

# **Peace River Area Monitoring Program**

# 2019

# **Annual Ambient Air Quality Monitoring Report**

**PRAMP-2019** 

**Report Prepared By:** 

Peace River Area Monitoring Program

March 27, 2020

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### **List of Acronyms**

AAAQOs Alberta Ambient Air Quality Objectives

AEP Alberta Environment and Parks

AMD Air Monitoring Directive

AT Ambient Temperature

BP Barometric Pressure

CH4 Methane

EPEA Environmental Protection and Enhancement Act

H2S Hydrogen Sulphide

kph kilometers per hour

mb millibar

mm millimeter

NMHC Non-Methane Hydrocarbons

ppb parts per billion

ppm parts per million

PRAMP Peace River Area Monitoring Program

RH Relative Humidity

SO2 Sulphur Dioxide

ST Station Temperature

THC Total Hydrocarbons

TRS Total Reduced Sulphur

VWD Vector Wind Direction

VWS Vector Wind Speed

WD Wind Direction

WS Wind Speed

°C Degrees Celsius



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RE: 2019 Annual Ambient Air Quality Monitoring Report -PRAMP Airshed

Enclosed is the 2019 Annual Ambient Air Quality Monitoring Report for the continuous ambient air quality monitoring stations of the Peace River Area Monitoring Program (PRAMP) Airshed regional air quality monitoring network, as operated in the year 2019.

The representative of the Person Responsible for this monitoring program is:

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This report was prepared by Lily Lin and reviewed by Mike Bisaga of PRAMP Airshed.

PRAMP Airshed has retained the services of Bureau Veritas to conduct continuous ambient monitoring on its behalf.

# **Listing of Continuous Monitoring Stations and Integrated Sampling Stations**

The PRAMP continuous ambient air quality monitoring network stations are:

- 986b / 986c Station
- 842b Station
- Reno Station
- AQHI Cadotte Lake

| Station ID | Station Name      | Latitude  | Longitude   |
|------------|-------------------|-----------|-------------|
| 1562       | 986b              | 56.376056 | -116.940704 |
| 1562       | 986c              | 56.36980  | -116.92500  |
| 1561       | 842b              | 56.27406  | -116.98129  |
| 1563       | Reno              | 55.86936  | -117.05739  |
| 1651       | AQHI-Cadotte Lake | 56.49022  | -116.42739  |

## **Calibration Report and Data Submission**

Hourly data and calibration reports for 2019 were submitted to Alberta's Ambient Air Data Warehouse for all stations. Data Qualifier Flags used in the monthly reports are summarized below.

| Flag | Description                          | Instrument is operational?   | Hour is valid? |
|------|--------------------------------------|------------------------------|----------------|
| С    | Calibration                          | Yes                          | No             |
| S    | Daily zero/span                      | Yes                          | No             |
| Q    | Quality assurance                    | Yes                          | No             |
| C1   | Repeat Calibration                   | Yes                          | No             |
| S1   | Repeat zero/span check               | Yes                          | No             |
| Υ    | Maintenance                          | Yes (unless otherwise noted) | No             |
| Т    | Exceeds operation temperature limits | Yes (unless otherwise noted) | No             |
| G    | Instrument out for repair            | No                           | No             |
| К    | Recording system failure             | No                           | No             |
| N    | Not in service                       | No                           | No             |
| 0    | Operator Error                       | No                           | No             |
| Р    | Power failure                        | No                           | No             |
| R    | Recovery                             | Yes                          | No             |
| Х    | Machine malfunction                  | No                           | No             |
| N    | Instrument not in service            | No                           | No             |

# **Major Operations and Maintenance Events at Continuous Monitoring Stations During 2019**

#### 986b Station:

- There were no exceedances of the AAAQOs at the 986b Station in 2019.
- Uptime was over 90% for all instruments for all months at 986b Station.
- An ambient station audit was conducted on January 16 by AEP.
- RH/ TPX: The RM Young RH/ TPX 43172VC sensor, s/n: 61012322, was removed, and a replacement RM Young RH/TPX 43182VC sensor, s/n: 030978, was installed on April 30.
- A period of elevated TRS and NMHC concentrations were recorded beginning on May 30. The cause was likely the forest fire smoke from the High Level area.
- The air monitoring station was relocated from 56.376056, -116.940704 to 56.36980, -116.92500 on August 1 in order to address the AMD siting criteria non-conformance; this nonconformance was identified during the 2018 AEP audit. All equipment were shut down on July 31 during hour 17.

#### 986c Station:

- There were no exceedances of the AAAQOs at the 986c Station in 2019.
- Uptime was over 90% for all instruments for all months at 986c Station.
- The air monitoring station was installed at 56.36980, -116.92500 on August 1. The installation calibrations were performed on the gas analyzers on August 1 and 2.
- The requirements outlined in the AMD 2016 were contravened on August 4 for all gas parameters; the daily automated zero-span check was not executed due to a datalogger programming error. AEP reference number: 357137.
- Due to a major power outage and associated instrument recovery time, the monthly operational uptimes for all parameters were less than 90% of the time in September. Total non-operational time associated with this power outage event ranged from 79 to 81 hours, depending on the parameter. AEP reference number: 358685.
- Precipitation: An EML ARG100 precipitation sensor, s/n: 190114, was installed on August 1. The sensor is designed to collect precipitation data when ambient temperature is above freezing. The sensor is programmed to collect precipitation data between April and October each year.
   Operational time less than 90% (AMD requirement) is not reported as a contravention; this instrumentation was added at the request of the landowner host.

#### 842b Station:

- There were no exceedances of the AAAQOs at the 842c Station in 2019.
- Uptime was over 90% for all instruments for all months at 842b Station.
- The requirements outlined in the AMD 2016 were contravened on September 21 for all gas parameters; the daily automated zero-span check was not executed due to a power failure event. AEP reference number: 359235.
- An ambient station audit was conducted on January 16 by AEP.
- A period of elevated TRS and NMHC concentrations were recorded beginning on May
   30. The cause was likely the forest fire smoke from the High Level area.
- WS/WD: The wind tower was extended by 1.25 meter following the annual wind system calibration on August 7 at hours 14 and 15.

#### Reno Station:

- There were no exceedances of the AAAQOs at the Reno Station in 2019.
- Uptime was over 90% for all instruments for all months at Reno Station.
- The requirements outlined in the AMD 2016 were contravened on May 4 for all gas parameters; the daily automated zero-span check was not executed due to communication issues. AEP reference number: 354358.
- An ambient station audit was conducted on January 15 by AEP.
- A period of elevated TRS and NMHC concentrations were recorded beginning on May 30. The cause was likely the forest fire smoke from the High Level area.

#### AQHI - Cadotte Lake Station:

- There were no exceedances of the AAAQOs at the AQHI Cadotte Lake Station in 2019.
- The station was installed on October 1. An installation calibration was performed on October 2 and October 3.
- All parameters met the 90% operational uptime requirement, with an exception of NOx/NO/NO2 (67.9%). During the month of October, most analyzers and support systems were in a stabilizing period following the new station's deployment in the field; data completeness that did not meet the 90% operational uptime requirement was not considered a contravention and was not reported to AEP.

#### **Special Studies**

A multi-year integrated sampling program continued operating at 986b station, 986c station, 842b station and Reno station; this program collects air samples using Silco/Summa Canisters which are analyzed in a laboratory for VOC, reduced sulphur compounds, and methane isotopes. In 2019, the canister sampling program collected a 1-hour sample of air in a canister when the continuously measured methane (CH4) and/or non-methane hydrocarbon (NMHC) concentration reached a specified trigger point. The trigger points were 5.5 ppm for methane and 0.3 ppm for non-methane hydrocarbons. Both trigger points were based on real-time monitoring data that were averaged over a 5-minute period. Analysis of these samples w ere performed by InnoTech Alberta. Analytical results were included in the monthly reports following the month of sample collections.

A total of 11 methane canister samples and 9 non-methane canister samples were collected in 2019.

| Date    | Time  | Station | Parameter | Concentration (ppm) |
|---------|-------|---------|-----------|---------------------|
| 17-Feb  | 19:25 | Reno    | Methane   | 5.95                |
| 20-Feb  | 22:05 | Reno    | Methane   | 5.5                 |
| 23-Feb  | 20:15 | Reno    | Methane   | 17.24               |
| 24-Feb  | 19:35 | Reno    | Methane   | 11.33               |
| 07-Mar* | 20:15 | Reno    | Methane   | 9.51                |
| 08-Mar  | 22:20 | Reno    | Methane   | 9.92                |
| 10-Mar  | 8:25  | Reno    | Methane   | 5.93                |
| 16-Mar  | 15:35 | Reno    | Methane   | 6.05                |
| 29-Mar  | 1:55  | Reno    | Methane   | 6.56                |
| 18-Mar  | 21:55 | Reno    | NMHC      | 0.32                |
| 19-Mar  | 18:30 | Reno    | NMHC      | 0.67                |
| 10-Apr  | 21:20 | Reno    | Methane   | 5.86                |
| 30-May  | 5:55  | 986b    | NMHC      | 0.62                |
| 30-May  | 6:05  | 842b    | NMHC      | 0.39                |
| 30-May  | 7:15  | Reno    | NMHC      | 0.37                |
| 13-Jun  | 19:40 | Reno    | NMHC      | 0.57                |
| 14-Jun  | 1:10  | 986b    | Methane   | 7.75                |
| 17-Oct  | 20:45 | Reno    | NMHC      | 0.73                |
| 05-Nov  | 22:15 | Reno    | NMHC      | 0.34                |
| 15-Nov  | 14:15 | 842b    | NMHC      | 0.36                |

<sup>\*</sup> March 7 canister event was not collected as no spare canister was available for sampling.

#### Notes:

The wildfire burning near Chuckegg Creek caused a period of elevated TRS and NMHC concentrations beginning on May 30. The canister sampling program was temporarily modified. Starting on May 30, the NMHC canister system was manually reset in the evening everyday, so it was ready for the next canister sample collection. Three NMHC canisters, representing the smoke event, from each PRAMP

station were planned to be collected using this daily reset method. After three canister samples from each station are collected using this method, the NMHC canister system will be paused; total of 9 canisters during this smoke event is expected using this sampling regime. No changes were made on the methane-triggered canister program; that component will remain in place, without modification. The standard canister sampling program resumed after smoke conditions in Peace River region improved in June.

## **Notification of Changes Made After Monthly Report Issuance**

#### 986b Station:

Monthly reports for January to July: Errors were discovered on the Monitored Data Summary. The dates of maximum 24-hour average (Max. 24-hr) for all parameters were incorrectly referred to the minimum 24-hour average. The revised Monitored Data Summaries are presented in the following pages.

| Davanastan        | Object      | ives/Gui | delines  | Ex     | kceedand | es        | Barrahli, Ava | Min 1 ha  | Nau 1 hu  | Deta/Time             | WSV     | WDV      | May 24 hr  | Data       | Operational | Valid Data (%) |
|-------------------|-------------|----------|----------|--------|----------|-----------|---------------|-----------|-----------|-----------------------|---------|----------|------------|------------|-------------|----------------|
| Parameter         | 1-hr        | 24-hr    | 30-day   | 1-hr   | 24-hr    | 30-day    | Monthly Avg.  | Min. 1-hr | Max. 1-hr | Date/Time             | (km/hr) | (sector) | Max. 24-hr | Date       | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)         | 172         | 48       | 11       | 0      | 0        | 0         | 0.8           | 0         | 4         | January 17 at hour 10 | 6.2     | E        | 2.8        | January 17 | 99.2        | 93.9           |
| TRS (ppb)         | 10          | 3        | -        | -      | -        | -         | 0.57          | 0.22      | 1.07      | January 31 at hour 4  | 9       | N        | 0.903      | January 31 | 97.6        | 92.3           |
| THC (ppm)         | -           | -        | -        | -      | -        | -         | 2.07          | 1.92      | 2.52      | January 11 at hour 9  | 2.9     | SE       | 2.20       | January 13 | 92.5        | 88.6           |
| CH4 (ppm)         | -           | -        | -        | -      | -        | -         | 2.07          | 1.92      | 2.52      | January 11 at hour 9  | 2.9     | SE       | 2.20       | January 13 | 92.5        | 88.6           |
| NMHC (ppm)        | -           | -        | -        | -      | -        | -         | 0.00          | 0.00      | 0.05      | January 14 at hour 3  | 5.8     | SSW      | 0.00       | January 1  | 92.5        | 88.6           |
| RH (%)            | -           | -        | -        | -      | -        | -         | 78.7          | 58        | 100       | January 12 at hour 19 | 4.7     | SE       | 95.8       | January 13 | 99.2        | 99.2           |
| BP (millibar)     | -           | -        | -        | -      | -        | -         | 941           | 921       | 959       | January 27 at hour 21 | 7       | NNW      | 958        | January 28 | 99.2        | 99.2           |
| Ext. Temp. (°C)   | -           | -        | -        | -      | -        | -         | -10.5         | -30.6     | 7.4       | January 26 at hour 22 | 20.5    | W        | 5.0        | January 26 | 99.2        | 99.2           |
| Stn. Temp. (°C)   | -           | -        | -        | -      | -        | -         | 21.3          | -1.6      | 26.1      | January 7 at hour 7   | 15.8    | NW       | 24.6       | January 16 | 99.2        | 99.2           |
| WSV (km/hr)       | -           | -        | -        | -      | -        | -         | 0.4           | 0.3       | 26.6      | January 27 at hour 0  | 26.6    | WNW      | 13.1       | January 27 | 99.2        | 99.2           |
| WDV (sector)      | -           | -        | -        | -      | -        | -         | 263(W)        | -         | -         | -                     | -       | -        | -          | -          | 99.2        | 99.2           |
| 1 Data/Time given | ic the fire | t minim  | ım and m | zvimum | value th | at were i | recorded      |           |           |                       |         |          |            |            |             |                |

| Object | ives/Gui                                   | delines                | E   | ceedanc   | es  | Monthly Ava  | Min 1 hr  | May 1 hr   | Data/Time  | vws  | VWD  | May 24 hr  | Data  | Operational  | Valid Data (%)   |
|--------|--|------------------------|---|---|---|--|---|--|--|--|--|--|---|--|--|
| 1-hr   | 24-hr                                      | 30-day                 | 1-hr  | 24-hr   | 30-day  | iviontiny Avg.   | Willi. 1-III  | IVIdX. 1-III   | Date/ fillle   | (km/hr)  | (sector)   | IVIAX. 24-III  | Date  | Uptime (%)   | Vallu Data (%)   |
| 172    | 48   | 11                     | 0   | 0   | 0   | 0.1  | 0   | 8  | February 5 at hour 17  | 1.1  | WSW  | 0.9  | February 5  | 99.9   | 95.1   |
| 10     | 3  | -                      | -   | -   | -   | 0.11   | 0.00  | 0.84   | February 6 at hour 9   | 2.9  | ESE  | 0.28   | February 25   | 99.9   | 94.8   |
|        | -  | -                      | -   | -   | -   | 2.11   | 1.99  | 2.78   | February 14 at hour 6  | 2.2  | E  | 2.33   | February 14   | 99.9   | 94.8   |
| -      | -  | -                      | -   | -   | -   | 2.11   | 1.99  | 2.69   | February 14 at hour 6  | 2.2  | E  | 2.31   | February 14   | 99.9   | 94.8   |
| -      | -  | -                      | -   | -   | -   | 0.00   | 0.00  | 0.09   | February 14 at hour 6  | 2.2  | E  | 0.02   | February 14   | 99.9   | 94.8   |
|        | -  | -                      | -   | -   | -   | 64.3   | 38  | 95   | February 19 at hour 20   | 1.9  | S  | 81.5   | February 19   | 100.0  | 100.0  |
| -      | -  | -                      | -   | -   | -   | 949  | 930   | 974  | February 9 at hour 0   | 2  | ESE  | 965  | February 8  | 100.0  | 100.0  |
| -      | -  | -                      | -   | -   | -   | -22.2  | -41.0   | -1.3   | February 27 at hour 16   | 11.5   | WNW  | -6.0   | February 27   | 100.0  | 100.0  |
| -      | -  | -                      | -   | -   | -   | 20.7   | 20.0  | 21.6   | February 27 at hour 10   | 14.4   | NW   | 20.9   | February 20   | 100.0  | 100.0  |
| -      | -  | -                      | -   | -   | -   | 0.5  | 0.2   | 19.0   | February 21 at hour 12   | 19   | S  | 10.4   | February 18   | 100.0  | 100.0  |
|        | 1-hr<br>172<br>10<br>-<br>-<br>-<br>-<br>- | 1-hr 24-hr 172 48 10 3 | 172 48 11<br>10 3 -<br><br><br><br><br><br> | 1-hr         24-hr         30-day         1-hr           172         48         11         0           10         3         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         - | 1-hr         24-hr         30-day         1-hr         24-hr           172         48         11         0         0           10         3         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         - <td>1-hr         24-hr         30-day         1-hr         24-hr         30-day           172         48         11         0         0         0           10         3         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           <td< td=""><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.           172         48         11         0         0         0         0.1           10         3         -         -         -         -         0.11           -         -         -         -         -         2.11           -         -         -         -         -         2.11           -         -         -         -         0.00           -         -         -         -         64.3           -         -         -         -         949           -         -         -         -         -22.2           -         -         -         -         -         20.7</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr           172         48         11         0         0         0         0.1         0           10         3         -         -         -         -         0.11         0.00           -         -         -         -         -         2.11         1.99           -         -         -         -         -         2.11         1.99           -         -         -         -         -         0.00         0.00           -         -         -         -         -         64.3         38           -         -         -         -         -         949         930           -<!--</td--><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr           172         48         11         0         0         0         0.1         0         8           10         3         -         -         -         -         0.11         0.00         0.84           -         -         -         -         -         2.11         1.99         2.78           -         -         -         -         -         2.11         1.99         2.69           -         -         -         -         -         0.00         0.00         0.09           -         -         -         -         -         64.3         38         95           -         -         -         -         949         930         974           -         -         -         -         -         -22.2         -41.0         -1.3           -         -         -         -         -         20.7         20.0         21.6</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9           -         -         -         -         -         2.78         February 14 at hour 6           -         -         -         -         -         2.69         February 14 at hour 6           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6           -         -         -         -         -         64.3         38         95         February 19 at hour 20           -         -         -         -         949         930         974         February 9 at hour 0           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime         (km/hr)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1           10         3         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9           -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2           -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2           -         -         -         -         64.3         38         95         February 19 at hour 20         1.9           -         -         -         -         949         930         974         February 27 at hour 16         11.5           -         -         -         -         -         <td< td=""><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/Time         (km/hr)         (sector)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE           -         -         -         -         -         -         2.21         E           -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2         E           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2         E           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E           -         -         -         -         -         64.3         38         95         February 19 at hour 20         <td< td=""><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime         (km/hr)         (sector)         Max. 24-hr           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28           -         -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2         E         2.33           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2         E         2.31           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02           -         -         -         -         -         64.3         38         95         February 19 at hour 20         1.9</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/lime         (km/hr)         (sector)         Max. 24-hr         Date           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9         February 5           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28         February 25           -         -         -         -         -         -         2.2         E         2.33         February 14           -         -         -         -         -         -         2.2         E         2.31         February 14           -         -         -         -         -         -         -         2.2         E         2.31         February 14           -         -         -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02         Februa</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/lime         (km/hr)         (sector)         Max. 24-hr         Date         Uptime (%)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9         February 5         99.9           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28         February 25         99.9           -         -         -         -         -         -         2.2         E         2.33         February 14         99.9           -         -         -         -         -         -         2.2         E         2.31         February 14         99.9           -         -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02         February 14         99.9           -</td></td<></td></td<></td></td></td<></td> | 1-hr         24-hr         30-day         1-hr         24-hr         30-day           172         48         11         0         0         0           10         3         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         - <td< td=""><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.           172         48         11         0         0         0         0.1           10         3         -         -         -         -         0.11           -         -         -         -         -         2.11           -         -         -         -         -         2.11           -         -         -         -         0.00           -         -         -         -         64.3           -         -         -         -         949           -         -         -         -         -22.2           -         -         -         -         -         20.7</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr           172         48         11         0         0         0         0.1         0           10         3         -         -         -         -         0.11         0.00           -         -         -         -         -         2.11         1.99           -         -         -         -         -         2.11         1.99           -         -         -         -         -         0.00         0.00           -         -         -         -         -         64.3         38           -         -         -         -         -         949         930           -<!--</td--><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr           172         48         11         0         0         0         0.1         0         8           10         3         -         -         -         -         0.11         0.00         0.84           -         -         -         -         -         2.11         1.99         2.78           -         -         -         -         -         2.11         1.99         2.69           -         -         -         -         -         0.00         0.00         0.09           -         -         -         -         -         64.3         38         95           -         -         -         -         949         930         974           -         -         -         -         -         -22.2         -41.0         -1.3           -         -         -         -         -         20.7         20.0         21.6</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9           -         -         -         -         -         2.78         February 14 at hour 6           -         -         -         -         -         2.69         February 14 at hour 6           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6           -         -         -         -         -         64.3         38         95         February 19 at hour 20           -         -         -         -         949         930         974         February 9 at hour 0           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime         (km/hr)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1           10         3         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9           -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2           -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2           -         -         -         -         64.3         38         95         February 19 at hour 20         1.9           -         -         -         -         949         930         974         February 27 at hour 16         11.5           -         -         -         -         -         <td< td=""><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/Time         (km/hr)         (sector)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE           -         -         -         -         -         -         2.21         E           -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2         E           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2         E           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E           -         -         -         -         -         64.3         38         95         February 19 at hour 20         <td< td=""><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime         (km/hr)         (sector)         Max. 24-hr           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28           -         -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2         E         2.33           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2         E         2.31           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02           -         -         -         -         -         64.3         38         95         February 19 at hour 20         1.9</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/lime         (km/hr)         (sector)         Max. 24-hr         Date           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9         February 5           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28         February 25           -         -         -         -         -         -         2.2         E         2.33         February 14           -         -         -         -         -         -         2.2         E         2.31         February 14           -         -         -         -         -         -         -         2.2         E         2.31         February 14           -         -         -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02         Februa</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/lime         (km/hr)         (sector)         Max. 24-hr         Date         Uptime (%)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9         February 5         99.9           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28         February 25         99.9           -         -         -         -         -         -         2.2         E         2.33         February 14         99.9           -         -         -         -         -         -         2.2         E         2.31         February 14         99.9           -         -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02         February 14         99.9           -</td></td<></td></td<></td></td></td<> | 1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.           172         48         11         0         0         0         0.1           10         3         -         -         -         -         0.11           -         -         -         -         -         2.11           -         -         -         -         -         2.11           -         -         -         -         0.00           -         -         -         -         64.3           -         -         -         -         949           -         -         -         -         -22.2           -         -         -         -         -         20.7 | 1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr           172         48         11         0         0         0         0.1         0           10         3         -         -         -         -         0.11         0.00           -         -         -         -         -         2.11         1.99           -         -         -         -         -         2.11         1.99           -         -         -         -         -         0.00         0.00           -         -         -         -         -         64.3         38           -         -         -         -         -         949         930           - </td <td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr           172         48         11         0         0         0         0.1         0         8           10         3         -         -         -         -         0.11         0.00         0.84           -         -         -         -         -         2.11         1.99         2.78           -         -         -         -         -         2.11         1.99         2.69           -         -         -         -         -         0.00         0.00         0.09           -         -         -         -         -         64.3         38         95           -         -         -         -         949         930         974           -         -         -         -         -         -22.2         -41.0         -1.3           -         -         -         -         -         20.7         20.0         21.6</td> <td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9           -         -         -         -         -         2.78         February 14 at hour 6           -         -         -         -         -         2.69         February 14 at hour 6           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6           -         -         -         -         -         64.3         38         95         February 19 at hour 20           -         -         -         -         949         930         974         February 9 at hour 0           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td> <td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime         (km/hr)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1           10         3         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9           -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2           -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2           -         -         -         -         64.3         38         95         February 19 at hour 20         1.9           -         -         -         -         949         930         974         February 27 at hour 16         11.5           -         -         -         -         -         <td< td=""><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/Time         (km/hr)         (sector)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE           -         -         -         -         -         -         2.21         E           -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2         E           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2         E           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E           -         -         -         -         -         64.3         38         95         February 19 at hour 20         <td< td=""><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime         (km/hr)         (sector)         Max. 24-hr           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28           -         -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2         E         2.33           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2         E         2.31           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02           -         -         -         -         -         64.3         38         95         February 19 at hour 20         1.9</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/lime         (km/hr)         (sector)         Max. 24-hr         Date           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9         February 5           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28         February 25           -         -         -         -         -         -         2.2         E         2.33         February 14           -         -         -         -         -         -         2.2         E         2.31         February 14           -         -         -         -         -         -         -         2.2         E         2.31         February 14           -         -         -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02         Februa</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/lime         (km/hr)         (sector)         Max. 24-hr         Date         Uptime (%)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9         February 5         99.9           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28         February 25         99.9           -         -         -         -         -         -         2.2         E         2.33         February 14         99.9           -         -         -         -         -         -         2.2         E         2.31         February 14         99.9           -         -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02         February 14         99.9           -</td></td<></td></td<></td> | 1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr           172         48         11         0         0         0         0.1         0         8           10         3         -         -         -         -         0.11         0.00         0.84           -         -         -         -         -         2.11         1.99         2.78           -         -         -         -         -         2.11         1.99         2.69           -         -         -         -         -         0.00         0.00         0.09           -         -         -         -         -         64.3         38         95           -         -         -         -         949         930         974           -         -         -         -         -         -22.2         -41.0         -1.3           -         -         -         -         -         20.7         20.0         21.6 | 1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9           -         -         -         -         -         2.78         February 14 at hour 6           -         -         -         -         -         2.69         February 14 at hour 6           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6           -         -         -         -         -         64.3         38         95         February 19 at hour 20           -         -         -         -         949         930         974         February 9 at hour 0           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - | 1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime         (km/hr)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1           10         3         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9           -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2           -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2           -         -         -         -         64.3         38         95         February 19 at hour 20         1.9           -         -         -         -         949         930         974         February 27 at hour 16         11.5           -         -         -         -         - <td< td=""><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/Time         (km/hr)         (sector)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE           -         -         -         -         -         -         2.21         E           -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2         E           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2         E           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E           -         -         -         -         -         64.3         38         95         February 19 at hour 20         <td< td=""><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime         (km/hr)         (sector)         Max. 24-hr           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28           -         -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2         E         2.33           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2         E         2.31           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02           -         -         -         -         -         64.3         38         95         February 19 at hour 20         1.9</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/lime         (km/hr)         (sector)         Max. 24-hr         Date           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9         February 5           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28         February 25           -         -         -         -         -         -         2.2         E         2.33         February 14           -         -         -         -         -         -         2.2         E         2.31         February 14           -         -         -         -         -         -         -         2.2         E         2.31         February 14           -         -         -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02         Februa</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/lime         (km/hr)         (sector)         Max. 24-hr         Date         Uptime (%)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9         February 5         99.9           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28         February 25         99.9           -         -         -         -         -         -         2.2         E         2.33         February 14         99.9           -         -         -         -         -         -         2.2         E         2.31         February 14         99.9           -         -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02         February 14         99.9           -</td></td<></td></td<> | 1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/Time         (km/hr)         (sector)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE           -         -         -         -         -         -         2.21         E           -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2         E           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2         E           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E           -         -         -         -         -         64.3         38         95         February 19 at hour 20 <td< td=""><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime         (km/hr)         (sector)         Max. 24-hr           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28           -         -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2         E         2.33           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2         E         2.31           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02           -         -         -         -         -         64.3         38         95         February 19 at hour 20         1.9</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/lime         (km/hr)         (sector)         Max. 24-hr         Date           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9         February 5           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28         February 25           -         -         -         -         -         -         2.2         E         2.33         February 14           -         -         -         -         -         -         2.2         E         2.31         February 14           -         -         -         -         -         -         -         2.2         E         2.31         February 14           -         -         -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02         Februa</td><td>1-hr         24-hr         30-day         1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/lime         (km/hr)         (sector)         Max. 24-hr         Date         Uptime (%)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9         February 5         99.9           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28         February 25         99.9           -         -         -         -         -         -         2.2         E         2.33         February 14         99.9           -         -         -         -         -         -         2.2         E         2.31         February 14         99.9           -         -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02         February 14         99.9           -</td></td<> | 1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/ lime         (km/hr)         (sector)         Max. 24-hr           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28           -         -         -         -         -         -         2.11         1.99         2.78         February 14 at hour 6         2.2         E         2.33           -         -         -         -         -         2.11         1.99         2.69         February 14 at hour 6         2.2         E         2.31           -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02           -         -         -         -         -         64.3         38         95         February 19 at hour 20         1.9 | 1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/lime         (km/hr)         (sector)         Max. 24-hr         Date           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9         February 5           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28         February 25           -         -         -         -         -         -         2.2         E         2.33         February 14           -         -         -         -         -         -         2.2         E         2.31         February 14           -         -         -         -         -         -         -         2.2         E         2.31         February 14           -         -         -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02         Februa | 1-hr         24-hr         30-day         1-hr         24-hr         30-day         1-hr         24-hr         30-day         Monthly Avg.         Min. 1-hr         Max. 1-hr         Date/lime         (km/hr)         (sector)         Max. 24-hr         Date         Uptime (%)           172         48         11         0         0         0         0.1         0         8         February 5 at hour 17         1.1         WSW         0.9         February 5         99.9           10         3         -         -         -         -         0.11         0.00         0.84         February 6 at hour 9         2.9         ESE         0.28         February 25         99.9           -         -         -         -         -         -         2.2         E         2.33         February 14         99.9           -         -         -         -         -         -         2.2         E         2.31         February 14         99.9           -         -         -         -         -         -         0.00         0.00         0.09         February 14 at hour 6         2.2         E         0.02         February 14         99.9           - |

WDV (sector) - - - - - 311(N

1- Date/ Time given is the first minimum and maximum value that was recorded

| Daven et ex         | Object   | ives/Gui | delines | E    | cceedanc | es     | Manthh. Ava  | Min 1 ha  | Max. 1-hr   | Date/Time           | VWS     | VWD      | Max. 24-hr   | Data     | Operational | Valid Data (%) |
|---------------------|--|----------|---------|------|----------|--------|--------------|-----------|-------------|---------------------|---------|----------|--------------|----------|-------------|----------------|
| Parameter           | 1-hr   | 24-hr    | 30-day  | 1-hr | 24-hr    | 30-day | Monthly Avg. | Min. 1-hr | iviax. 1-nr | Date/ Time          | (km/hr) | (sector) | Iviax. 24-nr | Date     | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172  | 48       | 11      | 0    | 0        | 0      | 0.3          | 0         | 2           | March 18 at hour 6  | 4.7     | SSE      | 1.6          | March 19 | 100.0       | 95.0           |
| TRS (ppb)           | 10   | 3        | -       | -    | -        | -      | 0.20         | 0.06      | 0.96        | March 2 at hour 8   | 2.2     | ESE      | 0.37         | March 2  | 100.0       | 95.1           |
| THC (ppm)           | -  | -        | -       | -    | -        | -      | 2.04         | 1.92      | 2.66        | March 2 at hour 8   | 2.2     | ESE      | 2.21         | March 9  | 100.0       | 95.1           |
| CH4 (ppm)           | -  | -        | -       | -    | -        | -      | 2.04         | 1.92      | 2.64        | March 2 at hour 8   | 2.2     | ESE      | 2.20         | March 9  | 100.0       | 95.1           |
| NMHC (ppm)          | -  | -        | -       | -    | -        | -      | 0.00         | 0.00      | 0.05        | March 9 at hour 7   | 2.7     | ESE      | 0.01         | March 9  | 100.0       | 95.1           |
| RH (%)              | -  | -        | -       | -    | -        | -      | 59.3         | 19        | 100         | March 26 at hour 9  | 2.5     | WNW      | 77.2         | March 25 | 100.0       | 100.0          |
| BP (millibar)       | -  | -        | -       | -    | -        | -      | 947          | 923       | 973         | March 2 at hour 3   | 1.9     | ESE      | 970          | March 2  | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -  | -        | -       | -    | -        | -      | -2.7         | -37.2     | 19.2        | March 21 at hour 16 | 3.8     | W        | 8.3          | March 21 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -  | -        | -       | -    | -        | -      | 21.1         | 19.7      | 25.1        | March 21 at hour 16 | 3.8     | W        | 21.9         | March 21 | 100.0       | 100.0          |
| WSV (km/hr)         | -  | -        | -       | -    | -        | -      | 2.1          | 0.1       | 17.5        | March 14 at hour 13 | 17.5    | S        | 10.0         | March 10 | 100.0       | 100.0          |
| WDV (sector)        | -  | -        | -       | -    | =        | -      | 197(SSW)     | -         | -           | I.                  | -       | -        | -            | =        | 100.0       | 100.0          |
| 1- Date/ Time given | ate/ Time given is the first minimum and maximum value that was recorded |          |         |      |          |        |              |           |             |                     |         |          |              |          |             |                |

| 24-hr<br>48<br>3<br>- | 30-day<br>11<br>-<br>- | 1-hr<br>0<br>- | <b>24-hr</b><br>0 | <b>30-day</b><br>0 | 0.7       | <b>Min. 1-hr</b><br>0     | Max. 1-hr  | Date/Time  April 29 at hour 8   | (km/hr)   | (sector)  | Max. 24-hr   | Date   | Uptime (%)  | Valid Data (%)   |
|-----------------------|------------------------|----------------|-------------------|--------------------|-----------|---------------------------|--|---|---|---|--|--|---|--|
| 48<br>3<br>-          | 11<br>-<br>-           | -              | -                 | 0 -                |           | 0                         | 3  | April 20 at hour 9  | 0.0   |   |  |  |   |  |
| 3                     | -                      | -              | -                 | -                  |           |                           |  | April 29 at hour o  | 8.2   | WNW   | 1.1  | April 18   | 100.0   | 94.8   |
| -                     | -                      | _              |                   | 1                  | 0.17      | 0.05                      | 0.72   | April 11 at hour 15   | 11.8  | SSE   | 0.25   | April 29   | 100.0   | 94.7   |
|                       |                        |                | -                 | -                  | 2.01      | 1.93                      | 2.60   | April 15 at hour 1  | 3.5   | NW  | 2.07   | April 29   | 99.4  | 94.4   |
| -                     | -                      | -              | -                 | -                  | 2.01      | 1.93                      | 2.60   | April 15 at hour 1  | 3.5   | NW  | 2.07   | April 29   | 99.4  | 94.4   |
| -                     | -                      | -              | -                 | -                  | 0.00      | 0.00                      | 0.01   | April 13 at hour 21   | 1.8   | ESE   | 0.00   | April 13   | 99.4  | 94.4   |
| -                     | -                      | -              | -                 | -                  | 55.6      | 16                        | 100  | April 6 at hour 18  | 7   | NW  | 85.5   | April 6  | 99.3  | 99.3   |
| -                     | -                      | -              | -                 | -                  | 940       | 924                       | 955  | April 28 at hour 10   | 8.9   | NW  | 954  | April 28   | 99.3  | 99.3   |
| -                     | -                      | -              | -                 | -                  | 4.5       | -8.4                      | 16.5   | April 18 at hour 14   | 15.7  | WSW   | 10.4   | April 22   | 99.3  | 99.3   |
| -                     | -                      | -              | -                 | -                  | 21.5      | 20.4                      | 24.0   | April 9 at hour 15  | 9   | SW  | 22.0   | April 9  | 99.7  | 99.7   |
| -                     | -                      | -              | -                 | -                  | 1.8       | 0.0                       | 23.7   | April 24 at hour 16   | 23.7  | WNW   | 11.4   | April 18   | 99.7  | 99.3   |
| -                     | -                      | -              | -                 | -                  | 251 (WSW) | -                         | -  | -   | -   | -   | -  | =  | 99.7  | 99.3   |
|                       | -<br>-<br>-<br>-<br>-  |                |                   |                    |           | 55.6<br>940<br>4.5<br>1.8 | 55.6 16<br>940 924<br>4.5 -8.4<br>21.5 20.4<br>1.8 0.0 | 55.6 16 100<br>940 924 955<br>4.5 -8.4 16.5<br>21.5 20.4 24.0<br>1.8 0.0 23.7 | 55.6 16 100 April 6 at hour 18 940 924 955 April 28 at hour 10 4.5 -8.4 16.5 April 18 at hour 14 21.5 20.4 24.0 April 9 at hour 15 1.8 0.0 23.7 April 24 at hour 16 | 55.6 16 100 April 6 at hour 18 7 940 924 955 April 28 at hour 10 8.9 4.5 -8.4 16.5 April 18 at hour 14 15.7 21.5 20.4 24.0 April 9 at hour 15 9 1.8 0.0 23.7 April 24 at hour 16 23.7 | 55.6 16 100 April 6 at hour 18 7 NW 940 924 955 April 28 at hour 10 8.9 NW 4.5 -8.4 16.5 April 18 at hour 14 15.7 WSW 21.5 20.4 24.0 April 9 at hour 15 9 SW 1.8 0.0 23.7 April 24 at hour 16 23.7 WNW | 55.6 16 100 April 6 at hour 18 7 NW 85.5  940 924 955 April 28 at hour 10 8.9 NW 954  4.5 -8.4 16.5 April 18 at hour 14 15.7 WSW 10.4  21.5 20.4 24.0 April 9 at hour 15 9 SW 22.0  1.8 0.0 23.7 April 24 at hour 16 23.7 WNW 11.4 | 55.6 16 100 April 6 at hour 18 7 NW 85.5 April 6 940 924 955 April 28 at hour 10 8.9 NW 954 April 28 4.5 -8.4 16.5 April 18 at hour 14 15.7 WSW 10.4 April 22 21.5 20.4 24.0 April 9 at hour 15 9 SW 22.0 April 9 1.8 0.0 23.7 April 24 at hour 16 23.7 WNW 11.4 April 18 | 55.6 16 100 April 6 at hour 18 7 NW 85.5 April 6 99.3 940 924 955 April 28 at hour 10 8.9 NW 954 April 28 99.3 4.5 -8.4 16.5 April 18 at hour 14 15.7 WSW 10.4 April 22 99.3 21.5 20.4 24.0 April 9 at hour 15 9 SW 22.0 April 9 99.7 1.8 0.0 23.7 April 24 at hour 16 23.7 WNW 11.4 April 18 99.7 |

|  | ate/Time given is the first minimum and maximum value that was reco | rded |
|--|---|------|
|--|---|------|

| Danamatan.      | Object | ives/Gui | delines | E    | cceedanc | es     | Namethia Ave | Min. 1-hr   | Man 1 ha  | Date/Time         | VWS     | VWD      | Max. 24-hr   | Date   | Operational | Valid Data (%) |
|-----------------|--------|----------|---------|------|----------|--------|--------------|-------------|-----------|-------------------|---------|----------|--------------|--------|-------------|----------------|
| Parameter       | 1-hr   | 24-hr    | 30-day  | 1-hr | 24-hr    | 30-day | Monthly Avg. | IVIIN. 1-NF | Max. 1-hr | Date/ lime        | (km/hr) | (sector) | iviax. 24-nr | Date   | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)       | 172    | 48       | 11      | 0    | 0        | 0      | 0.9          | 0           | 4         | May 30 at hour 8  | 9.3     | N        | 2.7          | May 30 | 100.0       | 94.9           |
| TRS (ppb)       | 10     | 3        | -       | -    | -        | -      | 0.35         | 0.10        | 3.67      | May 30 at hour 6  | 10      | N        | 2.17         | May 30 | 100.0       | 94.9           |
| THC (ppm)       | -      | -        | -       | -    | -        | -      | 2.02         | 1.90        | 3.14      | May 30 at hour 6  | 10      | N        | 2.46         | May 30 | 99.7        | 94.5           |
| CH4 (ppm)       | -      | -        | -       | -    | -        | -      | 2.01         | 1.90        | 2.71      | May 23 at hour 1  | 0.5     | NNE      | 2.23         | May 30 | 99.7        | 94.5           |
| NMHC (ppm)      | -      | -        | -       | -    | -        | -      | 0.01         | 0.00        | 0.57      | May 30 at hour 6  | 10      | N        | 0.23         | May 30 | 99.7        | 94.5           |
| RH (%)          | -      | -        | -       | -    | -        | -      | 44.3         | 14          | 94        | May 14 at hour 4  | 1.8     | ESE      | 69.0         | May 1  | 100.0       | 100.0          |
| BP (millibar)   | -      | -        | -       | -    | -        | -      | 942          | 929         | 951       | May 8 at hour 7   | 2.3     | WSW      | 950          | May 8  | 100.0       | 100.0          |
| Ext. Temp. (°C) | -      | -        | -       | -    | -        | -      | 11.1         | -9.7        | 29.9      | May 28 at hour 16 | 8.1     | W        | 21.7         | May 28 | 100.0       | 100.0          |
| Stn. Temp. (°C) | -      | -        | -       | -    | -        | -      | 22.1         | 19.7        | 28.1      | May 20 at hour 15 | 15.2    | SE       | 23.8         | May 20 | 100.0       | 100.0          |
| WSV (km/hr)     | -      | -        | -       | -    | -        | -      | 1.6          | 0.2         | 31.2      | May 9 at hour 14  | 31.2    | WNW      | 17.4         | May 18 | 100.0       | 100.0          |
| WDV (sector)    | -      | -        | -       | -    | -        | -      | 116 (ESE)    | -           | -         | -                 | -       | -        | -            | -      | 100.0       | 100.0          |
| 1 5 . /=: :     |        |          |         |      |          |        |              |             |           |                   |         |          |              |        |             |                |

<sup>1-</sup> Date/ Time given is the first minimum and maximum value that was recorded

| Danamatan       | Object | ives/Gui | delines | E    | ceedanc | es     | Name block   | Min. 1-hr   | Dani a hii | Date/Time          | vws     | VWD      | Max. 24-hr   | Data    | Operational | Valid Data (0/) |
|-----------------|--------|----------|---------|------|---------|--------|--------------|-------------|------------|--------------------|---------|----------|--------------|---------|-------------|-----------------|
| Parameter       | 1-hr   | 24-hr    | 30-day  | 1-hr | 24-hr   | 30-day | Monthly Avg. | IVIIN. 1-NF | Max. 1-hr  | Date/Time          | (km/hr) | (sector) | iviax. 24-nr | Date    | Uptime (%)  | Valid Data (%)  |
| SO2 (ppb)       | 172    | 48       | 11      | 0    | 0       | 0      | 0.1          | 0           | 2          | June 1 at hour 0   | 6.5     | ESE      | 0.6          | June 1  | 98.8        | 93.4            |
| TRS (ppb)       | 10     | 3        | -       | -    | -       | -      | 0.58         | 0.01        | 2.97       | June 14 at hour 3  | 1.1     | SE       | 0.81         | June 14 | 93.5        | 88.9            |
| THC (ppm)       | -      | -        | -       | -    | -       | -      | 1.99         | 1.87        | 3.07       | June 14 at hour 1  | 1.6     | NNW      | 2.11         | June 14 | 98.8        | 93.9            |
| CH4 (ppm)       | -      | -        | -       | -    | -       | -      | 1.99         | 1.87        | 3.07       | June 14 at hour 1  | 1.6     | NNW      | 2.11         | June 14 | 98.8        | 93.9            |
| NMHC (ppm)      | -      | -        | -       | -    | -       | -      | 0.00         | 0.00        | 0.05       | June 1 at hour 0   | 6.5     | ESE      | 0.00         | June 1  | 98.8        | 93.9            |
| RH (%)          | -      | -        | -       | -    | -       | -      | 66.6         | 20          | 100        | June 5 at hour 3   | 1       | ESE      | 92.9         | June 20 | 98.9        | 98.9            |
| BP (millibar)   | -      | -        | -       | -    | -       | -      | 941          | 933         | 949        | June 9 at hour 6   | 4.1     | SSW      | 948          | June 9  | 98.9        | 98.9            |
| Ext. Temp. (°C) | -      | -        | -       | -    | -       | -      | 13.9         | -0.4        | 27.8       | June 17 at hour 16 | 14.1    | SSE      | 20.4         | June 17 | 98.9        | 98.9            |
| Stn. Temp. (°C) | -      | -        | -       | -    | -       | -      | 23.0         | 20.3        | 28.9       | June 27 at hour 17 | 6.9     | ESE      | 25.7         | June 27 | 98.9        | 98.9            |
| WSV (km/hr)     | -      | -        | -       | -    | -       | -      | 1.7          | 0.0         | 22.9       | June 2 at hour 2   | 22.9    | WNW      | 9.6          | June 18 | 98.9        | 98.9            |
| WDV (sector)    | -      | -        | -       | -    | -       | -      | 285 (WNW)    | -           | -          | -                  | -       | -        | -            | -       | 98.9        | 98.9            |

| Parameter           | Object  | ives/Gui | delines | E)   | kceedanc | es     | Barrelli, Arre | Min. 1-hr     | Max. 1-hr    | Date/Time          | VWS     | VWD      | Max. 24-hr    | Date    | Operational | Valid Data (%) |
|---------------------|---|----------|---------|------|----------|--------|----------------|---------------|--------------|--------------------|---------|----------|---------------|---------|-------------|----------------|
| Parameter           | 1-hr  | 24-hr    | 30-day  | 1-hr | 24-hr    | 30-day | Monthly Avg.   | IVIIII. 1-III | IVIdX. 1-III | Date/ fille        | (km/hr) | (sector) | IVIdX. 24-III | Date    | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172   | 48       | 11      | 0    | 0        | 0      | 0.0            | 0             | 0            | July 1 at hour 0   | 9.8     | NNW      | 0.0           | July 1  | 95.3        | 90.8           |
| TRS (ppb)           | 10  | 3        | -       | -    | -        | -      | 0.73           | 0.00          | 2.23         | July 6 at hour 5   | 2.5     | ESE      | 1.03          | July 6  | 98.9        | 93.8           |
| THC (ppm)           | -   | -        | -       | -    | -        | -      | 2.04           | 1.89          | 3.02         | July 24 at hour 4  | 2       | NE       | 2.15          | July 22 | 98.9        | 94.1           |
| CH4 (ppm)           | -   | -        | -       | -    | -        | -      | 2.04           | 1.89          | 3.02         | July 24 at hour 4  | 2       | NE       | 2.15          | July 22 | 98.9        | 94.1           |
| NMHC (ppm)          | -   | -        | -       | •    | -        | -      | 0.00           | 0.00          | 0.04         | July 19 at hour 12 | 6.1     | NNW      | 0.00          | July 19 | 98.9        | 94.1           |
| RH (%)              | -   | -        | -       | -    | -        | -      | 77.0           | 33            | 100          | July 8 at hour 22  | 1.6     | SSE      | 97.3          | July 25 | 98.7        | 98.7           |
| BP (millibar)       | -   | -        | -       | -    | -        | -      | 941            | 927           | 954          | July 5 at hour     | 0.8     | ESE      | 953           | July 5  | 98.7        | 98.7           |
| Ext. Temp. (°C)     | -   | -        | -       | •    | -        | -      | 15.2           | 1.0           | 28.2         | July 22 at hour 17 | 3.8     | NW       | 21.1          | July 23 | 98.7        | 98.7           |
| Stn. Temp. (°C)     | -   | -        | -       | -    | -        | -      | 21.9           | 19.4          | 28.1         | July 20 at hour 4  | 3.7     | SSE      | 23.6          | July 20 | 99.9        | 99.9           |
| WSV (km/hr)         | -   | -        | -       | -    | -        | -      | 1.6            | 0.1           | 17.6         | July 3 at hour 13  | 17.6    | WNW      | 10.0          | July 1  | 98.9        | 98.9           |
| WDV (sector)        | -   | -        | -       | -    | -        | -      | 269 (W)        | -             | -            | -                  | -       |          | -             | -       | 98.9        | 98.9           |
| 1- Date/ Time given | Date/ Time given is the first minimum and maximum value that was recorded |          |         |      |          |        |                |               |              |                    |         |          |               |         |             |                |

#### 986c Station:

Monthly reports for August, September, October, November and December: An error was discovered on the Summary of Hourly Averages and Summary of Hourly Instantaneous Maximums for all parameters. Incorrect dates of Maximum Daily Value (Max. 24-hr) were displayed on the summary table. The error was due to an incorrect formula being setup on the report template, which was used for the report preparation. The correct dates of Max. 24-hr are presented on the revised Monitored Data Summaries, which are presented in the following pages.

Monthly reports for August to December: Errors were discovered on the Monitored Data Summary. The dates of maximum 24-hour average (Max. 24-hr) for all parameters were referred to the minimum 24-hour average instead. The revised Monitored Data Summaries are presented in the following pages.

| Parameter             | Object     | ives/Gui | delines  | E       | xcee dan o | es        | Monthly Avg.   | Min. 1-hr     | Max. 1-hr    | Date/Time            | VWS     | VWD      | Max. 24-hr    | Dat e     | Operational | Valid Data (%) |
|-----------------------|------------|----------|----------|---------|------------|-----------|----------------|---------------|--------------|----------------------|---------|----------|---------------|-----------|-------------|----------------|
| Parameter             | 1-hr       | 24-hr    | 30-day   | 1-hr    | 24-hr      | 30-day    | IVIORENTY AVE. | IVIIII. 1-III | IVIAX. 1-III | Date/ filme          | (km/hr) | (sector) | IVIAX. 24-FIF | Date      | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)             | 172        | 48       | 11       | 0       | 0          | 0         | 0.0            | 0             | 2            | August 30 at hour 9  | 1.2     | NE       | 0.1           | August 30 | 95.0        | 90.3           |
| TRS (ppb)             | 10         | 3        | -        | -       | -          | -         | 0.71           | 0.02          | 2.55         | August 14 at hour 20 | 4.8     | S        | 1.00          | August 7  | 92.3        | 87.6           |
| THC (ppm)             | -          | -        | -        | -       | -          | -         | 1.98           | 1.88          | 2.38         | August 10 at hour 6  | 4.2     | ESE      | 2.07          | August 29 | 95.0        | 90.3           |
| CH4 (ppm)             | -          | -        | -        | -       | -          | -         | 1.98           | 1.88          | 2.38         | August 10 at hour 6  | 4.2     | ESE      | 2.07          | August 29 | 95.0        | 90.3           |
| NMHC (ppm)            | -          | -        | -        | -       | -          | -         | 0.00           | 0.00          | 0.00         | August 1 at hour 18  | 6.8     | NE       | 0.00          | August 2  | 95.0        | 90.3           |
| RH (%)                | -          | -        | -        | -       | -          | -         | 81.2           | 37            | 100          | August 1 at hour 22  | 5.6     | ESE      | 97.1          | August 15 | 95.0        | 95.0           |
| BP (millibar)         | -          | -        | -        | -       | -          | -         | 944            | 934           | 951          | August 6 at hour 6   | 7.3     | N        | 950           | August 29 | 95.0        | 95.0           |
| Ext. Temp. (°C)       | -          | -        | -        | -       | -          | -         | 12.7           | -0.4          | 25.4         | August 21 at hour 14 | 8.4     | SSW      | 18.9          | August 21 | 95.0        | 95.0           |
| Stn. Temp. (°C)       | -          | -        | -        | -       | -          | -         | 23.0           | 21.6          | 24.4         | August 17 at hour 15 | 1.6     | SSE      | 23.3          | August 18 | 96.1        | 96.1           |
| Precipitation (mm)*   | o. (°C)    |          |          |         |            |           | 54.6           | 0.0           | 6.4          | August 2 at hour     | 3.9     | ESE      | 9.4           | August 2  | 91.9        | 91.9           |
| WSV (km/hr)           | -          | -        | -        | -       | -          | -         | 1.6            | 0.0           | 23.8         | August 21 at hour 2  | 23.8    | ESE      | 15.1          | August 16 | 94.5        | 94.5           |
| WDV (sector)          | -          | -        | -        | -       | -          | -         | 257 (WSW)      | -             | -            | -                    | -       |          | -             | -         | 94.5        | 94.5           |
| 1- Date/ Time given i | s the firs | t minimu | um and n | naximum | value th   | nat was r | ecorded        |               |              |                      |         |          |               |           |             |                |

<sup>\*</sup> Data represents the total (sum) for the indicated time frame

| Parameter            | Object     | ives/Gui | delines  | E       | xcee dan o | ces       | Monthly Avg.   | Min. 1-hr   | Max. 1-hr    | Dat e/Time              | VWS     | VWD      | Max. 24-hr    | Dat e        | Operational | Valid Data (%) |
|----------------------|------------|----------|----------|---------|------------|-----------|----------------|-------------|--------------|-------------------------|---------|----------|---------------|--------------|-------------|----------------|
| Parameter            | 1-hr       | 24-hr    | 30-day   | 1-hr    | 24-hr      | 30-day    | ivionthly Avg. | IVIIN. 1-NF | IVIAX. 1-III | Date/ lime              | (km/hr) | (sector) | IVIAX. 24-FIF | Date         | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)            | 172        | 48       | 11       | 0       | 0          | 0         | 0.0            | 0           | 1            | September 18 at hour 9  | 0.8     | W        | 0.1           | September 18 | 88.8        | 84.3           |
| TRS (ppb)            | 10         | 3        | -        | -       | -          | -         | 0.77           | 0.20        | 3.34         | September 13 at hour 3  | 5.4     | SSE      | 1.36          | September 3  | 83.2        | 78.7           |
| THC (ppm)            | -          | -        | -        | -       | -          | -         | 1.99           | 1.89        | 2.27         | September 29 at hour 21 | 13.1    | SSE      | 2.07          | September 29 | 87.4        | 82.8           |
| CH4 (ppm)            | -          | -        | -        | -       | -          | -         | 1.99           | 1.89        | 2.27         | September 29 at hour 21 | 13.1    | SSE      | 2.07          | September 29 | 87.4        | 82.8           |
| NMHC (ppm)           | -          | -        | -        | -       | -          | -         | 0.00           | 0.00        | 0.00         | September 1 at hour 0   | 7.8     | ESE      | 0.00          | September 1  | 87.4        | 82.8           |
| RH (%)               | -          | -        | -        | -       | -          | -         | 79.7           | 35          | 100          | September 1 at hour 5   | 4.5     | E        | 97.7          | September 26 | 89.0        | 88.9           |
| BP (millibar)        | -          | -        | -        | -       | -          | -         | 942            | 931         | 959          | September 28 at hour 9  | 5.8     | N        | 958           | September 28 | 89.0        | 88.9           |
| Ext. Temp. (°C)      | -          | -        | -        | -       | -          | -         | 9.5            | -5.5        | 22.2         | September 3 at hour 16  | 9.9     | WSW      | 15.2          | September 3  | 89.0        | 88.9           |
| Stn. Temp. (°C)      | -          | -        | -        | -       | -          | -         | 22.9           | 20.9        | 24.8         | September 18 at hour 13 | 4.4     | W        | 23.4          | September 26 | 89.0        | 88.9           |
| Precipitation (mm)*  | -          | -        | -        | -       | -          | -         | 58.0           | 0.0         | 9.0          | September 15 at hour 20 | 5.5     | NNE      | 19.4          | September 15 | 84.0        | 83.9           |
| WSV (km/hr)          | -          | -        | -        | -       | -          | -         | 4.6            | 0.3         | 24.4         | September 21 at hour 12 | 24.4    | WSW      | 16.8          | September 21 | 89.0        | 89.0           |
| WDV (sector)         | -          | -        | -        | -       | -          | -         | 202 (SSW)      | -           | -            | -                       | -       | -        | -             | -            | 89.0        | 89.0           |
| 1- Date/Time given i | s the firs | t minimi | ım and n | naximum | value th   | nat was r | ecorded        |             |              |                         |         |          |               |              |             |                |

Date/Time given is the first minimum and maximum value that was recorded
 Data represents the total (sum) for the indicated time frame

| Parameter             | Object     | tives/Gui | delines  | E         | cee dan c | es     | Monthly Avg.   | Min. 1-hr   | Max. 1-hr    | Date/Time             | VWS     | VWD      | Max. 24-hr    | Dat e      | Operational | Valid Data (%) |
|-----------------------|------------|-----------|----------|-----------|-----------|--------|----------------|-------------|--------------|-----------------------|---------|----------|---------------|------------|-------------|----------------|
| Parameter             | 1-hr       | 24-hr     | 30-day   | 1-hr      | 24-hr     | 30-day | IVIORENTY AVE. | IVIIN. 1-NF | IVIAX. 1-III | Date/ filme           | (km/hr) | (sector) | IVIAX. 24-III | Date       | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)             | 172        | 48        | 11       | 0         | 0         | 0      | 0.0            | 0           | 1            | October 1 at hour 0   | 14.3    | S        | 0.0           | October 1  | 100.0       | 94.7           |
| TRS (ppb)             | 10         | 3         | -        | -         | -         | -      | 0.71           | 0.00        | 5.31         | October 17 at hour 19 | 6.8     | S        | 2.31          | October 17 | 92.9        | 87.9           |
| THC (ppm)             | -          | -         | -        | -         | -         | -      | 1.96           | 1.89        | 2.20         | October 2 at hour 6   | 5.6     | SE       | 2.05          | October 1  | 99.9        | 94.7           |
| CH4 (ppm)             | -          | -         | -        | -         | -         | -      | 1.96           | 1.89        | 2.20         | October 2 at hour 6   | 5.6     | SE       | 2.05          | October 1  | 99.9        | 94.7           |
| NMHC (ppm)            | -          | -         | -        | -         | -         | -      | 0.00           | 0.00        | 0.06         | October 16 at hour 20 | 12      | ENE      | 0.00          | October 16 | 99.9        | 94.7           |
| RH (%)                | -          | -         | -        | -         | -         | -      | 76.7           | 27          | 100          | October 14 at hour 1  | 9.9     | NNE      | 99.8          | October 22 | 100.0       | 100.0          |
| BP (millibar)         | -          | -         | -        | -         | -         | -      | 942            | 922         | 964          | October 28 at hour 12 | 10.9    | NNW      | 961           | October 28 | 100.0       | 100.0          |
| Ext. Temp. (°C)       | -          | -         | -        | -         | -         | -      | 2.3            | -14.5       | 17.6         | October 3 at hour 15  | 4.9     | WSW      | 9.0           | October 6  | 100.0       | 100.0          |
| Stn. Temp. (°C)       | -          | -         | -        | -         | -         | -      | 21.9           | 20.5        | 26.9         | October 2 at hour 16  | 9.9     | S        | 23.4          | October 5  | 100.0       | 100.0          |
| Precipitation (mm)*   | -          | -         | -        | -         | -         | -      | 25.0           | 0.0         | 1.4          | October 7 at hour 8   | 14.3    | WNW      | 3.8           | October 21 | 74.2        | 74.2           |
| WSV (km/hr)           | -          | -         | -        | -         | -         | -      | 4.5            | 0.7         | 31.3         | October 6 at hour 18  | 31.3    | SW       | 21.3          | October 6  | 100.0       | 100.0          |
| WDV (sector)          | -          | -         | -        | -         | -         | -      | 231 (SW)       | -           | -            | -                     | -       | -        | -             | -          | 100.0       | 100.0          |
| 1- Date/ Time given i | s the firs | st minim  | um and n | naximum   |           |        |                |             |              |                       |         |          |               |            |             |                |
| * Data represents the | e total (s | um) for t | heindica | ated time | frame     |        |                |             |              |                       |         |          |               |            |             |                |

| Parameter             | Object   | ives/Gui  | delines    | E         | kcee dan c | es     | Monthly Avg. | Min. 1-hr    | Max. 1-hr    | Date/Time              | VWS     | VWD      | Max. 24-hr    | Date        | Operational | Valid Data (%)  |
|-----------------------|--|-----------|------------|-----------|------------|--------|--------------|--------------|--------------|------------------------|---------|----------|---------------|-------------|-------------|-----------------|
| Parameter             | 1-hr   | 24-hr     | 30-day     | 1-hr      | 24-hr      | 30-day | Worthly Avg. | Willi. 1-III | IVIAX. 1-III | Date/ lille            | (km/hr) | (sector) | IVIAX. 24-111 | Date        | Uptime (%)  | Vallu Data (76) |
| SO2 (ppb)             | 172  | 48        | 11         | 0         | 0          | 0      | 0.0          | 0            | 1            | November 1 at hour 0   | 8       | SW       | 0.4           | November 7  | 100.0       | 95.1            |
| TRS (ppb)             | 10   | 3         | -          | -         | -          | -      | 0.47         | 0.00         | 2.15         | November 2 at hour 18  | 2.4     | N        | 0.72          | November 2  | 100.0       | 95.0            |
| THC (ppm)             | -  | -         | -          | -         | -          | -      | 2.01         | 1.92         | 2.13         | November 11 at hour 8  | 15.9    | SSW      | 2.09          | November 11 | 100.0       | 95.2            |
| CH4 (ppm)             | -  | -         | -          | -         | -          | -      | 2.01         | 1.92         | 2.13         | November 11 at hour 8  | 15.9    | SSW      | 2.09          | November 11 | 100.0       | 95.2            |
| NMHC (ppm)            | -  | -         | -          | -         | -          | -      | 0.00         | 0.00         | 0.00         | November 1 at hour 0   | 8       | SW       | 0.00          | November 1  | 100.0       | 95.2            |
| RH (%)                | -  | -         | -          | -         | -          | -      | 0.88         | 39           | 100          | November 1 at hour 18  | 11.5    | SW       | 99.8          | November 19 | 100.0       | 100.0           |
| BP (millibar)         | -  | -         | -          | -         | -          | -      | 944          | 924          | 967          | November 10 at hour 5  | 6.2     | WNW      | 964           | November 10 | 100.0       | 100.0           |
| Ext. Temp. (°C)       | -  | -         | -          | -         | -          | -      | -5.5         | -19.8        | 7.6          | November 23 at hour 13 | 18.6    | W        | 4.9           | November 17 | 100.0       | 100.0           |
| Stn. Temp. (°C)       | -  | -         | -          | -         | -          | -      | 21.4         | 20.6         | 23.3         | November 17 at hour 14 | 16.2    | SW       | 22.0          | November 17 | 100.0       | 100.0           |
| Precipitation (mm)*   | -  | -         | -          | -         | -          | -      | 16.8         | 0.0          | 2.4          | November 18 at hour 2  | 15.9    | WNW      | 7.8           | November 15 | 29.7        | 29.7            |
| WSV (km/hr)           | -  | -         | -          | -         | -          | -      | 4.0          | 0.9          | 35.5         | November 22 at hour 18 | 35.5    | SW       | 23.2          | November 22 | 100.0       | 100.0           |
| WDV (sector)          | -  | -         | -          | -         | -          | -      | 225 (SW)     | -            | -            | -                      | -       | -        | -             | -           | 100.0       | 100.0           |
| 1- Date/ Time given i | ate/ Time given is the first minimum and maximum value that was recorded |           |            |           |            |        |              |              |              |                        |         |          |               |             |             |                 |
| * Data represents the | e total (s   | um) for t | he i ndica | ated time | frame      |        |              |              |              |                        |         |          |               |             |             |                 |

| Parameter             | Object     | ives/Gui  | delines    | E)        | cee dan c | es        | Monthly Avg.  | Min. 1-hr     | Max. 1-hr    | Date/Time              | vws     | VWD      | Max. 24-hr   | Dat e       | Operational | Valid Data (%)  |
|-----------------------|------------|-----------|------------|-----------|-----------|-----------|---------------|---------------|--------------|------------------------|---------|----------|--------------|-------------|-------------|-----------------|
| 1 drameter            | 1-hr       | 24-hr     | 30-day     | 1-hr      | 24-hr     | 30-day    | Worlding Avg. | 141111. 1 111 | IVIDA: I III | Date; mile             | (km/hr) | (sector) | Widx. 24 III | Ducc        | Uptime (%)  | Valid Data (70) |
| SO2 (ppb)             | 172        | 48        | 11         | 0         | 0         | 0         | 0.0           | 0             | 1            | December 1 at hour 5   | 18.6    | SSW      | 0.2          | December 1  | 100.0       | 95.0            |
| TRS (ppb)             | 10         | 3         | -          | -         | -         | -         | 0.48          | 0.00          | 1.22         | December 18 at hour 9  | 6.6     | Е        | 0.57         | December 18 | 98.0        | 92.6            |
| THC (ppm)             | -          | -         | -          | -         | -         | -         | 2.01          | 1.90          | 2.20         | December 15 at hour 3  | 5.4     | S        | 2.08         | December 1  | 99.5        | 94.6            |
| CH4 (ppm)             | -          | -         | -          | -         | -         | -         | 2.01          | 1.90          | 2.20         | December 15 at hour 3  | 5.4     | S        | 2.08         | December 1  | 99.5        | 94.6            |
| NMHC (ppm)            | -          | -         | -          | -         | -         | -         | 0.00          | 0.00          | 0.01         | December 1 at hour 5   | 18.6    | SSW      | 0.00         | December 1  | 99.5        | 94.6            |
| RH (%)                | -          | -         | -          | -         | -         | -         | 84.2          | 38            | 100          | December 17 at hour 0  | 8.8     | SW       | 95.3         | December 21 | 100.0       | 100.0           |
| BP (millibar)         | -          | -         | -          | -         | -         | -         | 938           | 920           | 950          | December 9 at hour 6   | 6.4     | Е        | 949          | December 9  | 100.0       | 100.0           |
| Ext. Temp. (°C)       | -          | -         | -          | -         | -         | -         | -9.8          | -25.1         | 3.2          | December 29 at hour 3  | 16.6    | WSW      | -0.2         | December 29 | 100.0       | 100.0           |
| Stn. Temp. (°C)       | -          | -         | -          | -         | -         | -         | 21.4          | 20.6          | 23.0         | December 11 at hour 17 | 9.3     | ENE      | 21.7         | December 31 | 100.0       | 100.0           |
| Precipitation (mm)*   | -          | -         | -          | -         | -         | -         | 1.8           | 0.0           | 0.6          | December 17 at hour 18 | 33      | SW       | 1.8          | December 17 | 11.6        | 11.6            |
| WSV (km/hr)           | -          | -         | -          | -         | -         | -         | 5.0           | 0.1           | 33.0         | December 17 at hour 18 | 33      | SW       | 19.6         | December 2  | 100.0       | 100.0           |
| WDV (sector)          | -          | -         | -          | -         | -         | -         | 201 (SSW)     | -             | -            | -                      | -       | -        | -            | -           | 100.0       | 100.0           |
| 1- Date/Time given i  | s the firs | t minimu  | um and n   | naximum   | value th  | at was re | ecorded       |               |              |                        |         |          |              |             |             |                 |
| * Data represents the | e total (s | um) for t | he i ndica | ated time | frame     |           |               |               |              |                        |         |          |              |             |             |                 |

#### 842b Station:

Monthly reports for August, September, October, November and December: An error was discovered on the Summary of Hourly Averages and Summary of Hourly Instantaneous Maximums for all parameters. Incorrect dates of Maximum Daily Value (Max. 24-hr) were displayed on the summary table. The error was due to an incorrect formula being setup on the report template, which was used for the report preparation. The correct dates of Max. 24-hr are presented on the revised Monitored Data Summaries, which are presented in the following pages.

Monthly reports for January to December: Errors were discovered on the Monitored Data Summary. The dates of maximum 24-hour average (Max. 24-hr) for all parameters incorrectly were referred to the minimum 24-hour average instead. The revised Monitored Data Summaries are presented in the following pages.

| Parameter           | Object      | ives/Gui | delines  | E       | ceedanc  | es        | Monthly Avg. | Min. 1-hr     | Max. 1-hr    | Date/Time             | WSV     | WDV      | Max. 24-hr    | Date       | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|---------|----------|-----------|--------------|---------------|--------------|-----------------------|---------|----------|---------------|------------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | Worthly Avg. | IVIIII. 1-III | IVIdX. 1-III | Date/ fille           | (km/hr) | (sector) | IVIAX. 24-III | Date       | Uptime (%)  | Vallu Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0       | 0        | 0         | 0.1          | 0             | 2            | January 19 at hour 6  | 11      | E        | 1.4           | January 19 | 100.0       | 94.6           |
| TRS (ppb)           | 10          | 3        | -        | -       | -        | -         | 0.20         | 0.08          | 0.50         | January 3 at hour 21  | 3.1     | ESE      | 0.30          | January 4  | 100.0       | 94.6           |
| THC (ppm)           | -           | -        | -        | -       | -        | -         | 2.03         | 1.92          | 2.39         | January 8 at hour 23  | 4.3     | NE       | 2.09          | January 21 | 100.0       | 94.7           |
| CH4 (ppm)           | -           | -        | -        | -       | -        | -         | 2.03         | 1.92          | 2.39         | January 8 at hour 23  | 4.3     | NE       | 2.09          | January 21 | 100.0       | 94.7           |
| NMHC (ppm)          | -           | -        | -        | -       | -        | -         | 0.00         | 0.00          | 0.00         | January 1 at hour 0   | 22.7    | SSW      | 0.00          | January 1  | 100.0       | 94.7           |
| RH (%)              | -           | -        | -        | -       | -        | -         | 80.1         | 58            | 95           | January 12 at hour 22 | 3.8     | SE       | 93.0          | January 13 | 100.0       | 100.0          |
| BP (millibar)       | -           | -        | -        | -       | -        | -         | 942          | 922           | 960          | January 27 at hour 22 | 6.7     | NNW      | 959           | January 28 | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -        | -        | -       | -        | -         | -10.3        | -29.8         | 5.9          | January 26 at hour 21 | 20.7    | WSW      | 4.1           | January 26 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 21.7         | 20.2          | 22.2         | January 26 at hour 0  | 16.1    | WSW      | 22.1          | January 26 | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -        | -        | -       | -        | -         | 1.1          | 0.1           | 36.0         | January 2 at hour 1   | 36      | SW       | 16.9          | January 26 | 100.0       | 99.9           |
| WDV (sector)        | ector)      |          |          |         |          |           | 235(SW)      | -             | -            | -                     | -       | -        | -             | =          | 100.0       | 99.9           |
| 1. Data/ Time given | is the firs | t minimu | ım and n | naximum | value th | at were r | ecorded.     |               |              |                       |         |          |               | -          |             |                |

| Parameter           | Object      | ives/Gui | delines  | E       | cceedanc | es        | Monthly Avg. | Min. 1-hr     | Max. 1-hr    | Date/Time              | VWS     | VWD      | Max. 24-hr    | Date        | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|---------|----------|-----------|--------------|---------------|--------------|------------------------|---------|----------|---------------|-------------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | Worthly Avg. | IVIIII. 1-III | IVIdX. 1-III | Date/ fillle           | (km/hr) | (sector) | IVIAX. 24-III | Date        | Uptime (%)  | Vallu Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0       | 0        | 0         | 0.2          | 0             | 2            | February 12 at hour 12 | 9.4     | WSW      | 0.8           | February 15 | 100.0       | 94.8           |
| TRS (ppb)           | 10          | 3        | -        | -       | -        | -         | 0.32         | 0.10          | 0.65         | February 14 at hour 2  | 3.2     | ENE      | 0.415         | February 14 | 100.0       | 94.8           |
| THC (ppm)           | -           | -        | -        | -       | -        | -         | 2.05         | 1.93          | 2.80         | February 12 at hour 3  | 1.5     | E        | 2.26          | February 6  | 98.4        | 93.3           |
| CH4 (ppm)           | -           | -        | -        | -       | -        | -         | 2.05         | 1.93          | 2.80         | February 12 at hour 3  | 1.5     | E        | 2.26          | February 6  | 98.4        | 93.3           |
| NMHC (ppm)          | -           | -        | -        | -       | -        | -         | 0.00         | 0.00          | 0.00         | February 1 at hour 0   | 8.2     | N        | 0.00          | February 1  | 98.4        | 93.3           |
| RH (%)              | -           | -        | -        | -       | -        | -         | 70.6         | 39            | 92           | February 19 at hour 18 | 4.8     | SSW      | 81.8          | February 19 | 100.0       | 100.0          |
| BP (millibar)       | -           | -        | -        | -       | -        | -         | 950          | 931           | 971          | February 8 at hour 22  | 0.9     | E        | 965           | February 8  | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -        | -        | -       | -        | -         | -22.0        | -39.8         | -1.7         | February 27 at hour 15 | 10.4    | W        | -7.0          | February 27 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 21.9         | 20.0          | 22.2         | February 7 at hour 10  | 5.6     | WSW      | 22.1          | February 26 | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -        | -        | -       | -        | -         | 0.7          | 0.2           | 20.6         | February 21 at hour 12 | 20.6    | SSE      | 14.7          | February 18 | 100.0       | 100.0          |
| WDV (sector)        | -           | -        | -        | -       | -        | -         | 274(W)       | -             | -            | -                      | -       | •        | -             | =           | 100.0       | 100.0          |
| 1- Date/ Time given | is the firs | t minimu | ım and n | naximum | value th | at was re | ecorded      |               |              |                        |         |          |               |             |             |                |

| Parameter           | Object      | ives/Gui | delines  | E:      | kceedanc | es        | Monthly Avg.   | Min. 1-hr   | Max. 1-hr   | Date/Time           | VWS     | VWD      | Max. 24-hr   | Date     | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|---------|----------|-----------|----------------|-------------|-------------|---------------------|---------|----------|--------------|----------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | ivionthly Avg. | IVIIN. 1-Nr | iviax. 1-nr | Date/Time           | (km/hr) | (sector) | iviax. 24-nr | Date     | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0       | 0        | 0         | 0.2            | 0           | 2           | March 21 at hour 2  | 8       | E        | 0.9          | March 4  | 100.0       | 94.9           |
| TRS (ppb)           | 10          | 3        | -        | -       | -        | -         | 0.26           | 0.05        | 0.54        | March 20 at hour 22 | 6.1     | ENE      | 0.44         | March 21 | 100.0       | 94.7           |
| THC (ppm)           | -           | -        | -        | -       | -        | -         | 2.01           | 1.91        | 2.53        | March 2 at hour 8   | 2       | ESE      | 2.15         | March 9  | 98.9        | 93.9           |
| CH4 (ppm)           | -           | -        | -        | -       | -        | -         | 2.01           | 1.91        | 2.53        | March 2 at hour 8   | 2       | ESE      | 2.15         | March 9  | 98.9        | 93.9           |
| NMHC (ppm)          | -           | -        | -        | -       | -        | -         | 0.00           | 0.00        | 0.02        | March 26 at hour 3  | 2.1     | ENE      | 0.00         | March 26 | 98.9        | 93.9           |
| RH (%)              | -           | -        | -        | -       | -        | -         | 60.4           | 16          | 94          | March 12 at hour 7  | 5       | WSW      | 77.0         | March 25 | 100.0       | 100.0          |
| BP (millibar)       | -           | -        | -        | -       | -        | -         | 948            | 923         | 971         | March 2 at hour 6   | 2.4     | E        | 969          | March 2  | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -        | -        | -       | -        | -         | -3.6           | -36.4       | 18.4        | March 21 at hour 16 | 5.6     | W        | 7.3          | March 23 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 22.3           | 20.7        | 23.5        | March 21 at hour 16 | 5.6     | W        | 22.6         | March 19 | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -        | -        | -       | -        | -         | 3.7            | 0.3         | 24.0        | March 10 at hour 14 | 24      | SSW      | 14.2         | March 10 | 100.0       | 100.0          |
| WDV (sector)        | -           | -        | -        | -       | -        | -         | 202(SSW)       | _           | -           | -                   | -       | 1        | -            | -        | 100.0       | 100.0          |
| 1- Date/ Time given | is the firs | t minim  | um and m | naximum | value th | at was re | ecorded        |             |             |                     |         |          |              | _        |             |                |

| Parameter           | Object      | ives/Gui | delines  | E:      | kceedan  | ces        | Monthly Avg. | Min. 1-hr     | Max. 1-hr    | Date/Time           | VWS     | VWD      | Max. 24-hr    | Date     | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|---------|----------|------------|--------------|---------------|--------------|---------------------|---------|----------|---------------|----------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day     | Worthly Avg. | IVIIII. 1-III | IVIdX. 1-III | Date/ fille         | (km/hr) | (sector) | IVIAX. 24-III | Date     | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0       | 0        | 0          | 0.0          | 0             | 1            | April 11 at hour 10 | 5.2     | SW       | 0.1           | April 27 | 100.0       | 94.6           |
| TRS (ppb)           | 10          | 3        | -        | -       | -        | -          | 0.39         | 0.11          | 0.66         | April 19 at hour 2  | 12.5    | SW       | 0.50          | April 28 | 96.5        | 91.1           |
| THC (ppm)           | -           | =        | -        | -       | -        | -          | 2.00         | 1.95          | 2.22         | April 11 at hour 3  | 3.3     | E        | 2.04          | April 26 | 99.6        | 94.6           |
| CH4 (ppm)           | -           | -        | -        | -       | -        | -          | 2.00         | 1.95          | 2.22         | April 11 at hour 3  | 3.3     | E        | 2.04          | April 26 | 99.6        | 94.6           |
| NMHC (ppm)          | -           | -        | -        | -       | -        | -          | 0.00         | 0.00          | 0.00         | April 1 at hour 1   | 1.8     | SW       | 0.00          | April 1  | 99.6        | 94.6           |
| RH (%)              | -           | -        | -        | -       | -        | -          | 54.3         | 13            | 97           | April 7 at hour 4   | 1.3     | SE       | 81.8          | April 6  | 100.0       | 100.0          |
| BP (millibar)       | -           | -        | -        | -       | -        | -          | 941          | 925           | 955          | April 28 at hour 5  | 4.2     | NNW      | 955           | April 28 | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -        | -        | -       | -        | -          | 3.3          | -7.9          | 15.4         | April 18 at hour 14 | 29.8    | WSW      | 8.7           | April 18 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -        | -        | -       | -        | -          | 22.4         | 21.8          | 23.9         | April 9 at hour 14  | 13.3    | SW       | 22.9          | April 9  | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -        | -        | -       | -        | -          | 3.5          | 0.1           | 29.8         | April 18 at hour 14 | 29.8    | WSW      | 17.4          | April 18 | 100.0       | 100.0          |
| WDV (sector)        | -           | -        | -        | -       | -        | -          | 241 (WSW)    | -             | -            | -                   | -       | •        | -             | -        | 100.0       | 100.0          |
| 1- Date/ Time given | is the firs | t minimu | um and m | naximum | value th | nat was re | ecorded      |               |              |                     |         |          |               |          |             |                |

| Parameter           | Object      | ives/Gui | delines  | E       | ceedanc  | es        | Barrabby By  | Min. 1-hr   | Max. 1-hr   | Date/Time         | VWS     | VWD      | Max. 24-hr   | Date   | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|---------|----------|-----------|--------------|-------------|-------------|-------------------|---------|----------|--------------|--------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | Monthly Avg. | IVIIN. 1-NF | iviax. 1-nr | Date/ lime        | (km/hr) | (sector) | iviax. 24-nr | Date   | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0       | 0        | 0         | 0.0          | 0           | 2           | May 22 at hour 9  | 6.2     | NNE      | 0.1          | May 28 | 100.0       | 95.3           |
| TRS (ppb)           | 10          | 3        | -        | -       | -        | -         | 0.57         | 0.31        | 3.48        | May 30 at hour 7  | 13.7    | N        | 2.03         | May 30 | 100.0       | 95.0           |
| THC (ppm)           | -           | -        | -        | -       | -        | -         | 1.99         | 1.88        | 3.28        | May 30 at hour 7  | 13.7    | N        | 2.51         | May 30 | 100.0       | 95.3           |
| CH4 (ppm)           | -           | -        | -        | -       | -        | -         | 1.97         | 1.88        | 2.74        | May 22 at hour 5  | 2.5     | ENE      | 2.18         | May 30 | 100.0       | 95.3           |
| NMHC (ppm)          | -           | -        | -        | -       | -        | -         | 0.01         | 0.00        | 0.82        | May 30 at hour 7  | 13.7    | N        | 0.33         | May 30 | 100.0       | 95.3           |
| RH (%)              | -           | -        | -        | -       | -        | -         | 43.2         | 13          | 91          | May 1 at hour 4   | 1.4     | ESE      | 67.6         | May 1  | 100.0       | 100.0          |
| BP (millibar)       | -           | -        | -        | -       | -        | -         | 943          | 929         | 952         | May 8 at hour 8   | 5.5     | W        | 951          | May 8  | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 11.1         | -8.7        | 29.5        | May 28 at hour 16 | 15      | SW       | 21.0         | May 28 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 22.8         | 21.7        | 23.9        | May 29 at hour 14 | 12.2    | WSW      | 23.3         | May 29 | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -        | -        | -       | -        | -         | 1.1          | 0.2         | 30.0        | May 9 at hour 13  | 30      | NW       | 14.1         | May 18 | 100.0       | 100.0          |
| WDV (sector)        | -           | -        | -        | -       | -        | -         | 109 (ESE)    | 1           | -           | -                 | -       | -        | -            | -      | 100.0       | 100.0          |
| 1- Date/ Time given | is the firs | t minimu | um and n | naximum | value th | at was re | ecorded      |             |             |                   |         |          |              |        |             |                |

|                     | Object   | ives/Guid | delines | Е    | cceedanc | es     | Advertis Aven | and the   | Name a his | D. 17              | vws     | VWD      | 24 24      | D.L.    | Operational | V-1:4 D-1 - (0/) |
|---------------------|----------|-----------|---------|------|----------|--------|---------------|-----------|------------|--------------------|---------|----------|------------|---------|-------------|------------------|
| Parameter           | 1-hr     | 24-hr     | 30-day  | 1-hr | 24-hr    | 30-day | Monthly Avg.  | Min. 1-hr | Max. 1-hr  | Date/Time          | (km/hr) | (sector) | Max. 24-hr | Date    | Uptime (%)  | Valid Data (%)   |
| SO2 (ppb)           | 172      | 48        | 11      | 0    | 0        | 0      | 0.0           | 0         | 1          | June 1 at hour 2   | 13.1    | SE       | 0.3        | June 3  | 98.9        | 93.9             |
| TRS (ppb)           | 10       | 3         | -       | -    | -        | -      | 0.53          | 0.31      | 2.47       | June 9 at hour 1   | 1.4     | ENE      | 0.79       | June 9  | 98.9        | 93.7             |
| THC (ppm)           | -        | -         | -       | 1    | -        | -      | 1.95          | 1.87      | 2.46       | June 27 at hour 4  | 3.1     | ENE      | 2.06       | June 27 | 98.8        | 93.7             |
| CH4 (ppm)           | -        | -         | -       | -    | -        | -      | 1.95          | 1.87      | 2.46       | June 27 at hour 4  | 3.1     | ENE      | 2.06       | June 27 | 98.8        | 93.7             |
| NMHC (ppm)          | -        | -         | -       | -    | -        | -      | 0.00          | 0.00      | 0.00       | June 1 at hour 0   | 3.2     | E        | 0.00       | June 1  | 98.8        | 93.7             |
| RH (%)              | -        | -         | -       | -    | -        | -      | 63.1          | 19        | 95         | June 9 at hour 3   | 1.4     | SE       | 87.9       | June 20 | 98.9        | 98.9             |
| BP (millibar)       | -        | -         | -       | -    | -        | -      | 942           | 933       | 950        | June 9 at hour 5   | 1.6     | ESE      | 949        | June 9  | 98.9        | 98.9             |
| Ext. Temp. (°C)     | -        | -         | -       | -    | -        | -      | 13.8          | 1.8       | 28.3       | June 17 at hour 15 | 15.7    | S        | 20.5       | June 17 | 98.9        | 98.9             |
| Stn. Temp. (°C)     | -        | -         | -       | -    | -        | -      | 23.2          | 21.6      | 24.2       | June 17 at hour 16 | 17.1    | SSE      | 23.6       | June 17 | 98.9        | 98.9             |
| WSV (km/hr)         | -        | -         | -       | -    | -        | -      | 3.3           | 0.1       | 32.2       | June 4 at hour 14  | 32.2    | SSW      | 17.8       | June 18 | 98.9        | 100.0            |
| WDV (sector)        | ector) 2 |           |         |      |          |        | 260 (WSW)     | -         | -          | -                  | -       | -        | -          | -       | 98.9        | 98.9             |
| 1- Date/ Time given | (°C) hr) |           |         |      |          |        | corded        |           |            |                    |         |          |            |         |             |                  |

| Parameter           | Object      | ives/Gui | delines  | E:      | cceedanc | es        | Monthly Avg. | Min. 1-hr    | Max. 1-hr    | Date/Time          | VWS     | VWD      | Max. 24-hr    | Date    | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|---------|----------|-----------|--------------|--------------|--------------|--------------------|---------|----------|---------------|---------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | wonthly Avg. | Willi. 1-III | IVIdX. 1-III | Date/ fille        | (km/hr) | (sector) | IVIAX. 24-III | Date    | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0       | 0        | 0         | 0.0          | 0            | 1            | July 16 at hour 10 | 14.3    | SW       | 0.2           | July 17 | 100.0       | 94.7           |
| TRS (ppb)           | 10          | 3        | -        | -       | -        | -         | 0.47         | 0.30         | 1.22         | July 9 at hour 3   | 2.5     | ESE      | 0.62          | July 19 | 100.0       | 94.7           |
| THC (ppm)           | -           | =        | -        | -       | -        | -         | 1.96         | 1.88         | 2.38         | July 31 at hour 5  | 1.8     | ENE      | 2.05          | July 31 | 100.0       | 94.7           |
| CH4 (ppm)           | -           | -        | -        | -       | -        | -         | 1.96         | 1.88         | 2.38         | July 31 at hour 5  | 1.8     | ENE      | 2.05          | July 31 | 100.0       | 94.7           |
| NMHC (ppm)          | -           | -        | -        | -       | -        | -         | 0.00         | 0.00         | 0.02         | July 5 at hour 18  | 5.1     | E        | 0.00          | July 23 | 100.0       | 94.7           |
| RH (%)              | -           | -        | -        | -       | -        | -         | 73.4         | 34           | 95           | July 9 at hour 1   | 1.4     | E        | 91.0          | July 25 | 100.0       | 100.0          |
| BP (millibar)       | -           | -        | -        | -       | -        | -         | 942          | 928          | 955          | July 5 at hour 5   | 3.2     | NE       | 954           | July 5  | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 15.1         | 1.6          | 27.8         | July 22 at hour 15 | 7.5     | WNW      | 21.1          | July 23 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 23.4         | 21.8         | 24.0         | July 3 at hour 9   | 10.1    | NW       | 23.6          | July 23 | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -        | -        | -       | -        | -         | 2.7          | 0.0          | 21.6         | July 26 at hour 14 | 21.6    | WSW      | 12.9          | July 26 | 100.0       | 100.0          |
| WDV (sector)        | -           | -        | -        | -       | -        | -         | 247 (WSW)    | -            | -            | -                  | -       | 1        | -             | -       | 100.0       | 100.0          |
| 1- Date/ Time given | is the firs | t minimu | ım and m | naximum | value th | at was re | ecorded      |              |              | -                  |         |          |               |         |             |                |

| Parameter           | Object      | ives/Gui | delines  | E       | cceedanc | es        | Monthly Avg. | Min. 1-hr    | Max. 1-hr    | Date/Time            | VWS     | VWD      | Max. 24-hr    | Date      | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|---------|----------|-----------|--------------|--------------|--------------|----------------------|---------|----------|---------------|-----------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | wonthly Avg. | Willi. 1-III | IVIdX. 1-III | Date/ Illile         | (km/hr) | (sector) | IVIdX. 24-III | Date      | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0       | 0        | 0         | 0.0          | 0            | 1            | August 2 at hour 9   | 3.9     | NNW      | 0.1           | August 28 | 99.9        | 95.1           |
| TRS (ppb)           | 10          | 3        | -        | -       | -        | -         | 0.43         | 0.10         | 1.26         | August 17 at hour 7  | 1.5     | SE       | 0.58          | August 15 | 99.9        | 94.9           |
| THC (ppm)           | -           | -        | -        | -       | -        | -         | 1.98         | 1.89         | 2.57         | August 12 at hour 6  | 1.7     | ENE      | 2.14          | August 30 | 99.7        | 94.9           |
| CH4 (ppm)           | -           | -        | -        | -       | -        | -         | 1.98         | 1.89         | 2.57         | August 12 at hour 6  | 1.7     | ENE      | 2.14          | August 30 | 99.7        | 94.9           |
| NMHC (ppm)          | -           | -        | -        | -       | -        | -         | 0.00         | 0.00         | 0.00         | August 1 at hour 0   | 3.7     | ENE      | 0.00          | August 1  | 99.7        | 94.9           |
| RH (%)              | -           | -        | -        | -       | -        | -         | 74.5         | 34           | 96           | August 10 at hour 5  | 2.6     | ESE      | 88.7          | August 8  | 100.0       | 100.0          |
| BP (millibar)       | -           | -        | -        | -       | -        | -         | 943          | 932          | 950          | August 6 at hour 0   | 5.3     | N        | 949           | August 29 | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 13.0         | 0.1          | 25.1         | August 21 at hour 14 | 8.9     | SSW      | 18.9          | August 21 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 23.0         | 21.6         | 23.8         | August 1 at hour 13  | 2.1     | SE       | 23.5          | August 1  | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -        | -        | -       | -        | -         | 2.1          | 0.2          | 22.3         | August 22 at hour 6  | 22.3    | WSW      | 13.5          | August 22 | 100.0       | 99.7           |
| WDV (sector)        | -           | -        | -        | -       | -        | -         | 253 (WSW)    | -            | -            | -                    | -       | -        | -             | -         | 100.0       | 99.7           |
| 1- Date/ Time given | is the firs | t minimu | ım and n | naximum | value th | at was re | ecorded      |              |              |                      |         |          |               |           |             |                |

| Parameter             | Object     | ives/Gui | delines  | E       | ceedanc  | es        | Monthly Avg.   | Min. 1-hr     | Max. 1-hr    | Date/Time               | VWS     | VWD      | Max. 24-hr    | Date         | Operational | Valid Data (%) |
|-----------------------|------------|----------|----------|---------|----------|-----------|----------------|---------------|--------------|-------------------------|---------|----------|---------------|--------------|-------------|----------------|
| Parameter             | 1-hr       | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | iviontiny Avg. | IVIIII. 1-III | IVIdX. 1-III | Date/ fille             | (km/hr) | (sector) | IVIdX. 24-III | Date         | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)             | 172        | 48       | 11       | 0       | 0        | 0         | 0.0            | 0             | 1            | September 19 at hour 9  | 17.8    | S        | 0.0           | September 19 | 97.9        | 93.0           |
| TRS (ppb)             | 10         | 3        | -        | -       | -        | -         | 0.40           | 0.20          | 0.93         | September 4 at hour 6   | 7.1     | S        | 0.58          | September 4  | 93.6        | 88.7           |
| THC (ppm)             | -          | -        | -        | -       | -        | -         | 1.98           | 1.86          | 2.28         | September 17 at hour 6  | 1.7     | E        | 2.06          | September 18 | 97.8        | 92.9           |
| CH4 (ppm)             | -          | -        | -        | -       | -        | -         | 1.98           | 1.86          | 2.28         | September 17 at hour 6  | 1.7     | E        | 2.06          | September 18 | 97.8        | 92.9           |
| NMHC (ppm)            | -          | -        | -        | -       | -        | -         | 0.00           | 0.00          | 0.00         | September 1 at hour 0   | 3.9     | SE       | 0.00          | September 1  | 97.8        | 92.9           |
| RH (%)                | -          | -        | -        | -       | -        | -         | 73.3           | 34            | 96           | September 17 at hour 5  | 3.9     | ESE      | 90.3          | September 26 | 97.9        | 97.9           |
| BP (millibar)         | -          | -        | -        | -       | -        | -         | 942            | 930           | 959          | September 29 at hour 8  | 5.2     | SE       | 957           | September 28 | 97.9        | 97.9           |
| Ext. Temp. (°C)       | -          | -        | -        | -       | -        | -         | 9.6            | -6.1          | 22.2         | September 3 at hour 15  | 8.8     | SW       | 15.1          | September 3  | 97.9        | 97.9           |
| Stn. Temp. (°C)       | -          | -        | -        | -       | -        | -         | 22.8           | 21.7          | 23.8         | September 12 at hour 10 | 14.4    | SSW      | 23.2          | September 13 | 97.9        | 97.9           |
| WSV (km/hr)           | -          | -        | -        | -       | -        | -         | 3.0            | 0.3           | 26.9         | September 21 at hour 15 | 26.9    | WSW      | 15.2          | September 21 | 97.9        | 97.9           |
| WDV (sector)          | -          | -        | -        | -       | -        | -         | 203 (SSW)      | -             | -            | -                       | -       | -        | -             | -            | 97.9        | 97.9           |
| 1- Date/ Time given i | s the firs | t minimu | ım and m | naximum | value th | at was re | ecorded        |               |              |                         |         |          |               |              |             |                |

|                     | Object      | tives/Gui | delines  | E      | cceedanc | es        |              | Adia di ba | 24 4 h    | Data (Tara            | VWS     | VWD      | 24 h.      | D-11-      | Operational | Valid Data (%) |
|---------------------|-------------|-----------|----------|--------|----------|-----------|--------------|------------|-----------|-----------------------|---------|----------|------------|------------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr     | 30-day   | 1-hr   | 24-hr    | 30-day    | Monthly Avg. | Min. 1-hr  | Max. 1-hr | Date/Time             | (km/hr) | (sector) | Max. 24-hr | Date       | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172         | 48        | 11       | 0      | 0        | 0         | 0.0          | 0          | 2         | October 2 at hour 10  | 11.1    | S        | 0.3        | October 2  | 100.0       | 94.9           |
| TRS (ppb)           | 10          | 3         | -        | -      | -        | -         | 0.40         | 0.24       | 1.19      | October 17 at hour 6  | 8.2     | SW       | 0.61       | October 18 | 97.7        | 92.6           |
| THC (ppm)           | -           | -         | -        | -      | -        | -         | 1.99         | 1.91       | 2.18      | October 3 at hour 7   | 3.8     | ESE      | 2.05       | October 3  | 100.0       | 94.9           |
| CH4 (ppm)           | -           | -         | -        | -      | -        | -         | 1.99         | 1.91       | 2.18      | October 3 at hour 7   | 3.8     | ESE      | 2.05       | October 3  | 100.0       | 94.9           |
| NMHC (ppm)          | -           | -         | -        | -      | -        | -         | 0.00         | 0.00       | 0.00      | October 1 at hour 0   | 11.8    | SSE      | 0.00       | October 1  | 100.0       | 94.9           |
| RH (%)              | -           | -         | -        | -      | -        | -         | 71.6         | 27         | 96        | October 20 at hour 7  | 3.3     | SSW      | 93.8       | October 22 | 100.0       | 100.0          |
| BP (millibar)       | -           | -         | -        | -      | -        | -         | 941          | 921        | 963       | October 28 at hour 11 | 8.5     | N        | 961        | October 28 | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -         | -        | -      | -        | -         | 2.1          | -14.3      | 16.9      | October 3 at hour 15  | 8.5     | SW       | 8.8        | October 6  | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -         | -        | -      | -        | -         | 22.3         | 21.8       | 23.4      | October 2 at hour 12  | 9       | S        | 23.0       | October 5  | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -         | -        | -      | -        | -         | 4.2          | 0.1        | 29.4      | October 6 at hour 18  | 29.4    | SW       | 19.5       | October 6  | 100.0       | 100.0          |
| WDV (sector)        | -           | -         | -        | -      | -        | -         | 227 (SW)     | -          | -         | -                     | -       | -        | -          | -          | 100.0       | 100.0          |
| 1- Date/ Time given | ic the fire | t minim   | ım and m | avimum | value th | at was re | ocordod      |            |           |                       |         |          |            |            |             |                |

| 1- Date | / Time given is | the first minimum | and maximum va | lue that was recorded |
|---------|-----------------|-------------------|----------------|-----------------------|
|---------|-----------------|-------------------|----------------|-----------------------|

| D                   | Object      | ives/Gui | delines  | E      | xceedanc | es       | a da walala da wa | Notice of the | Name a line | Date /Time             | VWS     | VWD      | 24 h       | D.I.        | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|--------|----------|----------|-------------------|---------------|-------------|------------------------|---------|----------|------------|-------------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr   | 24-hr    | 30-day   | Monthly Avg.      | Min. 1-hr     | Max. 1-hr   | Date/Time              | (km/hr) | (sector) | Max. 24-hr | Date        | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0      | 0        | 0        | 0.4               | 0             | 21          | November 23 at hour 22 | 5.7     | SW       | 2.1        | November 17 | 100.0       | 95.0           |
| TRS (ppb)           | 10          | 3        | -        | -      | -        | -        | 0.42              | 0.27          | 0.88        | November 15 at hour 14 | 12.1    | SSW      | 0.49       | November 15 | 100.0       | 94.8           |
| THC (ppm)           | -           | -        | -        | -      | -        | -        | 1.99              | 1.92          | 2.35        | November 15 at hour 14 | 12.1    | SSW      | 2.04       | November 29 | 100.0       | 95.1           |
| CH4 (ppm)           | -           | -        | -        | -      | -        | -        | 1.99              | 1.92          | 2.16        | November 15 at hour 14 | 12.1    | SSW      | 2.04       | November 29 | 100.0       | 95.1           |
| NMHC (ppm)          | -           | -        | -        | -      | -        | -        | 0.00              | 0.00          | 0.19        | November 15 at hour 14 | 12.1    | SSW      | 0.01       | November 15 | 100.0       | 95.1           |
| RH (%)              | -           | -        | -        | -      | -        | -        | 81.9              | 45            | 96          | November 1 at hour 21  | 7.4     | SW       | 93.0       | November 13 | 100.0       | 100.0          |
| BP (millibar)       | -           | -        | -        | -      | -        | -        | 944               | 923           | 967         | November 10 at hour 8  | 4.5     | SW       | 964        | November 10 | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -        | -        | -      | -        | -        | -5.5              | -19.7         | 7.2         | November 17 at hour 15 | 12.1    | SW       | 4.7        | November 17 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -        | -        | -      | -        | -        | 22.1              | 21.5          | 23.2        | November 17 at hour 16 | 14.2    | SW       | 22.5       | November 17 | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -        | -        | -      | -        | -        | 3.4               | 0.3           | 30.4        | November 22 at hour 19 | 30.4    | WSW      | 19.2       | November 22 | 100.0       | 100.0          |
| WDV (sector)        | -           | -        | -        | -      | -        | -        | 215 (SSW)         | -             | -           | -                      | -       | -        | -          | -           | 100.0       | 100.0          |
| 1- Date/ Time given | ic the fire | t minim  | ım and m | avimum | walua th | at was r | ocordod           |               |             |                        |         |          |            |             |             |                |

<sup>1-</sup> Date/ Time given is the first minimum and maximum value that was recorded

| r 24 | l-hr 30 |       |      |       | es     |              | Adv. d. box                                    | 50 4 h  | Date /There   | vws   | VWD  | 0.0 m. 0.0 los  | D-1-  | Operational   | 1/-11-1 D-1 (0/)   |
|------|---------|-------|------|-------|--------|--------------|--|---|---|---|--|---|---|---|--|
|      | -111 30 | )-day | 1-hr | 24-hr | 30-day | Monthly Avg. | Min. 1-hr                                      | Max. 1-hr   | Date/Time   | (km/hr)   | (sector)   | Max. 24-hr  | Date  | Uptime (%)  | Valid Data (%)   |
| 2 4  | 18      | 11    | 0    | 0     | 0      | 0.2          | 0  | 3   | December 15 at hour 3   | 4.8   | SSE  | 0.7   | December 6  | 100.0   | 95.0   |
|      | 3       | -     | -    | -     | -      | 0.45         | 0.02   | 0.68  | December 22 at hour 4   | 2.6   | N  | 0.52  | December 5  | 100.0   | 95.0   |
|      | -       | -     | -    | -     | -      | 2.04         | 1.94   | 2.45  | December 20 at hour 2   | 5   | NE   | 2.12  | December 21   | 100.0   | 95.1   |
|      | -       | -     | -    | -     | -      | 2.04         | 1.94   | 2.45  | December 20 at hour 2   | 5   | NE   | 2.12  | December 21   | 100.0   | 95.1   |
|      | -       | -     | -    | -     | -      | 0.00         | 0.00   | 0.00  | December 1 at hour 0  | 8.1   | S  | 0.00  | December 1  | 100.0   | 95.1   |
|      | -       | -     | -    | -     | -      | 77.6         | 37   | 93  | December 17 at hour 10  | 6.3   | SE   | 87.1  | December 21   | 100.0   | 100.0  |
|      | -       | -     | -    | -     | -      | 937          | 919  | 950   | December 9 at hour 9  | 3.8   | E  | 948   | December 9  | 100.0   | 100.0  |
|      | -       | -     | -    | -     | -      | -9.7         | -24.7  | 3.3   | December 17 at hour 17  | 26.5  | SSW  | -0.4  | December 29   | 100.0   | 100.0  |
|      | -       | -     | -    | -     | -      | 22.1         | 20.8   | 22.4  | December 2 at hour 8  | 13.7  | SSW  | 22.3  | December 3  | 100.0   | 100.0  |
|      | -       | -     | -    | -     | -      | 4.3          | 0.1  | 30.2  | December 2 at hour 20   | 30.2  | WSW  | 17.0  | December 2  | 100.0   | 100.0  |
|      | -       | -     | -    | -     | -      | 195 (SSW)    | -  | -   | -   | -   | -  | -   | -   | 100.0   | 100.0  |
|      |         |       |      |       |        |              | 2.04 2.04 2.04 0.00 77.6 937 9.7 4.3 195 (SSW) | 2.04 1.94 2.04 1.94 0.00 0.00 77.6 37 937 919 22.1 20.8 4.3 0.1 195 (SSW) | 2.04 1.94 2.45 2.04 1.94 2.45 0.00 0.00 0.00 77.6 37 93 937 919 950 9.7 -24.7 3.3 22.1 20.8 22.4 4.3 0.1 30.2 | 2.04 1.94 2.45 December 20 at hour 2 0.00 0.00 0.00 December 1 at hour 0 77.6 37 93 December 17 at hour 10 937 919 950 December 9 at hour 9 2.1 20.8 22.4 December 2 at hour 8 1.5 2.1 20.8 22.4 December 2 at hour 8 195 (SSW) | 2.04 1.94 2.45 December 20 at hour 2 5 2.04 1.94 2.45 December 20 at hour 2 5 0.00 0.00 0.00 December 1 at hour 0 8.1 77.6 37 93 December 1 at hour 10 6.3 937 919 950 December 9 at hour 9 3.8 22.1 20.8 22.4 December 2 at hour 8 13.7 4.3 0.1 30.2 December 2 at hour 20 30.2 195 (SSW) | 2.04 1.94 2.45 December 20 at hour 2 5 NE 2.04 1.94 2.45 December 20 at hour 2 5 NE 0.00 0.00 0.00 December 1 at hour 0 8.1 S 77.6 37 93 December 17 at hour 10 6.3 SE 937 919 950 December 9 at hour 9 3.8 E | -         -         -         -         2.04         1.94         2.45         December 20 at hour 2         5         NE         2.12           -         -         -         -         2.04         1.94         2.45         December 20 at hour 2         5         NE         2.12           -         -         -         -         -         0.00         0.00         December 1 at hour 0         8.1         S         0.00           -         -         -         -         -         77.6         37         93         December 1 at hour 10         6.3         SE         87.1           -         -         -         -         -         937         919         950         December 3 at hour 9         3.8         E         948           -         -         -         -         -         -9.7         -24.7         3.3         December 9 at hour 9         3.8         E         948           -         -         -         -         -9.7         -24.7         3.3         December 17 at hour 17         26.5         SSW         -0.4           -         -         -         -         -         22.1         20.8         22.4< | 2.04 1.94 2.45 December 20 at hour 2 5 NE 2.12 December 21 2.04 1.94 2.45 December 20 at hour 2 5 NE 2.12 December 21 0.00 0.00 0.00 December 1 at hour 0 8.1 S 0.00 December 1 77.6 37 93 December 17 at hour 10 6.3 SE 87.1 December 21 937 919 950 December 9 at hour 9 3.8 E 948 December 9 | -         -         -         -         2.04         1.94         2.45         December 20 at hour 2         5         NE         2.12         December 21         100.0           -         -         -         -         -         2.04         1.94         2.45         December 20 at hour 2         5         NE         2.12         December 21         100.0           -         -         -         -         -         0.00         0.00         December 3         0.00         December 1         100.0           -         -         -         -         -         -         77.6         37         93         December 1 at hour 10         6.3         SE         87.1         December 21         100.0           -         -         -         -         -         937         919         950         December 9 at hour 9         3.8         E         948         December 9         100.0           -         -         -         -         -         -         -9.7         -24.7         3.3         December 17 at hour 17         26.5         SSW         -0.4         December 2         100.0           -         -         -         -         - |

#### Reno Station:

Monthly reports for August, September, October, November and December: An error was discovered on the Summary of Hourly Averages and Summary of Hourly Instantaneous Maximums for all parameters. Incorrect dates of Maximum Daily Value (Max. 24-hr) were displayed on the summary table. The error was due to an incorrect formula being setup on the report template, which was used for the report preparation. The correct dates of Max. 24-hr are presented on the revised Monitored Data Summaries, which are presented in the following pages.

Monthly reports for January to December: Errors were discovered on the Monitored Data Summary. The dates of maximum 24-hour average (Max. 24-hr) for all parameters incorrectly were referred to the minimum 24-hour average instead. The revised Monitored Data Summaries are presented in the following pages.

| Parameter          | Object      | ives/Gui | delines  | E       | cceedanc | es        | Nameth by Ave | Min. 1-hr   | Max. 1-hr   | Date/Time             | WSV     | WDV      | Max. 24-hr   | Date       | Operational | Valid Data (%) |
|--------------------|-------------|----------|----------|---------|----------|-----------|---------------|-------------|-------------|-----------------------|---------|----------|--------------|------------|-------------|----------------|
| Parameter          | 1-hr        | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | Monthly Avg.  | IVIIN. 1-NF | iviax. 1-nr | Date/ Time            | (km/hr) | (sector) | Iviax. 24-nr | Date       | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)          | 172         | 48       | 11       | 0       | 0        | 0         | 0.0           | 0           | 2           | January 19 at hour 11 | 7.3     | SE       | 1.0          | January 19 | 100.0       | 94.6           |
| TRS (ppb)          | 10          | 3        | -        | -       | -        | -         | 0.41          | 0.32        | 1.33        | January 29 at hour 6  | 3.2     | S        | 0.619        | January 29 | 100.0       | 94.6           |
| THC (ppm)          | -           | -        | -        | -       | -        | -         | 2.03          | 1.91        | 3.28        | January 3 at hour 23  | 1       | ENE      | 2.16         | January 4  | 99.6        | 94.2           |
| CH4 (ppm)          | -           | -        | -        | -       | -        | -         | 2.03          | 1.91        | 3.28        | January 3 at hour 23  | 1       | ENE      | 2.16         | January 4  | 99.6        | 94.2           |
| NMHC (ppm)         | -           | -        | -        | -       | -        | -         | 0.00          | 0.00        | 0.01        | January 14 at hour 3  | 5.9     | S        | 0.00         | January 1  | 99.6        | 94.2           |
| RH (%)             | -           | -        | -        | -       | -        | -         | 72.3          | 53          | 92          | January 13 at hour 20 | 5.2     | S        | 87.2         | January 13 | 100.0       | 100.0          |
| BP (millibar)      | -           | -        | -        | -       | -        | -         | 937           | 916         | 955         | January 27 at hour 22 | 5.3     | NNW      | 954          | January 28 | 100.0       | 100.0          |
| Ext. Temp. (°C)    | -           | -        | -        | -       | -        | -         | -9.5          | -29.2       | 6.1         | January 26 at hour 15 | 19      | WSW      | 4.4          | January 26 | 100.0       | 100.0          |
| Stn. Temp. (°C)    | -           | -        | -        | -       | -        | -         | 22.4          | 17.8        | 24.4        | January 10 at hour 12 | 5.9     | SE       | 23.7         | January 12 | 100.0       | 100.0          |
| WSV (km/hr)        | -           | -        | -        | -       | -        | -         | 0.8           | 0.3         | 21.7        | January 26 at hour 20 | 21.7    | WSW      | 12.9         | January 26 | 100.0       | 100.0          |
| WDV (sector)       | -           | -        | -        | -       | -        | -         | 242(WSW)      | -           | -           | -                     | -       | -        | -            | -          | 100.0       | 100.0          |
| 1. Data/Time given | is the firs | t minimi | ım and m | naximum | value th | at were r | ecorded       |             |             |                       |         |          |              |            |             |                |

| 1. Data | / Time given is | s the first minimum and | maximum value that were recorded. |
|---------|-----------------|-------------------------|-----------------------------------|
|---------|-----------------|-------------------------|-----------------------------------|

| B                   | Object      | ives/Gui | delines  | E:     | kceedand | es       |              | net a bu  | Max. 1-hr   | Date/Time              | VWS     | VWD      | Max. 24-hr   | Date        | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|--------|----------|----------|--------------|-----------|-------------|------------------------|---------|----------|--------------|-------------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr   | 24-hr    | 30-day   | Monthly Avg. | Min. 1-hr | iviax. 1-nr | Date/ lime             | (km/hr) | (sector) | Iviax. 24-nr | Date        | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0      | 0        | 0        | 0.1          | 0         | 2           | February 6 at hour 11  | 4.8     | S        | 0.6          | February 8  | 100.0       | 94.9           |
| TRS (ppb)           | 10          | 3        | -        | -      | -        | -        | 0.44         | 0.23      | 3.57        | February 10 at hour 22 | 1.2     | SSW      | 0.717        | February 10 | 100.0       | 94.5           |
| THC (ppm)           | -           | -        | -        | -      | -        | -        | 2.18         | 1.93      | 10.23       | February 24 at hour 21 | 1.5     | SW       | 3.19         | February 24 | 100.0       | 94.8           |
| CH4 (ppm)           | -           | -        | -        | -      | -        | -        | 2.18         | 1.93      | 10.18       | February 24 at hour 21 | 1.5     | SW       | 3.19         | February 24 | 100.0       | 94.8           |
| NMHC (ppm)          | -           | -        | -        | -      | -        | -        | 0.00         | 0.00      | 0.05        | February 24 at hour 21 | 1.5     | SW       | 0.00         | February 24 | 100.0       | 94.8           |
| RH (%)              | -           | -        | -        | -      | -        | -        | 61.3         | 43        | 87          | February 19 at hour 21 | 5.3     | WSW      | 76.6         | February 19 | 100.0       | 100.0          |
| BP (millibar)       | -           | -        | -        | -      | -        | -        | 944          | 926       | 964         | February 8 at hour 20  | 3.5     | NNE      | 959          | February 8  | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -        | -        | -      | -        | -        | -21.9        | -38.1     | -3.4        | February 27 at hour 16 | 8.5     | WSW      | -7.5         | February 27 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -        | -        | -      | -        | -        | 22.4         | 18.3      | 23.2        | February 6 at hour 1   | -       | -        | 22.7         | February 19 | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -        | -        | -      | -        | -        | 0.9          | 0.8       | 18.1        | February 28 at hour 19 | 18.1    | NNE      | 9.7          | February 1  | 95.4        | 95.4           |
| WDV (sector)        | -           | -        | -        | -      | -        | -        | 330(NNW)     | -         | -           | -                      | -       | -        | -            | =           | 95.4        | 95.4           |
| 1- Date/ Time given | ic the fire | + minim  | ım and m | avimum | ualua th | at was r | acardad      |           |             |                        |         |          |              |             |             |                |

<sup>1-</sup> Date/ Time given is the first minimum and maximum value that was recorded

| B                   | Object | ives/Gui | delines | E    | ceedanc | ces       |              | nation at his | 20 4 h    | Data (Tara          | VWS*    | VWD*     | NA 24 h    | D-1-     | Operational | Valid Data (%) |
|---------------------|--------|----------|---------|------|---------|-----------|--------------|---------------|-----------|---------------------|---------|----------|------------|----------|-------------|----------------|
| Parameter           | 1-hr   | 24-hr    | 30-day  | 1-hr | 24-hr   | 30-day    | Monthly Avg. | Min. 1-hr     | Max. 1-hr | Date/Time           | (km/hr) | (sector) | Max. 24-hr | Date     | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172    | 48       | 11      | 0    | 0       | 0         | 0.4          | 0             | 3         | March 22 at hour 8  | 5.2     | SW       | 1.3        | March 8  | 100.0       | 95.1           |
| TRS (ppb)*          | 10     | 3        | -       | -    | -       | -         | 0.28         | 0.09          | 1.01      | March 27 at hour 18 | Х       | Χ        | 0.50       | March 27 | 92.2        | 87.7           |
| THC (ppm)           | -      | -        | -       | -    | -       | -         | 2.11         | 1.95          | 6.31      | March 7 at hour 20  | 2       | SSW      | 2.40       | March 7  | 100.0       | 95.1           |
| CH4 (ppm)           | -      | -        | -       | -    | -       | -         | 2.11         | 1.95          | 6.31      | March 7 at hour 20  | 2       | SSW      | 2.40       | March 7  | 100.0       | 95.1           |
| NMHC (ppm)          | -      | -        | -       | -    | -       | -         | 0.00         | 0.00          | 0.36      | March 18 at hour 23 | 3.8     | SSW      | 0.02       | March 18 | 100.0       | 95.1           |
| RH (%)              | -      | -        | -       | -    | -       | -         | 55.7         | 18            | 91        | March 12 at hour 2  | 10.2    | WSW      | 73.6       | March 25 | 100.0       | 100.0          |
| BP (millibar)       | -      | -        | -       | -    | -       | -         | 943          | 919           | 964       | March 2 at hour 2   | 1.9     | SSW      | 964        | March 2  | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -      | -        | -       | -    | -       | -         | -3.4         | -33.6         | 17.3      | March 21 at hour 15 | 4.4     | S        | 6.8        | March 23 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -      | -        | -       | -    | -       | -         | 23.0         | 21.3          | 26.3      | March 14 at hour 16 | 5.9     | SSE      | 23.6       | March 11 | 100.0       | 100.0          |
| WSV (km/hr)         | -      | -        | -       | -    | -       | -         | 2.6          | 0.3           | 15.3      | March 23 at hour 10 | 15.3    | ESE      | 11.8       | March 23 | 96.4        | 96.4           |
| WDV (sector)        | -      | -        | -       | -    | -       | -         | 215(SSW)     | -             | -         | -                   | -       | 1        | -          | -        | 96.4        | 96.4           |
| 1- Date/ Time given |        |          |         |      |         | at was re | ecorded      |               |           |                     |         |          |            |          |             |                |

<sup>\*</sup> Flag of "X" is used if VWS and VWD data are not valid.

| Parameter           | Object      | ives/Gui | delines  | E:      | ceedan   | ces        | Monthly Avg.   | Min. 1-hr     | Max. 1-hr    | Date/Time           | VWS     | VWD      | Max. 24-hr    | Date     | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|---------|----------|------------|----------------|---------------|--------------|---------------------|---------|----------|---------------|----------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day     | iviontiny Avg. | IVIIII. 1-III | IVIdX. 1-III | Date/ fille         | (km/hr) | (sector) | IVIAX. 24-III | Date     | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0       | 0        | 0          | 0.2            | 0             | 1            | April 1 at hour 6   | 7.4     | WSW      | 0.8           | April 14 | 99.9        | 94.6           |
| TRS (ppb)           | 10          | 3        | -        | -       | -        | -          | 0.37           | 0.24          | 1.36         | April 22 at hour 19 | 15.8    | WSW      | 0.53          | April 22 | 99.9        | 94.4           |
| THC (ppm)           | -           | -        | -        | -       | -        | -          | 1.99           | 1.92          | 3.85         | April 10 at hour 21 | 1.6     | SSW      | 2.16          | April 10 | 99.2        | 94.0           |
| CH4 (ppm)           | -           | -        | -        | -       | -        | -          | 1.99           | 1.92          | 3.85         | April 10 at hour 21 | 1.6     | SSW      | 2.16          | April 10 | 99.2        | 94.0           |
| NMHC (ppm)          | -           | -        | -        | -       | -        | -          | 0.00           | 0.00          | 0.02         | April 11 at hour 0  | 2.5     | SSW      | 0.00          | April 11 | 99.2        | 94.0           |
| RH (%)              | -           | -        | -        | -       | -        | -          | 52.1           | 12            | 93           | April 7 at hour 5   | 1.9     | S        | 80.1          | April 15 | 100.0       | 100.0          |
| BP (millibar)       | -           | -        | -        | -       | -        | -          | 936            | 920           | 951          | April 28 at hour 8  | 10.1    | NNE      | 950           | April 28 | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -        | -        | -       | -        | -          | 3.5            | -6.8          | 15.0         | April 18 at hour 15 | 12      | W        | 8.4           | April 18 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -        | -        | -       | -        | -          | 23.5           | 22.3          | 25.4         | April 17 at hour 12 | 11      | W        | 23.9          | April 18 | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -        | -        | -       | -        | -          | 1.9            | 0.4           | 17.6         | April 17 at hour 13 | 17.6    | WSW      | 11.4          | April 23 | 100.0       | 99.9           |
| WDV (sector)        | -           | -        | -        | -       | -        | -          | 260 (WSW)      | -             | -            | -                   | -       | -        | -             | -        | 100.0       | 99.9           |
| 1- Date/ Time given | is the firs | t minimu | ım and m | naximum | value th | nat was re | ecorded        |               |              |                     |         |          |               |          |             |                |

| Parameter           | Object      | ives/Gui | delines  | E       | ceedanc  | es        | Namethia Ave | Min. 1-hr   | Max. 1-hr   | Date/Time         | VWS     | VWD      | Max. 24-hr   | Date   | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|---------|----------|-----------|--------------|-------------|-------------|-------------------|---------|----------|--------------|--------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | Monthly Avg. | IVIIN. 1-NF | iviax. 1-nr | Date/Time         | (km/hr) | (sector) | iviax. 24-nr | Date   | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0       | 0        | 0         | 0.1          | 0           | 2           | May 29 at hour 6  | 4.5     | SSW      | 0.8          | May 29 | 99.7        | 94.7           |
| TRS (ppb)           | 10          | 3        | -        | -       | -        | -         | 0.44         | 0.29        | 3.59        | May 30 at hour 8  | 12.3    | NNE      | 1.31         | May 30 | 97.6        | 92.6           |
| THC (ppm)           | -           | -        | -        | -       | -        | -         | 2.00         | 1.92        | 3.20        | May 30 at hour 8  | 12.3    | NNE      | 2.23         | May 30 | 97.6        | 92.6           |
| CH4 (ppm)           | -           | -        | -        | -       | -        | -         | 1.99         | 1.92        | 2.53        | May 30 at hour 8  | 12.3    | NNE      | 2.11         | May 30 | 97.6        | 92.6           |
| NMHC (ppm)          | -           | -        | -        | -       | -        | -         | 0.00         | 0.00        | 0.67        | May 30 at hour 8  | 12.3    | NNE      | 0.12         | May 30 | 97.6        | 92.6           |
| RH (%)              | -           | -        | -        | -       | -        | -         | 41.8         | 11          | 92          | May 24 at hour 5  | 2.1     | NE       | 73.1         | May 1  | 100.0       | 100.0          |
| BP (millibar)       | -           | -        | -        | -       | -        | -         | 938          | 926         | 948         | May 8 at hour 8   | 5.2     | WSW      | 947          | May 8  | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 11.3         | -6.9        | 29.0        | May 29 at hour 14 | 9.3     | W        | 21.9         | May 29 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 24.1         | 22.1        | 26.3        | May 15 at hour 14 | 12      | ENE      | 25.1         | May 29 | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -        | -        | -       | -        | -         | 1.7          | 0.0         | 20.4        | May 17 at hour 13 | 20.4    | ESE      | 14.2         | May 17 | 100.0       | 100.0          |
| WDV (sector)        | -           | -        | -        | -       | -        | -         | 107 (ESE)    | 1           | -           | -                 | -       | -        | -            | -      | 100.0       | 100.0          |
| 1- Date/ Time given | is the firs | t minimu | um and m | naximum | value th | at was re | ecorded      |             |             |                   |         |          |              |        |             |                |

| Parameter           | Object      | ives/Gui | delines  | E)     | kceedanc | es       | Barrahlı Ava | Min. 1-hr   | Max. 1-hr   | Date/Time          | VWS     | VWD      | Max. 24-hr   | Date    | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|--------|----------|----------|--------------|-------------|-------------|--------------------|---------|----------|--------------|---------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr   | 24-hr    | 30-day   | Monthly Avg. | IVIIN. 1-NF | iviax. 1-nr | Date/ lime         | (km/hr) | (sector) | iviax. 24-nr | Date    | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0      | 0        | 0        | 0.0          | 0           | 1           | June 1 at hour 0   | 1.9     | S        | 0.3          | June 17 | 99.9        | 94.7           |
| TRS (ppb)           | 10          | 3        | -        | -      | -        | -        | 0.46         | 0.19        | 3.50        | June 16 at hour 5  | 1.4     | SSW      | 0.94         | June 17 | 99.7        | 94.4           |
| THC (ppm)           | -           | -        | -        | -      | -        | -        | 1.94         | 1.87        | 2.30        | June 21 at hour 21 | 0.3     | SW       | 1.99         | June 22 | 99.9        | 94.6           |
| CH4 (ppm)           | -           | -        | -        | -      | -        | -        | 1.94         | 1.87        | 2.30        | June 21 at hour 21 | 0.3     | SW       | 1.99         | June 22 | 99.9        | 94.6           |
| NMHC (ppm)          | -           | -        | -        | -      | -        | -        | 0.00         | 0.00        | 0.00        | June 1 at hour 0   | 1.9     | S        | 0.00         | June 1  | 99.9        | 94.6           |
| RH (%)              | -           | -        | -        | -      | -        | -        | 62.4         | 17          | 100         | June 25 at hour 3  | 4       | W        | 87.6         | June 20 | 100.0       | 100.0          |
| BP (millibar)       | -           | -        | -        | -      | -        | -        | 938          | 929         | 946         | June 9 at hour 6   | 3.4     | SW       | 945          | June 9  | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -        | -        | -      | -        | -        | 14.0         | 3.6         | 29.3        | June 17 at hour 15 | 4.5     | SSW      | 20.5         | June 17 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -        | -        | -      | -        | -        | 23.3         | 21.2        | 30.8        | June 12 at hour 17 | 10      | W        | 26.2         | June 12 | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -        | -        | -      | -        | -        | 2.1          | 0.0         | 18.1        | June 18 at hour 16 | 18.1    | WSW      | 12.5         | June 20 | 100.0       | 100.0          |
| WDV (sector)        | -           | -        | -        | -      | -        | -        | 293 (WNW)    | 1           | -           | -                  | -       | -        | -            | -       | 100.0       | 100.0          |
| 1- Date/ Time given | is the firs | t minim  | ım and m | aximum | value th | at was r | ecorded      |             |             | •                  |         |          |              |         |             |                |

| Parameter           | Object   | ives/Gui | delines | E    | cceedanc | es     | Danathh. A.a. | Min. 1-hr   | Max. 1-hr   | Date/Time          | VWS     | VWD      | Max. 24-hr   | Date    | Operational | Valid Data (%) |
|---------------------|--|----------|---------|------|----------|--------|---------------|-------------|-------------|--------------------|---------|----------|--------------|---------|-------------|----------------|
| Parameter           | 1-hr   | 24-hr    | 30-day  | 1-hr | 24-hr    | 30-day | Monthly Avg.  | IVIIN. 1-NF | iviax. 1-nr | Date/Time          | (km/hr) | (sector) | iviax. 24-nr | Date    | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172  | 48       | 11      | 0    | 0        | 0      | 0.0           | 0           | 2           | July 21 at hour 9  | 3.8     | S        | 0.2          | July 21 | 100.0       | 94.9           |
| TRS (ppb)           | 10   | 3        | -       | -    | -        | -      | 0.49          | 0.22        | 4.56        | July 31 at hour 6  | 1.9     | SW       | 1.17         | July 31 | 100.0       | 94.7           |
| THC (ppm)           | -  | -        | -       | -    | -        | -      | 1.97          | 1.88        | 2.60        | July 9 at hour 6   | 0.7     | SSW      | 2.08         | July 9  | 100.0       | 94.9           |
| CH4 (ppm)           | -  | -        | -       | -    | -        | -      | 1.97          | 1.88        | 2.60        | July 9 at hour 6   | 0.7     | SSW      | 2.08         | July 9  | 100.0       | 94.9           |
| NMHC (ppm)          | -  | -        | -       | -    | -        | -      | 0.00          | 0.00        | 0.00        | July 1 at hour 0   | 6.4     | WNW      | 0.00         | July 1  | 100.0       | 94.9           |
| RH (%)              | -  | -        | -       | -    | -        | -      | 73.6          | 38          | 100         | July 11 at hour 3  | 2.2     | SW       | 92.2         | July 24 | 100.0       | 100.0          |
| BP (millibar)       | -  | -        | -       | -    | -        | -      | 938           | 925         | 950         | July 5 at hour 4   | 0.7     | ENE      | 949          | July 5  | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -  | -        | -       | -    | -        | -      | 15.3          | 2.8         | 27.3        | July 23 at hour 17 | 2       | SSE      | 21.2         | July 23 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -  | -        | -       | -    | -        | -      | 22.2          | 21.0        | 25.3        | July 4 at hour 16  | 10.5    | NE       | 23.1         | July 4  | 100.0       | 100.0          |
| WSV (km/hr)         | -  | -        | -       | -    | -        | -      | 1.9           | 0.0         | 14.4        | July 26 at hour 13 | 14.4    | WSW      | 9.3          | July 25 | 100.0       | 100.0          |
| WDV (sector)        | -  | -        | -       | -    | -        | -      | 273 (W)       | -           | -           | -                  | -       | 1        | -            | -       | 100.0       | 100.0          |
| 1- Date/ Time given | e/ Time given is the first minimum and maximum value that was recorded |          |         |      |          |        |               |             |             |                    |         |          |              |         |             |                |

| Parameter             | Object      | ives/Gui | delines  |         | cceedanc |           | Monthly Avg. | Min. 1-hr     | Max. 1-hr    | Date/Time            | VWS     | VWD      | Max. 24-hr    | Date      | Operational | Valid Data (%)  |
|-----------------------|-------------|----------|----------|---------|----------|-----------|--------------|---------------|--------------|----------------------|---------|----------|---------------|-----------|-------------|-----------------|
| raiametei             | 1-hr        | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | Worthly Avg. | IVIIII. 1-III | IVIAX. 1-III | Date/ Illile         | (km/hr) | (sector) | IVIAX. 24-111 | Date      | Uptime (%)  | Valid Data (76) |
| SO2 (ppb)             | 172         | 48       | 11       | 0       | 0        | 0         | 0.0          | 0             | 1            | August 1 at hour 0   | 0.2     | SW       | 0.4           | August 21 | 100.0       | 95.1            |
| TRS (ppb)             | 10          | 3        | -        | -       | -        | -         | 0.51         | 0.18          | 3.73         | August 27 at hour 6  | 1.7     | S        | 1.05          | August 23 | 97.8        | 93.0            |
| THC (ppm)             | -           | -        | -        | -       | -        | -         | 1.99         | 1.88          | 3.10         | August 29 at hour 2  | 0.8     | SW       | 2.18          | August 29 | 97.7        | 93.0            |
| CH4 (ppm)             | -           | -        | -        | -       | -        | -         | 1.99         | 1.88          | 3.10         | August 29 at hour 2  | 0.8     | SW       | 2.18          | August 29 | 97.7        | 93.0            |
| NMHC (ppm)            | -           | -        | -        | -       | -        | -         | 0.00         | 0.00          | 0.00         | August 1 at hour 0   | 0.2     | SW       | 0.00          | August 1  | 97.7        | 93.0            |
| RH (%)                | -           | -        | -        | -       | -        | -         | 73.2         | 30            | 97           | August 1 at hour 5   | 0.8     | SSW      | 89.0          | August 8  | 97.8        | 97.8            |
| BP (millibar)         | -           | -        | -        | -       | -        | -         | 939          | 928           | 945          | August 6 at hour 4   | 3.6     | NNE      | 944           | August 29 | 97.8        | 97.8            |
| Ext. Temp. (°C)       | -           | -        | -        | -       | -        | -         | 13.4         | 2.5           | 26.0         | August 21 at hour 14 | 2.1     | S        | 19.8          | August 21 | 97.8        | 97.8            |
| Stn. Temp. (°C)       | -           | -        | -        | -       | -        | -         | 22.6         | 21.1          | 23.5         | August 21 at hour 9  | 4       | S        | 23.2          | August 23 | 100.0       | 100.0           |
| WSV (km/hr)           | -           | -        | -        | -       | -        | -         | 1.3          | 0.0           | 13.9         | August 16 at hour 11 | 13.9    | N        | 8.1           | August 16 | 97.8        | 97.8            |
| WDV (sector)          | -           | -        | -        | -       | -        | -         | 270 (W)      | ı             | -            | -                    | -       | -        | -             | =         | 97.8        | 97.8            |
| 1- Date/ Time given i | is the firs | t minimu | ım and m | naximum | value th | at was re | corded       |               |              |                      |         |          |               |           |             |                 |

| Parameter             | Object     | ives/Gui | delines  | E       | ceedanc  | es        | Danathh. O.  | Min. 1-hr   | Max. 1-hr   | Date/Time               | VWS     | VWD      | Max. 24-hr   | Date         | Operational | Valid Data (%) |
|-----------------------|------------|----------|----------|---------|----------|-----------|--------------|-------------|-------------|-------------------------|---------|----------|--------------|--------------|-------------|----------------|
| Parameter             | 1-hr       | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | Monthly Avg. | IVIIN. 1-Nr | iviax. 1-nr | Date/Time               | (km/hr) | (sector) | iviax. 24-nr | Date         | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)             | 172        | 48       | 11       | 0       | 0        | 0         | 0.0          | 0           | 6           | September 11 at hour 13 | 4.6     | SE       | 0.3          | September 11 | 99.4        | 94.8           |
| TRS (ppb)             | 10         | 3        | -        | -       | -        | -         | 0.53         | 0.24        | 4.95        | September 17 at hour 5  | 1.5     | SW       | 1.80         | September 17 | 99.4        | 94.4           |
| THC (ppm)             | -          | -        | -        | -       | -        | -         | 1.97         | 1.87        | 2.43        | September 18 at hour 7  | 1.5     | SW       | 2.08         | September 18 | 99.3        | 94.4           |
| CH4 (ppm)             | -          | -        | -        | -       | -        | -         | 1.97         | 1.87        | 2.43        | September 18 at hour 7  | 1.5     | SW       | 2.08         | September 18 | 99.3        | 94.4           |
| NMHC (ppm)            | -          | -        | -        | -       | -        | -         | 0.00         | 0.00        | 0.04        | September 4 at hour 7   | 1.4     | S        | 0.00         | September 4  | 99.3        | 94.4           |
| RH (%)                | -          | -        | -        | -       | -        | -         | 71.0         | 33          | 96          | September 4 at hour 5   | 1.9     | SSW      | 90.4         | September 26 | 99.7        | 99.7           |
| BP (millibar)         | -          | -        | -        | -       | -        | -         | 938          | 926         | 954         | September 29 at hour 8  | 4.8     | SE       | 952          | September 28 | 99.7        | 99.7           |
| Ext. Temp. (°C)       | -          | -        | -        | -       | -        | -         | 10.1         | -4.0        | 23.1        | September 3 at hour 15  | 4.3     | W        | 15.9         | September 3  | 99.7        | 99.7           |
| Stn. Temp. (°C)       | -          | -        | -        | -       | -        | -         | 23.3         | 22.3        | 24.6        | September 11 at hour 18 | 2       | SSE      | 23.6         | September 11 | 99.7        | 99.7           |
| WSV (km/hr)           | -          | -        | -        | -       | -        | -         | 1.4          | 0.0         | 18.1        | September 21 at hour 14 | 18.1    | WSW      | 9.5          | September 21 | 99.7        | 99.7           |
| WDV (sector)          | -          | -        | -        | -       | -        | -         | 219 (SW)     | _           | -           | -                       | -       | -        | -            | -            | 99.7        | 99.7           |
| 1- Date/ Time given i | s the firs | t minim  | ım and m | naximum | value th | at was re | ecorded      |             |             |                         |         |          |              |              |             |                |

| Parameter           | Object      | ives/Gui | delines  | E:      | cceedanc | es        | Monthly Avg. | Min. 1-hr     | Max. 1-hr    | Date/Time             | VWS     | VWD      | Max. 24-hr    | Date       | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|---------|----------|-----------|--------------|---------------|--------------|-----------------------|---------|----------|---------------|------------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | wonthly Avg. | IVIIII. 1-III | IVIdX. 1-III | Date/ fille           | (km/hr) | (sector) | IVIdX. 24-III | Date       | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0       | 0        | 0         | 0.0          | 0             | 1            | October 3 at hour 6   | 4.9     | SSE      | 0.1           | October 30 | 98.1        | 93.0           |
| TRS (ppb)           | 10          | 3        | -        | -       | -        | -         | 0.37         | 0.22          | 2.45         | October 17 at hour 21 | 1.5     | SSW      | 0.78          | October 17 | 98.0        | 92.8           |
| THC (ppm)           | -           | -        | -        | -       | -        | -         | 2.00         | 1.90          | 2.67         | October 17 at hour 21 | 1.5     | SSW      | 2.10          | October 3  | 98.0        | 93.0           |
| CH4 (ppm)           | -           | -        | -        | -       | -        | -         | 2.00         | 1.90          | 2.48         | October 17 at hour 21 | 1.5     | SSW      | 2.10          | October 3  | 98.0        | 93.0           |
| NMHC (ppm)          | -           | -        | -        | -       | -        | -         | 0.00         | 0.00          | 0.24         | October 17 at hour 20 | 1       | SSW      | 0.02          | October 17 | 98.0        | 93.0           |
| RH (%)              | -           | -        | -        | -       | -        | -         | 69.5         | 22            | 99           | October 20 at hour 1  | 2.2     | W        | 95.7          | October 21 | 94.9        | 94.9           |
| BP (millibar)       | -           | -        | -        | -       | -        | -         | 938          | 917           | 958          | October 28 at hour 12 | 7.4     | N        | 956           | October 28 | 94.9        | 94.9           |
| Ext. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 2.0          | -14.2         | 17.0         | October 2 at hour 14  | 4.9     | S        | 8.8           | October 4  | 94.9        | 94.9           |
| Stn. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 23.0         | 19.7          | 24.0         | October 22 at hour 1  | 9.7     | SE       | 23.6          | October 24 | 98.4        | 98.4           |
| WSV (km/hr)         | -           | -        | -        | -       | -        | -         | 2.9          | 0.2           | 20.4         | October 6 at hour 14  | 20.4    | WSW      | 11.5          | October 6  | 93.4        | 93.4           |
| WDV (sector)        | -           | -        | -        | -       | -        | -         | 251 (WSW)    | 1             | -            | -                     | -       | -        | -             | -          | 93.4        | 93.4           |
| 1- Date/ Time given | is the firs | t minimu | um and m | naximum | value th | at was re | ecorded      |               |              |                       |         |          |               |            |             |                |

| Parameter           | Object      | ives/Gui | delines  | E       | cceedanc | es        | Monthly Avg. | Min. 1-hr    | Max. 1-hr    | Date/Time              | VWS     | VWD      | Max. 24-hr    | Date        | Operational | Valid Data (%) |
|---------------------|-------------|----------|----------|---------|----------|-----------|--------------|--------------|--------------|------------------------|---------|----------|---------------|-------------|-------------|----------------|
| Parameter           | 1-hr        | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | wonthly Avg. | Willi. 1-III | IVIdX. 1-III | Date/ fille            | (km/hr) | (sector) | IVIdX. 24-III | Date        | Uptime (%)  | Vallu Data (%) |
| SO2 (ppb)           | 172         | 48       | 11       | 0       | 0        | 0         | 0.0          | 0            | 1            | November 1 at hour 9   | 7.3     | WSW      | 0.2           | November 14 | 100.0       | 95.0           |
| TRS (ppb)           | 10          | 3        | -        | -       | -        | -         | 0.35         | 0.25         | 0.62         | November 11 at hour 9  | 4.2     | S        | 0.45          | November 16 | 100.0       | 94.7           |
| THC (ppm)           | -           | -        | -        | -       | -        | -         | 2.00         | 1.90         | 2.72         | November 5 at hour 21  | 1.2     | SSW      | 2.08          | November 11 | 100.0       | 95.0           |
| CH4 (ppm)           | -           | -        | -        | -       | -        | -         | 2.00         | 1.90         | 2.72         | November 5 at hour 21  | 1.2     | SSW      | 2.08          | November 11 | 100.0       | 95.0           |
| NMHC (ppm)          | -           | -        | -        | -       | -        | -         | 0.00         | 0.00         | 0.03         | November 5 at hour 22  | 0.9     | S        | 0.00          | November 5  | 100.0       | 95.0           |
| RH (%)              | -           | -        | -        | -       | -        | -         | 77.9         | 49           | 98           | November 1 at hour 23  | 4.6     | WSW      | 91.6          | November 2  | 100.0       | 100.0          |
| BP (millibar)       | -           | -        | -        | -       | -        | -         | 939          | 920          | 962          | November 10 at hour 8  | 1.4     | WSW      | 959           | November 10 | 100.0       | 100.0          |
| Ext. Temp. (°C)     | -           | -        | -        | -       | -        | -         | -5.1         | -21.9        | 8.9          | November 17 at hour 14 | 11.8    | WSW      | 4.9           | November 17 | 100.0       | 100.0          |
| Stn. Temp. (°C)     | -           | -        | -        | -       | -        | -         | 22.2         | 19.1         | 23.1         | November 29 at hour 18 | 4.4     | S        | 22.6          | November 21 | 100.0       | 100.0          |
| WSV (km/hr)         | -           | -        | -        | -       | -        | -         | 1.9          | 0.3          | 19.3         | November 23 at hour 3  | 19.3    | WSW      | 11.4          | November 22 | 100.0       | 100.0          |
| WDV (sector)        | -           | -        | -        | -       | -        | -         | 242 (WSW)    | -            | -            | -                      | -       | 1        | -             | =           | 100.0       | 100.0          |
| 1- Date/ Time given | is the firs | t minimu | ım and n | naximum | value th | at was re | ecorded      |              |              |                        |         |          |               | _           |             |                |

| Parameter       | Object | ives/Gui | delines | E    | kceedand | es     | 0.00-0.00-0.00 | nain a hu | Max. 1-hr   | Date/Time              | vws     | VWD      | Max. 24-hr   | Date        | Operational | Valid Data (%) |
|-----------------|--------|----------|---------|------|----------|--------|----------------|-----------|-------------|------------------------|---------|----------|--------------|-------------|-------------|----------------|
| Parameter       | 1-hr   | 24-hr    | 30-day  | 1-hr | 24-hr    | 30-day | Monthly Avg.   | Min. 1-hr | iviax. 1-nr | Date/Time              | (km/hr) | (sector) | iviax. 24-nr | Date        | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)       | 172    | 48       | 11      | 0    | 0        | 0      | 0.1            | 0         | 1           | December 1 at hour 8   | 3.9     | S        | 0.7          | December 19 | 100.0       | 95.3           |
| TRS (ppb)       | 10     | 3        | -       | -    | -        | -      | 0.40           | 0.01      | 0.95        | December 3 at hour 23  | 1.8     | S        | 0.53         | December 21 | 100.0       | 95.3           |
| THC (ppm)       | -      | -        | -       | -    | -        | -      | 2.05           | 1.91      | 2.54        | December 25 at hour 6  | 4.5     | S        | 2.22         | December 22 | 100.0       | 95.4           |
| CH4 (ppm)       | -      | -        | -       | -    | -        | -      | 2.05           | 1.91      | 2.54        | December 25 at hour 6  | 4.5     | S        | 2.21         | December 22 | 100.0       | 95.4           |
| NMHC (ppm)      | -      | -        | -       | -    | -        | -      | 0.00           | 0.00      | 0.02        | December 14 at hour 1  | 5.5     | SSW      | 0.00         | December 22 | 100.0       | 95.4           |
| RH (%)          | -      | -        | -       | -    | -        | -      | 72.0           | 38        | 89          | December 31 at hour 20 | 2.6     | SSW      | 79.7         | December 21 | 100.0       | 100.0          |
| BP (millibar)   | -      | -        | -       | -    | -        | -      | 932            | 915       | 944         | December 9 at hour 6   | 2.7     | NNE      | 943          | December 9  | 100.0       | 100.0          |
| Ext. Temp. (°C) | -      | -        | -       | -    | -        | -      | -9.7           | -20.6     | 3.5         | December 17 at hour 20 | 17.2    | WSW      | -0.7         | December 3  | 100.0       | 100.0          |
| Stn. Temp. (°C) | -      | -        | -       | -    | -        | -      | 22.4           | 20.4      | 23.8        | December 16 at hour 21 | 3.8     | S        | 23.5         | December 16 | 100.0       | 100.0          |
| WSV (km/hr)     | -      | -        | -       | -    | -        | -      | 2.5            | 0.0       | 17.3        | December 2 at hour 21  | 17.3    | WSW      | 9.8          | December 2  | 100.0       | 100.0          |
| WDV (sector)    | -      | -        | -       | -    | -        | -      | 206 (SSW)      | -         | -           | -                      | -       | -        | -            | -           | 100.0       | 100.0          |

#### AQHI - Cadotte Lake Station:

Monthly reports for October, November and December: An error was discovered on the Summary of Hourly Averages and Summary of Hourly Instantaneous Maximums for all parameters. Incorrect dates of Maximum Daily Value (Max. 24-hr) were displayed on the summary table. The error was due to an incorrect formula being setup on the report template, which was used for the report preparation. The correct dates of Max. 24-hr are presented on the revised Monitored Data Summaries, which are presented in the following pages.

Monthly reports for October to December: Errors were discovered on the Monitored Data Summary. The dates of maximum 24-hour average (Max. 24-hr) for all parameters incorrectly were referred to the minimum 24-hour average instead. The revised Monitored Data Summaries are presented in the following pages.

| Parameter       | Object | ives/Gui | delines | E    | ceedanc |        | Monthly Avg. | Min. 1-hr    | Max. 1-hr    | Date/Time             | VWS     | VWD      | Max. 24-hr    | Date       | Operational | Valid Data (%)  |
|-----------------|--------|----------|---------|------|---------|--------|--------------|--------------|--------------|-----------------------|---------|----------|---------------|------------|-------------|-----------------|
| rarameter       | 1-hr   | 24-hr    | 30-day  | 1-hr | 24-hr   | 30-day | Worthly Avg. | WIIII. 1-111 | IVIGA. I-III | Date/ Time            | (km/hr) | (sector) | 1418X. 24-111 | Date       | Uptime (%)  | Valid Data (70) |
| SO2 (ppb)       | 172    | 48       | 11      | 0    | 0       | 0      | 0.0          | 0            | 0            | October 2 at hour 14  | 7.6     | SE       | 0.0           | October 3  | 98.7        | 89.4            |
| TRS (ppb)       | 10     | 3        | -       | -    | -       | -      | 0.29         | 0.00         | 0.71         | October 4 at hour 12  | 11.6    | WSW      | 0.43          | October 30 | 93.1        | 81.3            |
| Nox (ppb)       | -      | -        | -       | -    | -       | -      | 0.6          | 0            | 10           | October 3 at hour 6   | 1.5     | SE       | 2.1           | October 29 | 67.9        | 61.0            |
| NO (ppb)        | -      | -        | -       | -    | -       | -      | 0.1          | 0            | 8            | October 3 at hour 7   | 0.6     | S        | 1.1           | October 3  | 67.9        | 61.0            |
| NO2 (ppb)       | 159    | -        | -       | 0    | -       | -      | 0.4          | 0            | 5            | October 24 at hour 17 | 3.1     | SW       | 1.8           | October 29 | 67.9        | 61.0            |
| O3 (ppb)        | 76     | -        | -       | 0    | -       | -      | 18.8         | 0            | 38           | October 3 at hour 17  | 7.6     | ESE      | 30.3          | October 6  | 98.7        | 88.7            |
| THC (ppm)       | -      | -        | -       | -    | -       | -      | 1.90         | 1.82         | 2.02         | October 17 at hour 7  | 0.5     | WNW      | 1.93          | October 29 | 94.3        | 82.4            |
| CH4 (ppm)       | -      | -        | -       | -    | -       | -      | 1.90         | 1.82         | 1.99         | October 17 at hour 6  | 3.2     | SE       | 1.93          | October 29 | 94.3        | 82.4            |
| NMHC (ppm)      | -      | -        | -       | -    | -       | -      | 0.00         | 0.00         | 0.03         | October 17 at hour 6  | 3.2     | SE       | 0.00          | October 8  | 94.3        | 82.4            |
| PM2.5 (μg/m3)   | 80     | 30       | -       | 0    | 0       | -      | 3.1          | 0.2          | 18.4         | October 4 at hour 8   | 6.1     | WSW      | 7.5           | October 30 | 100.0       | 94.2            |
| RH (%)          | -      | -        | -       | -    | -       | -      | 74.8         | 28           | 98           | October 16 at hour 0  | 6.5     | E        | 96.1          | October 22 | 100.0       | 96.5            |
| Ext. Temp. (°C) | -      | -        | -       | -    | -       | -      | 1.5          | -20.1        | 17.5         | October 2 at hour 12  | 5.2     | SSE      | 9.4           | October 6  | 99.3        | 95.8            |
| Stn. Temp. (°C) | -      | -        | -       | -    | -       | -      | 22.4         | 19.8         | 24.7         | October 2 at hour 11  | 4       | SE       | 22.9          | October 18 | 100.0       | 96.5            |
| WSV (km/hr)     | -      | -        | -       | -    | -       | -      | 2.0          | 0.3          | 27.8         | October 6 at hour 20  | 27.8    | SW       | 14.7          | October 6  | 100.0       | 96.5            |
| WDV (sector)    | -      | -        | -       | -    | -       | -      | 269 (W)      | -            | -            | -                     | -       | -        | -             | -          | 100.0       | 96.5            |

|  | 1- Date/ | Time given | is the first minimun | n and maximum | value that was recorded |
|--|----------|------------|----------------------|---------------|-------------------------|
|--|----------|------------|----------------------|---------------|-------------------------|

| Parameter             | Object     | ives/Gui | delines  | E)      | ceedanc  | es        | Monthly Avg. | Min. 1-hr     | Max. 1-hr    | Date/Time              | VWS     | VWD      | Max. 24-hr    | Date        | Operational | Valid Data (%) |
|-----------------------|------------|----------|----------|---------|----------|-----------|--------------|---------------|--------------|------------------------|---------|----------|---------------|-------------|-------------|----------------|
| Parameter             | 1-hr       | 24-hr    | 30-day   | 1-hr    | 24-hr    | 30-day    | wonthly Avg. | IVIIII. 1-III | IVIdX. 1-III | Date/ fille            | (km/hr) | (sector) | IVIAX. 24-III | Date        | Uptime (%)  | Vallu Data (%) |
| SO2 (ppb)             | 172        | 48       | 11       | 0       | 0        | 0         | 0.0          | 0             | 0            | November 1 at hour 0   | 3.6     | WNW      | 0.0           | November 1  | 100.0       | 95.0           |
| TRS (ppb)             | 10         | 3        | -        | -       | -        | -         | 0.34         | 0.00          | 0.74         | November 15 at hour 15 | 1.4     | NW       | 0.46          | November 13 | 97.5        | 92.3           |
| Nox (ppb)             | =          | -        | -        | -       | -        | -         | 1.4          | 0             | 25           | November 7 at hour 17  | 1.2     | SSW      | 4.4           | November 7  | 97.9        | 92.8           |
| NO (ppb)              | =          | -        | -        | 1       | -        | -         | 0.3          | 0             | 13           | November 7 at hour 17  | 1.2     | SSW      | 1.7           | November 7  | 97.9        | 92.8           |
| NO2 (ppb)             | 159        | -        | -        | 0       | -        | -         | 1.1          | 0             | 11           | November 7 at hour 17  | 1.2     | SSW      | 2.8           | November 15 | 97.9        | 92.8           |
| O3 (ppb)              | 76         | -        | -        | 0       | -        | -         | 20.2         | 0             | 43           | November 23 at hour 9  | 11.2    | WSW      | 37.5          | November 22 | 98.3        | 92.9           |
| THC (ppm)             | =          | -        | -        | 1       | -        | -         | 1.90         | 1.85          | 1.97         | November 1 at hour 13  | 1.7     | SE       | 1.96          | November 30 | 100.0       | 95.4           |
| CH4 (ppm)             | -          | -        | -        | -       | -        | -         | 1.90         | 1.85          | 1.97         | November 1 at hour 13  | 1.7     | SE       | 1.96          | November 30 | 100.0       | 95.4           |
| NMHC (ppm)            | -          | -        | -        | -       | -        | -         | 0.00         | 0.00          | 0.01         | November 6 at hour 8   | 2.4     | W        | 0.00          | November 6  | 100.0       | 95.4           |
| PM2.5 (μg/m3)         | 80         | 30       | -        | 0       | 0        | -         | 5.0          | 0.4           | 48.1         | November 5 at hour 1   | 8.1     | NNW      | 18.5          | November 2  | 99.4        | 98.9           |
| RH (%)                | =          | -        | -        | 1       | -        | -         | 81.4         | 36            | 98           | November 15 at hour 17 | 4       | WNW      | 93.8          | November 15 | 100.0       | 100.0          |
| Ext. Temp. (°C)       | -          | -        | -        | -       | -        | -         | -7.1         | -29.6         | 7.7          | November 23 at hour 12 | 15.8    | W        | 5.4           | November 22 | 100.0       | 100.0          |
| Stn. Temp. (°C)       | =          | -        | -        | -       | -        | -         | 22.1         | 20.9          | 23.4         | November 5 at hour 15  | 7.1     | NW       | 22.9          | November 22 | 100.0       | 100.0          |
| WSV (km/hr)           | -          | -        | -        | -       | -        | -         | 1.9          | 0.2           | 25.3         | November 22 at hour 20 | 25.3    | WSW      | 14.6          | November 22 | 93.5        | 93.5           |
| WDV (sector)          | -          | -        | -        | -       | -        | -         | 283 (W)      | -             | -            | -                      | -       | -        | -             | -           | 93.5        | 93.5           |
| 1- Date/ Time given i | s the firs | t minimu | ım and m | naximum | value th | at was re | ecorded      |               |              |                        |         |          |               |             |             |                |

| Downwater       | Object  | ives/Gui | delines | E    | ceedanc | es        | Banahhi Bu   | Ndia 1 ha | Nau 1 hu  | Date/Time              | VWS     | VWD      | 14au 24 hu | Date        | Operational | Valid Data (%) |
|-----------------|---------|----------|---------|------|---------|-----------|--------------|-----------|-----------|------------------------|---------|----------|------------|-------------|-------------|----------------|
| Parameter       | 1-hr    | 24-hr    | 30-day  | 1-hr | 24-hr   | 30-day    | Monthly Avg. | Min. 1-hr | Max. 1-hr | Date/ Time             | (km/hr) | (sector) | Max. 24-hr | Date        | Uptime (%)  | Valid Data (%) |
| SO2 (ppb)       | 172     | 48       | 11      | 0    | 0       | 0         | 0.0          | 0         | 0         | December 1 at hour 0   | 0.8     | WNW      | 0.0        | December 1  | 99.9        | 94.9           |
| TRS (ppb)       | 10      | 3        | -       | -    | -       | -         | 0.38         | 0.05      | 0.82      | December 18 at hour 16 | X*      | Х*       | 0.49       | December 18 | 99.3        | 94.3           |
| Nox (ppb)       | -       | -        | -       | -    | -       | -         | 2.2          | 0         | 18        | December 19 at hour 16 | 2.8     | SE       | 4.9        | December 24 | 99.9        | 94.7           |
| NO (ppb)        | -       | -        | -       | -    | -       | -         | 0.4          | 0         | 13        | December 23 at hour 14 | 0.6     | ENE      | 1.7        | December 24 | 99.9        | 94.7           |
| NO2 (ppb)       | 159     | -        | -       | 0    | -       | -         | 1.8          | 0         | 12        | December 19 at hour 16 | 2.8     | SE       | 3.5        | December 13 | 99.9        | 94.7           |
| O3 (ppb)        | 76      | -        | -       | 0    | -       | -         | 19.1         | 0         | 39        | December 3 at hour 14  | 7.3     | W        | 33.9       | December 2  | 99.9        | 94.9           |
| THC (ppm)       | -       | -        | -       | -    | -       | -         | 1.96         | 1.79      | 2.43      | December 6 at hour 3   | 1.2     | WNW      | 2.07       | December 6  | 99.9        | 94.9           |
| CH4 (ppm)       | -       | -        | -       | -    | -       | -         | 1.96         | 1.79      | 2.19      | December 25 at hour 10 | 2.1     | W        | 2.06       | December 23 | 99.9        | 94.9           |
| NMHC (ppm)      | -       | -        | -       | -    | -       | -         | 0.01         | 0.00      | 0.33      | December 21 at hour 10 | 1.1     | W        | 0.07       | December 6  | 99.9        | 94.9           |
| PM2.5 (μg/m3)   | 80      | 30       | -       | 0    | 0       | -         | 5.4          | 0.4       | 33.9      | December 30 at hour 23 | 3.6     | S        | 15.6       | December 22 | 99.9        | 99.6           |
| RH (%)          | -       | -        | -       | -    | -       | -         | 80.1         | 49        | 94        | December 29 at hour 19 | 2.4     | ENE      | 87.4       | December 17 | 99.3        | 99.3           |
| Ext. Temp. (°C) | -       | -        | -       | -    | -       | -         | -13.1        | -27.4     | 4.0       | December 31 at hour 13 | 5.4     | WSW      | -1.2       | December 29 | 99.3        | 99.3           |
| Stn. Temp. (°C) | -       | -        | -       | -    | -       | -         | 21.9         | 21.0      | 23.4      | December 17 at hour 14 | 6.8     | ESE      | 22.5       | December 29 | 99.9        | 99.9           |
| WSV (km/hr)     | -       | -        | -       | -    | -       | -         | 0.5          | 0.1       | 19.5      | December 17 at hour 19 | 19.5    | SW       | 10.3       | December 10 | 99.2        | 98.9           |
| WDV (sector)    | -       | -        | -       | -    | -       | -         | 138 (SE)     | -         | -         | -                      | -       | -        | -          | -           | 99.2        | 98.9           |
|                 | sector) |          |         |      |         | at was re | ecorded      |           |           |                        |         |          |            |             |             |                |

#### **Deviations from Authorized Monitoring Methods**

At the 986b station, nearby trees exceed the height allowed under section 2.3 of the wind speed and wind direction siting criteria in Chapter 3 of the AMD. The ambient air monitoring station was relocated on August 1 to address this non-conformance. The station at the new location is named the 986c station.

At the Reno station, nearby trees exceed the height allowed under section 2.3 of the wind speed and wind direction siting criteria in Chapter 3 of the AMD. This non-conformance was documented in the updated station site documents. Further actions are being considered including siting the wind sensor so that it meets AMD Chapter 3 siting requirements, or obtaining written authorization from "The Director" to deviate from AMD Siting requirements.

#### Certification

This report was prepared and submitted by Lily Lin in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).

Lily Lin, Environmental Monitoring Program Manager, PRAMP Airshed

This report was reviewed by Mike Bisaga in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).

I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization and reporting requirements.

Michael Bisaga, Environmental Monitoring Program Manager, PRAMP Airshed

March 27, 2020

## 1. Summaries of Statistics and Data Qualifier Flag Summaries

## 1.1 986b / 986c Station

Data collected at the 986b station and the 986c stations were combined into one annual summary table per parameter. Data collected between January and July were from the 986b Station, and data collected August and December were from the 986c station.

Table 1 SO2 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg. (ppb) | # of 30-day<br>AAAQO<br>Exceedances | Min.<br>1-hr<br>(ppb) | Max.<br>1-hr<br>(ppb) | # of 1-hr<br>AAAQO<br>Exceedances | Max.<br>24-hr<br>(ppb) | # of 24-hr<br>AAAQO<br>Exceedances |
|-----------|---------------------------|-----------------|-----------------------|-------------------------------------|-----------------------|-----------------------|-----------------------------------|------------------------|------------------------------------|
| January   | 99.2                      | 699             | 0.8                   | 0                                   | 0                     | 4                     | 0                                 | 3                      | 0                                  |
| February  | 99.9                      | 639             | 0.1                   | 0                                   | 0                     | 8                     | 0                                 | 1                      | 0                                  |
| March     | 100.0                     | 707             | 0.3                   | 0                                   | 0                     | 2                     | 0                                 | 2                      | 0                                  |
| April     | 100.0                     | 683             | 0.7                   | 0                                   | 0                     | 3                     | 0                                 | 1                      | 0                                  |
| May       | 100.0                     | 706             | 0.9                   | 0                                   | 0                     | 4                     | 0                                 | 3                      | 0                                  |
| June      | 98.8                      | 673             | 0.1                   | 0                                   | 0                     | 2                     | 0                                 | 1                      | 0                                  |
| July      | 95.3                      | 676             | 0.0                   | 0                                   | 0                     | 0                     | 0                                 | 0                      | 0                                  |
| August    | 95.0                      | 671             | 0.0                   | 0                                   | 0                     | 2                     | 0                                 | 0                      | 0                                  |
| September | 88.8                      | 607             | 0.0                   | 0                                   | 0                     | 1                     | 0                                 | 0                      | 0                                  |
| October   | 100.0                     | 705             | 0.0                   | 0                                   | 0                     | 1                     | 0                                 | 0                      | 0                                  |
| November  | 100.0                     | 685             | 0.0                   | 0                                   | 0                     | 1                     | 0                                 | 0                      | 0                                  |
| December  | 100.0                     | 707             | 0.0                   | 0                                   | 0                     | 1                     | 0                                 | 0                      | 0                                  |
| Annual    | 98.1                      | 8158            | 0.3                   | 0                                   | 0                     | 8                     | 0                                 | 3                      | 0                                  |

Table 2 SO2 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppb) |        |         |           |      |  |  |  |  |
|-----------|---|--------|---------|-----------|------|--|--|--|--|
|           | 0 - 10  | 11 -50 | 51 -100 | 101 - 172 | >172 |  |  |  |  |
| January   | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |
| February  | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |
| March     | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |
| April     | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |
| May       | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |
| June      | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |
| July      | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |
| August    | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |
| September | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |
| October   | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |
| November  | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |
| December  | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |
| Annual    | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |

Table 3 SO2 2019 Annual Frequency Distribution

| Р                       | Х  | Υ   | R             | К                | С   | S   | Q             | C1         | <b>S1</b> |
|-------------------------|----|-----|---------------|------------------|-----|-----|---------------|------------|-----------|
| 87                      | 6  | 14  | 3             | 57               | 60  | 274 | 3             | 0          | 1         |
| Total Hours of Downtime | of | 168 | Total Hours o | of Calibration T | ime | 432 | Total Hours o | of Flagged | 600       |

Table 4 TRS 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg. (ppb) | Min.<br>1-hr<br>(ppb) | Max.<br>1-hr<br>(ppb) | Max.<br>24-hr<br>(ppb) |
|-----------|---------------------------|-----------------|-----------------------|-----------------------|-----------------------|------------------------|
| January   | 97.6                      | 687             | 0.6                   | 0.2                   | 1.1                   | 0.9                    |
| February  | 99.9                      | 637             | 0.1                   | 0.0                   | 0.8                   | 0.3                    |
| March     | 100.0                     | 708             | 0.2                   | 0.1                   | 1.0                   | 0.4                    |
| April     | 100.0                     | 682             | 0.2                   | 0.1                   | 0.7                   | 0.2                    |
| May       | 100.0                     | 706             | 0.3                   | 0.1                   | 3.7                   | 2.2                    |
| June      | 93.5                      | 640             | 0.6                   | 0.0                   | 3.0                   | 0.8                    |
| July      | 98.9                      | 698             | 0.7                   | 0.0                   | 2.2                   | 1.0                    |
| August    | 92.3                      | 651             | 0.7                   | 0.0                   | 2.6                   | 1.0                    |
| September | 83.2                      | 567             | 0.8                   | 0.2                   | 3.3                   | 1.4                    |
| October   | 92.9                      | 654             | 0.7                   | 0.0                   | 5.3                   | 2.3                    |
| November  | 100.0                     | 684             | 0.5                   | 0.0                   | 2.2                   | 0.7                    |
| December  | 98.0                      | 689             | 0.5                   | 0.0                   | 1.2                   | 0.6                    |
| Annual    | 96.3                      | 8003            | 0.5                   | 0.0                   | 5.3                   | 2.3                    |

Table 5 TRS 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppb) |       |        |         |      |  |  |  |  |
|-----------|---|-------|--------|---------|------|--|--|--|--|
|           | 0 - 2   | 3 - 5 | 6 - 10 | 11 - 50 | >50  |  |  |  |  |
| January   | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| February  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| March     | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| April     | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| May       | 97.9%   | 2.1%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| June      | 99.8%   | 0.2%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| July      | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| August    | 99.8%   | 0.2%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| September | 98.4%   | 1.6%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| October   | 96.3%   | 3.7%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| November  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| December  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| Annual    | 99.4%   | 0.6%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |

Table 6 TRS 2019 Qualifier Flag Summary

| Р                       | Х  | Υ   | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|-----|-------------|----------------|------|-----|-------------|------------|-----------|
| 87                      | 99 | 78  | 3           | 38             | 68   | 272 | 3           | 10         | 0         |
| Total Hours of Downtime | of | 319 | Total Hours | of Calibration | Time | 436 | Total Hours | of Flagged | 755       |

Table 7 THC 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppm) | Min.<br>1-hr<br>(ppm) | Max.<br>1-hr<br>(ppm) | Max.<br>24-hr<br>(ppm) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | 92.5                      | 651             | 2.07                     | 1.92                  | 2.52                  | 2.20                   |
| February  | 99.9                      | 637             | 2.11                     | 1.99                  | 2.78                  | 2.33                   |
| March     | 100.0                     | 708             | 2.04                     | 1.92                  | 2.66                  | 2.21                   |
| April     | 99.4                      | 679             | 2.01                     | 1.93                  | 2.60                  | 2.07                   |
| May       | 99.7                      | 703             | 2.02                     | 1.90                  | 3.14                  | 2.46                   |
| June      | 98.8                      | 676             | 1.99                     | 1.87                  | 3.07                  | 2.11                   |
| July      | 98.9                      | 700             | 2.04                     | 1.89                  | 3.02                  | 2.15                   |
| August    | 95.0                      | 671             | 1.98                     | 1.88                  | 2.38                  | 2.07                   |
| September | 87.4                      | 596             | 1.99                     | 1.89                  | 2.27                  | 2.07                   |
| October   | 99.9                      | 705             | 1.96                     | 1.89                  | 2.20                  | 2.05                   |
| November  | 100.0                     | 686             | 2.01                     | 1.92                  | 2.13                  | 2.09                   |
| December  | 99.5                      | 704             | 2.01                     | 1.90                  | 2.20                  | 2.08                   |
| Annual    | 97.6                      | 8116            | 2.02                     | 1.87                  | 3.14                  | 2.46                   |

Table 8 THC 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppm) |       |        |         |      |  |  |  |  |
|-----------|---|-------|--------|---------|------|--|--|--|--|
|           | 0 - 2   | 3 - 5 | 6 - 10 | 11 - 40 | >40  |  |  |  |  |
| January   | 99.4%   | 0.6%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| February  | 96.5%   | 3.5%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| March     | 98.6%   | 1.4%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| April     | 99.6%   | 0.4%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| May       | 96.4%   | 3.6%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| June      | 99.3%   | 0.7%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| July      | 97.6%   | 2.4%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| August    | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| September | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| October   | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| November  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| December  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| Annual    | 98.9%   | 1.1%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |

Table 9 THC 2019 Qualifier Flag Summary

| Р                       | Х  | Υ   | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|-----|-------------|----------------|------|-----|-------------|------------|-----------|
| 87                      | 57 | 20  | 3           | 40             | 55   | 276 | 3           | 0          | 2         |
| Total Hours of Downtime | of | 213 | Total Hours | of Calibration | Time | 429 | Total Hours | of Flagged | 642       |

Table 10 CH4 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppm) | Min.<br>1-hr<br>(ppm) | Max.<br>1-hr<br>(ppm) | Max.<br>24-hr<br>(ppm) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | 92.5                      | 651             | 2.07                     | 1.92                  | 2.52                  | 2.20                   |
| February  | 99.9                      | 637             | 2.11                     | 1.99                  | 2.69                  | 2.31                   |
| March     | 100.0                     | 708             | 2.04                     | 1.92                  | 2.64                  | 2.20                   |
| April     | 99.4                      | 679             | 2.01                     | 1.93                  | 2.60                  | 2.07                   |
| May       | 99.7                      | 703             | 2.01                     | 1.90                  | 2.71                  | 2.23                   |
| June      | 98.8                      | 676             | 1.99                     | 1.87                  | 3.07                  | 2.11                   |
| July      | 98.9                      | 700             | 2.04                     | 1.89                  | 3.02                  | 2.15                   |
| August    | 95.0                      | 671             | 1.98                     | 1.88                  | 2.38                  | 2.07                   |
| September | 87.4                      | 596             | 1.99                     | 1.89                  | 2.27                  | 2.07                   |
| October   | 99.9                      | 705             | 1.96                     | 1.89                  | 2.20                  | 2.05                   |
| November  | 100.0                     | 686             | 2.01                     | 1.92                  | 2.13                  | 2.09                   |
| December  | 99.5                      | 704             | 2.01                     | 1.90                  | 2.20                  | 2.08                   |
| Annual    | 97.6                      | 8116            | 2.02                     | 1.87                  | 3.07                  | 2.31                   |

Table 11 CH4 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppm) |       |        |         |      |  |  |  |  |  |
|-----------|---|-------|--------|---------|------|--|--|--|--|--|
|           | 0 - 2   | 3 - 5 | 6 - 10 | 11 - 20 | >20  |  |  |  |  |  |
| January   | 99.4%   | 0.6%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| February  | 96.5%   | 3.5%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| March     | 98.6%   | 1.4%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| April     | 99.6%   | 0.4%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| May       | 98.6%   | 1.4%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| June      | 99.3%   | 0.7%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| July      | 97.6%   | 2.4%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| August    | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| September | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| October   | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| November  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| December  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| Annual    | 99.1%   | 0.9%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |

Table 12 CH4 2019 Qualifier Flag Summary

| Р                       | Х  | Υ   | R           | К                               | С  | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|-----|-------------|---------------------------------|----|-----|-------------|------------|-----------|
| 87                      | 57 | 20  | 3           | 40                              | 55 | 276 | 3           | 0          | 2         |
| Total Hours of Downtime | of | 213 | Total Hours | Total Hours of Calibration Time |    | 429 | Total Hours | of Flagged | 642       |

Table 13 NMHC 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppm) | Min.<br>1-hr<br>(ppm) | Max.<br>1-hr<br>(ppm) | Max.<br>24-hr<br>(ppm) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | 92.5                      | 651             | 0.00                     | 0.00                  | 0.05                  | 0.00                   |
| February  | 99.9                      | 637             | 0.00                     | 0.00                  | 0.09                  | 0.02                   |
| March     | 100.0                     | 708             | 0.00                     | 0.00                  | 0.05                  | 0.01                   |
| April     | 99.4                      | 679             | 0.00                     | 0.00                  | 0.01                  | 0.00                   |
| May       | 99.7                      | 703             | 0.01                     | 0.00                  | 0.57                  | 0.23                   |
| June      | 98.8                      | 676             | 0.00                     | 0.00                  | 0.05                  | 0.00                   |
| July      | 98.9                      | 700             | 0.00                     | 0.00                  | 0.04                  | 0.00                   |
| August    | 95.0                      | 671             | 0.00                     | 0.00                  | 0.00                  | 0.00                   |
| September | 87.4                      | 596             | 0.00                     | 0.00                  | 0.00                  | 0.00                   |
| October   | 99.9                      | 705             | 0.00                     | 0.00                  | 0.06                  | 0.00                   |
| November  | 100.0                     | 686             | 0.00                     | 0.00                  | 0.00                  | 0.00                   |
| December  | 99.5                      | 704             | 0.00                     | 0.00                  | 0.01                  | 0.00                   |
| Annual    | 97.6                      | 8116            | 0.00                     | 0.00                  | 0.57                  | 0.23                   |

Table 14 NMHC 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppm) |           |           |      |      |  |  |  |  |  |
|-----------|---|-----------|-----------|------|------|--|--|--|--|--|
|           | 0 - 0.1   | 0.2 - 0.3 | 0.4 - 0.9 | 1 -2 | >2   |  |  |  |  |  |
| January   | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| February  | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| March     | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| April     | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| May       | 97.2%   | 2.4%      | 0.4%      | 0.0% | 0.0% |  |  |  |  |  |
| June      | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| July      | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| August    | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| September | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| October   | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| November  | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| December  | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| Annual    | 99.8%   | 0.2%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |

Table 15 NMHC 2019 Qualifier Flag Summary

| Р           | Х  | Υ   | R           | К                               | С  | S   | Q           | C1         | <b>S1</b> |
|-------------|----|-----|-------------|---------------------------------|----|-----|-------------|------------|-----------|
| 87          | 57 | 20  | 3           | 40                              | 55 | 276 | 3           | 0          | 2         |
| Total Hours | of | 213 | Total Hours | Total Hours of Calibration Time |    | 429 | Total Hours | of Flagged | 642       |

Table 16 RH 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(%) | Min.<br>1-hr (%) | Max.<br>1-hr (%) | Max.<br>24-hr (%) |
|-----------|---------------------------|-----------------|------------------------|------------------|------------------|-------------------|
| January   | 99.2                      | 738             | 78.7                   | 58               | 100              | 96                |
| February  | 100.0                     | 672             | 64.3                   | 38               | 95               | 81                |
| March     | 100.0                     | 744             | 59.3                   | 19               | 100              | 77                |
| April     | 99.3                      | 715             | 56.0                   | 16               | 100              | 86                |
| May       | 100.0                     | 744             | 44.3                   | 14               | 94               | 69                |
| June      | 98.9                      | 712             | 66.6                   | 20               | 100              | 93                |
| July      | 98.7                      | 734             | 77.0                   | 33               | 100              | 97                |
| August    | 95.0                      | 706             | 81.2                   | 37               | 100              | 97                |
| September | 89.0                      | 641             | 79.7                   | 35               | 100              | 98                |
| October   | 100.0                     | 744             | 76.7                   | 27               | 100              | 100               |
| November  | 100.0                     | 720             | 88.0                   | 39               | 100              | 100               |
| December  | 100.0                     | 744             | 84.2                   | 38               | 100              | 95                |
| Annual    | 98.3                      | 8614            | 71.3                   | 14               | 100              | 100               |

Table 17 RH Qualifier Flag Summary

| P                       | Х  | Υ   | R           | K              | С    | S | ď           | C1         | <b>S1</b> |
|-------------------------|----|-----|-------------|----------------|------|---|-------------|------------|-----------|
| 87                      | 6  | 22  | 0           | 30             | 0    | 0 | 0           | 0          | 0         |
| Total Hours of Downtime | of | 145 | Total Hours | of Calibration | Time | 0 | Total Hours | of Flagged | 145       |

Table 18 BP 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(mb) | Min.<br>1-hr<br>(mb) | Max.<br>1-hr<br>(mb) | Max.<br>24-hr<br>(mb) |
|-----------|---------------------------|-----------------|-------------------------|----------------------|----------------------|-----------------------|
| January   | 99.2                      | 738             | 941.0                   | 921                  | 959                  | 958                   |
| February  | 100.0                     | 672             | 949.4                   | 930                  | 974                  | 965                   |
| March     | 100.0                     | 744             | 947.0                   | 923                  | 973                  | 970                   |
| April     | 99.3                      | 715             | 939.7                   | 924                  | 955                  | 954                   |
| May       | 100.0                     | 744             | 942.4                   | 929                  | 951                  | 950                   |
| June      | 98.9                      | 712             | 941.0                   | 933                  | 949                  | 948                   |
| July      | 98.7                      | 734             | 941.4                   | 927                  | 954                  | 953                   |
| August    | 95.0                      | 706             | 944.3                   | 934                  | 951                  | 950                   |
| September | 89.0                      | 641             | 942.3                   | 931                  | 959                  | 958                   |
| October   | 100.0                     | 744             | 942.4                   | 922                  | 964                  | 961                   |
| November  | 100.0                     | 720             | 944.3                   | 924                  | 967                  | 964                   |
| December  | 100.0                     | 744             | 937.7                   | 920                  | 950                  | 949                   |
| Annual    | 98.3                      | 8614            | 942.7                   | 920                  | 974                  | 970                   |

Table 19 BP Qualifier Flag Summary

| P                       | Х  | Υ   | R           | K              | С    | S | ď           | C1         | <b>S1</b> |
|-------------------------|----|-----|-------------|----------------|------|---|-------------|------------|-----------|
| 87                      | 6  | 22  | 0           | 30             | 0    | 0 | 0           | 0          | 0         |
| Total Hours of Downtime | of | 145 | Total Hours | of Calibration | Time | 0 | Total Hours | of Flagged | 145       |

Table 20 AT 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(°C) | Min.<br>1-hr<br>(°C) | Max.<br>1-hr<br>(°C) | Max.<br>24-hr<br>(°C) |
|-----------|---------------------------|-----------------|-------------------------|----------------------|----------------------|-----------------------|
| January   | 99.2                      | 738             | -10.5                   | -30.6                | 7.4                  | 5.0                   |
| February  | 100.0                     | 672             | -22.2                   | -41.0                | -1.3                 | -6.0                  |
| March     | 100.0                     | 744             | -2.7                    | -37.2                | 19.2                 | 8.3                   |
| April     | 99.3                      | 715             | 4.5                     | -8.4                 | 16.5                 | 10.4                  |
| May       | 100.0                     | 744             | 11.1                    | -9.7                 | 29.9                 | 21.7                  |
| June      | 98.9                      | 712             | 13.9                    | -0.4                 | 27.8                 | 20.4                  |
| July      | 98.7                      | 734             | 15.2                    | 1.0                  | 28.2                 | 21.1                  |
| August    | 95.0                      | 706             | 12.7                    | -0.4                 | 25.4                 | 18.9                  |
| September | 89.0                      | 641             | 9.5                     | -5.5                 | 22.2                 | 15.2                  |
| October   | 100.0                     | 744             | 2.3                     | -14.5                | 17.6                 | 9.0                   |
| November  | 100.0                     | 720             | -5.5                    | -19.8                | 7.6                  | 4.9                   |
| December  | 100.0                     | 744             | -9.8                    | -25.1                | 3.2                  | -0.2                  |
| Annual    | 98.3                      | 8614            | 1.5                     | -41.0                | 29.9                 | 21.7                  |

Table 21 AT Qualifier Flag Summary

| P                    | Х  | Υ   | R           | K              | С    | S | Q           | C1         | <b>S1</b> |
|----------------------|----|-----|-------------|----------------|------|---|-------------|------------|-----------|
| 87                   | 6  | 22  | 0           | 30             | 0    | 0 | 0           | 0          | 0         |
| Total Hours Downtime | of | 145 | Total Hours | of Calibration | Time | 0 | Total Hours | of Flagged | 145       |

Table 22 Precipitation 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Total<br>(mm) | Min.<br>Total<br>1-hr<br>(mm) | Max.<br>Total<br>1-hr<br>(mm) | Max.<br>Total<br>24-hr<br>(mm) |
|-----------|---------------------------|-----------------|--------------------------|-------------------------------|-------------------------------|--------------------------------|
| January   | -                         | -               | -                        | -                             | -                             | -                              |
| February  | -                         | -               | -                        | -                             | -                             | -                              |
| March     | -                         | -               | -                        | -                             | -                             | -                              |
| April     | -                         | -               | -                        | -                             | -                             | -                              |
| May       | -                         | -               | -                        | -                             | -                             | -                              |
| June      | -                         | -               | -                        | -                             | -                             | -                              |
| July      | =                         | -               | ı                        | ı                             | -                             | -                              |
| August    | 91.9                      | 684             | 54.6                     | 0.0                           | 6.4                           | 9.4                            |
| September | 84.0                      | 605             | 58.0                     | 0.0                           | 9.0                           | 19.4                           |
| October   | 74.2                      | 552             | 25.0                     | 0.0                           | 1.4                           | 3.8                            |
| November  | 29.7                      | 214             | 16.8                     | 0.0                           | 2.4                           | 7.8                            |
| December  | 11.6                      | 86              | 1.8                      | 0.0                           | 0.6                           | 1.8                            |
| Annual    | 58.3                      | 2141            | 31.2                     | 0.0                           | 9.0                           | 19.4                           |

Table 23 Precipitation Qualifier Flag Summary

| P                       | Х                           | Υ | R           | K              | С    | S | ď           | C1         | <b>S1</b> |
|-------------------------|-----------------------------|---|-------------|----------------|------|---|-------------|------------|-----------|
| 79                      | 734                         | 0 | 0           | 0              | 0    | 0 | 0           | 0          | 0         |
| Total Hours of Downtime | Total Hours of Downtime 813 |   | Total Hours | of Calibration | Time | 0 | Total Hours | of Flagged | 813       |

Table 24 WS 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(kph) | Min.<br>1-hr<br>(kph) | Max.<br>1-hr<br>(kph) | Max.<br>24-hr<br>(kph) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | 99.2                      | 738             | 0.4                      | 0.3                   | 26.6                  | 13.1                   |
| February  | 100.0                     | 672             | 0.5                      | 0.2                   | 19.0                  | 10.4                   |
| March     | 100.0                     | 744             | 2.1                      | 0.1                   | 17.5                  | 10.0                   |
| April     | 99.7                      | 715             | 1.8                      | 0.0                   | 23.7                  | 11.4                   |
| May       | 100.0                     | 744             | 1.6                      | 0.2                   | 31.2                  | 17.4                   |
| June      | 98.9                      | 712             | 1.7                      | 0.0                   | 22.9                  | 9.6                    |
| July      | 99.9                      | 736             | 1.6                      | 0.1                   | 17.6                  | 10.0                   |
| August    | 94.5                      | 702             | 1.6                      | 0.0                   | 23.8                  | 15.1                   |
| September | 89.0                      | 641             | 4.6                      | 0.3                   | 24.4                  | 16.8                   |
| October   | 100.0                     | 744             | 4.5                      | 0.7                   | 31.3                  | 21.3                   |
| November  | 100.0                     | 720             | 4.0                      | 0.9                   | 35.5                  | 23.2                   |
| December  | 100.0                     | 744             | 5.0                      | 0.1                   | 33.0                  | 19.6                   |
| Annual    | 98.4                      | 8612            | 2.5                      | 0.0                   | 35.5                  | 23.2                   |

Table 25 WS 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in kph) |        |         |        |      |  |  |  |  |  |
|-----------|---|--------|---------|--------|------|--|--|--|--|--|
|           | 0 - 6   | 7 - 15 | 16 - 29 | 30 -39 | >39  |  |  |  |  |  |
| January   | 59.1%   | 39.0%  | 1.9%    | 0.0%   | 0.0% |  |  |  |  |  |
| February  | 66.1%   | 33.3%  | 0.6%    | 0.0%   | 0.0% |  |  |  |  |  |
| March     | 70.7%   | 28.9%  | 0.4%    | 0.0%   | 0.0% |  |  |  |  |  |
| April     | 47.3%   | 49.5%  | 3.2%    | 0.0%   | 0.0% |  |  |  |  |  |
| May       | 54.3%   | 36.8%  | 8.7%    | 0.1%   | 0.0% |  |  |  |  |  |
| June      | 57.7%   | 41.2%  | 1.1%    | 0.0%   | 0.0% |  |  |  |  |  |
| July      | 69.4%   | 29.5%  | 1.1%    | 0.0%   | 0.0% |  |  |  |  |  |
| August    | 44.7%   | 48.5%  | 6.8%    | 0.0%   | 0.0% |  |  |  |  |  |
| September | 28.9%   | 57.4%  | 13.7%   | 0.0%   | 0.0% |  |  |  |  |  |
| October   | 15.9%   | 61.6%  | 22.4%   | 0.1%   | 0.0% |  |  |  |  |  |
| November  | 21.3%   | 57.6%  | 20.4%   | 0.7%   | 0.0% |  |  |  |  |  |
| December  | 25.8%   | 52.8%  | 21.1%   | 0.3%   | 0.0% |  |  |  |  |  |
| Annual    | 46.8%   | 44.7%  | 8.5%    | 0.1%   | 0.0% |  |  |  |  |  |

Table 26 WS Qualifier Flag Summary

| Р                       | Х  | Υ   | R                               | К  | С | S           | Q          | C1  | <b>S1</b> |
|-------------------------|----|-----|---------------------------------|----|---|-------------|------------|-----|-----------|
| 87                      | 6  | 21  | 0                               | 30 | 3 | 0           | 0          | 0   | 0         |
| Total Hours of Downtime | of | 144 | Total Hours of Calibration Time |    | 3 | Total Hours | of Flagged | 147 |           |

## 1.2 842b Station

Table 27 SO2 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppb) | # of 30-day<br>AAAQO<br>Exceedances | Min.<br>1-hr<br>(ppb) | Max.<br>1-hr<br>(ppb) | # of 1-hr<br>AAAQO<br>Exceedances | Max.<br>24-hr<br>(ppb) | # of 24-hr<br>AAAQO<br>Exceedances |
|-----------|---------------------------|-----------------|--------------------------|-------------------------------------|-----------------------|-----------------------|-----------------------------------|------------------------|------------------------------------|
| January   | 100.0                     | 704             | 0.1                      | 0                                   | 0                     | 2                     | 0                                 | 1                      | 0                                  |
| February  | 100.0                     | 637             | 0.2                      | 0                                   | 0                     | 2                     | 0                                 | 1                      | 0                                  |
| March     | 100.0                     | 706             | 0.2                      | 0                                   | 0                     | 2                     | 0                                 | 1                      | 0                                  |
| April     | 100.0                     | 681             | 0.0                      | 0                                   | 0                     | 1                     | 0                                 | 0                      | 0                                  |
| May       | 100.0                     | 709             | 0.0                      | 0                                   | 0                     | 2                     | 0                                 | 0                      | 0                                  |
| June      | 98.9                      | 675             | 0.0                      | 0                                   | 0                     | 1                     | 0                                 | 0                      | 0                                  |
| July      | 100.0                     | 705             | 0.0                      | 0                                   | 0                     | 1                     | 0                                 | 0                      | 0                                  |
| August    | 99.9                      | 708             | 0.0                      | 0                                   | 0                     | 1                     | 0                                 | 0                      | 0                                  |
| September | 97.9                      | 670             | 0.0                      | 0                                   | 0                     | 1                     | 0                                 | 0                      | 0                                  |
| October   | 100.0                     | 706             | 0.0                      | 0                                   | 0                     | 2                     | 0                                 | 0                      | 0                                  |
| November  | 100.0                     | 684             | 0.4                      | 0                                   | 0                     | 21                    | 0                                 | 2                      | 0                                  |
| December  | 100.0                     | 707             | 0.2                      | 0                                   | 0                     | 3                     | 0                                 | 1                      | 0                                  |
| Annual    | 99.7                      | 8292            | 0.1                      | 0                                   | 0                     | 21                    | 0                                 | 2                      | 0                                  |

Table 28 SO2 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppb) |        |         |           |      |  |  |  |  |  |  |
|-----------|---|--------|---------|-----------|------|--|--|--|--|--|--|
|           | 0 - 10  | 11 -50 | 51 -100 | 101 - 172 | >172 |  |  |  |  |  |  |
| January   | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| February  | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| March     | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| April     | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| May       | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| June      | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| July      | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| August    | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| September | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| October   | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| November  | 99.4%   | 0.6%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| December  | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| Annual    | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |

Table 29 SO2 2019 Qualifier Flag Summary

| Р                    | Х  | Υ  | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|----------------------|----|----|-------------|----------------|------|-----|-------------|------------|-----------|
| 12                   | 0  | 1  | 0           | 11             | 66   | 279 | 2           | 0          | 0         |
| Total Hours Downtime | of | 24 | Total Hours | of Calibration | Time | 443 | Total Hours | of Flagged | 467       |

Table 30 TRS 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppb) | Min.<br>1-hr<br>(ppb) | Max.<br>1-hr<br>(ppb) | Max.<br>24-hr<br>(ppb) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | 100.0                     | 704             | 0.2                      | 0.08                  | 0.50                  | 0.30                   |
| February  | 100.0                     | 637             | 0.3                      | 0.1                   | 0.7                   | 0.4                    |
| March     | 100.0                     | 705             | 0.3                      | 0.1                   | 0.5                   | 0.4                    |
| April     | 96.5                      | 656             | 0.4                      | 0.1                   | 0.7                   | 0.5                    |
| May       | 100.0                     | 707             | 0.6                      | 0.3                   | 3.5                   | 2.0                    |
| June      | 98.9                      | 675             | 0.5                      | 0.3                   | 2.5                   | 0.8                    |
| July      | 100.0                     | 705             | 0.5                      | 0.3                   | 1.2                   | 0.6                    |
| August    | 99.9                      | 706             | 0.4                      | 0.1                   | 1.3                   | 0.6                    |
| September | 93.6                      | 639             | 0.4                      | 0.2                   | 0.9                   | 0.6                    |
| October   | 97.7                      | 689             | 0.4                      | 0.2                   | 1.2                   | 0.6                    |
| November  | 100.0                     | 683             | 0.4                      | 0.3                   | 0.9                   | 0.5                    |
| December  | 100.0                     | 707             | 0.4                      | 0.0                   | 0.7                   | 0.5                    |
| Annual    | 98.9                      | 8213            | 0.4                      | 0.0                   | 3.5                   | 2.0                    |

Table 31 TRS 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppb) |       |        |         |      |  |  |  |  |  |
|-----------|---|-------|--------|---------|------|--|--|--|--|--|
|           | 0 - 2   | 3 - 5 | 6 - 10 | 11 - 50 | >50  |  |  |  |  |  |
| January   | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| February  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| March     | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| April     | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| May       | 98.4%   | 1.6%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| June      | 99.9%   | 0.1%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| July      | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| August    | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| September | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| October   | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| November  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| December  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| Annual    | 99.9%   | 0.1%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |

Table 32 TRS 2019 Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|----------------|------|-----|-------------|------------|-----------|
| 12                      | 45 | 29 | 0           | 11             | 75   | 277 | 2           | 0          | 0         |
| Total Hours of Downtime | of | 97 | Total Hours | of Calibration | Time | 450 | Total Hours | of Flagged | 547       |

Table 33 THC 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppm) | Min.<br>1-hr<br>(ppm) | Max.<br>1-hr<br>(ppm) | Max.<br>24-hr<br>(ppm) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | 100.0                     | 705             | 2.03                     | 1.92                  | 2.39                  | 2.09                   |
| February  | 98.4                      | 627             | 2.05                     | 1.93                  | 2.80                  | 2.26                   |
| March     | 98.9                      | 699             | 2.01                     | 1.91                  | 2.53                  | 2.15                   |
| April     | 99.6                      | 681             | 2.00                     | 1.95                  | 2.22                  | 2.04                   |
| May       | 100.0                     | 709             | 1.99                     | 1.88                  | 3.28                  | 2.51                   |
| June      | 98.8                      | 675             | 1.95                     | 1.87                  | 2.46                  | 2.06                   |
| July      | 100.0                     | 705             | 1.96                     | 1.88                  | 2.38                  | 2.05                   |
| August    | 99.7                      | 706             | 1.98                     | 1.89                  | 2.57                  | 2.14                   |
| September | 97.8                      | 669             | 1.98                     | 1.86                  | 2.28                  | 2.06                   |
| October   | 100.0                     | 706             | 1.99                     | 1.91                  | 2.18                  | 2.05                   |
| November  | 100.0                     | 685             | 1.99                     | 1.92                  | 2.35                  | 2.04                   |
| December  | 100.0                     | 708             | 2.04                     | 1.94                  | 2.45                  | 2.12                   |
| Annual    | 99.4                      | 8275            | 2.00                     | 1.86                  | 3.28                  | 2.51                   |

Table 34 THC 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppm) |       |        |         |      |  |  |  |  |
|-----------|---|-------|--------|---------|------|--|--|--|--|
|           | 0 - 2   | 3 - 5 | 6 - 10 | 11 - 40 | >40  |  |  |  |  |
| January   | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| February  | 96.8%   | 3.2%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| March     | 99.0%   | 1.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| April     | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| May       | 97.3%   | 2.7%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| June      | 99.7%   | 0.3%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| July      | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| August    | 99.6%   | 0.4%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| September | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| October   | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| November  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| December  | 99.9%   | 0.1%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |
| Annual    | 99.4%   | 0.6%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |

Table 35 THC 2019 Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|----------------|------|-----|-------------|------------|-----------|
| 36                      | 0  | 8  | 2           | 11             | 58   | 280 | 2           | 8          | 8         |
| Total Hours<br>Downtime | of | 73 | Total Hours | of Calibration | Time | 436 | Total Hours | of Flagged | 509       |

Table 36 CH4 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppm) | Min.<br>1-hr<br>(ppm) | Max.<br>1-hr<br>(ppm) | Max.<br>24-hr<br>(ppm) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | 100.0                     | 705             | 2.03                     | 1.92                  | 2.39                  | 2.09                   |
| February  | 98.4                      | 627             | 2.05                     | 1.93                  | 2.80                  | 2.26                   |
| March     | 98.9                      | 699             | 2.01                     | 1.91                  | 2.53                  | 2.15                   |
| April     | 99.6                      | 681             | 2.00                     | 1.95                  | 2.22                  | 2.04                   |
| May       | 100.0                     | 709             | 1.97                     | 1.88                  | 2.74                  | 2.18                   |
| June      | 98.8                      | 675             | 1.95                     | 1.87                  | 2.46                  | 2.06                   |
| July      | 100.0                     | 705             | 1.96                     | 1.88                  | 2.38                  | 2.05                   |
| August    | 99.7                      | 706             | 1.98                     | 1.89                  | 2.57                  | 2.14                   |
| September | 97.8                      | 669             | 1.98                     | 1.86                  | 2.28                  | 2.06                   |
| October   | 100.0                     | 706             | 1.99                     | 1.91                  | 2.18                  | 2.05                   |
| November  | 100.0                     | 685             | 1.99                     | 1.92                  | 2.16                  | 2.04                   |
| December  | 100.0                     | 708             | 2.04                     | 1.94                  | 2.45                  | 2.12                   |
| Annual    | 99.4                      | 8275            | 2.00                     | 1.86                  | 2.80                  | 2.26                   |

Table 37 CH4 2019 Annual Frequency Distribution

| Month     | Percer | ntage Reading | s in Concentra | ition Range (ir | n ppm) |
|-----------|--------|---------------|----------------|-----------------|--------|
|           | 0 - 2  | 3 - 5         | 6 - 10         | 11 - 20         | >20    |
| January   | 100.0% | 0.0%          | 0.0%           | 0.0%            | 0.0%   |
| February  | 96.8%  | 3.2%          | 0.0%           | 0.0%            | 0.0%   |
| March     | 99.0%  | 1.0%          | 0.0%           | 0.0%            | 0.0%   |
| April     | 100.0% | 0.0%          | 0.0%           | 0.0%            | 0.0%   |
| May       | 99.2%  | 0.8%          | 0.0%           | 0.0%            | 0.0%   |
| June      | 99.7%  | 0.3%          | 0.0%           | 0.0%            | 0.0%   |
| July      | 100.0% | 0.0%          | 0.0%           | 0.0%            | 0.0%   |
| August    | 99.6%  | 0.4%          | 0.0%           | 0.0%            | 0.0%   |
| September | 100.0% | 0.0%          | 0.0%           | 0.0%            | 0.0%   |
| October   | 100.0% | 0.0%          | 0.0%           | 0.0%            | 0.0%   |
| November  | 100.0% | 0.0%          | 0.0%           | 0.0%            | 0.0%   |
| December  | 99.9%  | 0.1%          | 0.0%           | 0.0%            | 0.0%   |
| Annual    | 99.5%  | 0.5%          | 0.0%           | 0.0%            | 0.0%   |

Table 38 CH4 2019 Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|----------------|------|-----|-------------|------------|-----------|
| 36                      | 0  | 8  | 2           | 11             | 58   | 280 | 2           | 8          | 8         |
| Total Hours<br>Downtime | of | 73 | Total Hours | of Calibration | Time | 436 | Total Hours | of Flagged | 509       |

Table 39 NMHC 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppm) | Min.<br>1-hr<br>(ppm) | Max.<br>1-hr<br>(ppm) | Max.<br>24-hr<br>(ppm) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | 100.0                     | 705             | 0.00                     | 0.00                  | 0.00                  | 0.00                   |
| February  | 98.4                      | 627             | 0.00                     | 0.00                  | 0.00                  | 0.00                   |
| March     | 98.9                      | 699             | 0.00                     | 0.00                  | 0.02                  | 0.00                   |
| April     | 99.6                      | 681             | 0.00                     | 0.00                  | 0.00                  | 0.00                   |
| May       | 100.0                     | 709             | 0.01                     | 0.00                  | 0.82                  | 0.33                   |
| June      | 98.8                      | 675             | 0.00                     | 0.00                  | 0.00                  | 0.00                   |
| July      | 100.0                     | 705             | 0.00                     | 0.00                  | 0.02                  | 0.00                   |
| August    | 99.7                      | 706             | 0.00                     | 0.00                  | 0.00                  | 0.00                   |
| September | 97.8                      | 669             | 0.00                     | 0.00                  | 0.00                  | 0.00                   |
| October   | 100.0                     | 706             | 0.00                     | 0.00                  | 0.00                  | 0.00                   |
| November  | 100.0                     | 685             | 0.00                     | 0.00                  | 0.19                  | 0.01                   |
| December  | 100.0                     | 708             | 0.00                     | 0.00                  | 0.00                  | 0.00                   |
| Annual    | 99.4                      | 8275            | 0.00                     | 0.00                  | 0.82                  | 0.33                   |

Table 40 NMHC 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppm) |           |           |      |      |  |  |  |  |  |
|-----------|---|-----------|-----------|------|------|--|--|--|--|--|
|           | 0 - 0.1   | 0.2 - 0.3 | 0.4 - 0.9 | 1 -2 | >2   |  |  |  |  |  |
| January   | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| February  | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| March     | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| April     | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| May       | 97.6%   | 0.6%      | 1.8%      | 0.0% | 0.0% |  |  |  |  |  |
| June      | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| July      | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| August    | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| September | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| October   | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| November  | 99.9%   | 0.1%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| December  | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| Annual    | 99.8%   | 0.1%      | 0.2%      | 0.0% | 0.0% |  |  |  |  |  |

Table 41 NMHC 2019 Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | K                               | С  | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|---------------------------------|----|-----|-------------|------------|-----------|
| 36                      | 0  | 8  | 2           | 11                              | 58 | 280 | 2           | 8          | 8         |
| Total Hours<br>Downtime | of | 73 | Total Hours | Total Hours of Calibration Time |    | 436 | Total Hours | of Flagged | 509       |

Table 42 RH 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(%) | Min.<br>1-hr<br>(%) | Max.<br>1-hr<br>(%) | Max.<br>24-hr<br>(%) |
|-----------|---------------------------|-----------------|------------------------|---------------------|---------------------|----------------------|
| January   | 100.0                     | 744             | 80.1                   | 58                  | 95                  | 93                   |
| February  | 100.0                     | 672             | 70.6                   | 39                  | 92                  | 82                   |
| March     | 100.0                     | 744             | 60.4                   | 16                  | 94                  | 77                   |
| April     | 100.0                     | 720             | 54.3                   | 13                  | 97                  | 82                   |
| May       | 100.0                     | 744             | 43.2                   | 13                  | 91                  | 68                   |
| June      | 98.9                      | 711             | 63.1                   | 19                  | 95                  | 88                   |
| July      | 100.0                     | 744             | 73.4                   | 34                  | 95                  | 91                   |
| August    | 100.0                     | 744             | 74.5                   | 34                  | 96                  | 89                   |
| September | 97.9                      | 705             | 73.3                   | 34                  | 96                  | 90                   |
| October   | 100.0                     | 744             | 71.6                   | 27                  | 96                  | 94                   |
| November  | 100.0                     | 720             | 81.9                   | 45                  | 96                  | 93                   |
| December  | 100.0                     | 744             | 77.6                   | 37                  | 93                  | 87                   |
| Annual    | 99.7                      | 8736            | 68.7                   | 13                  | 97                  | 94                   |

Table 43 RH Qualifier Flag Summary

| Р                    | Х  | Υ  | R           | К              | С    | S | Q           | C1         | <b>S1</b> |
|----------------------|----|----|-------------|----------------|------|---|-------------|------------|-----------|
| 12                   | 0  | 0  | 0           | 11             | 0    | 0 | 0           | 0          | 0         |
| Total Hours Downtime | of | 23 | Total Hours | of Calibration | Time | 0 | Total Hours | of Flagged | 23        |

Table 44 BP 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(mb) | Min.<br>1-hr<br>(mb) | Max.<br>1-hr<br>(mb) | Max.<br>24-hr<br>(mb) |
|-----------|---------------------------|-----------------|-------------------------|----------------------|----------------------|-----------------------|
| January   | 100.0                     | 744             | 941.8                   | 922                  | 960                  | 959                   |
| February  | 100.0                     | 672             | 949.5                   | 931                  | 971                  | 965                   |
| March     | 100.0                     | 744             | 947.6                   | 923                  | 971                  | 969                   |
| April     | 100.0                     | 720             | 940.5                   | 925                  | 955                  | 955                   |
| May       | 100.0                     | 744             | 943.0                   | 929                  | 952                  | 951                   |
| June      | 98.9                      | 711             | 942.0                   | 933                  | 950                  | 949                   |
| July      | 100.0                     | 744             | 942.4                   | 928                  | 955                  | 954                   |
| August    | 100.0                     | 744             | 943.5                   | 932                  | 950                  | 949                   |
| September | 97.9                      | 705             | 942.5                   | 930                  | 959                  | 957                   |
| October   | 100.0                     | 744             | 941.5                   | 921                  | 963                  | 961                   |
| November  | 100.0                     | 720             | 943.5                   | 923                  | 967                  | 964                   |
| December  | 100.0                     | 744             | 937.0                   | 919                  | 950                  | 948                   |
| Annual    | 99.7                      | 8736            | 942.9                   | 919                  | 971                  | 969                   |

Table 45 BP Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | К              | С    | S | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|----------------|------|---|-------------|------------|-----------|
| 12                      | 0  | 0  | 0           | 11             | 0    | 0 | 0           | 0          | 0         |
| Total Hours of Downtime | of | 23 | Total Hours | of Calibration | Time | 0 | Total Hours | of Flagged | 23        |

Table 46 AT 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(°C) | Min.<br>1-hr<br>(°C) | Max.<br>1-hr<br>(°C) | Max.<br>24-hr<br>(°C) |
|-----------|---------------------------|-----------------|-------------------------|----------------------|----------------------|-----------------------|
| January   | 100.0                     | 744             | -10.3                   | -29.8                | 5.9                  | 4.1                   |
| February  | 100.0                     | 672             | -22.0                   | -39.8                | -1.7                 | -7.0                  |
| March     | 100.0                     | 744             | -3.6                    | -36.4                | 18.4                 | 7.3                   |
| April     | 100.0                     | 720             | 3.3                     | -7.9                 | 15.4                 | 8.7                   |
| May       | 100.0                     | 744             | 11.1                    | -8.7                 | 29.5                 | 21.0                  |
| June      | 98.9                      | 711             | 13.8                    | 1.8                  | 28.3                 | 20.5                  |
| July      | 100.0                     | 744             | 15.1                    | 1.6                  | 27.8                 | 21.1                  |
| August    | 100.0                     | 744             | 13.0                    | 0.1                  | 25.1                 | 18.9                  |
| September | 97.9                      | 705             | 9.6                     | -6.1                 | 22.2                 | 15.1                  |
| October   | 100.0                     | 744             | 2.1                     | -14.3                | 16.9                 | 8.8                   |
| November  | 100.0                     | 720             | -5.5                    | -19.7                | 7.2                  | 4.7                   |
| December  | 100.0                     | 744             | -9.7                    | -24.7                | 3.3                  | -0.4                  |
| Annual    | 99.7                      | 8736            | 1.4                     | -39.8                | 29.5                 | 21.1                  |

Table 47 AT Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | К              | С    | S | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|----------------|------|---|-------------|------------|-----------|
| 12                      | 0  | 0  | 0           | 11             | 0    | 0 | 0           | 0          | 0         |
| Total Hours of Downtime | of | 23 | Total Hours | of Calibration | Time | 0 | Total Hours | of Flagged | 23        |

Table 48 WS 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(kph) | Min. 1-hr<br>(kph) | Max.<br>1-hr<br>(kph) | Max.<br>24-hr<br>(kph) |
|-----------|---------------------------|-----------------|--------------------------|--------------------|-----------------------|------------------------|
| January   | 100.0                     | 743             | 1.1                      | 0.1                | 36.0                  | 16.9                   |
| February  | 100.0                     | 672             | 0.7                      | 0.2                | 20.6                  | 14.7                   |
| March     | 100.0                     | 744             | 3.7                      | 0.3                | 24.0                  | 14.2                   |
| April     | 100.0                     | 720             | 3.5                      | 0.1                | 29.8                  | 17.4                   |
| May       | 100.0                     | 744             | 1.1                      | 0.2                | 30.0                  | 14.1                   |
| June      | 98.9                      | 711             | 3.3                      | 0.1                | 32.2                  | 17.8                   |
| July      | 100.0                     | 744             | 2.7                      | 0.0                | 21.6                  | 12.9                   |
| August    | 100.0                     | 742             | 2.1                      | 0.2                | 22.3                  | 13.5                   |
| September | 97.9                      | 705             | 3.0                      | 0.3                | 26.9                  | 15.2                   |
| October   | 100.0                     | 744             | 4.2                      | 0.1                | 29.4                  | 19.5                   |
| November  | 100.0                     | 720             | 3.4                      | 0.3                | 30.4                  | 19.2                   |
| December  | 100.0                     | 744             | 4.3                      | 0.1                | 30.2                  | 17.0                   |
| Annual    | 99.7                      | 8733            | 2.8                      | 0.0                | 36.0                  | 19.5                   |

Table 49 WS 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in kph) |        |         |        |      |  |  |  |  |  |  |
|-----------|---|--------|---------|--------|------|--|--|--|--|--|--|
|           | 0 - 6   | 7 - 15 | 16 - 29 | 30 -39 | >39  |  |  |  |  |  |  |
| January   | 37.7%   | 55.5%  | 6.7%    | 0.1%   | 0.0% |  |  |  |  |  |  |
| February  | 48.4%   | 47.8%  | 3.9%    | 0.0%   | 0.0% |  |  |  |  |  |  |
| March     | 46.1%   | 48.1%  | 5.8%    | 0.0%   | 0.0% |  |  |  |  |  |  |
| April     | 32.2%   | 50.8%  | 16.8%   | 0.1%   | 0.0% |  |  |  |  |  |  |
| May       | 43.5%   | 46.4%  | 9.9%    | 0.1%   | 0.0% |  |  |  |  |  |  |
| June      | 39.2%   | 47.5%  | 13.2%   | 0.1%   | 0.0% |  |  |  |  |  |  |
| July      | 52.7%   | 42.3%  | 5.0%    | 0.0%   | 0.0% |  |  |  |  |  |  |
| August    | 51.5%   | 45.1%  | 3.4%    | 0.0%   | 0.0% |  |  |  |  |  |  |
| September | 44.4%   | 45.4%  | 10.2%   | 0.0%   | 0.0% |  |  |  |  |  |  |
| October   | 28.2%   | 60.2%  | 11.6%   | 0.0%   | 0.0% |  |  |  |  |  |  |
| November  | 39.4%   | 51.5%  | 8.9%    | 0.1%   | 0.0% |  |  |  |  |  |  |
| December  | 41.1%   | 49.5%  | 9.1%    | 0.3%   | 0.0% |  |  |  |  |  |  |
| Annual    | 42.0%   | 49.2%  | 8.7%    | 0.1%   | 0.0% |  |  |  |  |  |  |

Table 50 WS Qualifier Flag Summary

| Р                       | Х  | Υ  | R                               | К  | С | S           | Q          | C1 | <b>S1</b> |
|-------------------------|----|----|---------------------------------|----|---|-------------|------------|----|-----------|
| 12                      | 0  | 0  | 0                               | 11 | 0 | 0           | 1          | 0  | 0         |
| Total Hours of Downtime | of | 23 | Total Hours of Calibration Time |    | 1 | Total Hours | of Flagged | 24 |           |

## 1.3 Reno Station

Table 51 SO2 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppb) | # of 30-day<br>AAAQO<br>Exceedances | Min.<br>1-hr<br>(ppb) | Max.<br>1-hr<br>(ppb) | # of 1-hr<br>AAAQO<br>Exceedances | Max.<br>24-hr<br>(ppb) | # of 24-hr<br>AAAQO<br>Exceedances |
|-----------|---------------------------|-----------------|--------------------------|-------------------------------------|-----------------------|-----------------------|-----------------------------------|------------------------|------------------------------------|
| January   | 100.0                     | 704             | 0.0                      | 0                                   | 0                     | 2                     | 0                                 | 1                      | 0                                  |
| February  | 100.0                     | 638             | 0.1                      | 0                                   | 0                     | 2                     | 0                                 | 1                      | 0                                  |
| March     | 100.0                     | 708             | 0.4                      | 0                                   | 0                     | 3                     | 0                                 | 1                      | 0                                  |
| April     | 99.9                      | 681             | 0.2                      | 0                                   | 0                     | 1                     | 0                                 | 1                      | 0                                  |
| May       | 99.7                      | 705             | 0.1                      | 0                                   | 0                     | 2                     | 0                                 | 1                      | 0                                  |
| June      | 99.9                      | 682             | 0.0                      | 0                                   | 0                     | 1                     | 0                                 | 0                      | 0                                  |
| July      | 100.0                     | 706             | 0.0                      | 0                                   | 0                     | 2                     | 0                                 | 0                      | 0                                  |
| August    | 100.0                     | 708             | 0.0                      | 0                                   | 0                     | 1                     | 0                                 | 0                      | 0                                  |
| September | 99.4                      | 683             | 0.0                      | 0                                   | 0                     | 6                     | 0                                 | 0                      | 0                                  |
| October   | 98.1                      | 692             | 0.0                      | 0                                   | 0                     | 1                     | 0                                 | 0                      | 0                                  |
| November  | 100.0                     | 684             | 0.0                      | 0                                   | 0                     | 1                     | 0                                 | 0                      | 0                                  |
| December  | 100.0                     | 709             | 0.1                      | 0                                   | 0                     | 1                     | 0                                 | 1                      | 0                                  |
| Annual    | 99.8                      | 8300            | 0.1                      | 0                                   | 0                     | 6                     | 0                                 | 1                      | 0                                  |

Table 52 SO2 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppb) |        |         |           |      |  |  |  |  |  |  |
|-----------|---|--------|---------|-----------|------|--|--|--|--|--|--|
|           | 0 - 10  | 11 -50 | 51 -100 | 101 - 172 | >172 |  |  |  |  |  |  |
| January   | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| February  | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| March     | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| April     | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| May       | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| June      | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| July      | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| August    | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| September | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| October   | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| November  | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| December  | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |
| Annual    | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |  |

Table 53 SO2 2019 Qualifier Flag Summary

| Р                    | х  | Υ  | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|----------------------|----|----|-------------|----------------|------|-----|-------------|------------|-----------|
| 14                   | 0  | 2  | 4           | 0              | 61   | 281 | 3           | 0          | 2         |
| Total Hours Downtime | of | 22 | Total Hours | of Calibration | Time | 439 | Total Hours | of Flagged | 461       |

Table 54 TRS 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppb) | Min.<br>1-hr<br>(ppb) | Max.<br>1-hr<br>(ppb) | Max.<br>24-hr<br>(ppb) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | 100.0                     | 704             | 0.4                      | 0.3                   | 1.3                   | 0.6                    |
| February  | 100.0                     | 635             | 0.4                      | 0.2                   | 3.6                   | 0.7                    |
| March     | 92.2                      | 653             | 0.3                      | 0.1                   | 1.0                   | 0.5                    |
| April     | 99.9                      | 680             | 0.4                      | 0.2                   | 1.4                   | 0.5                    |
| May       | 97.6                      | 689             | 0.4                      | 0.3                   | 3.6                   | 1.3                    |
| June      | 99.7                      | 680             | 0.5                      | 0.2                   | 3.5                   | 0.9                    |
| July      | 100.0                     | 705             | 0.5                      | 0.2                   | 4.6                   | 1.2                    |
| August    | 97.8                      | 692             | 0.5                      | 0.2                   | 3.7                   | 1.1                    |
| September | 99.4                      | 680             | 0.5                      | 0.2                   | 5.0                   | 1.8                    |
| October   | 98.0                      | 691             | 0.4                      | 0.2                   | 2.5                   | 0.8                    |
| November  | 100.0                     | 682             | 0.4                      | 0.3                   | 0.6                   | 0.5                    |
| December  | 100.0                     | 709             | 0.4                      | 0.0                   | 1.0                   | 0.5                    |
| Annual    | 98.7                      | 8200            | 0.4                      | 0.0                   | 5.0                   | 1.8                    |

Table 55 TRS 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppb) |       |        |         |      |  |  |  |  |  |
|-----------|---|-------|--------|---------|------|--|--|--|--|--|
|           | 0 - 2   | 3 - 5 | 6 - 10 | 11 - 50 | >50  |  |  |  |  |  |
| January   | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| February  | 99.8%   | 0.2%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| March     | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| April     | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| May       | 99.6%   | 0.4%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| June      | 99.3%   | 0.7%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| July      | 98.6%   | 1.4%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| August    | 99.1%   | 0.9%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| September | 98.7%   | 1.3%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| October   | 99.9%   | 0.1%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| November  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| December  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| Annual    | 99.6%   | 0.4%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |

Table 56 TRS 2019 Qualifier Flag Summary

| Р                       | Х  | Υ   | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|-----|-------------|----------------|------|-----|-------------|------------|-----------|
| 14                      | 58 | 18  | 4           | 16             | 72   | 277 | 3           | 0          | 3         |
| Total Hours of Downtime | of | 114 | Total Hours | of Calibration | Time | 446 | Total Hours | of Flagged | 560       |

Table 57 THC 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(in ppm) | Min.<br>1-hr<br>(in ppm) | Max.<br>1-hr<br>(in ppm) | Max.<br>24-hr<br>(in ppm) |
|-----------|---------------------------|-----------------|-----------------------------|--------------------------|--------------------------|---------------------------|
| January   | 99.6                      | 701             | 2.03                        | 1.91                     | 3.28                     | 2.16                      |
| February  | 100.0                     | 637             | 2.18                        | 1.93                     | 10.23                    | 3.19                      |
| March     | 100.0                     | 708             | 2.11                        | 1.95                     | 6.31                     | 2.40                      |
| April     | 99.2                      | 677             | 1.99                        | 1.92                     | 3.85                     | 2.16                      |
| May       | 97.6                      | 689             | 2.00                        | 1.92                     | 3.20                     | 2.23                      |
| June      | 99.9                      | 681             | 1.94                        | 1.87                     | 2.30                     | 1.99                      |
| July      | 100.0                     | 706             | 1.97                        | 1.88                     | 2.60                     | 2.08                      |
| August    | 97.7                      | 692             | 1.99                        | 1.88                     | 3.10                     | 2.18                      |
| September | 99.3                      | 680             | 1.97                        | 1.87                     | 2.43                     | 2.08                      |
| October   | 98.0                      | 692             | 2.00                        | 1.90                     | 2.67                     | 2.10                      |
| November  | 100.0                     | 684             | 2.00                        | 1.90                     | 2.72                     | 2.08                      |
| December  | 100.0                     | 710             | 2.05                        | 1.91                     | 2.54                     | 2.22                      |
| Annual    | 99.3                      | 8257            | 2.02                        | 1.87                     | 10.23                    | 3.19                      |

Table 58 THC 2019 Annual Frequency Distribution

| Month     | Percer | ntage Reading | s in Concentra | ition Range (ir | n ppm) |
|-----------|--------|---------------|----------------|-----------------|--------|
|           | 0 - 2  | 3 - 5         | 6 - 10         | 11 - 40         | >40    |
| January   | 98.9%  | 1.1%          | 0.0%           | 0.0%            | 0.0%   |
| February  | 92.3%  | 7.1%          | 0.6%           | 0.0%            | 0.0%   |
| March     | 94.1%  | 5.8%          | 0.1%           | 0.0%            | 0.0%   |
| April     | 99.0%  | 1.0%          | 0.0%           | 0.0%            | 0.0%   |
| May       | 98.4%  | 1.6%          | 0.0%           | 0.0%            | 0.0%   |
| June      | 100.0% | 0.0%          | 0.0%           | 0.0%            | 0.0%   |
| July      | 99.6%  | 0.4%          | 0.0%           | 0.0%            | 0.0%   |
| August    | 99.0%  | 1.0%          | 0.0%           | 0.0%            | 0.0%   |
| September | 99.9%  | 0.1%          | 0.0%           | 0.0%            | 0.0%   |
| October   | 99.7%  | 0.3%          | 0.0%           | 0.0%            | 0.0%   |
| November  | 99.7%  | 0.3%          | 0.0%           | 0.0%            | 0.0%   |
| December  | 99.2%  | 0.8%          | 0.0%           | 0.0%            | 0.0%   |
| Annual    | 98.3%  | 1.6%          | 0.1%           | 0.0%            | 0.0%   |

Table 59 THC 2019 Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | К                               | С  | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|---------------------------------|----|-----|-------------|------------|-----------|
| 2                       | 20 | 6  | 2           | 16                              | 47 | 187 | 3           | 0          | 4         |
| Total Hours<br>Downtime | of | 65 | Total Hours | Total Hours of Calibration Time |    | 438 | Total Hours | of Flagged | 503       |

Table 60 CH4 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(in ppm) | Min.<br>1-hr<br>(in ppm) | Max.<br>1-hr<br>(in ppm) | Max.<br>24-hr<br>(in ppm) |
|-----------|---------------------------|-----------------|-----------------------------|--------------------------|--------------------------|---------------------------|
| January   | 99.6                      | 701             | 2.03                        | 1.91                     | 3.28                     | 2.16                      |
| February  | 100.0                     | 637             | 2.18                        | 1.93                     | 10.18                    | 3.19                      |
| March     | 100.0                     | 708             | 2.11                        | 1.95                     | 6.31                     | 2.40                      |
| April     | 99.2                      | 677             | 1.99                        | 1.92                     | 3.85                     | 2.16                      |
| May       | 97.6                      | 689             | 1.99                        | 1.92                     | 2.53                     | 2.11                      |
| June      | 99.9                      | 681             | 1.94                        | 1.87                     | 2.30                     | 1.99                      |
| July      | 100.0                     | 706             | 1.97                        | 1.88                     | 2.60                     | 2.08                      |
| August    | 97.7                      | 692             | 1.99                        | 1.88                     | 3.10                     | 2.18                      |
| September | 99.3                      | 680             | 1.97                        | 1.87                     | 2.43                     | 2.08                      |
| October   | 98.0                      | 692             | 2.00                        | 1.90                     | 2.48                     | 2.10                      |
| November  | 100.0                     | 684             | 2.00                        | 1.90                     | 2.72                     | 2.08                      |
| December  | 100.0                     | 710             | 2.05                        | 1.91                     | 2.54                     | 2.21                      |
| Annual    | 99.3                      | 8257            | 2.02                        | 1.87                     | 10.18                    | 3.19                      |

Table 61 CH4 2019 Annual Frequency Distribution

| Month     | Percer | ntage Reading | s in Concentra | ition Range (ir | n ppm) |
|-----------|--------|---------------|----------------|-----------------|--------|
|           | 0 - 2  | 3 - 5         | 6 - 10         | 11 - 20         | >20    |
| January   | 98.9%  | 1.1%          | 0.0%           | 0.0%            | 0.0%   |
| February  | 92.3%  | 7.1%          | 0.6%           | 0.0%            | 0.0%   |
| March     | 94.2%  | 5.6%          | 0.1%           | 0.0%            | 0.0%   |
| April     | 99.0%  | 1.0%          | 0.0%           | 0.0%            | 0.0%   |
| May       | 99.1%  | 0.9%          | 0.0%           | 0.0%            | 0.0%   |
| June      | 100.0% | 0.0%          | 0.0%           | 0.0%            | 0.0%   |
| July      | 99.6%  | 0.4%          | 0.0%           | 0.0%            | 0.0%   |
| August    | 99.0%  | 1.0%          | 0.0%           | 0.0%            | 0.0%   |
| September | 99.9%  | 0.1%          | 0.0%           | 0.0%            | 0.0%   |
| October   | 99.9%  | 0.1%          | 0.0%           | 0.0%            | 0.0%   |
| November  | 99.7%  | 0.3%          | 0.0%           | 0.0%            | 0.0%   |
| December  | 99.2%  | 0.8%          | 0.0%           | 0.0%            | 0.0%   |
| Annual    | 98.4%  | 1.6%          | 0.1%           | 0.0%            | 0.0%   |

Table 62 CH4 2019 Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|----------------|------|-----|-------------|------------|-----------|
| 2                       | 20 | 6  | 2           | 16             | 47   | 187 | 3           | 0          | 4         |
| Total Hours<br>Downtime | of | 65 | Total Hours | of Calibration | Time | 438 | Total Hours | of Flagged | 503       |

Table 63 NMHC 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(in ppm) | Min.<br>1-hr<br>(in ppm) | Max.<br>1-hr<br>(in ppm) | Max.<br>24-hr<br>(in ppm) |
|-----------|---------------------------|-----------------|-----------------------------|--------------------------|--------------------------|---------------------------|
| January   | 99.6                      | 701             | 0.00                        | 0.00                     | 0.01                     | 0.00                      |
| February  | 100.0                     | 637             | 0.00                        | 0.00                     | 0.05                     | 0.00                      |
| March     | 100.0                     | 708             | 0.00                        | 0.00                     | 0.36                     | 0.02                      |
| April     | 99.2                      | 677             | 0.00                        | 0.00                     | 0.02                     | 0.00                      |
| May       | 97.6                      | 689             | 0.00                        | 0.00                     | 0.67                     | 0.12                      |
| June      | 99.9                      | 681             | 0.00                        | 0.00                     | 0.00                     | 0.00                      |
| July      | 100.0                     | 706             | 0.00                        | 0.00                     | 0.00                     | 0.00                      |
| August    | 97.7                      | 692             | 0.00                        | 0.00                     | 0.00                     | 0.00                      |
| September | 99.3                      | 680             | 0.00                        | 0.00                     | 0.04                     | 0.00                      |
| October   | 98.0                      | 692             | 0.00                        | 0.00                     | 0.24                     | 0.02                      |
| November  | 100.0                     | 684             | 0.00                        | 0.00                     | 0.03                     | 0.00                      |
| December  | 100.0                     | 710             | 0.00                        | 0.00                     | 0.02                     | 0.00                      |
| Annual    | 99.3                      | 8257            | 0.00                        | 0.00                     | 0.67                     | 0.12                      |

Table 64 NMHC 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppm) |           |           |      |      |  |  |  |  |  |
|-----------|---|-----------|-----------|------|------|--|--|--|--|--|
|           | 0 - 0.1   | 0.2 - 0.3 | 0.4 - 0.9 | 1 -2 | >2   |  |  |  |  |  |
| January   | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| February  | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| March     | 99.9%   | 0.0%      | 0.1%      | 0.0% | 0.0% |  |  |  |  |  |
| April     | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| May       | 99.0%   | 0.6%      | 0.4%      | 0.0% | 0.0% |  |  |  |  |  |
| June      | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| July      | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| August    | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| September | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| October   | 99.7%   | 0.3%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| November  | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| December  | 100.0%  | 0.0%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |
| Annual    | 99.9%   | 0.1%      | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |

Table 65 NMHC 2019 Qualifier Flag Summary

| Р                       | х  | Υ  | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|----------------|------|-----|-------------|------------|-----------|
| 2                       | 20 | 6  | 2           | 16             | 47   | 187 | 3           | 0          | 4         |
| Total Hours<br>Downtime | of | 65 | Total Hours | of Calibration | Time | 438 | Total Hours | of Flagged | 503       |

Table 66 RH 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(%) | Min.<br>1-hr<br>(%) | Max.<br>1-hr<br>(%) | Max.<br>24-hr<br>(%) |
|-----------|---------------------------|-----------------|------------------------|---------------------|---------------------|----------------------|
| January   | 100.0                     | 744             | 72.3                   | 53                  | 92                  | 87                   |
| February  | 100.0                     | 672             | 61.3                   | 43                  | 87                  | 77                   |
| March     | 100.0                     | 744             | 55.7                   | 18                  | 91                  | 74                   |
| April     | 100.0                     | 720             | 52.1                   | 12                  | 93                  | 80                   |
| May       | 100.0                     | 744             | 41.8                   | 11                  | 92                  | 73                   |
| June      | 100.0                     | 720             | 62.4                   | 17                  | 100                 | 88                   |
| July      | 100.0                     | 744             | 73.6                   | 38                  | 100                 | 92                   |
| August    | 97.8                      | 728             | 73.2                   | 30                  | 97                  | 89                   |
| September | 99.7                      | 718             | 71.0                   | 33                  | 96                  | 90                   |
| October   | 94.9                      | 706             | 69.5                   | 22                  | 99                  | 96                   |
| November  | 100.0                     | 720             | 77.9                   | 49                  | 98                  | 92                   |
| December  | 100.0                     | 744             | 72.0                   | 38                  | 89                  | 80                   |
| Annual    | 99.4                      | 8704            | 65.2                   | 11                  | 100                 | 96                   |

Table 67 RH Qualifier Flag Summary

| Р                       | х  | Υ  | R           | К                               | С | S | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|---------------------------------|---|---|-------------|------------|-----------|
| 14                      | 26 | 0  | 0           | 16                              | 0 | 0 | 0           | 0          | 0         |
| Total Hours<br>Downtime | of | 56 | Total Hours | Total Hours of Calibration Time |   | 0 | Total Hours | of Flagged | 56        |

Table 68 BP 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(mb) | Min.<br>1-hr<br>(mb) | Max.<br>1-hr<br>(mb) | Max.<br>24-hr<br>(mb) |
|-----------|---------------------------|-----------------|-------------------------|----------------------|----------------------|-----------------------|
| January   | 100.0                     | 744             | 936.8                   | 916                  | 955                  | 954                   |
| February  | 100.0                     | 672             | 944.0                   | 926                  | 964                  | 959                   |
| March     | 100.0                     | 744             | 943.1                   | 919                  | 964                  | 964                   |
| April     | 100.0                     | 720             | 936.2                   | 920                  | 951                  | 950                   |
| May       | 100.0                     | 744             | 938.5                   | 926                  | 948                  | 947                   |
| June      | 100.0                     | 720             | 937.6                   | 929                  | 946                  | 945                   |
| July      | 100.0                     | 744             | 938.1                   | 925                  | 950                  | 949                   |
| August    | 97.8                      | 728             | 939.3                   | 928                  | 945                  | 944                   |
| September | 99.7                      | 718             | 937.8                   | 926                  | 954                  | 952                   |
| October   | 94.9                      | 706             | 937.9                   | 917                  | 958                  | 956                   |
| November  | 100.0                     | 720             | 938.9                   | 920                  | 962                  | 959                   |
| December  | 100.0                     | 744             | 932.2                   | 915                  | 944                  | 943                   |
| Annual    | 99.4                      | 8704            | 938.4                   | 915                  | 964                  | 964                   |

Table 69 BP Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | К              | С    | S | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|----------------|------|---|-------------|------------|-----------|
| 14                      | 26 | 0  | 0           | 16             | 0    | 0 | 0           | 0          | 0         |
| Total Hours of Downtime | of | 56 | Total Hours | of Calibration | Time | 0 | Total Hours | of Flagged | 56        |

Table 70 AT 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(°C) | Min.<br>1-hr<br>(°C) | Max.<br>1-hr<br>(°C) | Max.<br>24-hr<br>(°C) |
|-----------|---------------------------|-----------------|-------------------------|----------------------|----------------------|-----------------------|
| January   | 100.0                     | 744             | -9.5                    | -29.2                | 6.1                  | 4.4                   |
| February  | 100.0                     | 672             | -21.9                   | -38.1                | -3.4                 | -7.5                  |
| March     | 100.0                     | 744             | -3.4                    | -33.6                | 17.3                 | 6.8                   |
| April     | 100.0                     | 720             | 3.5                     | -6.8                 | 15.0                 | 8.4                   |
| May       | 100.0                     | 744             | 11.3                    | -6.9                 | 29.0                 | 21.9                  |
| June      | 100.0                     | 720             | 14.0                    | 3.6                  | 29.3                 | 20.5                  |
| July      | 100.0                     | 744             | 15.3                    | 2.8                  | 27.3                 | 21.2                  |
| August    | 97.8                      | 728             | 13.4                    | 2.5                  | 26.0                 | 19.8                  |
| September | 99.7                      | 718             | 10.1                    | -4.0                 | 23.1                 | 15.9                  |
| October   | 94.9                      | 706             | 2.0                     | -14.2                | 17.0                 | 8.8                   |
| November  | 100.0                     | 720             | -5.1                    | -21.9                | 8.9                  | 4.9                   |
| December  | 100.0                     | 744             | -9.7                    | -20.6                | 3.5                  | -0.7                  |
| Annual    | 99.4                      | 8704            | 1.7                     | -38.1                | 29.3                 | 21.9                  |

Table 71 AT Qualifier Flag Summary

| Р                       | Х                          | Υ | R           | K              | С    | S | Q           | C1         | <b>S1</b> |
|-------------------------|----------------------------|---|-------------|----------------|------|---|-------------|------------|-----------|
| 14                      | 26                         | 0 | 0           | 16             | 0    | 0 | 0           | 0          | 0         |
| Total Hours of Downtime | Total Hours of Downtime 56 |   | Total Hours | of Calibration | Time | 0 | Total Hours | of Flagged | 56        |

Table 72 WS 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(kph) | Min.<br>1-hr<br>(kph) | Max.<br>1-hr<br>(kph) | Max.<br>24-hr<br>(kph) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | 100.0                     | 744             | 0.8                      | 0.3                   | 21.7                  | 12.9                   |
| February  | 100.0                     | 641             | 0.9                      | 0.8                   | 18.1                  | 9.7                    |
| March     | 100.0                     | 717             | 2.6                      | 0.3                   | 15.3                  | 11.8                   |
| April     | 100.0                     | 719             | 1.9                      | 0.4                   | 17.6                  | 11.4                   |
| May       | 100.0                     | 744             | 1.7                      | 0.0                   | 20.4                  | 14.2                   |
| June      | 100.0                     | 720             | 2.1                      | 0.0                   | 18.1                  | 12.5                   |
| July      | 100.0                     | 744             | 1.9                      | 0.0                   | 14.4                  | 9.3                    |
| August    | 100.0                     | 728             | 1.3                      | 0.0                   | 13.9                  | 8.1                    |
| September | 99.7                      | 718             | 1.4                      | 0.0                   | 18.1                  | 9.5                    |
| October   | 93.4                      | 695             | 2.9                      | 0.2                   | 20.4                  | 11.5                   |
| November  | 100.0                     | 720             | 1.9                      | 0.3                   | 19.3                  | 11.4                   |
| December  | 100.0                     | 744             | 2.5                      | 0.0                   | 17.3                  | 9.8                    |
| Annual    | 99.4                      | 8634            | 1.8                      | 0.0                   | 21.7                  | 14.2                   |

Table 73 WS 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in kph) |        |         |        |      |  |  |  |  |  |
|-----------|---|--------|---------|--------|------|--|--|--|--|--|
|           | 0 - 6   | 7 - 15 | 16 - 29 | 30 -39 | >39  |  |  |  |  |  |
| January   | 44.2%   | 53.6%  | 2.2%    | 0.0%   | 0.0% |  |  |  |  |  |
| February  | 64.6%   | 34.9%  | 0.5%    | 0.0%   | 0.0% |  |  |  |  |  |
| March     | 63.5%   | 36.5%  | 0.0%    | 0.0%   | 0.0% |  |  |  |  |  |
| April     | 47.0%   | 51.3%  | 1.7%    | 0.0%   | 0.0% |  |  |  |  |  |
| May       | 56.3%   | 41.1%  | 2.6%    | 0.0%   | 0.0% |  |  |  |  |  |
| June      | 63.6%   | 34.4%  | 1.9%    | 0.0%   | 0.0% |  |  |  |  |  |
| July      | 74.9%   | 25.1%  | 0.0%    | 0.0%   | 0.0% |  |  |  |  |  |
| August    | 76.4%   | 23.6%  | 0.0%    | 0.0%   | 0.0% |  |  |  |  |  |
| September | 65.6%   | 34.1%  | 0.3%    | 0.0%   | 0.0% |  |  |  |  |  |
| October   | 49.8%   | 49.6%  | 0.6%    | 0.0%   | 0.0% |  |  |  |  |  |
| November  | 58.5%   | 40.4%  | 1.1%    | 0.0%   | 0.0% |  |  |  |  |  |
| December  | 64.1%   | 35.1%  | 0.8%    | 0.0%   | 0.0% |  |  |  |  |  |
| Annual    | 60.7%   | 38.3%  | 1.0%    | 0.0%   | 0.0% |  |  |  |  |  |

Table 74 WS Qualifier Flag Summary

| Р                       | Х  | Υ   | R           | К              | С    | S | Q           | C1         | <b>S1</b> |
|-------------------------|----|-----|-------------|----------------|------|---|-------------|------------|-----------|
| 14                      | 95 | 0   | 0           | 16             | 1    | 0 | 0           | 0          | 0         |
| Total Hours of Downtime | of | 125 | Total Hours | of Calibration | Time | 1 | Total Hours | of Flagged | 126       |

## 1.4 AQHI - Cadotte Lake Station

Table 75 SO2 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppb) | # of 30-day<br>AAAQO<br>Exceedances | Min.<br>1-hr<br>(ppb) | Max.<br>1-hr<br>(ppb) | # of 1-hr<br>AAAQO<br>Exceedances | Max.<br>24-hr<br>(ppb) | # of 24-hr<br>AAAQO<br>Exceedances |
|-----------|---------------------------|-----------------|--------------------------|-------------------------------------|-----------------------|-----------------------|-----------------------------------|------------------------|------------------------------------|
| January   | -                         | -               | -                        | -                                   | -                     | -                     | -                                 | -                      | =                                  |
| February  | -                         | -               | -                        | -                                   | -                     | -                     | -                                 | -                      | -                                  |
| March     | -                         | -               | -                        | -                                   | -                     | -                     | -                                 | -                      | -                                  |
| April     | -                         | -               | -                        | -                                   | -                     | -                     | -                                 | -                      | -                                  |
| May       | -                         | -               | -                        | -                                   | -                     | -                     | -                                 | -                      | -                                  |
| June      | -                         | -               | -                        | -                                   | -                     | -                     | -                                 | -                      | =                                  |
| July      | -                         | -               | -                        | -                                   | -                     | -                     | -                                 | -                      | -                                  |
| August    | -                         | -               | -                        | -                                   | -                     | -                     | -                                 | -                      | -                                  |
| September | -                         | -               | -                        | -                                   | -                     | -                     | -                                 | -                      | =                                  |
| October   | 98.7                      | 665             | 0.0                      | 0                                   | 0                     | 0                     | 0                                 | 0                      | 0                                  |
| November  | 100.0                     | 684             | 0.0                      | 0                                   | 0                     | 0                     | 0                                 | 0                      | 0                                  |
| December  | 99.9                      | 706             | 0.0                      | 0                                   | 0                     | 0                     | 0                                 | 0                      | 0                                  |
| Annual    | 99.5                      | 2055            | 0.0                      | 0                                   | 0                     | 0                     | 0                                 | 0                      | 0                                  |

Table 76 SO2 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppb) |        |         |           |      |  |  |  |  |  |
|-----------|---|--------|---------|-----------|------|--|--|--|--|--|
|           | 0 - 10  | 11 -50 | 51 -100 | 101 - 172 | >172 |  |  |  |  |  |
| January   | -   | -      | -       | -         | -    |  |  |  |  |  |
| February  | -   | -      | -       | -         | -    |  |  |  |  |  |
| March     | -   | -      | -       | -         | -    |  |  |  |  |  |
| April     | -   | -      | -       | -         | -    |  |  |  |  |  |
| May       | ı   | ı      | -       | -         | =    |  |  |  |  |  |
| June      | -   | -      | -       | -         | -    |  |  |  |  |  |
| July      | 1   | 1      | ı       | ı         | -    |  |  |  |  |  |
| August    | ı   | ı      | -       | -         | =    |  |  |  |  |  |
| September | ı   | ı      | -       | -         | =    |  |  |  |  |  |
| October   | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |
| November  | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |
| December  | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |
| Annual    | 100.0%  | 0.0%   | 0.0%    | 0.0%      | 0.0% |  |  |  |  |  |

Table 77 SO2 2019 Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|----------------|------|-----|-------------|------------|-----------|
| 0                       | 0  | 6  | 0           | 0              | 16   | 93  | 0           | 4          | 0         |
| Total Hours of Downtime | of | 10 | Total Hours | of Calibration | Time | 109 | Total Hours | of Flagged | 119       |

Table 78 TRS 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppb) | Min.<br>1-hr<br>(ppb) | Max.<br>1-hr<br>(ppb) | Max.<br>24-hr<br>(ppb) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | =                         | =               | =                        | -                     | =                     | =                      |
| February  | -                         | -               | -                        | -                     | -                     | -                      |
| March     | -                         | -               | -                        | -                     | -                     | -                      |
| April     | -                         | -               | -                        | -                     | -                     | -                      |
| May       | =                         | ı               | =                        | ı                     | ı                     | =                      |
| June      | -                         | -               | -                        | -                     | -                     | -                      |
| July      | =                         |                 | =                        | ı                     | ı                     | =                      |
| August    | =                         |                 | =                        | ı                     | ı                     | =                      |
| September | =                         | =               | -                        | -                     | =                     | =                      |
| October   | 93.1                      | 605             | 0.3                      | 0.0                   | 0.7                   | 0.4                    |
| November  | 97.5                      | 665             | 0.3                      | 0.0                   | 0.7                   | 0.5                    |
| December  | 99.3                      | 702             | 0.4                      | 0.1                   | 0.8                   | 0.5                    |
| Annual    | 96.7                      | 1972            | 0.3                      | 0.0                   | 0.8                   | 0.5                    |

Table 79 TRS 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppb) |       |        |         |      |  |  |  |  |  |
|-----------|---|-------|--------|---------|------|--|--|--|--|--|
|           | 0 - 2   | 3 - 5 | 6 - 10 | 11 - 50 | >50  |  |  |  |  |  |
| January   | 1   | -     | 1      | 1       | -    |  |  |  |  |  |
| February  | -   | -     | -      | -       | -    |  |  |  |  |  |
| March     | -   | -     | -      | -       | -    |  |  |  |  |  |
| April     | -   | -     | -      | -       | -    |  |  |  |  |  |
| May       | -   | -     | -      | -       | -    |  |  |  |  |  |
| June      | -   | -     | -      | -       | -    |  |  |  |  |  |
| July      | -   | -     | -      | -       | -    |  |  |  |  |  |
| August    | -   | -     | -      | -       | -    |  |  |  |  |  |
| September | -   | -     | -      | -       | -    |  |  |  |  |  |
| October   | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| November  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| December  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |
| Annual    | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |

Table 80 TRS 2019 Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|----------------|------|-----|-------------|------------|-----------|
| 0                       | 58 | 2  | 0           | 0              | 17   | 90  | 0           | 10         | 0         |
| Total Hours of Downtime | of | 70 | Total Hours | of Calibration | Time | 107 | Total Hours | of Flagged | 177       |

Table 81 NOx 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppb) | Min.<br>1-hr<br>(ppb) | Max.<br>1-hr<br>(ppb) | Max.<br>24-hr<br>(ppb) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | =                         | =               | -                        | -                     | =                     | =                      |
| February  | -                         | -               | -                        | -                     | -                     | -                      |
| March     | -                         | -               | -                        | -                     | -                     | -                      |
| April     | -                         | -               | -                        | -                     | -                     | -                      |
| May       | -                         |                 | ı                        | ı                     | ı                     | =                      |
| June      | -                         | -               | -                        | -                     | -                     | -                      |
| July      | -                         |                 | ı                        | ı                     | ı                     | =                      |
| August    | -                         |                 | ı                        | ı                     | ı                     | =                      |
| September | =                         | =               | -                        | -                     | =                     | =                      |
| October   | 67.9                      | 454             | 0.6                      | 0                     | 10                    | 2                      |
| November  | 97.9                      | 668             | 1.4                      | 0                     | 25                    | 4                      |
| December  | 99.9                      | 705             | 2.2                      | 0                     | 18                    | 5                      |
| Annual    | 88.6                      | 1827            | 1.4                      | 0                     | 25                    | 5                      |

Table 82 NOx 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppb) |         |         |          |      |  |  |  |  |  |
|-----------|---|---------|---------|----------|------|--|--|--|--|--|
|           | 0 - 30  | 31 - 50 | 51 - 82 | 83 - 159 | >159 |  |  |  |  |  |
| January   | 1   | -       | -       | 1        | -    |  |  |  |  |  |
| February  | -   | -       | -       | -        | -    |  |  |  |  |  |
| March     | -   | -       | -       | -        | -    |  |  |  |  |  |
| April     | -   | -       | -       | -        | -    |  |  |  |  |  |
| May       | -   | -       | -       | -        | -    |  |  |  |  |  |
| June      | -   | -       | -       | -        | -    |  |  |  |  |  |
| July      | -   | -       | -       | -        | -    |  |  |  |  |  |
| August    | 1   | ı       | -       | 1        | -    |  |  |  |  |  |
| September | -   | -       | -       | ı        | -    |  |  |  |  |  |
| October   | 100.0%  | 0.0%    | 0.0%    | 0.0%     | 0.0% |  |  |  |  |  |
| November  | 100.0%  | 0.0%    | 0.0%    | 0.0%     | 0.0% |  |  |  |  |  |
| December  | 100.0%  | 0.0%    | 0.0%    | 0.0%     | 0.0% |  |  |  |  |  |
| Annual    | 100.0%  | 0.0%    | 0.0%    | 0.0%     | 0.0% |  |  |  |  |  |

Table 83 NOx 2019 Qualifier Flag Summary

| Р                    | Х   | Υ   | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|----------------------|-----|-----|-------------|----------------|------|-----|-------------|------------|-----------|
| 0                    | 221 | 9   | 0           | 0              | 20   | 83  | 0           | 14         | 0         |
| Total Hours Downtime | of  | 224 | Total Hours | of Calibration | Time | 103 | Total Hours | of Flagged | 347       |

Table 84 NO 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppb) | Min.<br>1-hr<br>(ppb) | Max.<br>1-hr<br>(ppb) | Max.<br>24-hr<br>(ppb) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | =                         | =               | -                        | -                     | -                     | -                      |
| February  | -                         | -               | -                        | -                     | -                     | -                      |
| March     | -                         | -               | -                        | -                     | -                     | -                      |
| April     | -                         | -               | -                        | -                     | -                     | -                      |
| May       | -                         | -               | -                        | -                     | -                     | -                      |
| June      | -                         | -               | -                        | -                     | -                     | -                      |
| July      | -                         | ı               | ı                        | ı                     | =                     | =                      |
| August    | -                         | ı               | ı                        | ı                     | =                     | =                      |
| September | =                         | -               | -                        | -                     | -                     | -                      |
| October   | 67.9                      | 454             | 0.1                      | 0                     | 8                     | 1                      |
| November  | 97.9                      | 668             | 0.3                      | 0                     | 13                    | 2                      |
| December  | 99.9                      | 705             | 0.4                      | 0                     | 13                    | 2                      |
| Annual    | 88.6                      | 1827            | 0.3                      | 0                     | 13                    | 2                      |

Table 85 NO 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppb) |         |         |          |      |  |  |  |  |  |
|-----------|---|---------|---------|----------|------|--|--|--|--|--|
|           | 0 - 30  | 31 - 50 | 51 - 82 | 83 - 159 | >159 |  |  |  |  |  |
| January   | -   | -       | -       | 1        | -    |  |  |  |  |  |
| February  | -   | -       | -       | -        | -    |  |  |  |  |  |
| March     | -   | -       | -       | -        | -    |  |  |  |  |  |
| April     | -   | -       | -       | -        | -    |  |  |  |  |  |
| May       | -   | -       | -       | -        | -    |  |  |  |  |  |
| June      | -   | -       | =       | ı        | =    |  |  |  |  |  |
| July      | -   | -       | -       | ı        | -    |  |  |  |  |  |
| August    | 1   | ī       | -       | 1        | -    |  |  |  |  |  |
| September | -   | -       | =       | ı        | =    |  |  |  |  |  |
| October   | 100.0%  | 0.0%    | 0.0%    | 0.0%     | 0.0% |  |  |  |  |  |
| November  | 100.0%  | 0.0%    | 0.0%    | 0.0%     | 0.0% |  |  |  |  |  |
| December  | 100.0%  | 0.0%    | 0.0%    | 0.0%     | 0.0% |  |  |  |  |  |
| Annual    | 100.0%  | 0.0%    | 0.0%    | 0.0%     | 0.0% |  |  |  |  |  |

Table 86 NO 2019 Qualifier Flag Summary

| Р                       | Х   | Υ   | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|-------------------------|-----|-----|-------------|----------------|------|-----|-------------|------------|-----------|
| 0                       | 221 | 9   | 0           | 0              | 20   | 83  | 0           | 14         | 0         |
| Total Hours<br>Downtime | of  | 224 | Total Hours | of Calibration | Time | 103 | Total Hours | of Flagged | 347       |

Table 87 NO2 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppb) | Min.<br>1-hr<br>(ppb) | Max.<br>1-hr<br>(ppb) | # of 1-hr<br>AAAQO<br>Exceedances | Max.<br>24-hr<br>(ppb) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|-----------------------------------|------------------------|
| January   | =                         | =               | =                        | =                     | -                     | =                                 | -                      |
| February  | -                         | -               | -                        | -                     | -                     | -                                 | -                      |
| March     | -                         | -               | -                        | -                     | -                     | -                                 | -                      |
| April     | -                         | -               | -                        | -                     | -                     | -                                 | -                      |
| May       | =                         | -               | -                        | =                     | -                     | -                                 | -                      |
| June      | -                         | -               | -                        | -                     | -                     | -                                 | -                      |
| July      | =                         | -               | -                        | =                     | -                     | =                                 | -                      |
| August    | =                         | ı               | ı                        | ı                     | ı                     | T.                                | ı                      |
| September | -                         | -               | -                        | -                     | -                     | -                                 | -                      |
| October   | 67.9                      | 454             | 0.4                      | 0                     | 5                     | 0                                 | 2                      |
| November  | 97.9                      | 668             | 1.1                      | 0                     | 11                    | 0                                 | 3                      |
| December  | 99.9                      | 705             | 1.8                      | 0                     | 12                    | 0                                 | 3                      |
| Annual    | 88.6                      | 1827            | 1.1                      | 0                     | 12                    | 0                                 | 3                      |

Table 88 NO2 2019 Annual Frequency Distribution

| Month     | Percei | ntage Reading | s in Concentra | ation Range (i | n ppb) |
|-----------|--------|---------------|----------------|----------------|--------|
|           | 0 - 30 | 31 - 50       | 51 - 82        | 83 - 159       | >159   |
| January   | -      | ı             | -              | -              | =      |
| February  | -      | -             | -              | -              | -      |
| March     | -      | -             | -              | -              | -      |
| April     | -      | -             | -              | -              | -      |
| May       | -      | -             | -              | -              | -      |
| June      | -      | -             | -              | -              | -      |
| July      | -      | -             | -              | -              | -      |
| August    | -      | -             | -              | -              | -      |
| September | -      | -             | -              | -              | -      |
| October   | 100.0% | 0.0%          | 0.0%           | 0.0%           | 0.0%   |
| November  | 100.0% | 0.0%          | 0.0%           | 0.0%           | 0.0%   |
| December  | 100.0% | 0.0%          | 0.0%           | 0.0%           | 0.0%   |
| Annual    | 100.0% | 0.0%          | 0.0%           | 0.0%           | 0.0%   |

Table 89 NO2 2019 Qualifier Flag Summary

| Р                       | Х   | Υ   | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|-------------------------|-----|-----|-------------|----------------|------|-----|-------------|------------|-----------|
| 0                       | 221 | 9   | 0           | 0              | 20   | 83  | 0           | 14         | 0         |
| Total Hours of Downtime | of  | 224 | Total Hours | of Calibration | Time | 103 | Total Hours | of Flagged | 347       |

Table 90 O3 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppb) | Min.<br>1-hr<br>(ppb) | Max.<br>1-hr<br>(ppb) | # of 1-hr<br>AAAQO<br>Exceedances | Max.<br>24-hr<br>(ppb) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|-----------------------------------|------------------------|
| January   | -                         | -               | -                        | -                     | -                     | -                                 | -                      |
| February  | -                         | 1               | -                        | -                     | 1                     | -                                 | -                      |
| March     | -                         | =               | -                        | =                     | -                     | =                                 | =                      |
| April     | =                         | ı               | =                        | ı                     | ı                     | T.                                | -                      |
| May       | -                         | -               | -                        | -                     | -                     | -                                 | -                      |
| June      | =                         | -               | -                        | -                     | -                     | =                                 | -                      |
| July      | -                         | -               | -                        | =                     | -                     | =                                 | -                      |
| August    | =                         | ı               | =                        | ı                     | ı                     | T.                                | -                      |
| September | -                         | -               | -                        | -                     | -                     | -                                 | -                      |
| October   | 98.7                      | 660             | 18.8                     | 0.0                   | 38.0                  | 0                                 | 30.3                   |
| November  | 98.3                      | 669             | 20.2                     | 0.0                   | 43.0                  | 0                                 | 37.5                   |
| December  | 99.9                      | 706             | 19.1                     | 0.0                   | 39.0                  | 0                                 | 33.9                   |
| Annual    | 99.0                      | 2035            | 19.4                     | 0.0                   | 43.0                  | 0                                 | 37.5                   |

Table 91 O3 2019 Annual Frequency Distribution

| Month     | Percei | ntage Reading | s in Concentra | ation Range (i | n ppb) |
|-----------|--------|---------------|----------------|----------------|--------|
|           | 0 - 30 | 31 - 50       | 51 - 82        | 83 - 159       | >159   |
| January   | -      | -             | -              | -              | -      |
| February  | -      | -             | -              | -              | -      |
| March     | -      | -             | -              | -              | -      |
| April     | -      | -             | -              | -              | -      |
| May       | -      | -             | -              | -              | -      |
| June      | -      | -             | -              | -              | -      |
| July      | -      | -             | -              | -              | =      |
| August    | ı      | ı             | -              | -              | =      |
| September | =      | -             | -              | -              | -      |
| October   | 85.5%  | 14.5%         | 0.0%           | 0.0%           | 0.0%   |
| November  | 77.1%  | 22.9%         | 0.0%           | 0.0%           | 0.0%   |
| December  | 84.1%  | 15.9%         | 0.0%           | 0.0%           | 0.0%   |
| Annual    | 82.2%  | 17.8%         | 0.0%           | 0.0%           | 0.0%   |

Table 92 O3 2019 Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | К              | С    | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|----------------|------|-----|-------------|------------|-----------|
| 0                       | 0  | 9  | 0           | 0              | 19   | 91  | 0           | 9          | 4         |
| Total Hours<br>Downtime | of | 22 | Total Hours | of Calibration | Time | 110 | Total Hours | of Flagged | 132       |

Table 93 THC 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppm) | Min.<br>1-hr<br>(ppm) | Max.<br>1-hr<br>(ppm) | Max.<br>24-hr<br>(ppm) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | -                         | -               | -                        | -                     | -                     | -                      |
| February  | -                         | -               | -                        | -                     | -                     | -                      |
| March     | -                         | -               | -                        | -                     | -                     | -                      |
| April     | =                         | -               | -                        | -                     | =                     | ı                      |
| May       | -                         | -               | =                        | -                     | -                     | -                      |
| June      | -                         | -               | -                        | -                     | -                     | -                      |
| July      | -                         | -               | -                        | -                     | -                     | -                      |
| August    | -                         | -               | -                        | -                     | -                     | -                      |
| September | -                         | -               | -                        | -                     | -                     | -                      |
| October   | 94.3                      | 613             | 1.90                     | 1.82                  | 2.02                  | 1.93                   |
| November  | 100.0                     | 687             | 1.90                     | 1.85                  | 1.97                  | 1.96                   |
| December  | 99.9                      | 706             | 1.96                     | 1.79                  | 2.43                  | 2.07                   |
| Annual    | 98.1                      | 2006            | 1.92                     | 1.79                  | 2.43                  | 2.07                   |

Table 94 THC 2019 Annual Frequency Distribution

| Month     | Percer | Percentage Readings in Concentration Range (in ppm) |        |         |      |  |  |  |  |  |  |  |
|-----------|--------|---|--------|---------|------|--|--|--|--|--|--|--|
|           | 0 - 2  | 3 - 5   | 6 - 10 | 11 - 40 | >40  |  |  |  |  |  |  |  |
| January   | -      | ı   | -      | -       | -    |  |  |  |  |  |  |  |
| February  | -      | -   | -      | -       | -    |  |  |  |  |  |  |  |
| March     | -      | -   | -      | -       | -    |  |  |  |  |  |  |  |
| April     | -      | -   | -      | -       | -    |  |  |  |  |  |  |  |
| May       | -      | -   | -      | -       | -    |  |  |  |  |  |  |  |
| June      | -      | -   | -      | -       | -    |  |  |  |  |  |  |  |
| July      | -      | -   | -      | -       | -    |  |  |  |  |  |  |  |
| August    | -      | -   | -      | -       | -    |  |  |  |  |  |  |  |
| September | -      | -   | -      | -       | -    |  |  |  |  |  |  |  |
| October   | 100.0% | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |  |  |
| November  | 100.0% | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |  |  |
| December  | 99.9%  | 0.1%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |  |  |
| Annual    | 100.0% | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |  |  |

Table 95 THC 2019 Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | К                               | С  | S   | Q           | C1         | <b>S1</b> |
|-------------------------|----|----|-------------|---------------------------------|----|-----|-------------|------------|-----------|
| 0                       | 0  | 29 | 0           | 0                               | 11 | 90  | 0           | 11         | 0         |
| Total Hours of Downtime | of | 40 | Total Hours | Total Hours of Calibration Time |    | 101 | Total Hours | of Flagged | 141       |

Table 96 CH4 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppm) | Min.<br>1-hr<br>(ppm) | Max.<br>1-hr<br>(ppm) | Max.<br>24-hr<br>(ppm) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | -                         | -               | -                        | -                     | -                     | -                      |
| February  | -                         | 1               | -                        | -                     | -                     | -                      |
| March     | =                         | -               | =                        | =                     | =                     | =                      |
| April     | -                         | -               | -                        | -                     | -                     | -                      |
| May       | -                         | -               | -                        | -                     | -                     | -                      |
| June      | -                         | -               | -                        | -                     | -                     | -                      |
| July      | -                         | -               | -                        | -                     | -                     | -                      |
| August    | -                         | -               | -                        | -                     | -                     | -                      |
| September | -                         | -               | -                        | -                     | -                     | -                      |
| October   | 94.3                      | 613             | 1.90                     | 1.82                  | 1.99                  | 1.93                   |
| November  | 100.0                     | 687             | 1.90                     | 1.85                  | 1.97                  | 1.96                   |
| December  | 99.9                      | 706             | 1.96                     | 1.79                  | 2.19                  | 2.06                   |
| Annual    | 98.1                      | 2006            | 1.92                     | 1.79                  | 2.19                  | 2.06                   |

Table 97 CH4 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in ppm) |       |        |         |      |  |  |  |  |  |  |
|-----------|---|-------|--------|---------|------|--|--|--|--|--|--|
|           | 0 - 2   | 3 - 5 | 6 - 10 | 11 - 20 | >20  |  |  |  |  |  |  |
| January   | =   | =     | =      | =       | -    |  |  |  |  |  |  |
| February  | -   | -     | -      | -       | -    |  |  |  |  |  |  |
| March     | -   | -     | -      | -       | -    |  |  |  |  |  |  |
| April     | -   | -     | -      | -       | -    |  |  |  |  |  |  |
| May       | -   | -     | -      | -       | -    |  |  |  |  |  |  |
| June      | -   | -     | -      | -       | -    |  |  |  |  |  |  |
| July      | -   | -     | -      | -       | -    |  |  |  |  |  |  |
| August    | -   | -     | -      | -       | -    |  |  |  |  |  |  |
| September | -   | -     | -      | -       | -    |  |  |  |  |  |  |
| October   | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |  |
| November  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |  |
| December  | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |  |
| Annual    | 100.0%  | 0.0%  | 0.0%   | 0.0%    | 0.0% |  |  |  |  |  |  |

Table 98 CH4 2019 Qualifier Flag Summary

| Р                       | Х  | Υ  | R           | К              | С    | S   | Q           | C1         | S1  |
|-------------------------|----|----|-------------|----------------|------|-----|-------------|------------|-----|
| 0                       | 0  | 29 | 0           | 0              | 11   | 90  | 0           | 11         | 0   |
| Total Hours<br>Downtime | of | 40 | Total Hours | of Calibration | Time | 101 | Total Hours | of Flagged | 141 |

Table 99 NMHC 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ppm) | Min.<br>1-hr<br>(ppm) | Max.<br>1-hr<br>(ppm) | Max.<br>24-hr<br>(ppm) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | -                         | -               | -                        | -                     | -                     | -                      |
| February  | -                         | -               | -                        | -                     | -                     | -                      |
| March     | -                         | -               | -                        | -                     | -                     | -                      |
| April     | -                         | -               | -                        | -                     | -                     | -                      |
| May       | -                         | -               | -                        | -                     | -                     | -                      |
| June      | -                         | -               | -                        | -                     | -                     | -                      |
| July      | -                         | -               | -                        | -                     | -                     | -                      |
| August    | -                         | -               | -                        | -                     | -                     | -                      |
| September | -                         | -               | -                        | -                     | -                     | -                      |
| October   | 94.3                      | 613             | 0.00                     | 0.00                  | 0.03                  | 0.00                   |
| November  | 100.0                     | 687             | 0.00                     | 0.00                  | 0.01                  | 0.00                   |
| December  | 99.9                      | 706             | 0.01                     | 0.00                  | 0.33                  | 0.07                   |
| Annual    | 98.1                      | 2006            | 0.00                     | 0.00                  | 0.33                  | 0.07                   |

Table 100 NMHC 2019 Annual Frequency Distribution

| Month     | Percer  | Percentage Readings in Concentration Range (in ppm) |           |      |      |  |  |  |  |  |  |  |
|-----------|---------|---|-----------|------|------|--|--|--|--|--|--|--|
|           | 0 - 0.1 | 0.2 - 0.3   | 0.4 - 0.9 | 1 -2 | >2   |  |  |  |  |  |  |  |
| January   | -       | =   | -         | -    | -    |  |  |  |  |  |  |  |
| February  | -       | -   | -         | -    | -    |  |  |  |  |  |  |  |
| March     | -       | -   | -         | -    | -    |  |  |  |  |  |  |  |
| April     | -       | -   | -         | -    | -    |  |  |  |  |  |  |  |
| May       | -       | -   | -         | -    | -    |  |  |  |  |  |  |  |
| June      | 1       | -   | 1         | 1    | -    |  |  |  |  |  |  |  |
| July      | -       | -   | -         | -    | -    |  |  |  |  |  |  |  |
| August    | -       | -   | -         | -    | -    |  |  |  |  |  |  |  |
| September | -       | -   | -         | -    | -    |  |  |  |  |  |  |  |
| October   | 100.0%  | 0.0%  | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |  |  |
| November  | 100.0%  | 0.0%  | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |  |  |
| December  | 98.6%   | 1.4%  | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |  |  |
| Annual    | 99.5%   | 0.5%  | 0.0%      | 0.0% | 0.0% |  |  |  |  |  |  |  |

Table 101 NMHC 2019 Qualifier Flag Summary

| Р                     | Х  | Υ  | R                               | К | С    | S   | Q           | C1         | <b>S1</b> |
|-----------------------|----|----|---------------------------------|---|------|-----|-------------|------------|-----------|
| 0                     | 0  | 29 | 0                               | 0 | 11   | 90  | 0           | 11         | 0         |
| Total Hours  Downtime | of | 40 | Total Hours of Calibration Time |   | Time | 101 | Total Hours | of Flagged | 141       |

Table 102 PM2.5 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(ug/m3) | Min. 1-hr<br>(ug/m3) | Max. 1-hr<br>(ug/m3) | # of 1-hr<br>AAAQO<br>Exceedances | Max. 24-<br>hr<br>(ug/m3) | # of 24-hr<br>AAAQO<br>Exceedances |
|-----------|---------------------------|-----------------|----------------------------|----------------------|----------------------|-----------------------------------|---------------------------|------------------------------------|
| January   | -                         | -               | -                          | -                    | -                    | -                                 | -                         | -                                  |
| February  | -                         | -               | -                          | -                    | -                    | -                                 | -                         | -                                  |
| March     | -                         | -               | 1                          | -                    | -                    | -                                 | -                         | -                                  |
| April     | -                         | -               | -                          | -                    | -                    | -                                 | -                         | -                                  |
| May       | -                         | ı               | ı                          | -                    | 1                    | -                                 | ı                         | -                                  |
| June      | =                         | =               | -                          | -                    | -                    | =                                 | -                         | -                                  |
| July      | =                         | =               | ı                          | -                    | -                    | =                                 | ı                         | -                                  |
| August    | -                         | =               | -                          | -                    | -                    | =                                 | -                         | -                                  |
| September | -                         | -               | -                          | -                    | -                    | -                                 | -                         | =                                  |
| October   | 100.0                     | 701             | 3.1                        | 0                    | 18                   | 0                                 | 7                         | 0                                  |
| November  | 99.4                      | 712             | 5.0                        | 0                    | 48                   | 0                                 | 18                        | 0                                  |
| December  | 99.9                      | 741             | 5.4                        | 0                    | 34                   | 0                                 | 16                        | 0                                  |
| Annual    | 99.8                      | 2154            | 4.5                        | 0                    | 48                   | 0                                 | 18                        | 0                                  |

Table 103 PM2.5 2019 Annual Frequency Distribution

| Month     | Percent | Percentage Readings in Concentration Range (in ug/m3) |          |           |      |  |  |  |  |  |  |  |
|-----------|---------|---|----------|-----------|------|--|--|--|--|--|--|--|
|           | 0 - 50  | 51 - 80   | 81 - 120 | 121 - 240 | >240 |  |  |  |  |  |  |  |
| January   | -       | -   | -        | -         | -    |  |  |  |  |  |  |  |
| February  | -       | -   | -        | -         | -    |  |  |  |  |  |  |  |
| March     | -       | -   | -        | -         | -    |  |  |  |  |  |  |  |
| April     | -       | -   | -        | -         | -    |  |  |  |  |  |  |  |
| May       | -       | -   | -        | -         | -    |  |  |  |  |  |  |  |
| June      | -       | -   | -        | -         | -    |  |  |  |  |  |  |  |
| July      | -       | -   | -        | -         | -    |  |  |  |  |  |  |  |
| August    | -       | -   | -        | -         | -    |  |  |  |  |  |  |  |
| September | -       | -   | -        | -         | -    |  |  |  |  |  |  |  |
| October   | 100.0%  | 0.0%  | 0.0%     | 0.0%      | 0.0% |  |  |  |  |  |  |  |
| November  | 100.0%  | 0.0%  | 0.0%     | 0.0%      | 0.0% |  |  |  |  |  |  |  |
| December  | 100.0%  | 0.0%  | 0.0%     | 0.0%      | 0.0% |  |  |  |  |  |  |  |
| Annual    | 100.0%  | 0.0%  | 0.0%     | 0.0%      | 0.0% |  |  |  |  |  |  |  |

Table 104 PM2.5 2019 Qualifier Flag Summary

| Р                       | Х  | Υ | R           | К              | С    | S | Q           | C1         | <b>S1</b> |
|-------------------------|----|---|-------------|----------------|------|---|-------------|------------|-----------|
| 0                       | 0  | 3 | 0           | 0              | 7    | 0 | 0           | 2          | 0         |
| Total Hours<br>Downtime | of | 5 | Total Hours | of Calibration | Time | 7 | Total Hours | of Flagged | 12        |

Table 105 RH 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(%) | Min.<br>1-hr<br>(%) | Max.<br>1-hr<br>(%) | Max.<br>24-hr<br>(%) |
|-----------|---------------------------|-----------------|------------------------|---------------------|---------------------|----------------------|
| January   | =                         | =               | =                      | -                   | -                   | =                    |
| February  | -                         | -               | -                      | -                   | -                   | -                    |
| March     | -                         | -               | -                      | -                   | -                   | -                    |
| April     | -                         | -               | -                      | -                   | -                   | -                    |
| May       | -                         | -               | -                      | -                   | -                   | -                    |
| June      | -                         | -               | -                      | -                   | -                   | -                    |
| July      | -                         | ı               | ı                      | ı                   | =                   | =                    |
| August    | -                         | ı               | ı                      | ı                   | =                   | =                    |
| September | =                         | =               | =                      | -                   | -                   | =                    |
| October   | 100.0                     | 718             | 74.8                   | 28                  | 98                  | 96                   |
| November  | 100.0                     | 720             | 81.4                   | 36                  | 98                  | 94                   |
| December  | 99.3                      | 739             | 80.1                   | 49                  | 94                  | 87                   |
| Annual    | 99.8                      | 2177            | 78.8                   | 28                  | 98                  | 96                   |

Table 106 RH 2019 Qualifier Flag Summary

| Р                          | Х | Υ | R                               | К | С | S | Q                      | C1 | <b>S1</b> |
|----------------------------|---|---|---------------------------------|---|---|---|------------------------|----|-----------|
| 0                          | 0 | 5 | 0                               | 0 | 0 | 0 | 0                      | 0  | 0         |
| Total Hours of<br>Downtime |   | 5 | Total Hours of Calibration Time |   |   | 0 | Total Hours of Flagged |    | 5         |

Table 107 AT 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(mb) | Min.<br>1-hr<br>(mb) | Max.<br>1-hr<br>(mb) | Max.<br>24-hr<br>(mb) |
|-----------|---------------------------|-----------------|-------------------------|----------------------|----------------------|-----------------------|
| January   | January                   |                 | =                       | =                    | =                    | -                     |
| February  | -                         | -               | -                       | -                    | -                    | -                     |
| March     | -                         | -               | -                       | -                    | -                    | -                     |
| April     | -                         | -               | -                       | -                    | -                    | -                     |
| May       | -                         | -               | -                       | -                    | -                    | -                     |
| June      | -                         | -               | -                       | -                    | -                    | -                     |
| July      | -                         | -               | -                       | -                    | -                    | -                     |
| August    | -                         | -               | -                       | -                    | -                    | -                     |
| September | -                         | -               | -                       | -                    | -                    | -                     |
| October   | 99.3                      | 713             | 1.5                     | -20.1                | 17.5                 | 9.4                   |
| November  | 100.0                     | 720             | -7.1                    | -29.6                | 7.7                  | 5.4                   |
| December  | 99.3                      | 739             | -13.1                   | -27.4                | 4.0                  | -1.2                  |
| Annual    | 99.5                      | 2172            | -6.2                    | -29.6                | 17.5                 | 9.4                   |

Table 108 AT 2019 Qualifier Flag Summary

| Р                       | Х | Υ  | R                               | К | С | S | Q           | C1         | <b>S1</b> |
|-------------------------|---|----|---------------------------------|---|---|---|-------------|------------|-----------|
| 0                       | 0 | 10 | 0                               | 0 | 0 | 0 | 0           | 0          | 0         |
| Total Hours of Downtime |   |    | Total Hours of Calibration Time |   |   | 0 | Total Hours | of Flagged | 10        |

Table 109 WS 2019 Annual Continuous Data Summary

| Month     | Operational<br>Uptime (%) | # of<br>Reading | Monthly<br>Avg.<br>(kph) | Min.<br>1-hr<br>(kph) | Max.<br>1-hr<br>(kph) | Max.<br>24-hr<br>(kph) |
|-----------|---------------------------|-----------------|--------------------------|-----------------------|-----------------------|------------------------|
| January   | =                         | =               | -                        | -                     | =                     | -                      |
| February  | -                         | -               | -                        | -                     | -                     | -                      |
| March     | -                         | -               | -                        | -                     | -                     | -                      |
| April     | -                         | -               | -                        | -                     | -                     | -                      |
| May       | -                         | -               | -                        | -                     | -                     | -                      |
| June      | -                         | -               | -                        | -                     | -                     | -                      |
| July      | -                         | -               | -                        | -                     | -                     | -                      |
| August    | -                         | -               | -                        | -                     | -                     | -                      |
| September | -                         | -               | -                        | -                     | -                     | -                      |
| October   | 100.0                     | 718             | 2.0                      | 0.3                   | 27.8                  | 14.7                   |
| November  | 93.5                      | 673             | 1.9                      | 0.2                   | 25.3                  | 14.6                   |
| December  | 99.2                      | 736             | 0.5                      | 0.1                   | 19.5                  | 10.3                   |
| Annual    | 97.6                      | 2127            | 1.5                      | 0.1                   | 27.8                  | 14.7                   |

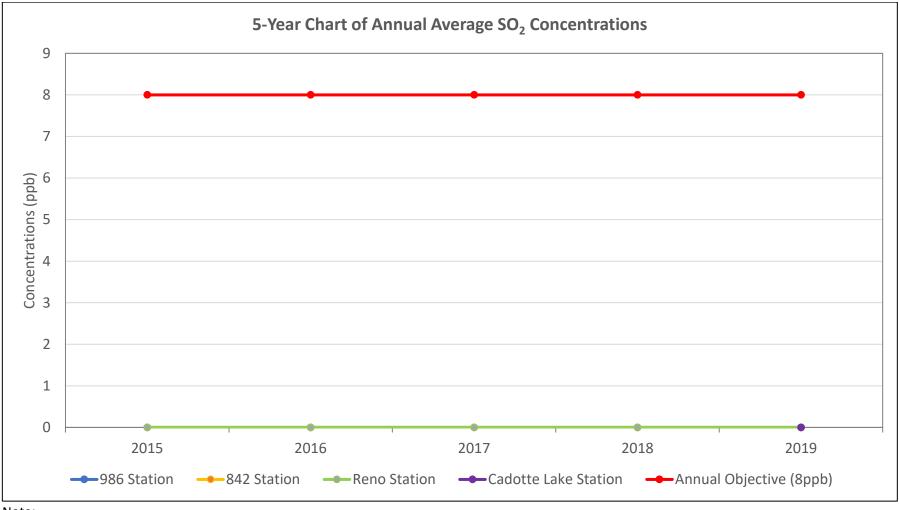
Table 110 WS 2019 Annual Frequency Distribution

| Month     | Percentage Readings in Concentration Range (in kph) |        |         |        |      |  |  |  |  |
|-----------|---|--------|---------|--------|------|--|--|--|--|
|           | 0 - 6   | 7 - 15 | 16 - 29 | 30 -39 | >39  |  |  |  |  |
| January   | -   | ı      | =       | ı      | -    |  |  |  |  |
| February  | -   | -      | -       | -      | -    |  |  |  |  |
| March     | -   | ı      | -       | ı      | -    |  |  |  |  |
| April     | -   | ı      | -       | ı      | -    |  |  |  |  |
| May       | -   | ı      | =       | ı      | =    |  |  |  |  |
| June      |   | ı      | =       | ı      | =    |  |  |  |  |
| July      |   | ı      | -       | ı      | -    |  |  |  |  |
| August    | 1   | 1      | -       | 1      | -    |  |  |  |  |
| September |   | ı      | =       | ı      | =    |  |  |  |  |
| October   | 51.3%   | 44.8%  | 3.9%    | 0.0%   | 0.0% |  |  |  |  |
| November  | 64.3%   | 33.7%  | 1.9%    | 0.0%   | 0.0% |  |  |  |  |
| December  | 75.7%   | 23.2%  | 1.1%    | 0.0%   | 0.0% |  |  |  |  |
| Annual    | 63.8%   | 33.9%  | 2.3%    | 0.0%   | 0.0% |  |  |  |  |

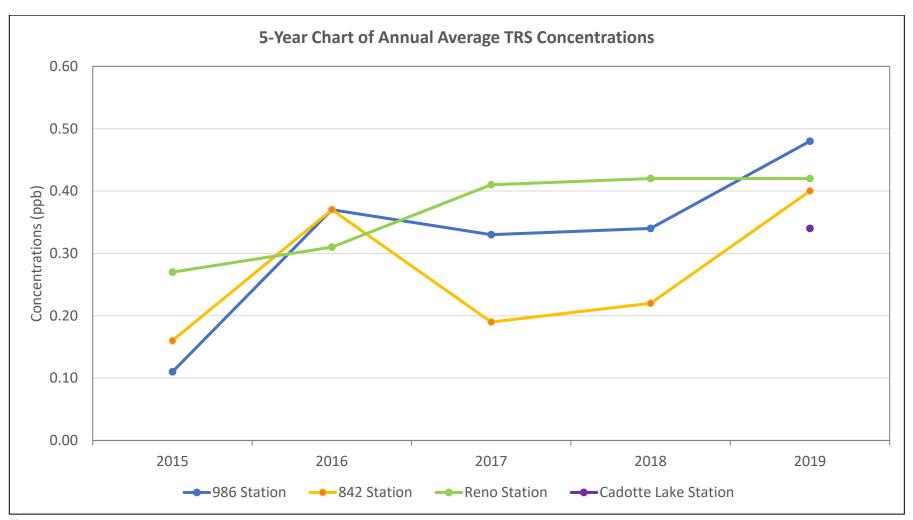
Table 111 WS 2019 Qualifier Flag Summary

| Р                       | х  | Υ  | R                               | К | С | S | Q                      | C1 | <b>S1</b> |
|-------------------------|----|----|---------------------------------|---|---|---|------------------------|----|-----------|
| 0                       | 47 | 6  | 0                               | 0 | 2 | 0 | 0                      | 0  | 0         |
| Total Hours of Downtime | of | 53 | Total Hours of Calibration Time |   |   | 2 | Total Hours of Flagged |    |           |

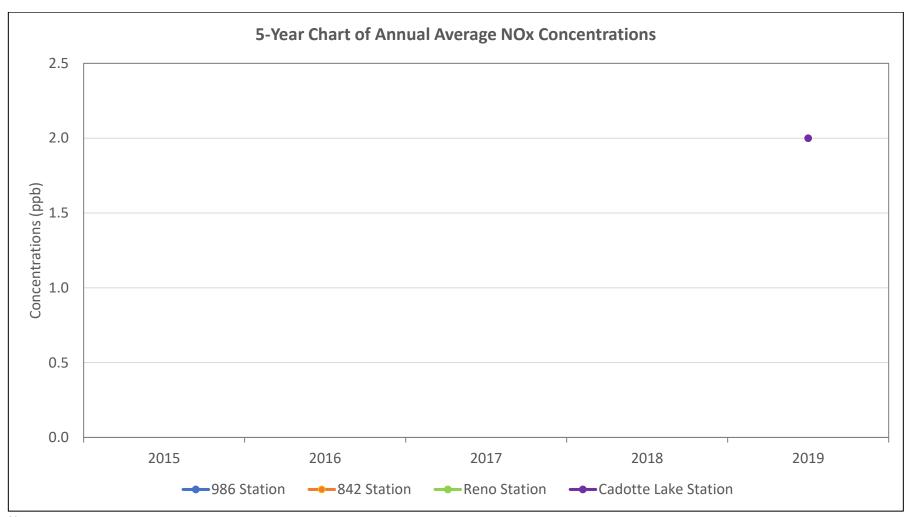
# 2 5-Year Charts of Annual Average Concentrations



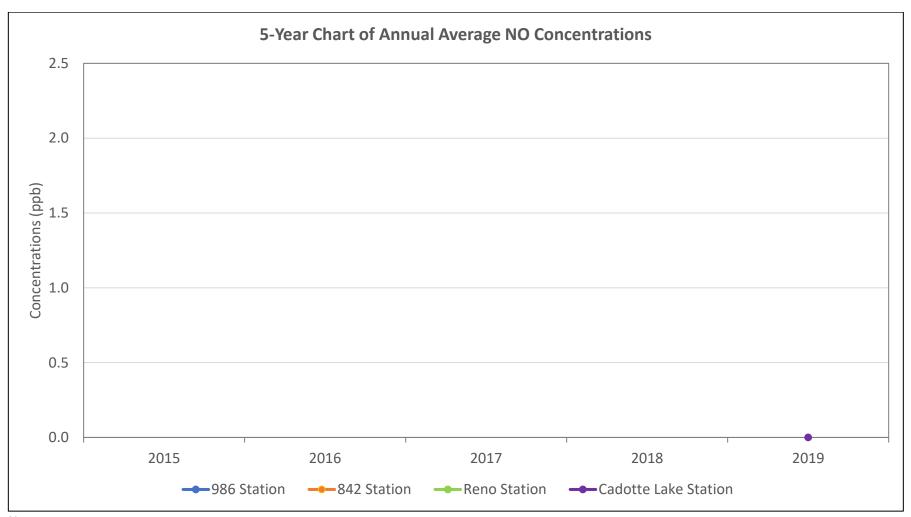
- 1. Cadotte Lake Station was installed in October 2019 no previous data available. Annual average SO2 concentrations for Cadotte Lake Station was calculated based on the monthly averages of October, November and December.
- 2. 2019 average for 986 Station was calculated using both 986b and 986c data.



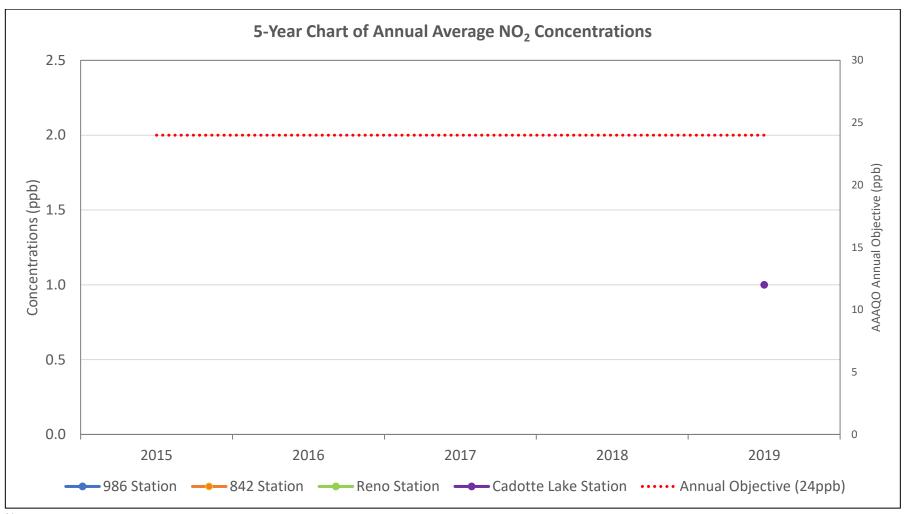
- 1. Cadotte Lake Station was installed in October 2019 no previous data available. Annual average TRS concentrations for Cadotte Lake Station was calculated based on the monthly averages of October, November and December.
- 2. 2019 average for 986 Station was calculated using both 986b and 986c data.



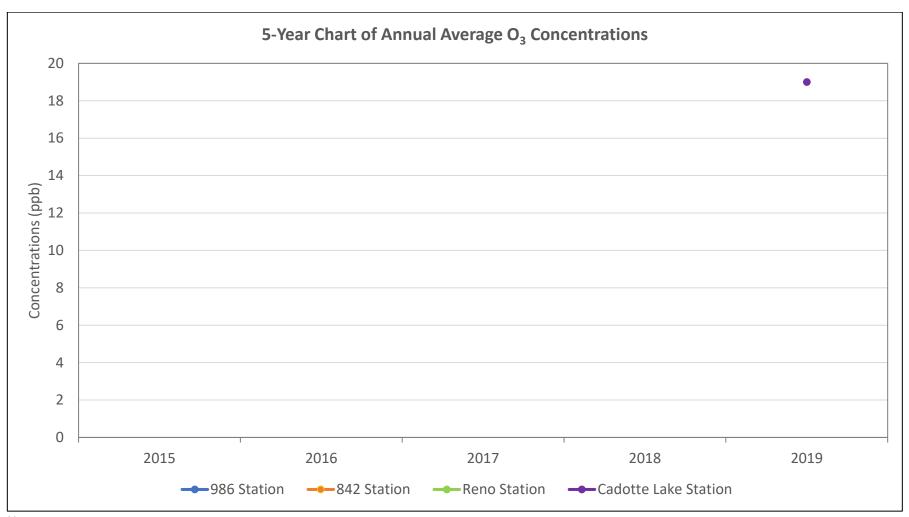
- 1. NOx is only monitored at the Cadotte Station Lake Station.
- 2. Cadotte Lake Station was installed in October 2019 no previous data available. Annual average NOx concentrations for Cadotte Lake Station was calculated based on the monthly averages of October, November and December.



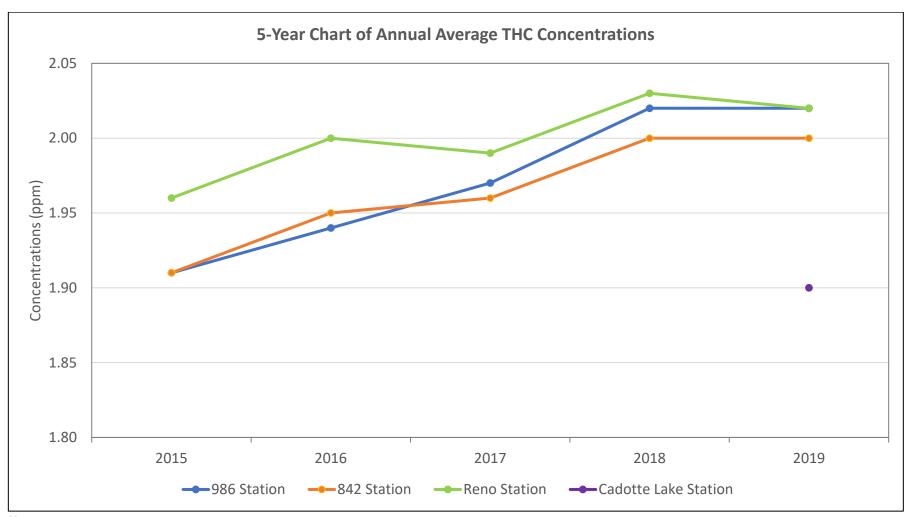
- 1. NO is only monitored at the Cadotte Station Lake Station.
- 2. Cadotte Lake Station was installed in October 2019 no previous data available. Annual average No concentrations for Cadotte Lake Station was calculated based on the monthly averages of October, November and December.



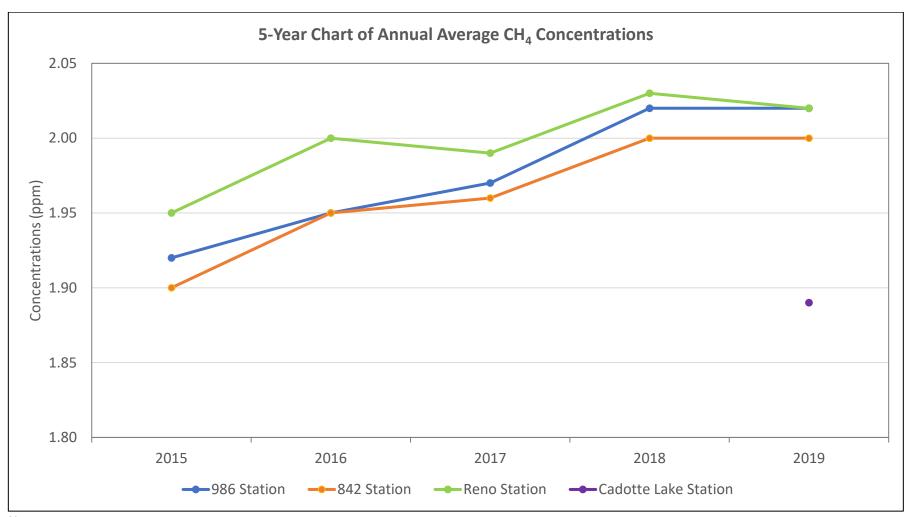
- 1. NO2 is only monitored at the Cadotte Station Lake Station.
- 2. Cadotte Lake Station was installed in October 2019 no previous data available. Annual average NO2 concentrations for Cadotte Lake Station was calculated based on the monthly averages of October, November and December.



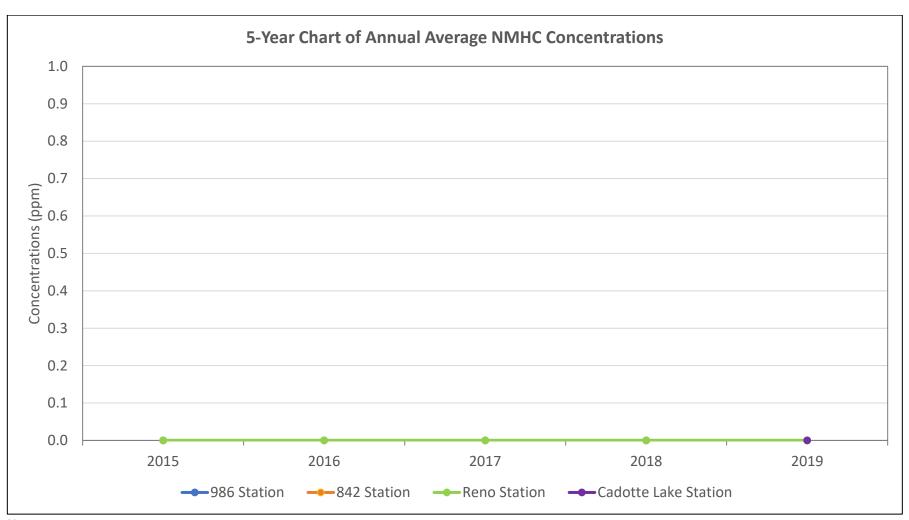
- 1. O3 is only monitored at the Cadotte Lake Station.
- 2. Cadotte Lake Station was installed in October 2019 no previous data available. Annual average O3 concentrations for Cadotte Lake Station was calculated based on the monthly averages of October, November and December.



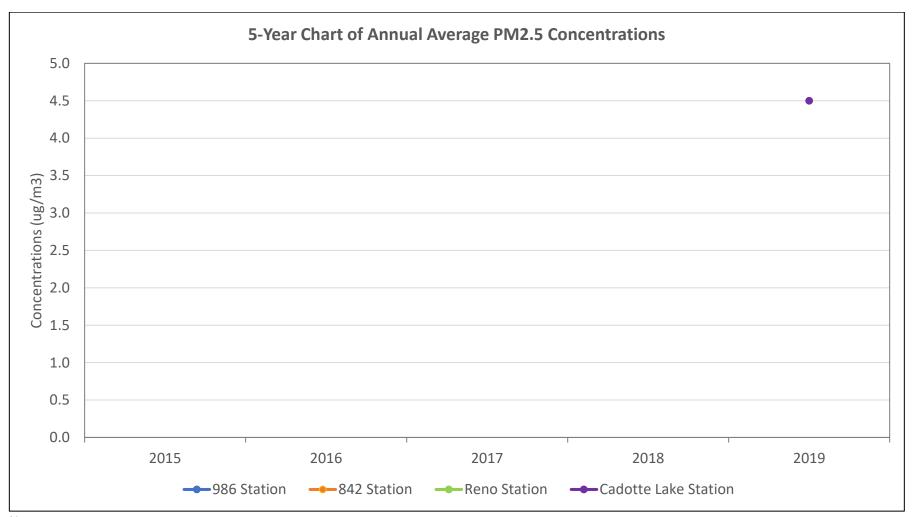
- 1. Cadotte Lake Station was installed in October 2019 no previous data available. Annual average THC concentrations for Cadotte Lake Station was calculated based on the monthly averages of October, November and December.
- 2. 2019 average for 986 Station was calculated using both 986b and 986c data.



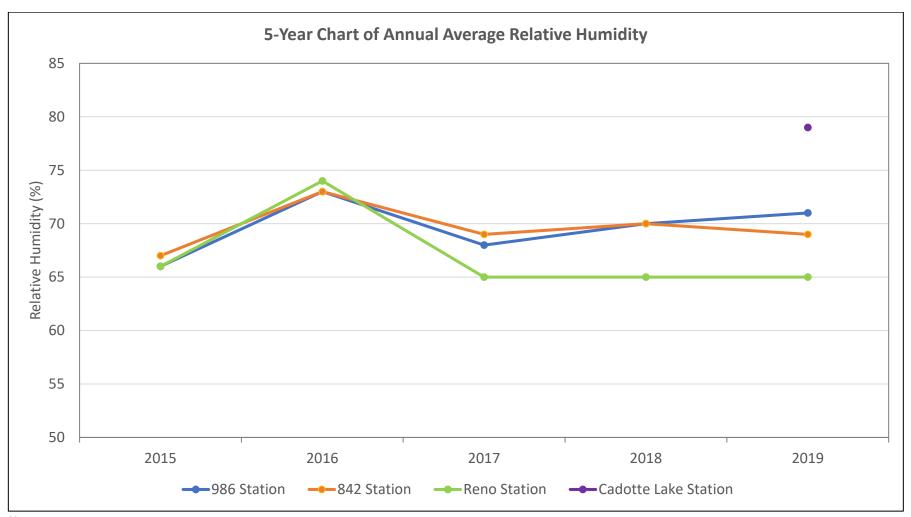
- 1. Cadotte Lake Station was installed in October 2019 no previous data available. Annual average CH4 concentrations for Cadotte Lake Station was calculated based on the monthly averages of October, November and December.
- 2. 2019 average for 986 Station was calculated using both 986b and 986c data.



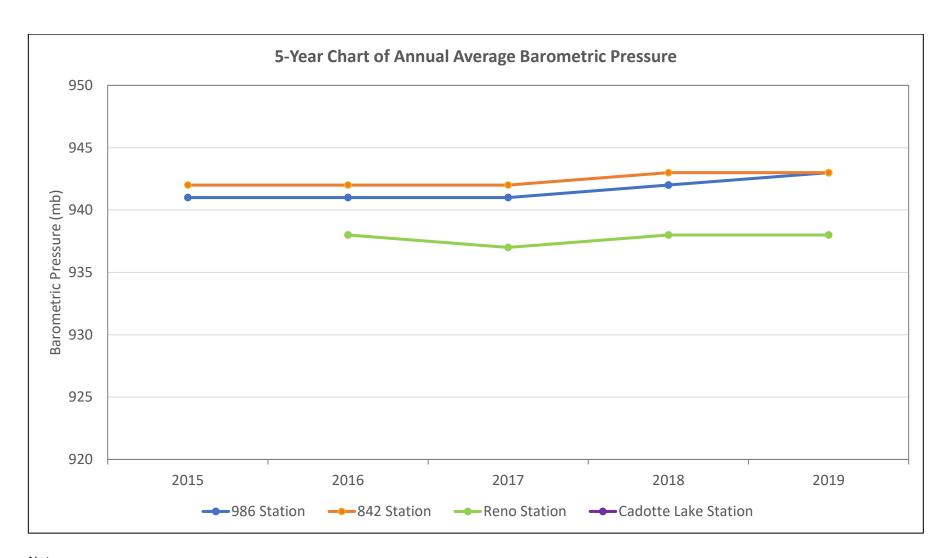
- 1. Cadotte Lake Station was installed in October 2019 no previous data available. Annual average NMHC concentrations for Cadotte Lake Station was calculated based on the monthly averages of October, November and December.
- 2. 2019 average for 986 Station was calculated using both 986b and 986c data.



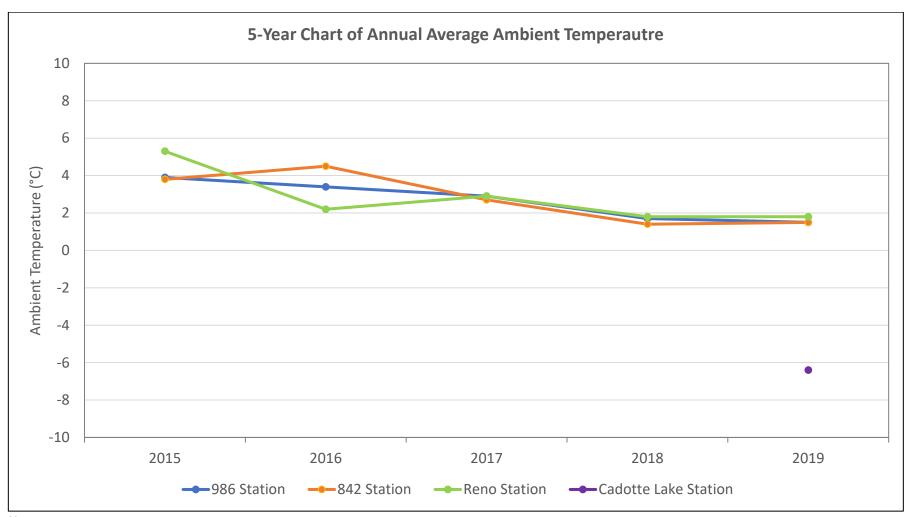
- 1. 1PM2.5 is only monitored at the Cadotte Station Lake Station.
- 2. Cadotte Lake Station was installed in October 2019 no previous data available. Annual average PM2.5 concentrations for Cadotte Lake Station was calculated based on the monthly averages of October, November and December.



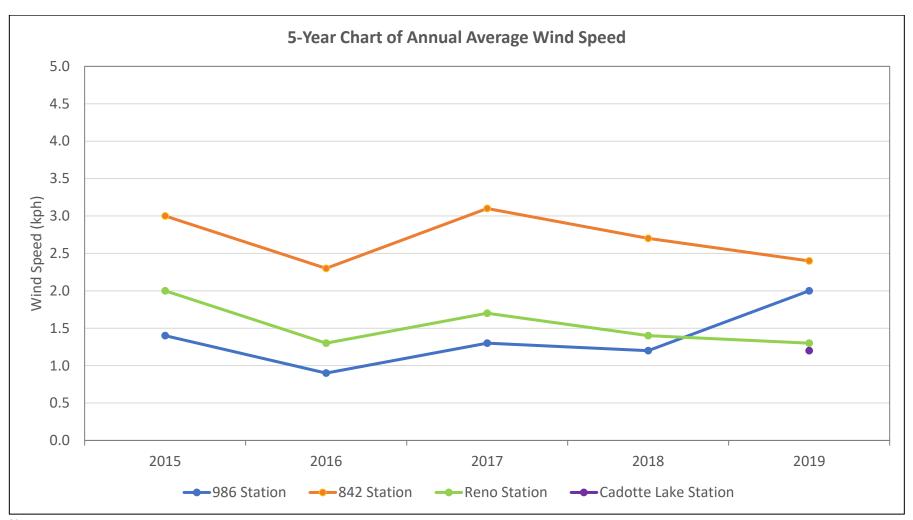
- 1. Cadotte Lake Station was installed in October 2019 no previous data available. Annual average relative humidity for Cadotte Lake Station was calculated based on the monthly averages of October, November and December.
- 2. 2019 average for 986 Station was calculated using both 986b and 986c data.



- 1. BP sensor was installed at Reno station in 2016 no previous data available.
- 2. BP was not monitored at the Cadotte Lake Station.
- 3. 2019 average for 986 Station was calculated using both 986b and 986c data.

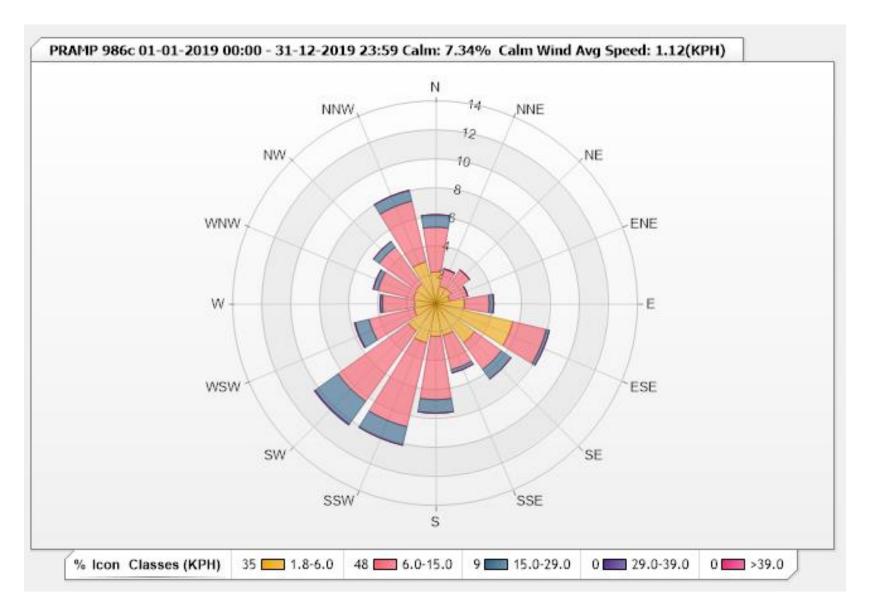


- 1. Cadotte Lake Station was installed in October 2019 no previous data available. Annual average ambient temperature concentrations for Cadotte Lake Station was calculated based on the monthly averages of October, November and December.
- 2. 2019 average for 986 Station was calculated using both 986b and 986c data.

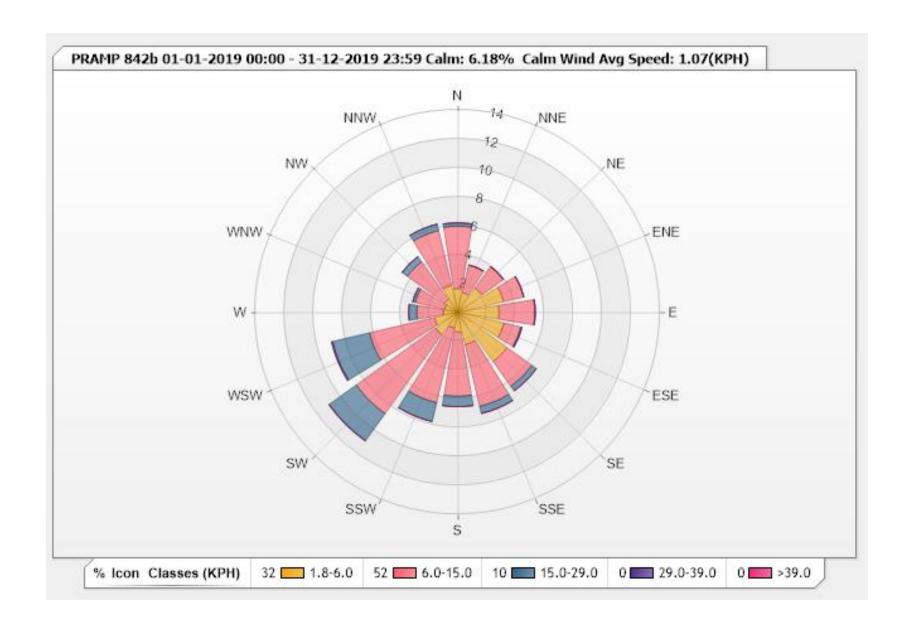


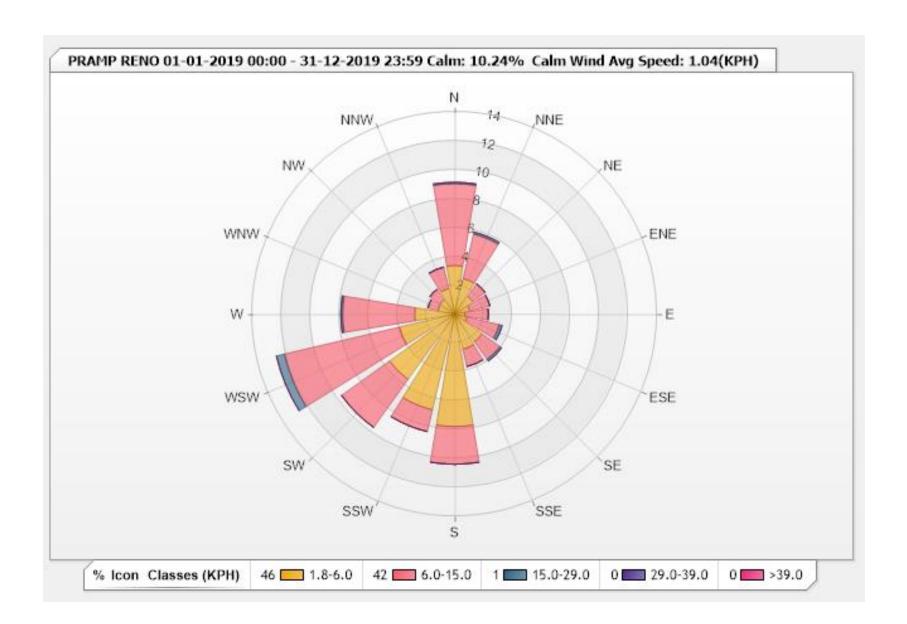
- 1. Cadotte Lake Station was installed in October 2019 no previous data available. Annual average wind speed for Cadotte Lake Station was calculated based on the monthly averages of October, November and December.
- 2. 2019 average for 986 Station was calculated using both 986b and 986c data.

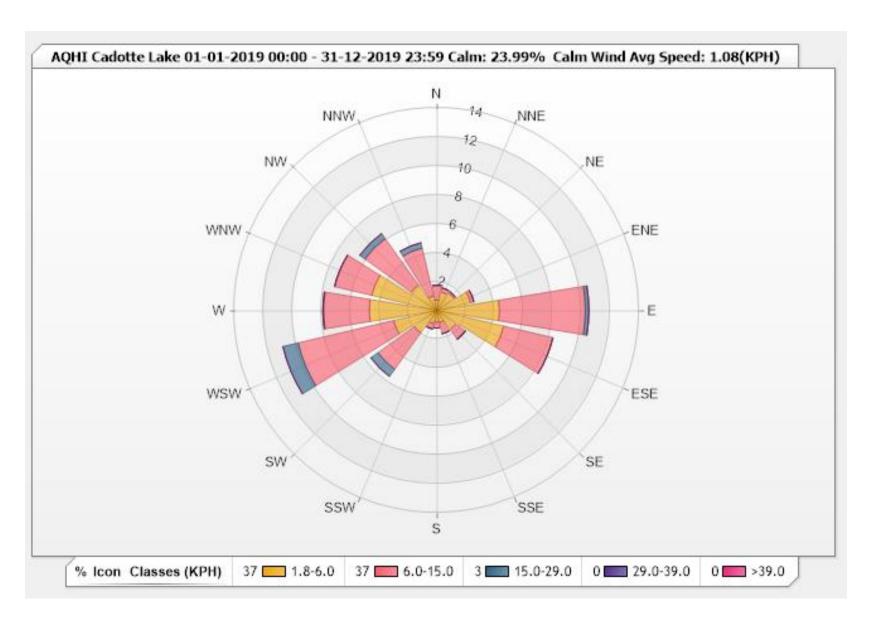
# 3 Annual Windrose Plots



Note: Annual wind rose Chart was generated using both 986b and 986c data.







Note: Annual wind rose chart was generated based on the data availability (October -December 2019).

# **End of Report**

This page, 93 of 93, ends the 2019 Annual Ambient Air Quality Monitoring Report.