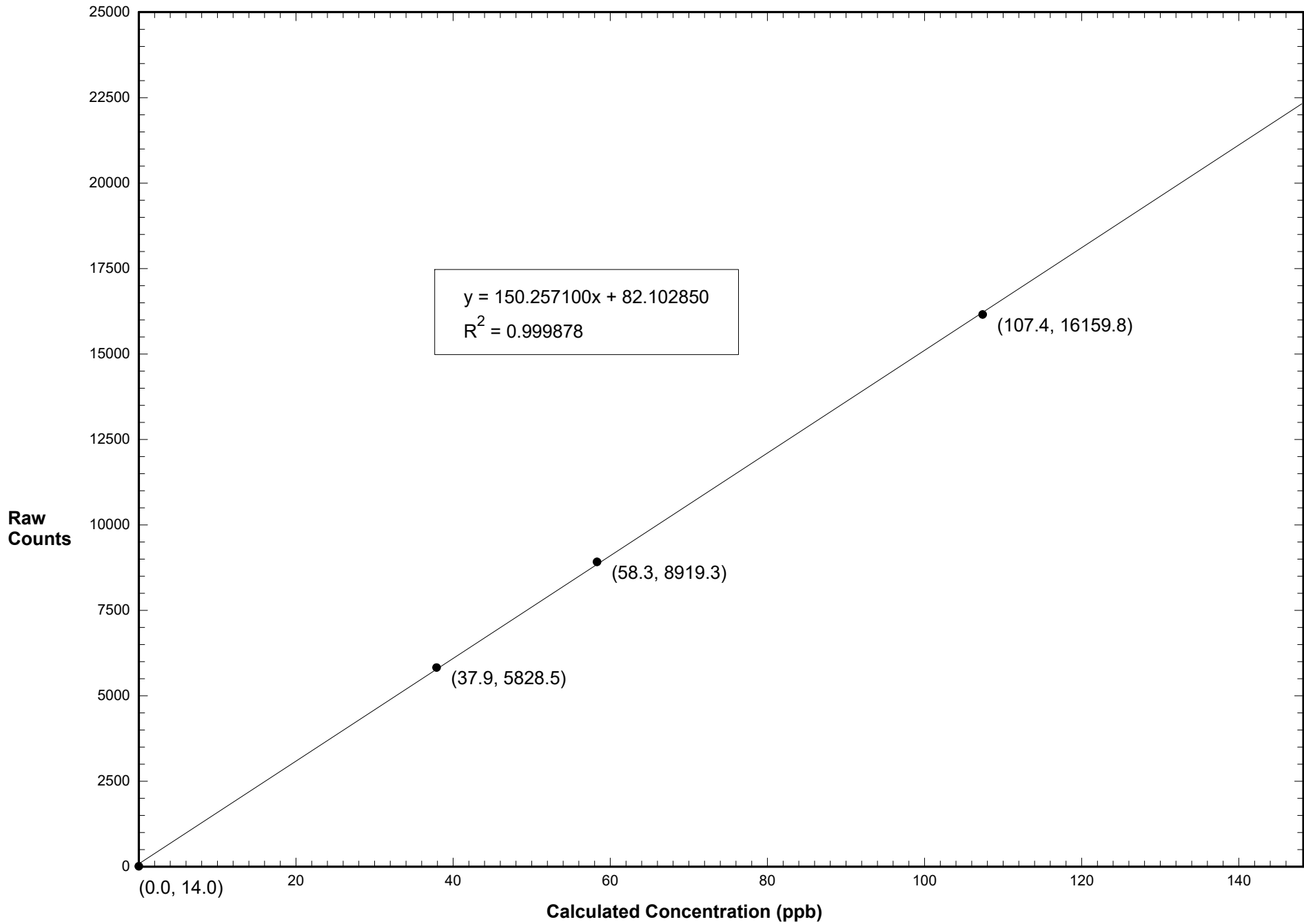
December 12, 2015 - Station 906

| 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 | | |
|-------------------------------------|------------------------------|-----------------------------------------------|-----------------------------------------------------------------|----------------------------------------------|--------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|
| 0.07474 | 6.132 | 151.7 | 22681.4 | 151.3 | 1.003 | | |
| 0.04978 | 6.128 | 101.5 | 15309.6 | 102.0 | 0.996 | | |
| 0.02492 | 6.103 | 51.2 | 7784.6 | 51.6 | 0.994 | | |
| 0.00000 | 6.000 | 0.0 | 29.3 | -0.4 | | | |
| NO Calibration | | | | | Average Correction Factor: | 0.997 | |
| 0.07474 | 6.132 | 151.7 | 22816.2 | 151.4 | 1.002 | | |
| 0.04978 | 6.128 | 101.5 | 15388.6 | 101.9 | 0.996 | | |
| 0.02492 | 6.103 | 51.2 | 7820.8 | 51.5 | 0.995 | | |
| 0.00000 | 6.000 | 0.0 | 44.5 | -0.3 | | | |
| NO _x Calibration | | | | | Average Correction Factor: | 0.998 | |
| 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 |
| 153.0 | 6898.6 | 45.6 | 107.4 | 16159.8 | 107.0 | 1.004 | 0.996 |
| 153.0 | 14227.6 | 94.7 | 58.3 | 8919.3 | 58.8 | 0.992 | 1.009 |
| 153.0 | 17277.3 | 115.1 | 37.9 | 5828.5 | 38.2 | 0.991 | 1.009 |
| | | | 0.0 | 14.0 | -0.5 | | |
| | | | | | | Average Correction Factor: | 0.995 |
| NO ₂ Gas Phase Titration | | | | | | Average Converter Efficiency: | 1.005 |
| Parameter | Correction Factor (Previous) | Correction Factor: (Current) | Percent Change of Correction Factor | | | | |
| NO | 1.003 | 1.003 | 0.0 | | | | |
| NO ₂ | 0.992 | 1.004 | 1.2 | | | | |
| NO _x | 1.002 | 1.002 | 0.0 | | | | |

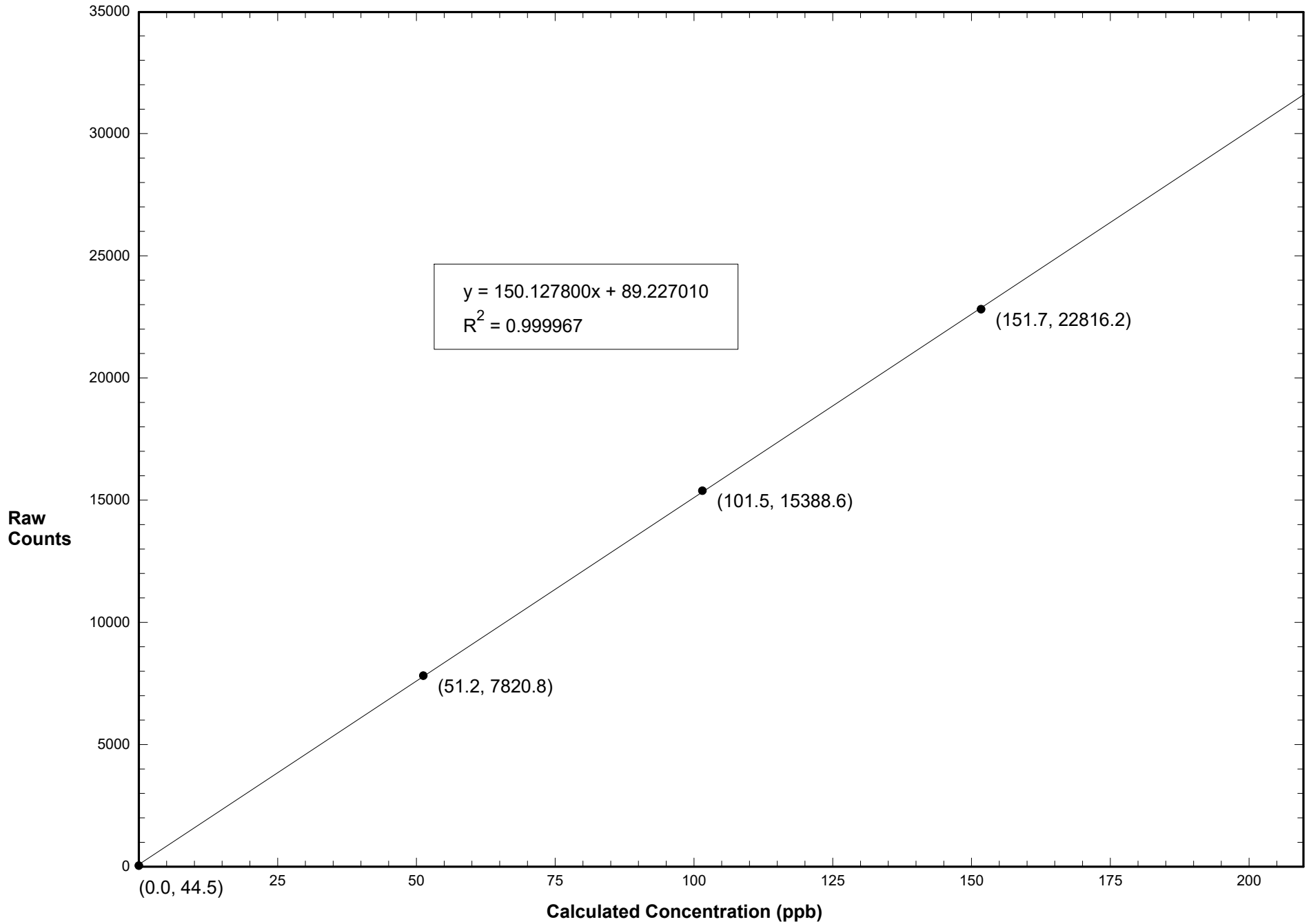
Station 906 NO December 12, 2015: Linear Regression



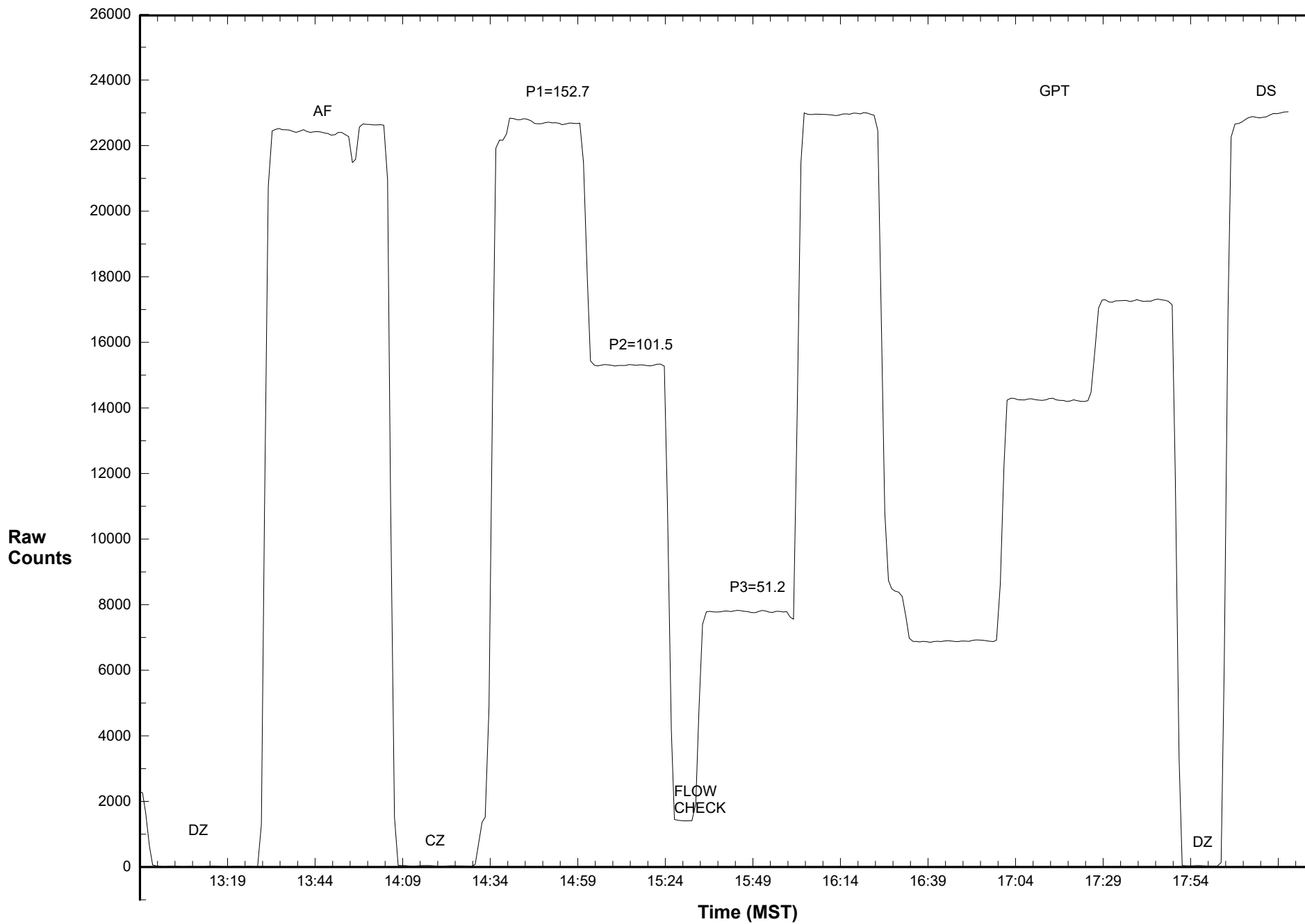
Station 906 NO2 December 12, 2015: Linear Regression



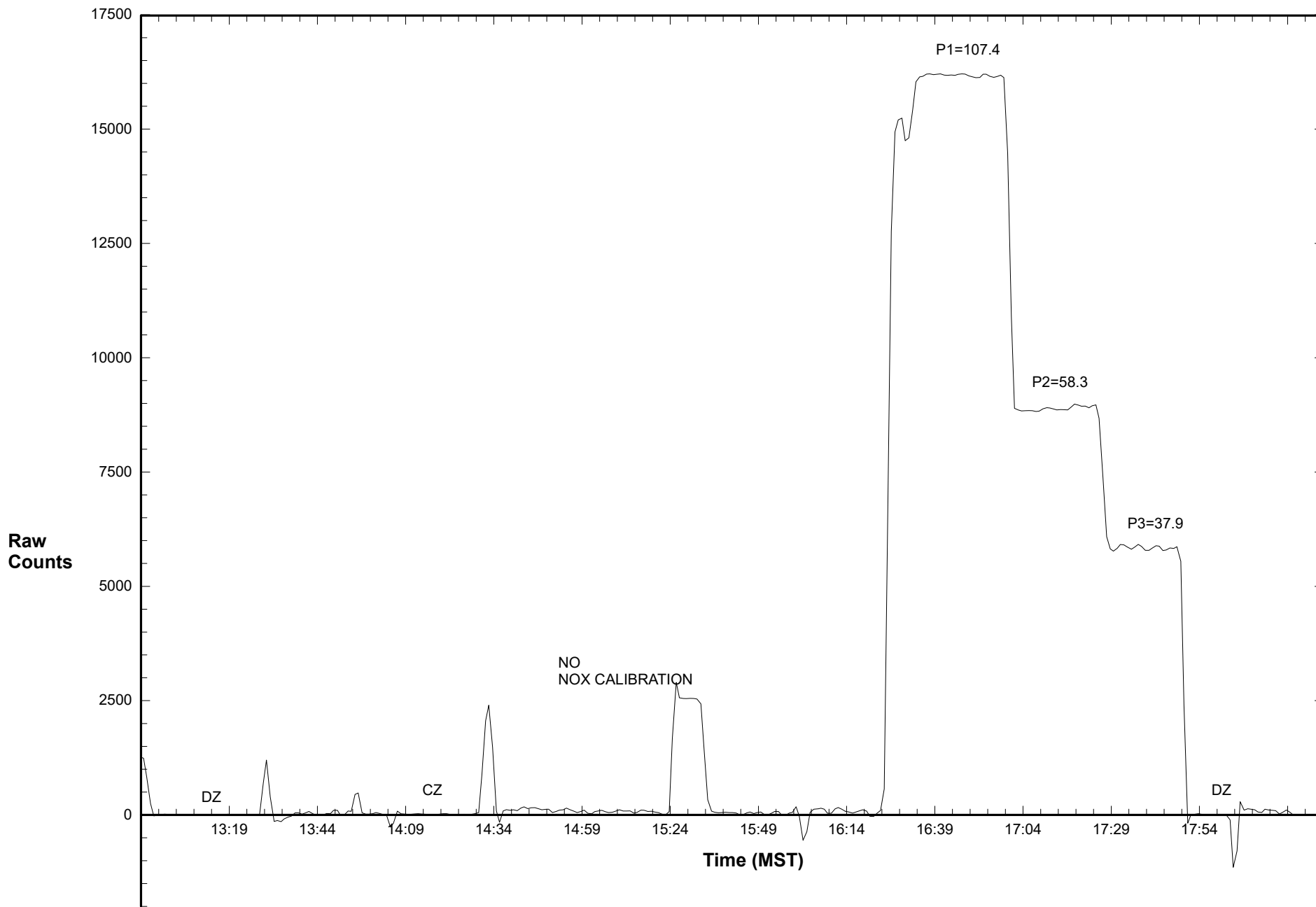
Station 906 NOX December 12, 2015: Linear Regression



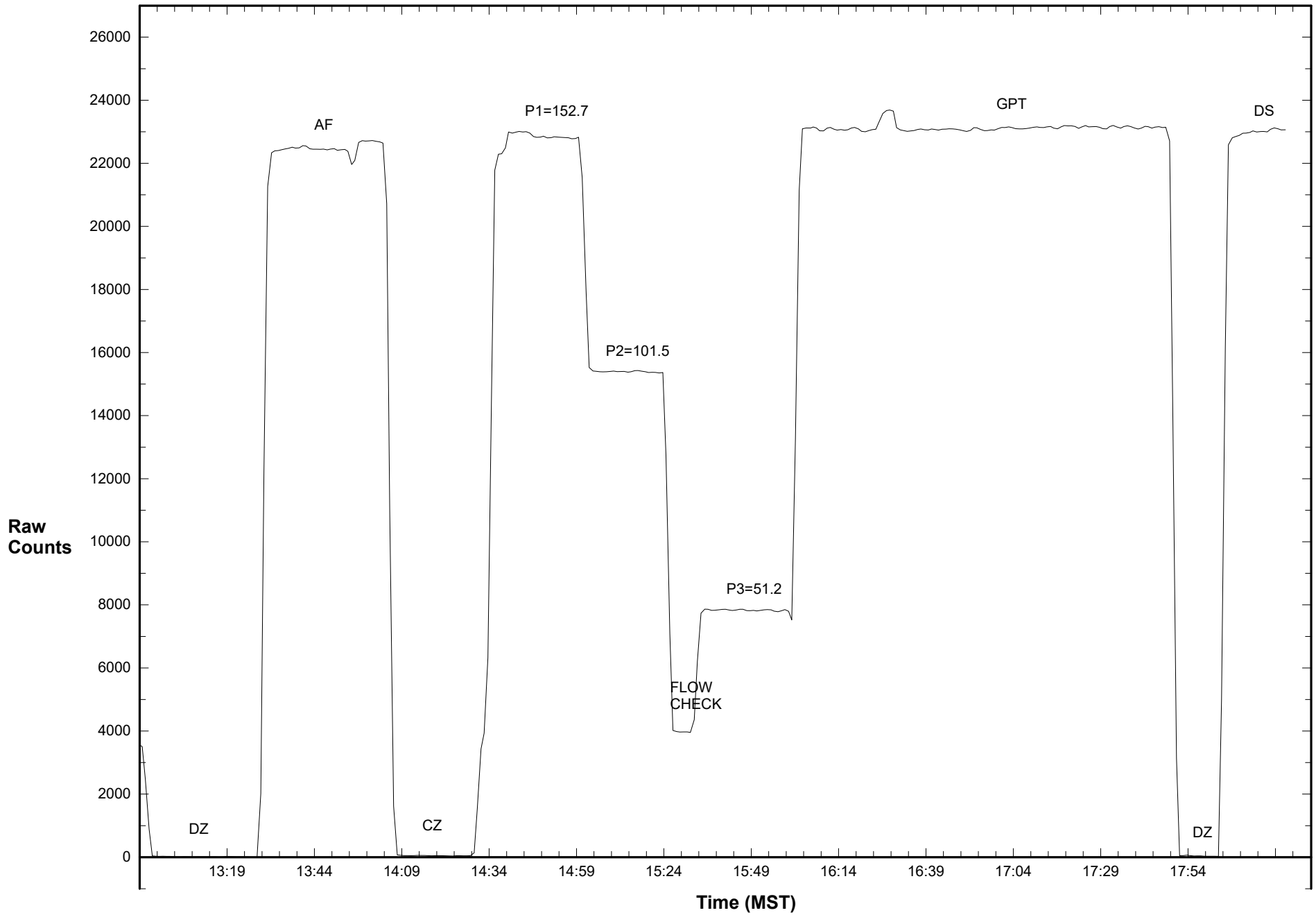
Station 906 NO December 12, 2015: Calibration Graph



Station 906 NO2 December 12, 2015: Calibration Graph



Station 906 NOX December 12, 2015: Calibration Graph



Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 906, Hinton

Calibration Date: December 12, 2015

Parameter: O₃

Instrument: Teco 49i

Serial Number: 1150790050

Previous Calibration Date: November 26, 2015

Calibration: Routine

Calibration Equipment: 2B Tech Model 306 SN142

Barometric Pressure: 26.30" Hg

Calibration Method: Certified Ozone Generator

Temperature: 22.4° C

Technician: L. Burns

| Instrument Settings | Background | Coefficient | Monitoring Range |
|---------------------|------------|-------------|------------------|
| Previous | -0.4 | 1.016 | 500 ppb |
| Current | -0.4 | 1.043 | 500 ppb |

Final Zero: -1.5 ppb

Final Span: 369.8 ppb

As Found Correction Factor: 1.018

| 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 | 399.0 | 24006.3 | 398.0 | 1.003 |
| 3.000 | 214.0 | 13026.2 | 215.3 | 0.994 |
| 3.000 | 105.0 | 6465.4 | 106.1 | 0.989 |
| 3.000 | 0.0 | 0.8 | -1.4 | |

Results of Linear Regression

| R _c vs C _c | Slope | Intercept | R ² |
|----------------------------------|-----------|-----------|----------------|
| Previous | 59.891640 | -7.951775 | 0.999988 |
| Current | 60.097680 | 87.142150 | 0.999931 |
| C _i vs C _c | | | |
| Current | 1.000000 | 0.000000 | 0.999931 |

Average Correction Factor: 0.995

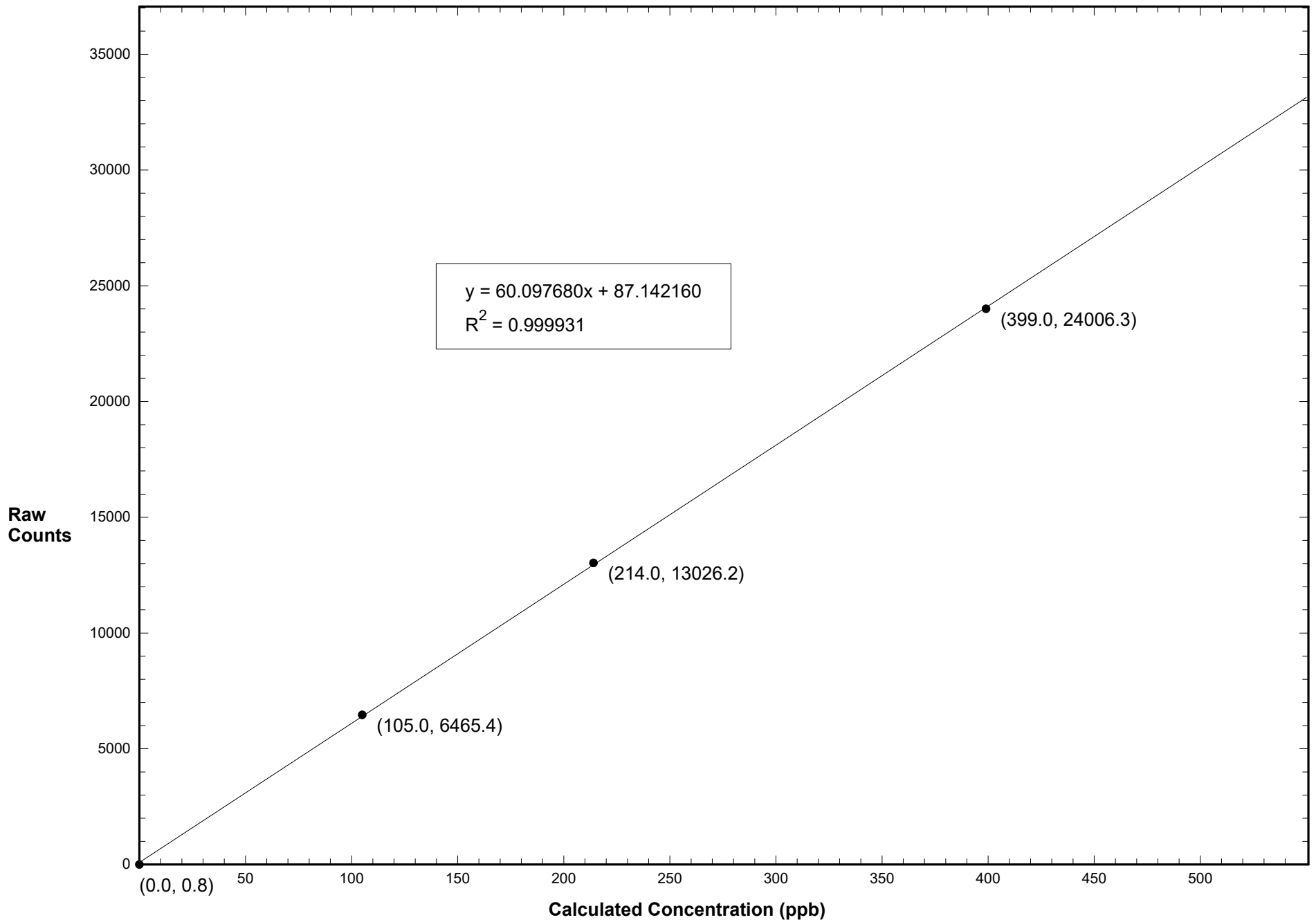
Previous Correction Factor: 0.999

Current Correction Factor: 1.003

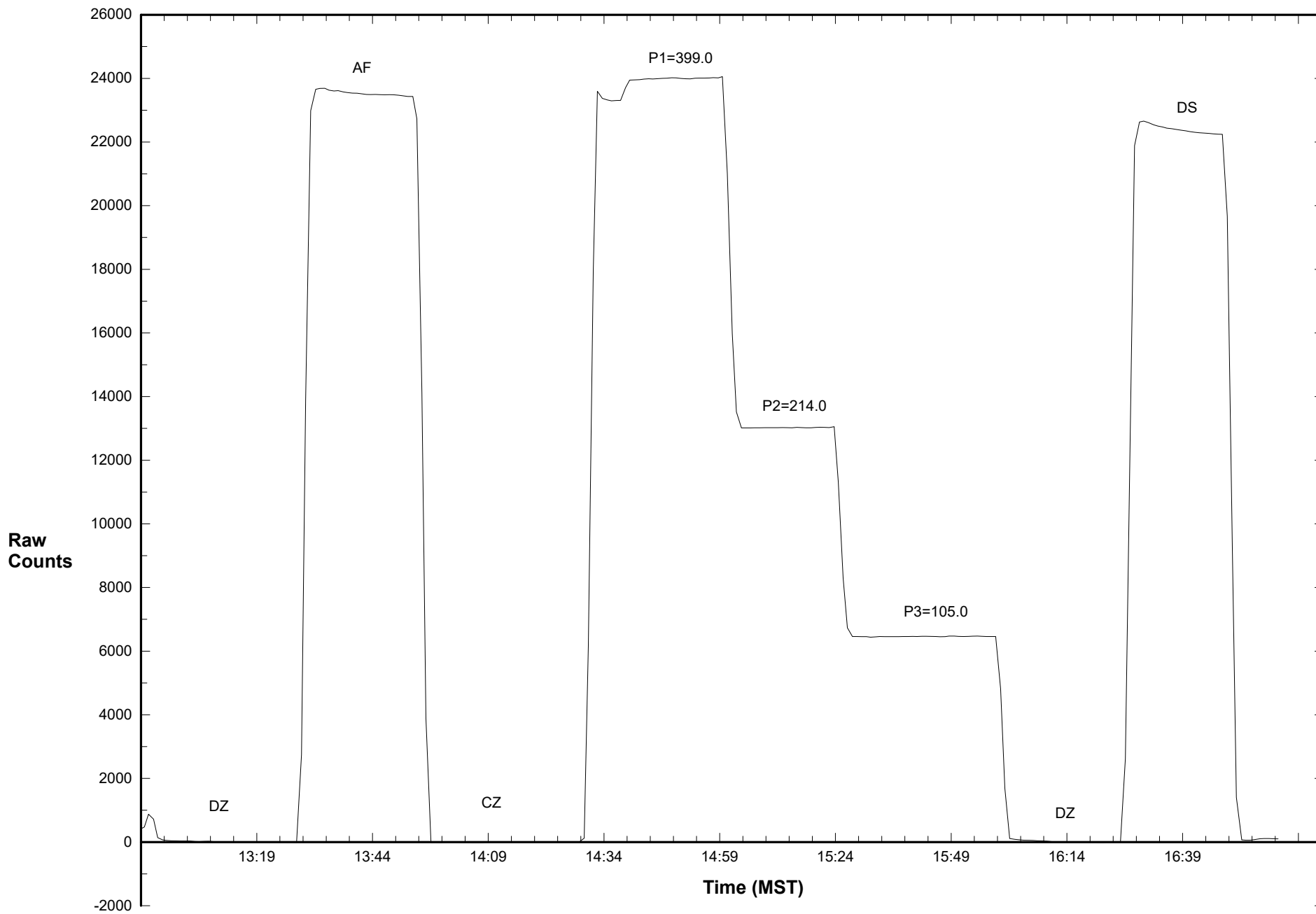
Percent Change of Correction Factor: 0.4

Comments:

Station 906 O3 December 12, 2015: Linear Regression



Station 906 O3 December 12, 2015: Calibration Graph



Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 906, Hinton
 Calibration Date: December 12, 2015
 Parameter: SO₂

| | | |
|--------------------------------------------------|-----------------------------------------------|----------------------------------------------|
| Instrument: TECO 43i | Serial Number: CM12499009 | Previous Calibration Date: November 26, 2015 |
| Calibration: Routine | Calibration Equipment: Sabio 2010 SN 08600312 | Barometric Pressure: 26.30" Hg |
| Calibration Method: Standard Gas Dilution | Cylinder ID: FF14354 | Temperature: 22.4° C |
| Cylinder Concentration: 6.34 ppm SO ₂ | In Service: January 14, 2015 | Technician: L. Burns |

| Instrument Settings | SO ₂ bkg ppb | SO ₂ Coefficient | Monitoring Range |
|---------------------|-------------------------|-----------------------------|------------------|
| Previous | 25.4 | 0.982 | 100 ppb |
| Current | 26.3 | 1.001 | 100 ppb |

Final Zero: -0.3 ppm Final Span: 67.0 ppm As Found Correction Factor: 1.032

| SO ₂ Flow Rate (LPM) | Dilution Flow Rate (LPM) | Calculated Concentration C _c (ppm) | Raw Count Output R _c | Indicated Concentration C _i (ppm) | Correction Factor C _c /C _i |
|---------------------------------|--------------------------|-----------------------------------------------|---------------------------------|----------------------------------------------|--------------------------------------------------|
| 0.0747 | 6.132 | 76.3 | 22942.5 | 76.2 | 1.002 |
| 0.0498 | 6.128 | 51.1 | 15471.5 | 51.3 | 0.995 |
| 0.0249 | 6.103 | 25.8 | 7792.2 | 25.8 | 1.001 |
| 0.0000 | 6.000 | 0.0 | 32.7 | -0.1 | |

| Results of Linear Regression | | | |
|----------------------------------|------------|-----------|----------------|
| R _c vs C _c | Slope | Intercept | R ² |
| Previous | 301.841300 | 4.787711 | 0.999984 |
| Current | 300.424700 | 52.387810 | 0.999974 |
| C _i vs C _c | | | |
| Current | 1.000000 | 0.000012 | 0.999974 |

Average Correction Factor: 0.999

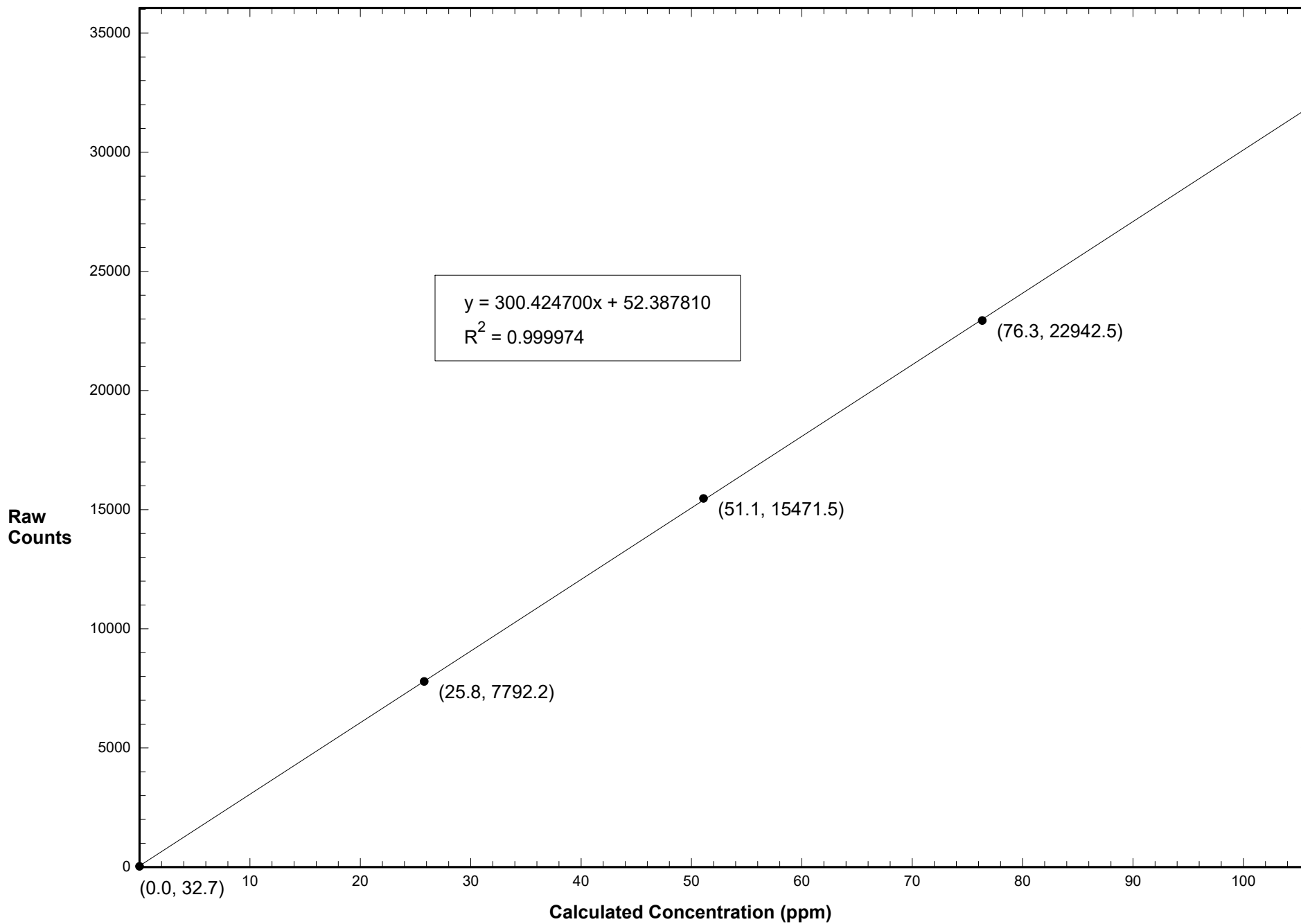
Previous Correction Factor: 1.001

Current Correction Factor: 1.002

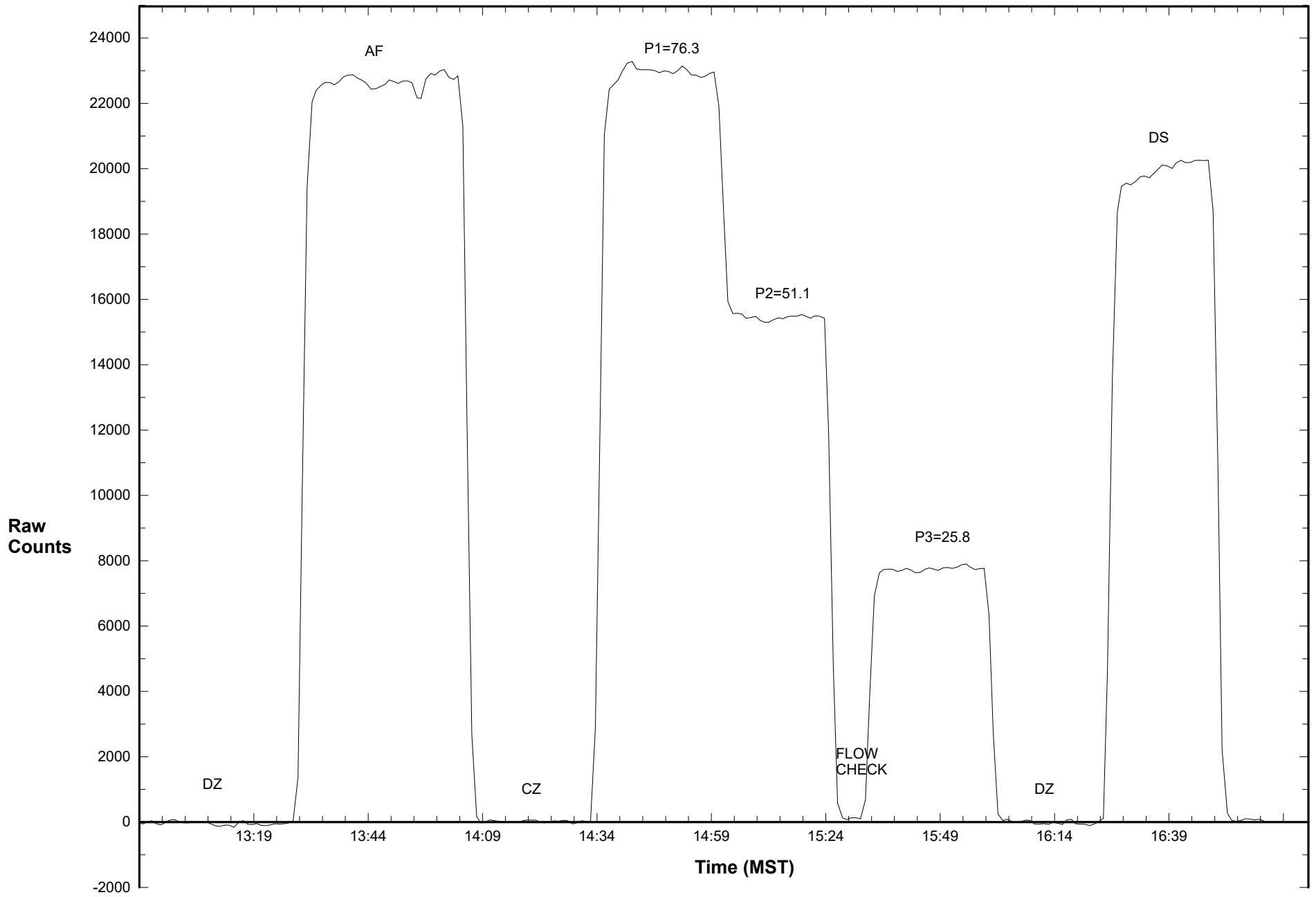
Percent Change of Correction Factor: 0.1

Comments:

Station 906 SO2 December 12, 2015: Linear Regression



Station 906 SO2 December 12, 2015: Calibration Graph



Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 906, Hinton

Calibration Date: December 12, 2015

Parameter: TRS

Instrument: Teco 43C

Serial Number: 43CTL-60324-326

Previous Calibration Date: November 26, 2015

Calibration: Routine

Calibration Equipment: Sabio 2010 SN 08600312

Barometric Pressure: 26.30" Hg

Calibration Method: Standard Gas Dilution

Permeation Device ID: SV14360, 4.89 ppm H₂S

Temperature: 22.4° C

Permeation Rate: 0 ng/min

In Service: February 5, 2013

Technician: L. Burns

| Instrument Settings | H ₂ S bkg ppb | H ₂ S Coefficient | Monitoring Range |
|---------------------|--------------------------|------------------------------|------------------|
| Previous | 1.84 | 0.798 | 100 ppb |
| Current | 1.89 | 0.795 | 100 ppb |

Final Zero: 0.0 ppb

Final Span: 69.9 ppb

As Found Correction Factor: 1.001

| 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 |
|------------------------------------|-----------------------------------------------|---------------------------------|----------------------------------------------|--------------------------------------------------|
| 0.091 | 71.7 | 21619.0 | 71.6 | 1.001 |
| 0.061 | 48.3 | 14588.0 | 48.3 | 0.998 |
| 0.030 | 24.3 | 7303.3 | 24.2 | 1.002 |
| 0.000 | 0.0 | -15.0 | 0.0 | |

Results of Linear Regression

| R _c vs C _c | Slope | Intercept | R ² |
|----------------------------------|------------|------------|----------------|
| Previous | 300.697100 | -27.391350 | 0.999998 |
| Current | 302.040600 | -15.349540 | 0.999995 |
| C _i vs C _c | | | |
| Current | 1.000000 | 0.000000 | 0.999995 |

Average Correction Factor: 1.000

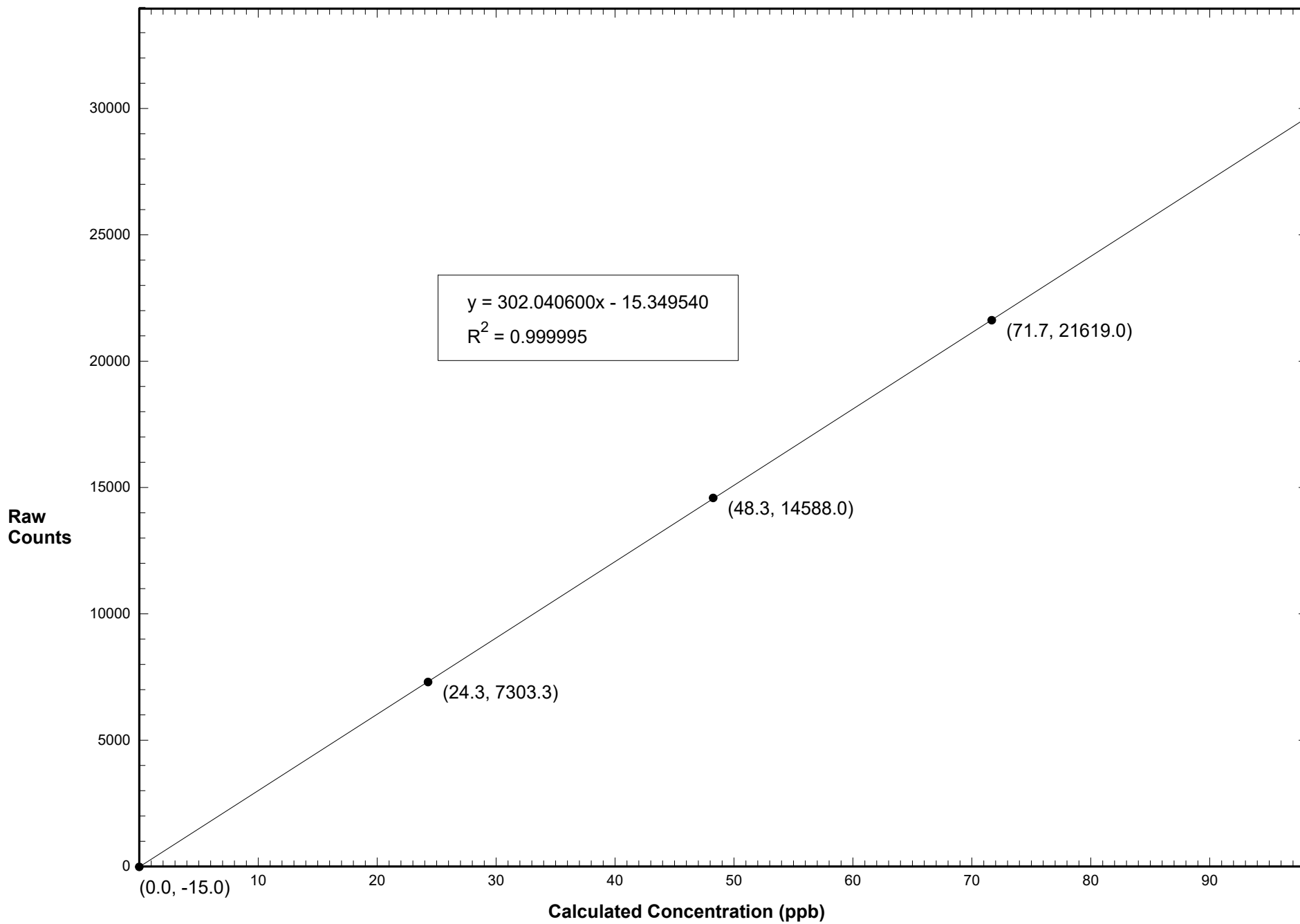
Previous Correction Factor: 1.000

Current Correction Factor: 1.001

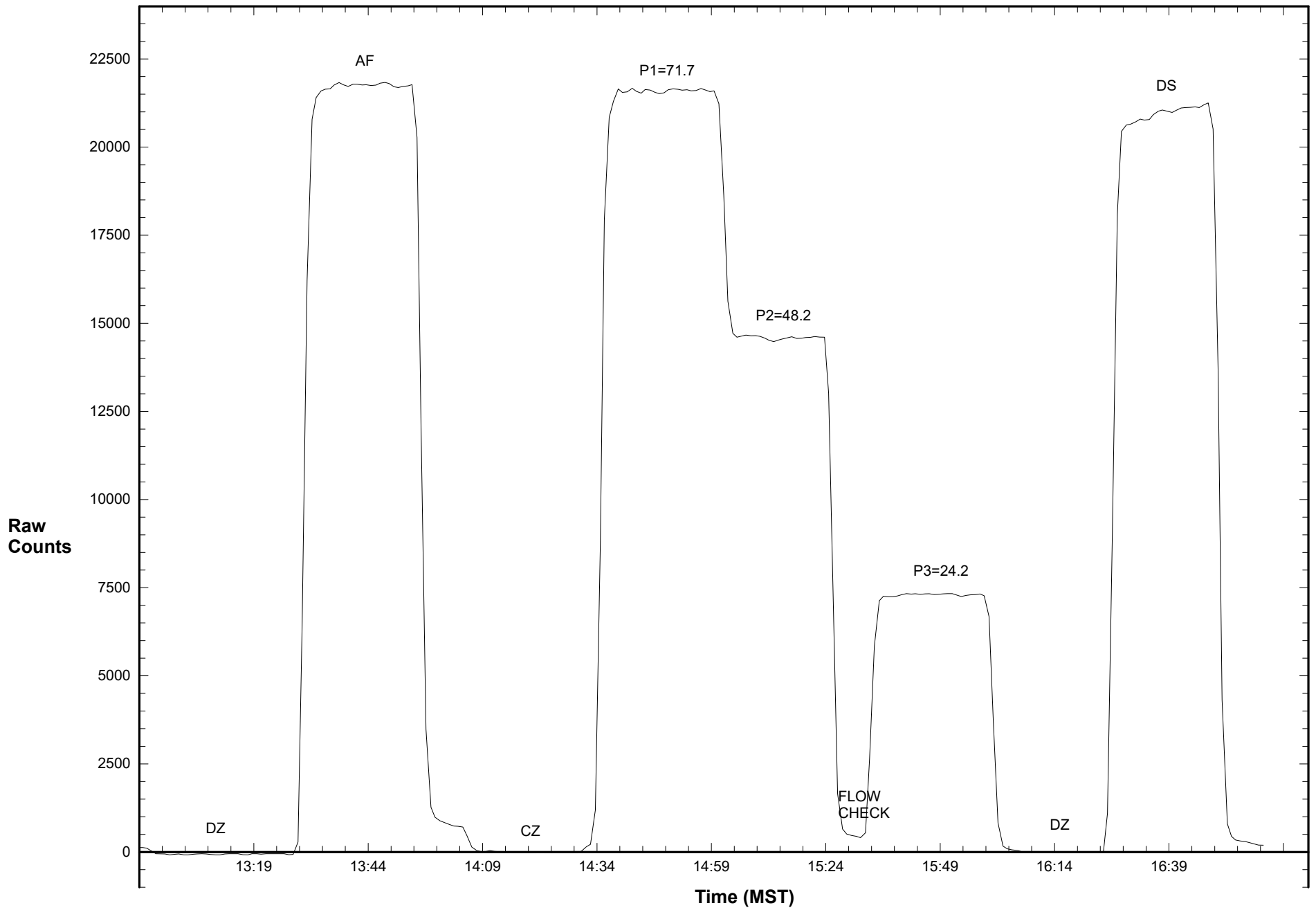
Percent Change of Correction Factor: 0.1

Comments:

Station 906 TRS December 12, 2015: Linear Regression



Station 906 TRS December 12, 2015: Calibration Graph



WEST CENTRAL AIRSHED SOCIETY

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

**AMS 906
HINTON
DECEMBER 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 - Hinton
Summary of Hourly Averages

External Temperature (ET) - C
December 2015

| Maximum Value: 8.64 C on Dec 7 14:00 | | Maximum Daily Average: 5.12 C on Dec 6 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|---------------|---------------|
| Minimum Value: -26.8 C on Dec 26 07:00 | | Minimum Daily Average: -17.55 C on Dec 26 | | Hours of Data: 744 | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: -2.77 C at hour 15 | | Minimum Diurnal Average: -9.01 C at hour 9 | | Hours of Missing Data: 0 | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: -7.124 C | | Percentiles: P ₁ = -25.1 P ₁₀ = -17.6 Q ₁ = -13.4 Median = -6.7 Q ₃ = -2.0 P ₉₀ = 4.2 P ₉₉ = 7.9 | | 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-Dec | -13.9 | -14.2 | -14.0 | -9.3 | -8.9 | -8.6 | -9.9 | -10.8 | -10.5 | -3.8 | -3.9 | 0.5 | 2.9 | 4.6 | 6.2 | 5.8 | 4.1 | 3.4 | 3.0 | 3.7 | 4.0 | 4.3 | 4.6 | 3.4 | -2.39 | 6.21 |
| 2-Dec | 0.1 | -2.4 | -3.6 | -2.3 | 3.3 | 4.2 | 4.7 | 5.0 | 4.9 | 5.0 | 5.7 | 6.0 | 6.5 | 6.6 | 6.6 | 6.0 | 5.3 | 4.2 | 4.4 | 4.8 | 3.7 | 3.2 | 0.7 | 1.4 | 3.50 | 6.62 |
| 3-Dec | -0.7 | -2.2 | -2.2 | -2.1 | 1.3 | 4.0 | 3.3 | -0.9 | -2.3 | -2.7 | -1.9 | 0.6 | 3.4 | 6.4 | 8.4 | 8.0 | 4.4 | 0.7 | -1.4 | -2.3 | -2.5 | -3.1 | -2.8 | -3.0 | 0.44 | 8.39 |
| 4-Dec | -2.0 | -0.3 | 5.2 | 6.6 | 6.6 | 6.6 | 5.8 | 4.6 | 5.7 | 5.3 | 5.9 | 6.6 | 6.5 | 6.2 | 6.0 | 4.9 | 4.1 | 4.1 | 3.5 | 4.0 | 3.9 | 4.1 | 4.1 | 3.6 | 4.64 | 6.63 |
| 5-Dec | 3.4 | 3.7 | 3.7 | 3.7 | 3.4 | 3.2 | 2.7 | 3.1 | 3.7 | 4.1 | 4.7 | 3.7 | 4.3 | 4.5 | 5.8 | 5.4 | 4.9 | 4.8 | 3.7 | 3.5 | 3.7 | 3.6 | 3.4 | 3.2 | 3.92 | 5.79 |
| 6-Dec | 3.5 | 3.9 | 3.5 | 3.4 | 4.1 | 4.2 | 4.4 | 5.2 | 4.4 | 4.3 | 4.2 | 4.9 | 5.5 | 6.5 | 8.1 | 7.0 | 6.3 | 6.0 | 5.6 | 6.2 | 5.8 | 5.6 | 5.5 | 4.8 | 5.12 | 8.13 |
| 7-Dec | 4.4 | 5.0 | 1.9 | 0.5 | -1.0 | 2.2 | 6.9 | 6.6 | 6.9 | 7.2 | 7.6 | 7.9 | 8.5 | 8.6 | 8.6 | 7.0 | 6.3 | 5.1 | 3.4 | 0.1 | -1.4 | -1.6 | -2.0 | -2.1 | 4.02 | 8.64 |
| 8-Dec | -2.5 | -3.0 | -3.9 | -5.1 | -6.0 | -6.6 | -6.4 | -6.1 | -5.4 | -4.5 | -4.1 | -3.5 | -2.7 | -1.5 | -0.8 | -0.6 | -1.6 | -2.9 | -3.6 | -4.1 | -4.7 | -4.2 | -3.1 | -3.0 | -3.75 | -0.64 |
| 9-Dec | -3.8 | -4.1 | -4.8 | -4.8 | -5.9 | -6.3 | -6.1 | -6.2 | -6.0 | -5.6 | -5.0 | -4.2 | -3.6 | -3.1 | -2.7 | -2.1 | -2.3 | -3.0 | -3.5 | -3.5 | -3.3 | -3.7 | -4.0 | -4.2 | -4.25 | -2.11 |
| 10-Dec | -4.5 | -5.1 | -6.1 | -7.0 | -7.3 | -8.6 | -9.1 | -9.3 | -9.6 | -9.6 | -9.4 | -8.7 | -7.6 | -5.7 | -5.0 | -4.8 | -4.9 | -4.7 | -5.2 | -5.4 | -4.6 | -4.6 | -4.8 | -5.4 | -6.54 | -4.48 |
| 11-Dec | -5.9 | -6.4 | -6.7 | -6.7 | -6.5 | -6.2 | -6.3 | -6.3 | -6.3 | -6.5 | -6.1 | -5.3 | -4.5 | -4.1 | -3.7 | -3.7 | -4.1 | -4.7 | -4.9 | -5.4 | -6.1 | -7.5 | -8.3 | -8.4 | -5.86 | -3.71 |
| 12-Dec | -8.1 | -8.5 | -9.0 | -9.8 | -10.5 | -11.5 | -12.6 | -13.0 | -13.4 | -13.9 | -13.3 | -11.2 | -9.3 | -7.5 | -6.3 | -6.5 | -8.6 | -10.1 | -10.7 | -11.3 | -11.3 | -9.9 | -8.6 | -8.0 | -10.11 | -6.31 |
| 13-Dec | -8.2 | -7.6 | -7.7 | -7.6 | -7.9 | -8.1 | -7.9 | -8.0 | -7.8 | -7.8 | -7.4 | -6.7 | -6.7 | -6.6 | -6.2 | -6.1 | -6.3 | -6.7 | -6.6 | -6.9 | -6.9 | -7.0 | -7.2 | -7.3 | -7.21 | -6.08 |
| 14-Dec | -7.2 | -7.4 | -7.4 | -7.7 | -9.3 | -10.5 | -11.5 | -12.5 | -13.2 | -13.2 | -11.6 | -8.9 | -6.4 | -5.3 | -4.3 | -4.1 | -7.7 | -10.2 | -11.9 | -13.3 | -14.6 | -15.5 | -16.0 | -16.4 | -10.25 | -4.09 |
| 15-Dec | -15.7 | -12.2 | -4.4 | -3.5 | -2.2 | -2.6 | -2.2 | -2.9 | -3.1 | -3.4 | -2.1 | -1.9 | -0.8 | 0.4 | 0.7 | 0.1 | -1.6 | -3.1 | -4.1 | -4.9 | -5.0 | -4.0 | -3.7 | -4.0 | -3.59 | 0.69 |
| 16-Dec | -5.3 | -6.1 | -6.5 | -6.7 | -7.9 | -8.6 | -9.1 | -9.0 | -7.7 | -8.1 | -8.1 | -5.5 | -4.6 | -3.6 | -3.7 | -3.5 | -3.9 | -4.9 | -6.6 | -9.4 | -11.6 | -13.6 | -14.8 | -15.7 | -7.68 | -3.48 |
| 17-Dec | -16.2 | -17.0 | -17.5 | -18.6 | -19.5 | -20.0 | -20.3 | -20.8 | -20.7 | -20.2 | -17.3 | -13.3 | -9.8 | -8.3 | -9.1 | -10.6 | -13.3 | -15.6 | -16.7 | -17.7 | -18.6 | -19.1 | -19.0 | -19.5 | -16.62 | -8.34 |
| 18-Dec | -19.4 | -19.1 | -18.1 | -16.6 | -16.2 | -16.3 | -16.5 | -17.0 | -17.4 | -17.6 | -17.8 | -17.4 | -15.5 | -14.3 | -13.3 | -13.2 | -14.5 | -15.3 | -15.5 | -15.5 | -15.6 | -15.9 | -16.3 | -16.5 | -16.28 | -13.18 |
| 19-Dec | -16.6 | -16.5 | -16.6 | -16.4 | -16.0 | -16.2 | -16.8 | -17.2 | -17.6 | -17.8 | -16.7 | -15.3 | -12.5 | -10.3 | -9.4 | -8.8 | -9.8 | -10.7 | -11.8 | -11.9 | -12.1 | -12.4 | -12.8 | -12.8 | -13.96 | -8.83 |
| 20-Dec | -12.6 | -12.5 | -11.4 | -1.7 | -1.4 | 0.2 | 0.7 | 0.5 | 0.3 | -0.7 | -1.0 | 1.1 | 2.1 | 2.2 | 1.8 | 0.6 | -0.8 | -0.1 | -0.2 | -0.5 | -2.1 | -2.1 | -1.1 | -1.5 | -1.67 | 2.25 |
| 21-Dec | -1.1 | -1.2 | -1.6 | -0.9 | -0.5 | -1.6 | -3.0 | -7.2 | -10.1 | -11.6 | -9.8 | -7.1 | -4.3 | -2.0 | 0.5 | -0.7 | -2.9 | -5.1 | -8.3 | -10.4 | -12.2 | -13.6 | -14.6 | -15.5 | -6.03 | 0.54 |
| 22-Dec | -16.4 | -16.6 | -17.0 | -17.2 | -17.6 | -17.8 | -18.4 | -18.1 | -18.5 | -18.9 | -17.5 | -15.0 | -12.2 | -8.2 | -6.5 | -7.1 | -9.2 | -9.9 | -10.7 | -11.5 | -12.1 | -12.8 | -13.1 | -13.2 | -13.97 | -6.46 |
| 23-Dec | -13.6 | -14.3 | -15.1 | -16.1 | -16.7 | -17.5 | -17.4 | -17.6 | -18.1 | -18.6 | -16.7 | -15.6 | -11.3 | -8.7 | -7.2 | -7.6 | -11.4 | -14.5 | -16.3 | -17.2 | -17.6 | -17.8 | -17.5 | -16.8 | -15.05 | -7.21 |
| 24-Dec | -16.2 | -15.7 | -15.0 | -14.5 | -14.3 | -14.0 | -13.8 | -13.8 | -13.7 | -13.7 | -13.4 | -12.6 | -11.8 | -11.3 | -11.1 | -11.2 | -11.7 | -12.3 | -12.6 | -12.7 | -13.2 | -13.2 | -13.3 | -13.2 | -13.29 | -11.09 |
| 25-Dec | -13.5 | -13.4 | -13.2 | -13.3 | -15.4 | -18.1 | -19.1 | -18.4 | -17.8 | -16.5 | -15.1 | -14.7 | -14.0 | -13.0 | -11.9 | -11.7 | -13.8 | -16.4 | -18.7 | -20.2 | -20.8 | -21.8 | -22.4 | -22.9 | -16.50 | -11.69 |
| 26-Dec | -23.5 | -24.2 | -25.0 | -26.0 | -26.5 | -26.8 | -26.8 | -26.6 | -26.6 | -25.9 | -24.1 | -22.0 | -19.9 | -17.7 | -16.0 | -14.7 | -13.9 | -12.6 | -4.3 | -3.9 | -4.2 | -4.1 | -3.3 | -2.7 | -17.55 | -2.65 |
| 27-Dec | -2.4 | -2.0 | -2.1 | -2.3 | -2.8 | -2.9 | -2.4 | -2.4 | -2.8 | -3.3 | -3.0 | -2.3 | -1.8 | -1.2 | -1.0 | -1.3 | -1.5 | -2.0 | -2.6 | -3.0 | -4.0 | -4.7 | -4.9 | -5.6 | -2.67 | -1.00 |
| 28-Dec | -6.2 | -4.5 | -5.7 | -8.1 | -8.7 | -8.9 | -8.1 | -7.7 | -7.9 | -9.9 | -9.1 | -4.9 | -3.4 | -2.8 | -1.7 | -2.3 | -5.3 | -7.1 | -10.4 | -12.6 | -14.0 | -15.0 | -15.5 | -16.8 | -8.19 | -1.73 |
| 29-Dec | -17.5 | -18.2 | -19.0 | -19.5 | -20.1 | -20.5 | -21.0 | -21.2 | -21.2 | -21.3 | -18.0 | -13.6 | -9.9 | -8.5 | -7.9 | -7.9 | -9.2 | -10.8 | -14.1 | -16.2 | -18.0 | -19.2 | -20.1 | -20.6 | -16.39 | -7.93 |
| 30-Dec | -20.9 | -20.2 | -20.1 | -19.3 | -19.1 | -17.6 | -17.3 | -18.5 | -18.7 | -18.5 | -15.3 | -12.2 | -10.1 | -8.7 | -7.8 | -7.7 | -9.1 | -10.1 | -12.7 | -13.7 | -14.9 | -16.0 | -16.3 | -16.1 | -15.04 | -7.67 |
| 31-Dec | -13.8 | -12.6 | -12.7 | -13.5 | -11.6 | -9.7 | -10.0 | -9.9 | -8.9 | -8.8 | -7.5 | -6.1 | -5.1 | -3.9 | -2.9 | -2.9 | -3.7 | -4.0 | -4.7 | -4.9 | -5.1 | -7.0 | -7.0 | -7.6 | -7.66 | -2.89 |
| | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Average | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Maximum | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Hinton
Summary of Hourly Averages

Wind Speed (WS) - kph
December 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 | 1.9 | 1.3 | 0.8 | 1.7 | 1.6 | 0.9 | 0.9 | 1.2 | 0.9 | 5.5 | 3.3 | 5.6 | 11.5 | 8.9 | 10.2 | 8.3 | 7.3 | 7.1 | 6.7 | 7.3 | 8.4 | 10.2 | 4.5 | 2.3 | 4.59 | 11.52 | |
| Dir | W | W | S | WSW | WSW | W | WSW | E | SSW | WSW | WNW | W | SW | SW | WSW | WSW | WSW | SW | WSW | WSW | SW | SSW | SW | SW | SW | SW | |
| 2 Spd | 0.6 | 0.9 | 1.3 | 3.1 | 5.8 | 7.1 | 7.1 | 7.3 | 9.0 | 12.8 | 15.3 | 17.4 | 14.2 | 13.9 | 17.6 | 14.5 | 9.5 | 3.9 | 7.5 | 12.5 | 8.9 | 7.4 | 4.7 | 7.3 | 7.94 | 17.61 | |
| Dir | S | SE | SE | SW | WSW | WNW | W | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | W | SW | SW | SW | SSW | SE | SSW | WSW | WSW | |
| 3 Spd | 0.9 | 1.8 | 3.3 | 4.4 | 2.5 | 6.1 | 7.0 | 3.4 | 3.1 | 0.1 | 1.3 | 3.2 | 2.4 | 3.8 | 2.6 | 5.9 | 1.5 | 2.2 | 1.7 | 3.1 | 2.4 | 2.2 | 2.2 | 4.9 | 1.38 | 7.03 | |
| Dir | SSE | SSE | ENE | ENE | SSW | SW | SW | ENE | ENE | NE | E | ENE | ENE | ENE | SSW | SSW | ESE | E | E | ENE | ENE | E | ESE | ENE | ESE | SSW | |
| 4 Spd | 3.4 | 0.8 | 5.3 | 9.6 | 8.3 | 6.7 | 3.1 | 2.5 | 6.8 | 4.8 | 11.4 | 13.5 | 13.4 | 10.1 | 12.3 | 9.7 | 7.0 | 8.7 | 5.9 | 11.3 | 10.4 | 11.6 | 11.0 | 9.2 | 7.78 | 13.50 | |
| Dir | ENE | W | WSW | WSW | W | WNW | W | W | SW | WSW | WSW | SW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | SW | |
| 5 Spd | 8.8 | 10.5 | 12.3 | 13.1 | 9.0 | 6.7 | 4.3 | 4.2 | 5.0 | 7.1 | 7.3 | 2.6 | 6.1 | 3.3 | 8.3 | 4.4 | 8.3 | 6.8 | 3.5 | 4.9 | 7.3 | 6.7 | 4.9 | 7.3 | 5.73 | 13.08 | |
| Dir | WSW | WSW | WSW | WSW | WSW | WSW | W | W | WSW | SW | WSW | SE | SSE | SSE | SW | S | SE | SW | SW | SSE | SSW | S | SW | SSW | SW | WSW | |
| 6 Spd | 3.1 | 13.1 | 15.3 | 0.6 | 5.6 | 6.3 | 3.7 | 15.0 | 6.9 | 2.4 | 2.3 | 7.3 | 4.3 | 4.5 | 3.3 | 4.8 | 7.2 | 13.7 | 10.6 | 9.1 | 7.2 | 6.5 | 14.1 | 5.0 | 6.40 | 15.28 | |
| Dir | SW | SW | SSW | S | SE | SSE | SSE | S | SSW | SE | S | SW | SW | SSW | SW | SW | SW | SSW | SW | WSW | WSW | SW | SW | WSW | SSW | SSW | |
| 7 Spd | 3.5 | 5.5 | 3.3 | 3.2 | 5.5 | 0.9 | 6.6 | 7.3 | 8.6 | 6.7 | 4.9 | 8.4 | 11.0 | 10.1 | 8.1 | 5.2 | 7.9 | 3.6 | 0.2 | 0.5 | 0.4 | 1.9 | 0.9 | 1.9 | 3.44 | 11.02 | |
| Dir | SSW | SSE | ENE | E | NE | E | WSW | WSW | WSW | WSW | WSW | WSW | SW | SW | WSW | WSW | SW | SW | SW | ESE | ENE | S | SW | SSW | SW | SW | |
| 8 Spd | 1.6 | 2.4 | 1.6 | 0.9 | 0.6 | 0.7 | 0.8 | 2.2 | 4.8 | 4.3 | 3.1 | 3.9 | 3.9 | 1.0 | 0.6 | 1.9 | 1.7 | 1.5 | 1.4 | 0.5 | 1.6 | 1.1 | 0.6 | 0.9 | 1.00 | 4.82 | |
| Dir | W | SSW | S | ENE | S | ENE | ENE | E | ENE | ENE | ENE | ENE | E | NW | W | E | ENE | ESE | SSW | NNW | ENE | SW | SW | ESE | E | ENE | |
| 9 Spd | 0.6 | 0.7 | 1.1 | 2.1 | 0.8 | 0.8 | 0.6 | 0.8 | 0.9 | 0.3 | 0.9 | 2.0 | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | -- | 2.08 | |
| Dir | SSW | SW | W | SSW | ENE | E | NE | NE | E | ENE | SSE | NE | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | -- | SSW | |
| 10 Spd | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | -- | 4.52 | |
| Dir | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | -- | ENE | |
| 11 Spd | 4.7 | 4.7 | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | -- | 4.74 | |
| Dir | ENE | ENE | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | -- | ENE | |
| 12 Spd | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | 1.2 | 1.0 | 2.8 | 4.2 | 4.9 | 2.2 | 1.8 | 2.1 | 4.8 | 3.0 | 1.3 | 1.7 | 3.0 | 3.7 | -- | 4.90 |
| Dir | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | ENE | E | ENE | ENE | ENE | NE | NE | ENE | ENE | E | ENE | E | E | ENE | -- | ENE |
| 13 Spd | 1.3 | 7.5 | 6.1 | 4.4 | 6.2 | 4.2 | 3.4 | 3.9 | 5.1 | 2.7 | 1.2 | 1.9 | 1.6 | 1.0 | 1.3 | 1.1 | 0.4 | 0.4 | 0.6 | 0.6 | 0.3 | 0.5 | 0.5 | 1.4 | 1.88 | 7.55 | |
| Dir | E | SE | SE | SE | SE | ENE | E | ESE | SE | ENE | NE | NE | NNE | ENE | ESE | E | NNE | NE | SE | N | NNW | NE | NNE | E | ESE | SE | |
| 14 Spd | 1.9 | 0.6 | 2.6 | 1.0 | 0.5 | 0.4 | 1.0 | 0.2 | 0.5 | 1.4 | 2.3 | 0.8 | 0.7 | 1.3 | 1.9 | 0.6 | 1.0 | 0.4 | 0.5 | 0.3 | 0.2 | 0.4 | 0.5 | 0.9 | 0.40 | 2.61 | |
| Dir | SW | ENE | SW | WSW | ESE | E | SE | ENE | W | WSW | SW | WNW | W | NW | WSW | SW | SSE | SSE | E | NE | NNE | NNE | ESE | ENE | SW | SW | |
| 15 Spd | 1.1 | 1.1 | 7.6 | 7.3 | 11.4 | 11.7 | 13.2 | 6.5 | 7.2 | 6.2 | 3.4 | 4.7 | 10.8 | 9.0 | 6.6 | 4.5 | 4.8 | 1.1 | 1.1 | 3.6 | 1.6 | 4.1 | 2.6 | 1.8 | 5.18 | 13.24 | |
| Dir | ENE | W | SW | WSW | SW | SW | SW | SW | SSW | SW | SW | SW | SW | SW | SW | SW | SW | SW | SSW | SSW | W | NW | WSW | SSW | SW | SW | |
| 16 Spd | 1.4 | 1.3 | 1.0 | 0.7 | 1.0 | 1.5 | 2.9 | 0.9 | 4.2 | 2.5 | 1.8 | 2.6 | 1.5 | 2.7 | 2.6 | 3.1 | 2.0 | 2.8 | 2.9 | 2.3 | 2.6 | 0.4 | 1.0 | 1.1 | 1.75 | 4.18 | |
| Dir | SW | W | W | WSW | SSW | NW | WNW | W | WSW | W | WSW | WSW | WNW | WSW | SW | SW | SSW | SW | W | WNW | W | SSE | W | WSW | WSW | WSW | |
| 17 Spd | 1.3 | 1.3 | 0.9 | 0.3 | 0.3 | 0.3 | 0.2 | 0.5 | 1.8 | 1.1 | 0.7 | 0.3 | 0.3 | 0.2 | 1.7 | 0.6 | 1.1 | 1.0 | 0.5 | 0.8 | 0.6 | 1.0 | 1.4 | 0.7 | 0.14 | 1.82 | |
| Dir | W | WSW | W | N | E | N | NNE | WNW | WNW | WNW | WNW | ESE | ESE | NW | SE | SE | E | E | ENE | NE | N | NE | ENE | ENE | NNE | WNW | |
| 18 Spd | 1.2 | 2.0 | 3.5 | 4.0 | 5.6 | 10.0 | 8.4 | 6.7 | 5.4 | 5.8 | 7.2 | 6.8 | 7.7 | 7.0 | 6.3 | 6.5 | 7.8 | 7.8 | 7.0 | 5.4 | 4.8 | 4.5 | 2.7 | 1.5 | 5.62 | 10.02 | |
| Dir | NE | E | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | E | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | |
| 19 Spd | 0.9 | 2.0 | 0.8 | 0.3 | 2.1 | 0.8 | 0.9 | 0.9 | 0.8 | 1.0 | 0.2 | 1.2 | 2.1 | 1.9 | 2.1 | 4.4 | 4.4 | 4.3 | 5.0 | 6.2 | 4.1 | 3.8 | 3.2 | 2.7 | 1.81 | 6.16 | |
| Dir | NNW | ENE | NNE | NW | SW | WNW | W | W | WNW | E | NNE | ENE | E | E | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | |
| 20 Spd | 3.8 | 0.9 | 2.5 | 9.2 | 5.4 | 6.5 | 7.6 | 3.8 | 10.5 | 3.0 | 2.7 | 4.7 | 9.8 | 6.0 | 5.8 | 1.7 | 5.7 | 8.5 | 6.3 | 7.4 | 2.4 | 1.5 | 3.5 | 2.0 | 4.32 | 10.48 | |
| Dir | ENE | ESE | W | SW | WSW | WSW | WSW | SSW | SW | S | ESE | SSW | SW | WSW | WSW | WSW | WSW | SW | SW | SW | W | W | WSW | WSW | SW | SW | |
| 21 Spd | 3.1 | 3.1 | 2.8 | 4.6 | 5.0 | 4.1 | 7.4 | 3.1 | 2.2 | 1.9 | 2.8 | 2.7 | 3.0 | 1.7 | 7.6 | 6.2 | 2.1 | 0.2 | 0.6 | 0.4 | 0.3 | 0.1 | 0.4 | 0.5 | 1.10 | 7.65 | |
| Dir | SW | WSW | W | WSW | WSW | SSW | SSE | ENE | ENE | ENE | ENE | ENE | ENE | ESE | SW | SSW | W | W | ESE | SE | SE | S | E | ENE | SSW | SW | |
| 22 Spd | 0.4 | 0.1 | 0.6 | 0.6 | 1.9 | 0.9 | 1.4 | 1.7 | 1.8 | 1.1 | 0.3 | 0.7 | 0.2 | 0.4 | 1.2 | 1.0 | 1.1 | 0.4 | 1.2 | 0.7 | 0.7 | 0.6 | 1.1 | 0.7 | 0.62 | 1.87 | |
| Dir | WSW | ENE | W | W | W | WSW | W | W | W | WNW | S | NNW | NNW | WNW | WSW | W | W | SW | W | WNW | WSW | NE | NE | ENE | W | W | |



WCAS - Hinton
Summary of Hourly Averages

Wind Speed (WS) - kph
December 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 | | | |
| 23 Spd | 0.8 | 0.4 | 0.1 | 0.2 | 0.1 | 0.3 | 1.1 | 2.6 | 1.9 | 1.4 | 1.3 | 1.0 | 0.9 | 0.2 | 1.7 | 1.4 | 1.2 | 0.8 | 0.5 | 0.7 | 1.2 | 1.4 | 0.6 | 0.9 | 0.23 | 2.60 | |
| Dir | NE | NE | N | S | ESE | N | WNW | W | WNW | WNW | WNW | NNW | SSE | SSW | SE | ENE | SSE | SSE | ESE | E | NNW | WNW | N | NNE | NW | W | |
| 24 Spd | 0.7 | 0.1 | 0.6 | 0.4 | 0.2 | 0.2 | 0.3 | 0.7 | 0.4 | 1.5 | 1.1 | 1.5 | 4.0 | 4.6 | 5.4 | 5.2 | 5.9 | 3.5 | 2.6 | 2.6 | 2.9 | 2.5 | 2.5 | 0.8 | 1.95 | 5.91 | |
| Dir | NE | N | WNW | NNW | NNW | N | NNE | E | NNE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | NE | NE | S | ENE | ENE | |
| 25 Spd | 0.9 | 0.4 | 1.8 | 1.5 | 2.1 | 2.3 | 1.0 | 0.6 | 0.6 | 1.2 | 5.5 | 2.7 | 1.7 | 3.0 | 1.5 | 0.9 | 0.8 | 2.0 | 0.7 | 0.7 | 0.7 | 2.2 | 0.4 | 0.7 | 0.79 | 5.52 | |
| Dir | W | N | E | W | SW | WSW | WSW | NE | NE | W | SW | WSW | WNW | WSW | WNW | WNW | SSW | S | SSE | SW | SSE | ENE | NNW | NNE | WSW | SW | |
| 26 Spd | 1.4 | 1.0 | 1.1 | 1.1 | 1.0 | 1.7 | 1.4 | 2.6 | 3.1 | 3.0 | 2.2 | 3.2 | 2.7 | 3.0 | 3.6 | 3.9 | 3.2 | 1.2 | 7.0 | 5.6 | 5.5 | 8.5 | 10.9 | 11.3 | 0.56 | 11.26 | |
| Dir | NE | ENE | ENE | E | NE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | ENE | WSW | WSW | SW | SW | SW | WSW | S | WSW | |
| 27 Spd | 11.9 | 11.9 | 10.1 | 9.4 | 9.5 | 8.0 | 10.0 | 9.4 | 10.7 | 9.4 | 9.5 | 9.6 | 9.6 | 10.3 | 9.5 | 10.8 | 6.7 | 2.6 | 2.9 | 3.2 | 1.2 | 1.7 | 2.9 | 1.0 | 6.93 | 11.87 | |
| Dir | WSW | WSW | WSW | WSW | SW | SW | SW | WSW | SW | SW | SW | SW | SW | SW | SW | SSW | SW | WSW | SW | SW | ENE | ENE | ENE | NE | SW | WSW | |
| 28 Spd | 0.5 | 3.9 | 1.0 | 0.7 | 1.0 | 0.5 | 0.5 | 0.9 | 0.9 | 0.3 | 0.3 | 0.3 | 1.3 | 1.7 | 0.8 | 1.2 | 1.8 | 1.8 | 0.7 | 0.2 | 0.3 | 0.6 | 1.0 | 0.7 | 0.55 | 3.89 | |
| Dir | SSE | SW | WNW | ENE | NNE | E | WSW | W | NW | ENE | NNE | SE | WNW | WNW | W | WSW | SSW | SW | SW | SSW | S | S | WSW | WNW | WSW | SW | |
| 29 Spd | 0.5 | 1.0 | 1.3 | 1.5 | 1.1 | 1.2 | 1.6 | 2.2 | 2.1 | 2.3 | 1.2 | 1.3 | 1.2 | 1.7 | 4.0 | 5.5 | 5.8 | 3.0 | 2.9 | 2.4 | 2.8 | 2.4 | 1.7 | 2.0 | 2.08 | 5.77 | |
| Dir | WNW | W | W | WSW | W | W | W | W | W | W | W | WNW | WNW | W | WSW | SW | SW | W | WNW | WNW | W | W | W | W | W | W | SW |
| 30 Spd | 1.8 | 2.3 | 2.3 | 1.9 | 3.1 | 2.2 | 1.8 | 1.8 | 1.7 | 1.5 | 2.0 | 2.1 | 1.7 | 2.0 | 2.4 | 1.4 | 2.7 | 2.9 | 0.9 | 1.5 | 1.6 | 1.9 | 2.5 | 2.3 | 1.95 | 3.12 | |
| Dir | W | W | W | W | WNW | W | W | W | W | WNW | WNW | WNW | WNW | W | WSW | W | WSW | W | W | W | W | W | W | W | W | W | WNW |
| 31 Spd | 2.9 | 4.0 | 3.1 | 3.8 | 5.2 | 9.5 | 6.4 | 7.1 | 10.6 | 10.8 | 11.5 | 12.4 | 12.7 | 13.2 | 12.7 | 12.4 | 6.3 | 5.9 | 5.0 | 5.6 | 7.1 | 4.0 | 4.6 | 2.9 | 7.18 | 13.22 | |
| Dir | W | W | WNW | WNW | W | WSW | WSW | WSW | WSW | SW | SW | SW | SW | SW | SW | SW | WSW | WSW | WSW | WSW | WSW | WSW | W | W | W | WSW | SW |
| Spd | 0.87 | 1.63 | 1.90 | 1.94 | 1.94 | 1.79 | 2.13 | 1.44 | 2.31 | 1.88 | 1.98 | 2.15 | 2.71 | 2.51 | 3.35 | 2.63 | 1.92 | 1.80 | 1.50 | 1.79 | 1.47 | 1.25 | 1.29 | 1.08 | Diurnal Average | | |
| Dir | WSW | SW | SW | SW | SW | WSW | SW | SW | SW | WSW | WSW | SW | SW | SW | SW | SW | SW | SW | SW | SW | SW | SW | SW | SW | SW | Diurnal Maximum | |
| Spd | 11.87 | 13.12 | 15.28 | 13.08 | 11.38 | 11.66 | 13.24 | 14.95 | 10.68 | 12.75 | 15.32 | 17.36 | 14.23 | 13.94 | 17.61 | 14.49 | 9.51 | 13.71 | 10.60 | 12.47 | 10.45 | 11.58 | 14.08 | 11.26 | Diurnal Maximum | | |
| Dir | 242.13 | 229.68 | 212.91 | 238.19 | 233.36 | 218.02 | 223.75 | 178.75 | 233.74 | 242.75 | 243.29 | 241.33 | 237.95 | 240.20 | 238.91 | 242.36 | 243.41 | 207.83 | 222.64 | 215.27 | 240.39 | 241.73 | 221.95 | 236.67 | | | |
| Maximum Speed Value: 17.6 kph on Dec 2 15:00 | | | | | | | | | | | | | | | | | | | Minimum Speed Value: 0.1 kph on Dec 21 22:00 | | | | | Hours in Service: | | 744 | |
| Maximum Daily Speed Average: 7.94 kph on Dec 2 | | | | | | | | | | | | | | | | | | | Minimum Daily Speed Average: 0.14 kph on Dec 17 | | | | | Hours of Data: | | 680 | |
| Maximum Diurnal Speed Average: 3.35 kph at hour 15 | | | | | | | | | | | | | | | | | | | Minimum Diurnal Speed Average: 0.87 kph at hour 1 | | | | | Hours of Missing Data: | | 64 | |
| Monthly Average Velocity: 1.869 kph 228.91 deg | | | | | | | | | | | | | | | | | | | Speed Percentiles: P ₁ = 0.1 P ₁₀ = 0.5 Q ₁ = 1.0 Median = 2.4 Q ₃ = 5.6 P ₉₀ = 9.2 P ₉₉ = 14.2 | | | | | Percent Operational Time: | | 91.4 | |
| All monthly, daily, and diurnal averages have been calculated using vector methods | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AF - Analyzer Failure | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frequency Distribution | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Speed Range (kph) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Direction | 0 to 5 | 5 to 11 | 11 to 19 | 19 to 28 | 28 to 38 | > 38 | Total | | | | | | | | | | | | | | | | | | | | |
| North | 20 | 0 | 0 | 0 | 0 | 0 | 20 | | | | | | | | | | | | | | | | | | | | |
| NorthEast | 77 | 17 | 0 | 0 | 0 | 0 | 94 | | | | | | | | | | | | | | | | | | | | |
| East | 106 | 4 | 0 | 0 | 0 | 0 | 110 | | | | | | | | | | | | | | | | | | | | |
| SouthEast | 32 | 7 | 0 | 0 | 0 | 0 | 39 | | | | | | | | | | | | | | | | | | | | |
| South | 33 | 7 | 1 | 0 | 0 | 0 | 41 | | | | | | | | | | | | | | | | | | | | |
| SouthWest | 66 | 98 | 35 | 0 | 0 | 0 | 199 | | | | | | | | | | | | | | | | | | | | |
| West | 132 | 17 | 0 | 0 | 0 | 0 | 149 | | | | | | | | | | | | | | | | | | | | |
| NorthWest | 27 | 1 | 0 | 0 | 0 | 0 | 28 | | | | | | | | | | | | | | | | | | | | |
| Total | 493 | 151 | 36 | 0 | 0 | 0 | 680 | | | | | | | | | | | | | | | | | | | | |



WCAS - Hinton
Summary of Hourly Averages

Relative Humidity (RH) - %
December 2015

| Maximum Value: 90.89 % on Dec 10 00:00 Maximum Daily Average: 89.67 % on Dec 9 Minimum Value: 27.2 % on Dec 2 15:00 Minimum Daily Average: 41.45 % on Dec 2 Maximum Diurnal Average: 72.61 % at hour 2 Minimum Diurnal Average: 54.38 % at hour 15 Monthly Average: 66.609 % Percentiles: P ₁ = 30.5 P ₁₀ = 39.6 Q ₁ = 48.9 Median = 74.6 Q ₃ = 80.6 P ₉₀ = 87.1 P ₉₉ = 90.0 | | | | | | | | | | | | | | | | | | | | | | | | 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-Dec | 82.7 | 82.5 | 82.7 | 86.6 | 86.0 | 82.1 | 81.1 | 80.2 | 80.1 | 53.4 | 57.5 | 43.4 | 35.7 | 35.9 | 35.1 | 36.9 | 43.1 | 45.5 | 47.6 | 45.7 | 45.3 | 43.4 | 43.7 | 45.3 | 58.39 | 86.64 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Dec | 57.7 | 67.7 | 72.1 | 67.7 | 50.1 | 49.4 | 48.2 | 43.9 | 40.2 | 38.2 | 33.7 | 30.9 | 28.7 | 27.9 | 27.2 | 29.2 | 31.6 | 36.8 | 33.3 | 29.1 | 32.1 | 34.1 | 43.6 | 41.3 | 41.45 | 72.13 | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Dec | 52.4 | 59.2 | 59.3 | 59.9 | 49.5 | 43.8 | 47.0 | 59.8 | 65.4 | 68.2 | 65.9 | 57.7 | 51.8 | 47.2 | 42.2 | 43.4 | 57.1 | 70.4 | 77.4 | 79.8 | 79.9 | 81.1 | 80.2 | 80.5 | 61.64 | 81.11 | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Dec | 76.7 | 71.4 | 57.3 | 51.0 | 48.8 | 47.9 | 49.9 | 50.0 | 38.4 | 38.2 | 36.9 | 33.7 | 33.6 | 35.7 | 37.5 | 43.6 | 45.6 | 44.7 | 46.8 | 40.9 | 40.0 | 38.9 | 39.6 | 44.9 | 45.50 | 76.70 | | | | | | | | | | | | | | | | | | | | | | | |
| 5-Dec | 44.9 | 42.3 | 41.4 | 39.0 | 38.3 | 38.7 | 41.4 | 40.2 | 39.5 | 36.9 | 36.8 | 43.5 | 40.7 | 40.9 | 34.5 | 35.9 | 37.5 | 38.5 | 45.8 | 47.4 | 47.4 | 48.7 | 48.8 | 49.8 | 41.62 | 49.82 | | | | | | | | | | | | | | | | | | | | | | | |
| 6-Dec | 50.5 | 49.4 | 51.1 | 51.9 | 49.0 | 48.6 | 47.3 | 42.5 | 45.2 | 45.0 | 46.6 | 45.5 | 44.3 | 40.4 | 34.5 | 37.6 | 39.1 | 40.6 | 41.3 | 37.6 | 41.5 | 42.7 | 41.0 | 45.0 | 44.09 | 51.87 | | | | | | | | | | | | | | | | | | | | | | | |
| 7-Dec | 45.3 | 41.8 | 53.6 | 58.9 | 65.0 | 53.0 | 38.3 | 40.7 | 38.1 | 37.1 | 37.3 | 35.3 | 31.3 | 30.6 | 30.4 | 37.9 | 40.6 | 45.1 | 50.0 | 64.2 | 70.4 | 71.5 | 74.6 | 75.4 | 48.59 | 75.43 | | | | | | | | | | | | | | | | | | | | | | | |
| 8-Dec | 77.1 | 77.8 | 79.6 | 82.3 | 84.9 | 86.0 | 86.6 | 86.2 | 85.1 | 83.0 | 81.5 | 79.5 | 81.4 | 81.7 | 78.9 | 78.3 | 81.0 | 84.3 | 86.5 | 87.4 | 88.2 | 88.4 | 88.0 | 88.2 | 83.41 | 88.41 | | | | | | | | | | | | | | | | | | | | | | | |
| 9-Dec | 88.6 | 89.6 | 90.3 | 90.5 | 89.6 | 89.4 | 89.1 | 88.9 | 89.1 | 89.3 | 89.4 | 89.2 | 89.1 | 89.1 | 89.2 | 89.3 | 89.4 | 89.7 | 90.0 | 90.0 | 90.7 | 90.8 | 90.8 | 90.9 | 89.67 | 90.89 | | | | | | | | | | | | | | | | | | | | | | | |
| 10-Dec | 90.8 | 90.0 | 89.2 | 89.0 | 88.6 | 87.7 | 87.3 | 87.2 | 86.9 | 86.8 | 86.9 | 87.3 | 88.1 | 88.9 | 89.1 | 89.7 | 89.8 | 90.0 | 89.7 | 89.8 | 90.1 | 90.1 | 90.0 | 89.7 | 88.87 | 90.78 | | | | | | | | | | | | | | | | | | | | | | | |
| 11-Dec | 89.2 | 89.0 | 88.7 | 88.7 | 88.7 | 88.9 | 88.7 | 88.6 | 88.7 | 88.6 | 88.6 | 88.3 | 87.6 | 86.0 | 86.1 | 86.5 | 87.1 | 88.2 | 88.3 | 88.3 | 88.4 | 88.2 | 87.8 | 87.9 | 88.13 | 89.24 | | | | | | | | | | | | | | | | | | | | | | | |
| 12-Dec | 88.8 | 88.6 | 87.8 | 87.1 | 86.3 | 85.3 | 84.4 | 84.1 | 83.8 | 83.6 | 83.7 | 84.5 | 85.0 | 84.0 | 82.4 | 80.8 | 84.3 | 85.4 | 85.8 | 85.1 | 85.2 | 85.9 | 86.3 | 86.3 | 85.18 | 88.83 | | | | | | | | | | | | | | | | | | | | | | | |
| 13-Dec | 86.5 | 85.1 | 84.1 | 82.7 | 82.2 | 84.4 | 84.4 | 84.4 | 81.3 | 81.2 | 82.4 | 80.1 | 79.4 | 77.8 | 76.7 | 76.7 | 80.4 | 84.0 | 84.4 | 85.4 | 86.3 | 86.7 | 85.6 | 81.4 | 82.66 | 86.68 | | | | | | | | | | | | | | | | | | | | | | | |
| 14-Dec | 80.7 | 82.3 | 83.3 | 81.9 | 84.4 | 85.4 | 85.0 | 84.3 | 84.0 | 83.8 | 80.1 | 72.5 | 65.5 | 65.7 | 65.3 | 65.5 | 77.7 | 82.2 | 83.5 | 83.1 | 82.5 | 81.7 | 81.1 | 80.7 | 79.26 | 85.42 | | | | | | | | | | | | | | | | | | | | | | | |
| 15-Dec | 80.8 | 83.4 | 63.5 | 59.0 | 52.7 | 52.6 | 51.3 | 53.7 | 54.7 | 58.2 | 56.1 | 56.9 | 50.9 | 43.6 | 39.4 | 38.3 | 45.9 | 55.4 | 60.4 | 60.7 | 56.6 | 55.1 | 53.9 | 56.2 | 55.80 | 83.43 | | | | | | | | | | | | | | | | | | | | | | | |
| 16-Dec | 64.1 | 68.4 | 69.1 | 70.0 | 73.1 | 74.6 | 76.7 | 79.1 | 71.5 | 72.6 | 72.4 | 60.6 | 57.0 | 52.3 | 52.0 | 49.2 | 52.2 | 52.8 | 59.6 | 69.6 | 74.4 | 78.8 | 81.6 | 81.9 | 67.22 | 81.90 | | | | | | | | | | | | | | | | | | | | | | | |
| 17-Dec | 81.2 | 80.5 | 79.8 | 78.6 | 78.0 | 77.4 | 77.6 | 76.8 | 77.1 | 77.4 | 76.9 | 74.0 | 60.2 | 53.8 | 55.8 | 63.9 | 72.1 | 77.7 | 79.7 | 80.1 | 79.8 | 79.3 | 78.9 | 78.2 | 74.78 | 81.21 | | | | | | | | | | | | | | | | | | | | | | | |
| 18-Dec | 78.4 | 78.3 | 78.9 | 79.6 | 79.3 | 79.3 | 78.6 | 77.0 | 76.8 | 77.2 | 77.5 | 77.2 | 72.2 | 69.7 | 67.2 | 67.5 | 73.1 | 74.8 | 75.8 | 76.4 | 76.8 | 77.6 | 78.3 | 79.3 | 76.11 | 79.64 | | | | | | | | | | | | | | | | | | | | | | | |
| 19-Dec | 79.9 | 80.0 | 78.7 | 79.8 | 78.9 | 79.2 | 79.3 | 79.2 | 79.0 | 78.9 | 76.9 | 76.5 | 65.9 | 61.1 | 63.6 | 65.9 | 71.3 | 75.7 | 79.2 | 80.1 | 80.6 | 80.6 | 80.6 | 80.4 | 76.30 | 80.62 | | | | | | | | | | | | | | | | | | | | | | | |
| 20-Dec | 79.8 | 79.4 | 80.2 | 49.9 | 47.8 | 41.8 | 38.6 | 39.8 | 41.2 | 44.7 | 44.6 | 39.2 | 36.0 | 38.6 | 39.8 | 44.0 | 47.7 | 42.8 | 44.8 | 46.1 | 53.6 | 57.3 | 50.2 | 51.9 | 49.15 | 80.17 | | | | | | | | | | | | | | | | | | | | | | | |
| 21-Dec | 47.5 | 46.5 | 46.0 | 41.2 | 40.3 | 49.3 | 59.1 | 66.2 | 74.8 | 79.2 | 72.4 | 62.6 | 55.6 | 48.8 | 33.9 | 39.5 | 48.2 | 57.2 | 68.5 | 73.9 | 77.8 | 80.4 | 81.5 | 81.6 | 59.66 | 81.64 | | | | | | | | | | | | | | | | | | | | | | | |
| 22-Dec | 81.2 | 80.8 | 80.0 | 79.8 | 80.0 | 79.1 | 78.7 | 78.9 | 78.6 | 78.3 | 78.9 | 79.5 | 79.8 | 66.6 | 53.6 | 51.0 | 59.2 | 63.9 | 70.4 | 73.4 | 75.6 | 77.9 | 79.0 | 80.4 | 74.36 | 81.20 | | | | | | | | | | | | | | | | | | | | | | | |
| 23-Dec | 81.2 | 82.2 | 82.6 | 81.9 | 80.6 | 79.6 | 79.7 | 79.5 | 79.2 | 78.6 | 76.8 | 75.4 | 67.7 | 59.0 | 55.7 | 55.4 | 68.6 | 76.1 | 79.2 | 79.6 | 80.2 | 79.4 | 79.2 | 79.6 | 75.71 | 82.62 | | | | | | | | | | | | | | | | | | | | | | | |
| 24-Dec | 80.0 | 80.4 | 80.9 | 81.2 | 81.3 | 81.5 | 81.6 | 81.6 | 81.7 | 81.4 | 80.3 | 79.2 | 76.4 | 76.7 | 76.3 | 75.2 | 76.2 | 78.0 | 79.8 | 80.4 | 80.6 | 81.4 | 82.5 | 80.7 | 79.80 | 82.47 | | | | | | | | | | | | | | | | | | | | | | | |
| 25-Dec | 79.5 | 79.9 | 78.5 | 75.7 | 77.0 | 76.7 | 78.5 | 78.9 | 78.2 | 76.4 | 66.3 | 66.6 | 67.5 | 61.3 | 57.6 | 54.6 | 63.8 | 72.5 | 75.7 | 77.2 | 77.0 | 75.8 | 75.8 | 75.0 | 72.75 | 79.93 | | | | | | | | | | | | | | | | | | | | | | | |
| 26-Dec | 74.7 | 74.0 | 72.5 | 71.7 | 71.1 | 70.9 | 70.8 | 70.7 | 70.5 | 71.0 | 72.2 | 73.2 | 73.6 | 74.2 | 74.2 | 74.2 | 74.3 | 73.7 | 46.2 | 43.3 | 43.9 | 41.5 | 39.1 | 37.9 | 64.97 | 74.70 | | | | | | | | | | | | | | | | | | | | | | | |
| 27-Dec | 38.9 | 38.9 | 39.4 | 42.0 | 45.2 | 44.7 | 44.0 | 45.1 | 46.3 | 44.6 | 42.0 | 39.2 | 36.6 | 36.7 | 39.1 | 40.6 | 42.1 | 44.3 | 47.1 | 54.5 | 59.4 | 60.9 | 64.1 | 45.15 | 64.09 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28-Dec | 67.9 | 63.9 | 67.9 | 73.8 | 76.3 | 77.3 | 77.1 | 77.4 | 77.7 | 80.6 | 79.5 | 60.2 | 56.2 | 53.1 | 47.5 | 49.3 | 60.9 | 67.4 | 74.9 | 79.0 | 81.5 | 81.6 | 81.2 | 80.2 | 70.53 | 81.60 | | | | | | | | | | | | | | | | | | | | | | | |
| 29-Dec | 79.3 | 78.8 | 78.2 | 77.7 | 77.1 | 76.9 | 76.5 | 76.3 | 76.1 | 76.3 | 76.1 | 73.1 | 64.3 | 58.3 | 51.3 | 49.3 | 53.9 | 59.5 | 69.6 | 74.6 | 77.8 | 78.4 | 78.0 | 77.4 | 71.46 | 79.33 | | | | | | | | | | | | | | | | | | | | | | | |
| 30-Dec | 77.0 | 77.3 | 77.2 | 78.1 | 78.2 | 79.0 | 77.4 | 77.6 | 78.2 | 77.6 | 75.3 | 60.9 | 50.7 | 44.6 | 42.0 | 38.5 | 43.7 | 46.8 | 57.4 | 65.4 | 70.3 | 74.4 | 76.8 | 75.4 | 66.65 | 78.96 | | | | | | | | | | | | | | | | | | | | | | | |
| 31-Dec | 66.8 | 61.5 | 59.9 | 63.2 | 58.1 | 49.0 | 50.4 | 51.2 | 47.2 | 46.8 | 43.0 | 38.9 | 36.4 | 33.1 | 30.4 | 31.2 | 34.7 | 36.4 | 39.3 | 40.3 | 40.6 | 47.3 | 48.3 | 51.0 | 46.04 | 66.80 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 72.58 | 72.61 | 72.05 | 70.98 | 69.89 | 69.09 | 68.88 | 69.32 | 68.81 | 68.22 | 67.01 | 63.46 | 59.73 | 56.87 | 54.38 | 55.40 | 60.35 | 63.80 | 66.32 | 67.78 | 69.34 | 70.27 | 70.54 | 70.92 | Diurnal Average | |
| | | | | | | | | | | | | | | | | | | | | | | | | 90.78 | 90.05 | 90.26 | 90.54 | 89.59 | 89.36 | 89.13 | 88.93 | 89.10 | 89.26 | 89.38 | 89.21 | 89.13 | 89.10 | 89.16 | 89.66 | 89.83 | 90.03 | 89.98 | 90.01 | 90.74 | 90.82 | 90.84 | 90.89 | Diurnal Maximum | |



WCAS - Hinton
Summary of Hourly Standard Deviations

Wind Speed (WS) - kph
December 2015

| Maximum Value: 9.62 kph on Dec 2 12:00 | | Maximum Daily Average: 6.14 kph on Dec 4 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|--|
| Minimum Value: 0.0 kph on Dec 24 06:00 | | Minimum Daily Average: 1.01 kph on Dec 23 | | Hours of Data: 680 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: 3.29 kph at hour 15 | | Minimum Diurnal Average: 2.09 kph at hour 1 | | Hours of Missing Data: 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: 2.545 kph | | Percentiles: P ₁ = 0.5 P ₁₀ = 0.9 Q ₁ = 1.2 Median = 1.8 Q ₃ = 3.4 P ₉₀ = 5.5 P ₉₉ = 8.3 | | Hours of Calibration: 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Percent Operational Time: 91.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day | Hourly Period Ending At (MST) | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-Dec | 1.6 | 1.4 | 1.3 | 1.3 | 1.5 | 1.4 | 2.3 | 1.9 | 2.4 | 5.7 | 2.0 | 5.5 | 6.1 | 5.0 | 6.1 | 5.3 | 4.6 | 4.3 | 4.2 | 4.4 | 5.3 | 4.8 | 3.9 | 2.6 | 3.54 | 6.09 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Dec | 1.4 | 1.6 | 1.7 | 2.8 | 4.4 | 4.7 | 6.5 | 6.6 | 5.8 | 7.8 | 9.2 | 9.6 | 8.4 | 8.1 | 9.0 | 8.8 | 7.4 | 4.2 | 5.9 | 6.0 | 4.2 | 3.5 | 1.9 | 2.4 | 5.48 | 9.62 | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Dec | 1.9 | 1.7 | 2.0 | 1.6 | 2.1 | 2.7 | 2.9 | 2.0 | 1.9 | 1.3 | 1.3 | 1.7 | 1.7 | 1.6 | 2.8 | 3.8 | 1.6 | 1.7 | 1.3 | 1.8 | 2.2 | 2.4 | 2.2 | 2.4 | 2.02 | 3.81 | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Dec | 4.0 | 2.5 | 4.4 | 5.2 | 6.4 | 5.7 | 4.0 | 3.7 | 4.5 | 4.1 | 8.3 | 6.9 | 7.6 | 7.2 | 7.7 | 7.8 | 5.3 | 7.2 | 6.1 | 7.5 | 7.0 | 8.6 | 7.9 | 7.8 | 6.14 | 8.60 | | | | | | | | | | | | | | | | | | | | | | | |
| 5-Dec | 6.9 | 7.2 | 7.4 | 7.0 | 5.6 | 4.9 | 4.5 | 4.2 | 4.7 | 5.2 | 5.8 | 2.5 | 3.0 | 3.2 | 5.1 | 3.9 | 3.2 | 4.8 | 3.7 | 2.9 | 4.5 | 3.2 | 2.9 | 4.6 | 4.63 | 7.37 | | | | | | | | | | | | | | | | | | | | | | | |
| 6-Dec | 4.9 | 8.1 | 7.5 | 3.3 | 4.7 | 3.9 | 4.4 | 5.2 | 3.8 | 2.8 | 2.5 | 2.3 | 3.1 | 2.6 | 2.3 | 3.2 | 4.6 | 4.0 | 4.3 | 6.1 | 5.5 | 5.0 | 5.6 | 3.9 | 4.32 | 8.06 | | | | | | | | | | | | | | | | | | | | | | | |
| 7-Dec | 2.9 | 2.2 | 2.1 | 3.4 | 3.9 | 4.7 | 6.0 | 5.9 | 6.3 | 5.6 | 4.6 | 6.2 | 6.3 | 5.8 | 5.7 | 4.4 | 5.3 | 2.9 | 1.9 | 1.6 | 1.9 | 2.0 | 1.8 | 2.3 | 3.99 | 6.28 | | | | | | | | | | | | | | | | | | | | | | | |
| 8-Dec | 1.6 | 2.4 | 1.9 | 1.2 | 1.0 | 1.3 | 1.3 | 1.6 | 3.4 | 2.6 | 2.2 | 2.0 | 1.8 | 1.4 | 1.2 | 1.8 | 1.9 | 1.7 | 2.1 | 1.3 | 1.6 | 1.7 | 2.4 | 1.8 | 1.81 | 3.40 | | | | | | | | | | | | | | | | | | | | | | | |
| 9-Dec | 1.4 | 1.4 | 1.8 | 3.0 | 1.3 | 1.3 | 1.1 | 1.0 | 1.1 | 1.4 | 1.4 | 1.4 | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | -- | 3.03 | | | | | | | | | | | | | | | | | | | | | | | |
| 10-Dec | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | -- | 2.21 | | | | | | | | | | | | | | | | | | | | | | | |
| 11-Dec | 2.0 | 1.7 | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | -- | 1.96 | | | | | | | | | | | | | | | | | | | | | | | |
| 12-Dec | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | 1.3 | 1.5 | 1.8 | 1.8 | 2.1 | 1.8 | 1.6 | 1.5 | 1.7 | 1.7 | 1.1 | 1.3 | 2.5 | 2.4 | -- | 2.48 | | | | | | | | | | | | | | | | | | | | | | | |
| 13-Dec | 1.8 | 2.7 | 2.2 | 1.9 | 2.4 | 2.0 | 1.7 | 2.2 | 1.9 | 1.4 | 1.2 | 1.4 | 1.5 | 1.4 | 1.3 | 1.3 | 0.7 | 0.5 | 0.9 | 0.8 | 0.7 | 0.7 | 0.8 | 1.1 | 1.43 | 2.66 | | | | | | | | | | | | | | | | | | | | | | | |
| 14-Dec | 1.7 | 1.0 | 1.5 | 1.3 | 1.0 | 0.8 | 1.1 | 0.6 | 0.9 | 1.3 | 1.7 | 1.1 | 1.2 | 1.1 | 1.6 | 0.9 | 1.0 | 1.0 | 0.9 | 0.8 | 0.7 | 0.7 | 0.9 | 1.0 | 1.08 | 1.74 | | | | | | | | | | | | | | | | | | | | | | | |
| 15-Dec | 1.2 | 2.1 | 3.8 | 4.6 | 6.0 | 4.8 | 6.0 | 4.0 | 3.5 | 3.4 | 3.0 | 4.0 | 4.5 | 4.8 | 4.6 | 3.1 | 2.4 | 1.6 | 1.9 | 2.1 | 1.8 | 3.6 | 1.9 | 3.0 | 3.40 | 6.01 | | | | | | | | | | | | | | | | | | | | | | | |
| 16-Dec | 1.5 | 1.2 | 1.1 | 1.1 | 1.6 | 1.6 | 1.3 | 1.1 | 1.9 | 1.8 | 1.8 | 2.1 | 1.4 | 2.4 | 2.9 | 2.0 | 1.8 | 2.2 | 1.6 | 1.5 | 1.2 | 1.1 | 1.2 | 1.6 | 1.62 | 2.90 | | | | | | | | | | | | | | | | | | | | | | | |
| 17-Dec | 1.2 | 1.0 | 1.1 | 1.0 | 0.7 | 0.6 | 1.0 | 0.8 | 1.0 | 1.1 | 1.0 | 0.4 | 0.6 | 0.6 | 1.3 | 1.0 | 1.1 | 1.2 | 1.1 | 1.3 | 1.2 | 1.5 | 1.6 | 1.1 | 1.03 | 1.62 | | | | | | | | | | | | | | | | | | | | | | | |
| 18-Dec | 1.5 | 1.4 | 1.3 | 1.8 | 1.9 | 3.0 | 2.9 | 2.7 | 2.6 | 2.6 | 2.7 | 2.4 | 3.4 | 3.0 | 2.7 | 3.1 | 3.5 | 3.1 | 2.7 | 1.9 | 1.4 | 1.6 | 1.8 | 1.3 | 2.35 | 3.54 | | | | | | | | | | | | | | | | | | | | | | | |
| 19-Dec | 0.8 | 1.2 | 0.9 | 0.7 | 2.0 | 0.9 | 1.0 | 1.1 | 1.1 | 1.5 | 0.7 | 1.1 | 1.4 | 1.9 | 1.9 | 2.6 | 2.4 | 3.0 | 3.2 | 3.4 | 2.6 | 3.1 | 2.3 | 2.4 | 1.79 | 3.40 | | | | | | | | | | | | | | | | | | | | | | | |
| 20-Dec | 2.8 | 1.7 | 3.1 | 3.4 | 4.0 | 6.4 | 6.8 | 3.9 | 4.9 | 3.6 | 2.0 | 2.5 | 6.4 | 5.5 | 4.1 | 2.2 | 3.6 | 5.1 | 4.5 | 3.5 | 2.6 | 2.2 | 3.2 | 2.0 | 3.75 | 6.82 | | | | | | | | | | | | | | | | | | | | | | | |
| 21-Dec | 3.4 | 2.7 | 2.0 | 5.0 | 5.2 | 3.1 | 2.5 | 2.1 | 1.8 | 1.4 | 2.1 | 1.8 | 1.6 | 2.3 | 3.0 | 2.8 | 1.4 | 1.0 | 0.9 | 0.9 | 0.7 | 0.7 | 0.8 | 1.0 | 2.08 | 5.16 | | | | | | | | | | | | | | | | | | | | | | | |
| 22-Dec | 0.8 | 0.2 | 0.9 | 1.0 | 1.2 | 0.9 | 1.1 | 1.2 | 1.1 | 1.5 | 1.3 | 0.8 | 0.6 | 0.8 | 1.4 | 1.2 | 1.0 | 1.1 | 1.5 | 1.0 | 1.0 | 0.9 | 1.0 | 1.2 | 1.02 | 1.52 | | | | | | | | | | | | | | | | | | | | | | | |
| 23-Dec | 0.9 | 0.8 | 0.6 | 1.0 | 0.7 | 0.5 | 1.1 | 0.9 | 1.1 | 1.0 | 1.3 | 1.0 | 1.5 | 1.4 | 1.5 | 1.2 | 1.0 | 1.2 | 0.8 | 0.9 | 1.1 | 1.0 | 0.8 | 1.0 | 1.01 | 1.53 | | | | | | | | | | | | | | | | | | | | | | | |
| 24-Dec | 0.9 | 0.5 | 0.7 | 0.5 | 0.5 | 0.0 | 0.4 | 0.9 | 0.6 | 1.1 | 1.0 | 1.2 | 1.6 | 1.9 | 2.5 | 2.4 | 1.9 | 1.9 | 1.7 | 1.7 | 1.4 | 1.0 | 1.3 | 1.1 | 1.20 | 2.54 | | | | | | | | | | | | | | | | | | | | | | | |
| 25-Dec | 0.9 | 0.8 | 1.6 | 1.5 | 1.4 | 2.2 | 1.2 | 0.7 | 0.9 | 1.8 | 2.9 | 2.2 | 1.3 | 2.4 | 1.6 | 1.1 | 0.9 | 1.6 | 0.9 | 1.2 | 1.1 | 1.8 | 1.0 | 0.7 | 1.40 | 2.87 | | | | | | | | | | | | | | | | | | | | | | | |
| 26-Dec | 0.9 | 1.0 | 1.2 | 1.1 | 1.0 | 1.2 | 1.3 | 1.3 | 1.3 | 1.4 | 1.3 | 1.5 | 1.5 | 1.6 | 2.3 | 2.0 | 1.5 | 1.9 | 4.6 | 4.0 | 3.1 | 4.7 | 4.7 | 5.1 | 2.15 | 5.11 | | | | | | | | | | | | | | | | | | | | | | | |
| 27-Dec | 6.2 | 6.5 | 5.7 | 5.6 | 5.1 | 4.7 | 5.1 | 5.2 | 5.2 | 4.5 | 4.7 | 4.6 | 5.0 | 4.9 | 4.5 | 3.4 | 3.7 | 2.2 | 2.2 | 1.7 | 1.3 | 1.4 | 1.8 | 1.7 | 4.02 | 6.54 | | | | | | | | | | | | | | | | | | | | | | | |
| 28-Dec | 1.5 | 2.3 | 1.7 | 0.9 | 1.2 | 1.0 | 1.0 | 1.1 | 1.1 | 0.8 | 0.8 | 0.5 | 1.3 | 1.1 | 1.2 | 1.4 | 1.7 | 1.5 | 1.1 | 0.4 | 1.2 | 1.1 | 1.2 | 0.8 | 1.16 | 2.31 | | | | | | | | | | | | | | | | | | | | | | | |
| 29-Dec | 1.0 | 1.3 | 1.0 | 1.0 | 1.3 | 1.1 | 1.2 | 1.5 | 1.4 | 1.5 | 1.2 | 1.0 | 1.1 | 1.9 | 3.2 | 2.8 | 3.2 | 2.5 | 1.5 | 1.1 | 1.2 | 1.3 | 1.2 | 1.3 | 1.53 | 3.19 | | | | | | | | | | | | | | | | | | | | | | | |
| 30-Dec | 1.3 | 1.3 | 1.6 | 1.6 | 1.5 | 1.5 | 2.2 | 1.1 | 1.4 | 1.1 | 1.2 | 1.3 | 1.6 | 2.4 | 2.9 | 1.7 | 2.2 | 2.6 | 1.0 | 1.2 | 1.1 | 1.2 | 1.4 | 1.3 | 1.58 | 2.90 | | | | | | | | | | | | | | | | | | | | | | | |
| 31-Dec | 1.9 | 3.4 | 2.5 | 2.1 | 3.8 | 5.1 | 4.4 | 5.1 | 5.7 | 5.5 | 6.0 | 6.4 | 5.9 | 5.6 | 5.5 | 5.2 | 4.4 | 3.7 | 4.2 | 4.3 | 4.6 | 3.1 | 4.0 | 2.8 | 4.38 | 6.40 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.09 | 2.19 | 2.30 | 2.35 | 2.62 | 2.56 | 2.72 | 2.49 | 2.61 | 2.67 | 2.63 | 2.65 | 2.98 | 2.98 | 3.29 | 2.93 | 2.68 | 2.55 | 2.45 | 2.38 | 2.25 | 2.30 | 2.26 | 2.20 | Diurnal Average | |
| | | | | | | | | | | | | | | | | | | | | | | | | 6.88 | 8.06 | 7.51 | 7.02 | 6.44 | 6.41 | 6.82 | 6.60 | 6.28 | 7.75 | 9.21 | 9.62 | 8.36 | 8.07 | 9.01 | 8.83 | 7.37 | 7.23 | 6.09 | 7.45 | 6.95 | 8.60 | 7.86 | 7.77 | Diurnal Maximum | |
| AF - Analyzer Failure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ,Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ul/m^3 24-hr 100 ul/m^3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Hinton
Summary of Hourly Standard Deviations

Wind Direction (WD) - deg
December 2015

| Maximum Value: 108.88 deg on Dec 7 06:00 Maximum Daily Average: 67.96 deg on Dec 8 | | | | | | | | | | | | | | | | | | | | | | | Hours in Service: 744 Hours of Data: 680 | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------|------|-------|------|-------|------|------|------|-------|-------|------|------|------|------|------|------|------|------|------|-------|------|----------------------------------------------------------------------------------------|------|---------------|---------------|-------|
| Minimum Value: 16.5 deg on Dec 27 16:00 Minimum Daily Average: 27.44 deg on Dec 18 Maximum Diurnal Average: 59.46 deg at hour 1 Minimum Diurnal Average: 38.50 deg at hour 17 Monthly Average: 48.075 deg Percentiles: P ₁ = 18.3 P ₁₀ = 24.9 Q ₁ = 31.6 Median = 42.5 Q ₃ = 61.1 P ₉₀ = 82.8 P ₉₉ = 100.5 | | | | | | | | | | | | | | | | | | | | | | | Hours of Missing Data: 64 Hours of Calibration: 0 Percent Operational Time: 91.4 | | | | |
| 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-Dec | 42.3 | 76.7 | 82.0 | 38.0 | 53.5 | 59.7 | 98.0 | 73.3 | 95.7 | 64.8 | 48.8 | 48.9 | 24.7 | 27.1 | 31.0 | 35.3 | 40.2 | 33.1 | 35.2 | 34.1 | 37.1 | 24.5 | 45.9 | 65.3 | 50.64 | 97.99 | |
| 2-Dec | 94.9 | 87.0 | 85.2 | 52.7 | 37.4 | 41.1 | 55.6 | 51.1 | 33.2 | 30.9 | 32.6 | 30.4 | 32.6 | 33.0 | 27.5 | 33.7 | 40.0 | 58.1 | 41.5 | 25.1 | 23.3 | 36.5 | 32.7 | 19.8 | 43.16 | 94.87 | |
| 3-Dec | 93.3 | 74.2 | 53.0 | 31.9 | 59.8 | 24.9 | 23.2 | 48.3 | 38.3 | 106.3 | 59.7 | 35.1 | 41.5 | 34.4 | 61.0 | 45.3 | 71.9 | 51.0 | 47.2 | 34.2 | 60.7 | 67.8 | 68.7 | 31.9 | 52.66 | 106.27 | |
| 4-Dec | 98.7 | 106.4 | 45.1 | 29.2 | 47.9 | 49.5 | 73.2 | 75.1 | 36.6 | 51.4 | 40.9 | 26.9 | 31.3 | 40.1 | 33.8 | 43.5 | 42.4 | 48.6 | 53.7 | 38.6 | 38.0 | 42.3 | 42.7 | 47.9 | 49.32 | 106.35 | |
| 5-Dec | 43.7 | 38.0 | 32.5 | 29.4 | 31.6 | 42.8 | 54.5 | 52.1 | 52.7 | 38.3 | 47.9 | 77.7 | 30.7 | 71.1 | 37.4 | 60.5 | 32.0 | 38.8 | 61.8 | 57.2 | 42.4 | 32.4 | 33.2 | 37.4 | 44.82 | 77.65 | |
| 6-Dec | 87.7 | 34.3 | 25.9 | 104.3 | 55.0 | 42.7 | 91.6 | 25.7 | 42.5 | 83.3 | 71.4 | 23.2 | 39.2 | 28.4 | 35.4 | 35.8 | 32.8 | 18.4 | 22.8 | 38.7 | 43.6 | 44.5 | 18.5 | 41.2 | 45.28 | 104.25 | |
| 7-Dec | 52.1 | 36.1 | 42.4 | 93.3 | 30.6 | 108.9 | 48.6 | 44.4 | 41.0 | 46.9 | 53.8 | 41.3 | 31.5 | 32.7 | 40.0 | 47.4 | 33.2 | 45.9 | 97.0 | 95.6 | 95.9 | 78.7 | 89.9 | 65.7 | 58.03 | 108.88 | |
| 8-Dec | 54.4 | 72.0 | 85.6 | 86.0 | 95.1 | 88.6 | 74.9 | 47.7 | 39.0 | 36.1 | 54.5 | 28.8 | 32.2 | 70.6 | 80.7 | 44.6 | 62.9 | 64.4 | 97.1 | 97.8 | 61.3 | 80.7 | 89.9 | 86.3 | 67.96 | 97.84 | |
| 9-Dec | 101.8 | 91.0 | 75.2 | 90.4 | 76.3 | 60.3 | 61.7 | 74.7 | 58.2 | 82.0 | 83.2 | 45.0 | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | -- | 101.82 | |
| 10-Dec | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | 30.3 | 33.3 | 19.7 | 27.0 | -- | 33.30 |
| 11-Dec | 24.2 | 19.6 | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | -- | 24.24 | |
| 12-Dec | AF | AF | AF | AF | AF | AF | AF | AF | AF | AF | 44.7 | 56.1 | 29.3 | 22.0 | 24.5 | 32.4 | 35.5 | 32.9 | 19.1 | 28.1 | 32.8 | 44.7 | 40.1 | 40.2 | -- | 56.15 | |
| 13-Dec | 61.9 | 22.3 | 23.2 | 27.0 | 30.0 | 23.8 | 33.3 | 36.9 | 23.6 | 28.5 | 36.7 | 37.9 | 48.1 | 87.1 | 61.1 | 51.4 | 32.8 | 25.7 | 36.0 | 75.2 | 71.5 | 34.7 | 56.6 | 36.3 | 41.73 | 87.09 | |
| 14-Dec | 64.1 | 50.2 | 30.7 | 52.7 | 61.3 | 60.5 | 74.8 | 71.2 | 72.6 | 31.5 | 42.6 | 63.0 | 68.1 | 41.0 | 43.2 | 51.7 | 42.3 | 85.2 | 83.5 | 56.9 | 78.7 | 48.1 | 73.1 | 63.2 | 58.75 | 85.18 | |
| 15-Dec | 64.2 | 78.8 | 29.0 | 32.4 | 24.9 | 20.1 | 22.6 | 29.6 | 29.2 | 33.7 | 69.6 | 64.3 | 21.5 | 30.4 | 38.7 | 38.5 | 18.3 | 68.5 | 99.9 | 58.5 | 58.2 | 50.4 | 47.1 | 86.6 | 46.45 | 99.88 | |
| 16-Dec | 68.8 | 41.6 | 41.5 | 48.7 | 81.1 | 60.6 | 23.1 | 30.4 | 28.7 | 47.8 | 38.3 | 43.4 | 37.7 | 49.6 | 53.2 | 47.0 | 55.9 | 27.3 | 32.3 | 36.6 | 31.4 | 89.2 | 59.3 | 72.9 | 47.77 | 89.22 | |
| 17-Dec | 55.0 | 45.2 | 50.5 | 83.8 | 88.2 | 66.3 | 93.4 | 68.6 | 23.6 | 42.1 | 60.7 | 50.8 | 49.8 | 90.5 | 34.6 | 59.3 | 31.0 | 84.3 | 84.1 | 90.6 | 87.4 | 87.8 | 64.0 | 78.6 | 65.43 | 93.40 | |
| 18-Dec | 77.7 | 35.7 | 24.4 | 25.4 | 18.7 | 18.1 | 19.0 | 23.4 | 25.6 | 26.2 | 21.2 | 18.8 | 24.9 | 24.0 | 25.5 | 33.1 | 24.2 | 22.9 | 20.2 | 19.1 | 17.7 | 19.7 | 47.3 | 46.0 | 27.44 | 77.69 | |
| 19-Dec | 41.6 | 19.8 | 45.6 | 99.6 | 40.0 | 39.5 | 32.0 | 36.6 | 70.5 | 82.8 | 104.5 | 44.2 | 45.8 | 60.5 | 54.1 | 46.3 | 37.0 | 40.3 | 42.6 | 40.1 | 41.1 | 61.7 | 51.3 | 59.0 | 51.51 | 104.47 | |
| 20-Dec | 52.6 | 87.8 | 74.3 | 21.7 | 50.2 | 51.3 | 50.0 | 72.8 | 25.0 | 79.5 | 57.7 | 40.0 | 39.5 | 44.0 | 38.6 | 62.1 | 31.1 | 33.2 | 39.6 | 26.5 | 47.2 | 63.8 | 45.0 | 45.7 | 49.14 | 87.79 | |
| 21-Dec | 54.9 | 48.1 | 42.1 | 66.3 | 52.3 | 51.5 | 18.2 | 43.8 | 54.7 | 50.6 | 43.7 | 35.6 | 28.3 | 67.7 | 18.8 | 26.0 | 27.3 | 82.6 | 59.6 | 90.0 | 80.2 | 89.8 | 76.2 | 74.7 | 53.45 | 90.01 | |
| 22-Dec | 49.9 | 66.0 | 30.0 | 45.7 | 29.3 | 61.2 | 36.5 | 39.1 | 39.9 | 60.3 | 93.2 | 31.5 | 91.3 | 64.2 | 49.2 | 34.0 | 42.9 | 87.9 | 74.5 | 50.6 | 87.6 | 52.2 | 40.5 | 66.0 | 55.14 | 93.19 | |
| 23-Dec | 45.8 | 68.8 | 96.5 | 90.6 | 79.3 | 69.5 | 38.8 | 17.3 | 21.4 | 36.6 | 36.6 | 24.1 | 82.8 | 89.6 | 44.3 | 28.8 | 47.7 | 52.7 | 82.9 | 47.8 | 43.6 | 29.4 | 61.7 | 47.3 | 53.50 | 96.54 | |
| 24-Dec | 40.8 | 72.8 | 36.0 | 30.0 | 72.2 | 18.1 | 24.7 | 42.7 | 53.5 | 19.3 | 22.7 | 38.9 | 22.7 | 21.8 | 25.7 | 24.6 | 18.5 | 30.5 | 34.1 | 32.7 | 28.2 | 27.4 | 24.9 | 68.5 | 34.64 | 72.80 | |
| 25-Dec | 33.9 | 68.2 | 58.7 | 45.2 | 40.6 | 35.9 | 52.6 | 40.5 | 59.6 | 67.5 | 31.5 | 48.6 | 35.9 | 48.0 | 44.1 | 51.0 | 74.5 | 64.4 | 77.9 | 89.9 | 95.7 | 37.5 | 82.6 | 26.8 | 54.64 | 95.73 | |
| 26-Dec | 27.5 | 55.9 | 60.7 | 45.1 | 36.0 | 41.9 | 42.5 | 25.0 | 25.0 | 30.3 | 37.9 | 27.9 | 30.7 | 36.4 | 41.0 | 31.7 | 32.7 | 90.6 | 37.9 | 39.1 | 40.5 | 34.9 | 21.5 | 25.1 | 38.24 | 90.56 | |
| 27-Dec | 28.8 | 30.5 | 30.8 | 31.6 | 28.4 | 33.5 | 27.2 | 29.7 | 27.6 | 25.9 | 28.0 | 24.6 | 26.8 | 25.1 | 23.8 | 16.5 | 19.4 | 50.0 | 43.5 | 29.8 | 64.3 | 37.2 | 20.3 | 86.3 | 32.89 | 86.32 | |
| 28-Dec | 81.9 | 34.9 | 80.1 | 71.2 | 51.8 | 73.6 | 67.5 | 40.2 | 54.6 | 73.9 | 64.5 | 57.6 | 61.3 | 34.9 | 55.4 | 46.5 | 45.8 | 31.3 | 64.0 | 93.2 | 100.8 | 86.8 | 49.6 | 66.3 | 61.99 | 100.76 | |
| 29-Dec | 82.4 | 81.0 | 41.1 | 34.2 | 56.1 | 46.2 | 35.0 | 28.6 | 30.5 | 35.9 | 43.9 | 40.7 | 36.0 | 49.7 | 42.0 | 31.4 | 28.7 | 39.1 | 21.4 | 25.4 | 24.1 | 29.9 | 36.9 | 43.4 | 40.15 | 82.44 | |
| 30-Dec | 63.4 | 30.5 | 46.7 | 45.9 | 23.1 | 39.6 | 45.9 | 26.8 | 38.5 | 32.7 | 26.8 | 33.0 | 43.5 | 54.7 | 61.3 | 48.7 | 36.0 | 44.4 | 48.6 | 27.5 | 28.5 | 28.2 | 25.3 | 32.1 | 38.82 | 63.44 | |
| 31-Dec | 35.8 | 41.1 | 39.0 | 30.5 | 39.8 | 29.7 | 37.6 | 37.9 | 28.6 | 26.5 | 27.8 | 27.6 | 25.1 | 23.0 | 22.5 | 21.6 | 40.9 | 37.5 | 44.7 | 40.9 | 39.8 | 40.5 | 47.0 | 43.6 | 34.55 | 47.04 | |
| 59.46 55.67 50.29 52.95 49.67 48.55 48.43 44.04 41.78 48.98 49.15 40.20 39.74 46.47 41.02 40.31 38.50 49.63 53.66 50.70 52.83 49.47 48.67 52.80 | | | | | | | | | | | | | | | | | | | | | | | Diurnal Average | | | | |
| 101.82 106.35 96.54 104.25 95.12 108.88 97.99 75.07 95.65 106.27 104.47 77.65 91.32 90.50 80.73 62.12 74.55 90.56 99.88 97.84 100.76 89.84 89.93 86.64 | | | | | | | | | | | | | | | | | | | | | | | Diurnal Maximum | | | | |
| AF - Analyzer 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
DECEMBER 2015**