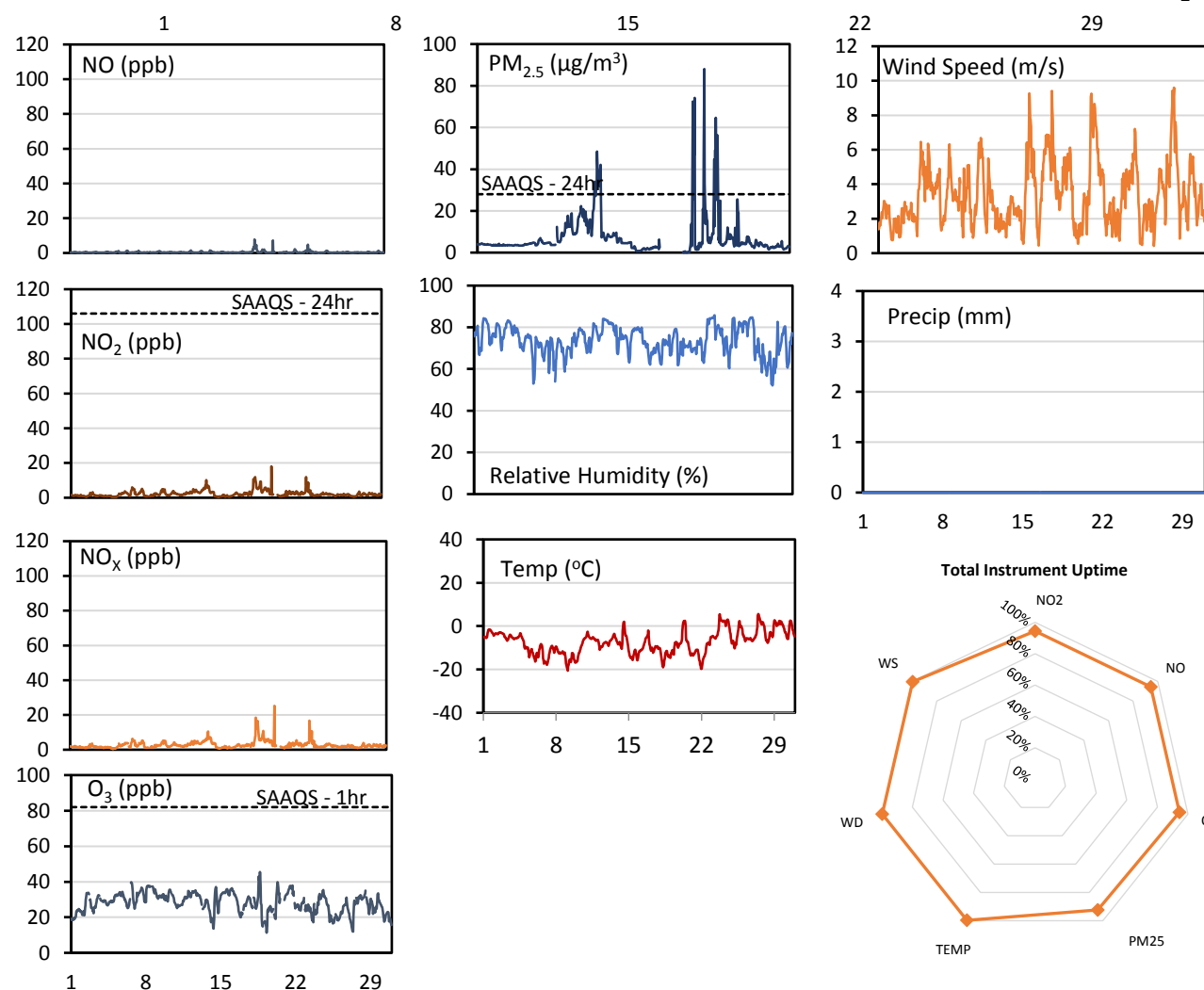
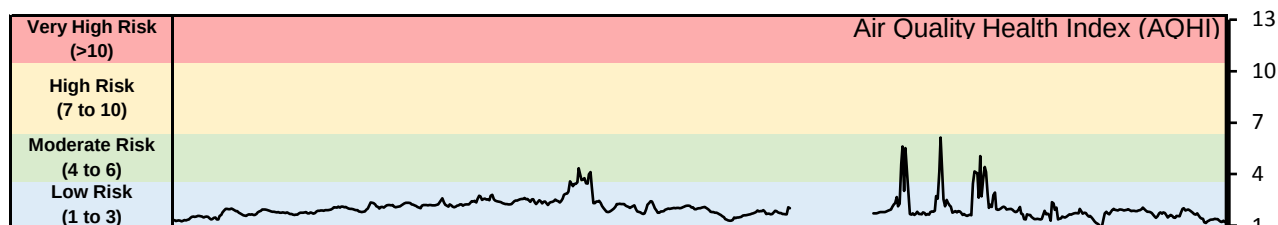


# SESAA Esterhazy Station - November 2017 Summary Report

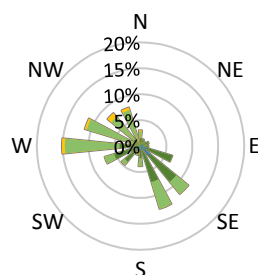
| Pollutants        |                   | Month Records |              | 24-Hour Records |        |                |             | 1-Hour Records |              |                |              |
|-------------------|-------------------|---------------|--------------|-----------------|--------|----------------|-------------|----------------|--------------|----------------|--------------|
| Name              | Conc. Unit        | Avg. Conc.    | Total Uptime | Maximum         |        | SAAQS Standard | Exceed Days | Maximum        |              | SAAQS Standard | Exceed Hours |
|                   |                   |               |              | Conc.           | Time   |                |             | Conc.          | Time         |                |              |
| NO                | ppb               | 0.5           | 94%          | 1.8             | Nov-18 | -              | -           | 7.8            | Nov-18 15:00 | -              | -            |
| NO <sub>2</sub>   | ppb               | 2.3           | 94%          | 5.3             | Nov-19 | 106            | 0           | 18.1           | Nov-20 09:00 | 159            | 0            |
| NO <sub>x</sub>   | ppb               | 2.8           | 94%          | 7.0             | Nov-18 | -              | -           | 25.3           | Nov-20 09:00 | -              | -            |
| O <sub>3</sub>    | ppb               | 28.1          | 94%          | 35.9            | Nov-08 | -              | -           | 45.5           | Nov-18 16:00 | 82             | 0            |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 7.6           | 92%          | 28.1            | Nov-12 | 28             | 1           | 88.0           | Nov-22 19:00 | -              | -            |

SAAQS: Saskatchewan Ambient Air Quality Standards

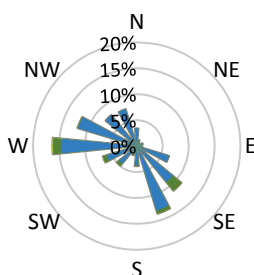


# SESAA Esterhazy Station - November 2017 Summary Report

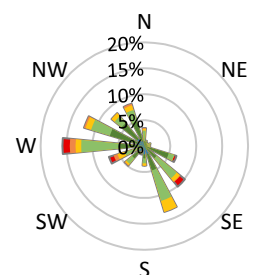
Wind Rose



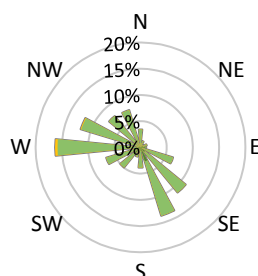
NO<sub>2</sub> Pollutant Rose



PM<sub>2.5</sub> Pollutant Rose



O<sub>3</sub> Pollutant Rose



| Parameters        | Unit              | Color Code for Wind Speed and Pollution Concentration Class |                |                |                 |                  |           |
|-------------------|-------------------|-------------------------------------------------------------|----------------|----------------|-----------------|------------------|-----------|
| Wind Speed        | m/s               | 0.3 ≤ WS < 1.4                                              | 1.4 ≤ WS < 3.1 | 3.1 ≤ WS < 7.8 | 7.8 ≤ WS < 10.8 | 10.8 ≤ WS < 13.6 | WS ≥ 13.6 |
| O <sub>3</sub>    | ppb               | 0 ≤ C < 10                                                  | 10 ≤ C < 20    | 20 ≤ C < 40    | 40 ≤ C < 60     | 60 ≤ C < 82      | C ≥ 82    |
| NO <sub>2</sub>   | ppb               | 0 ≤ C < 5                                                   | 5 ≤ C < 15     | 15 ≤ C < 30    | 30 ≤ C < 100    | 100 ≤ C < 212    | C ≥ 212   |
| PM <sub>2.5</sub> | ug/m <sup>3</sup> | 0 ≤ C < 2                                                   | 2 ≤ C < 4      | 4 ≤ C < 10     | 10 ≤ C < 20     | 20 ≤ C < 30      | C ≥ 30    |

## Monthly Update

- Achieved >90% of scheduled uptime for all parameters
- Downtime of 4% results from routine daily internal zeroes and spans
- Calibration performed November 20

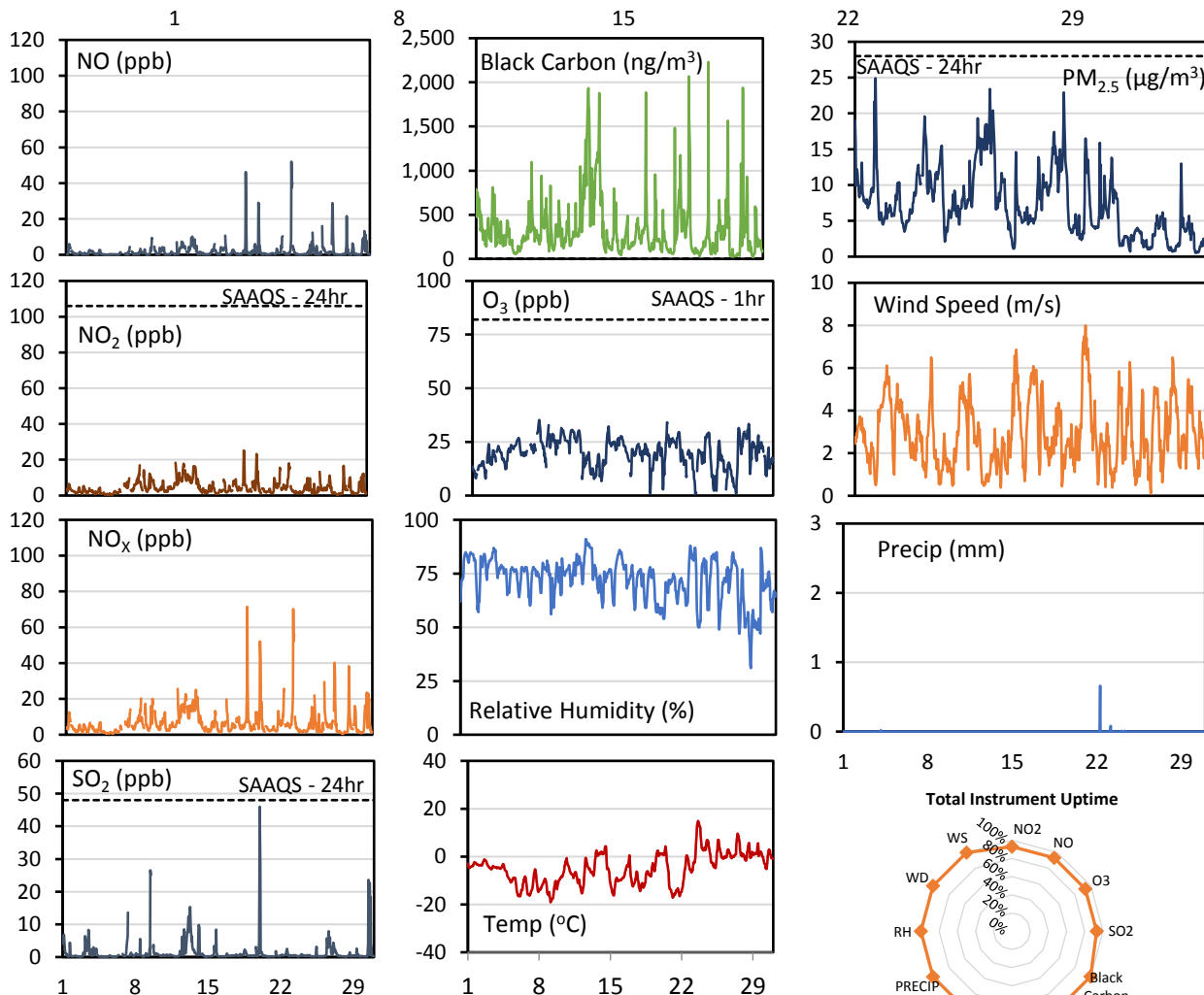
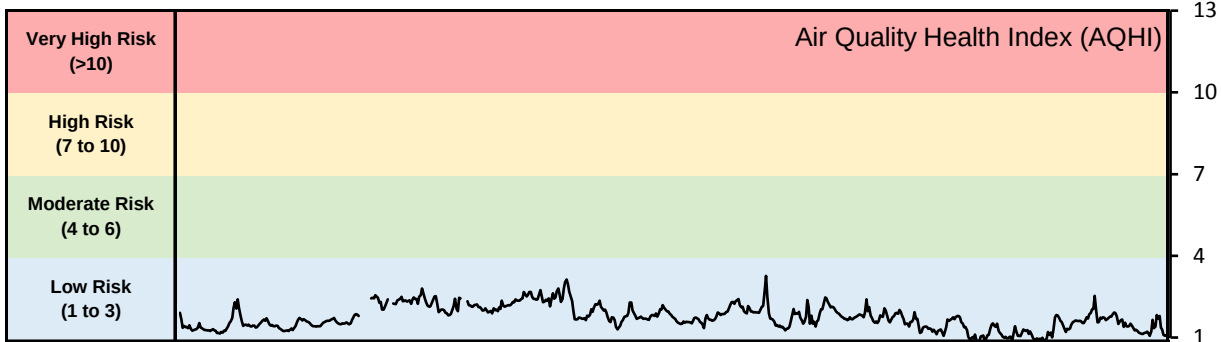
## Exceedance Summary (24- Hour Average - Exceedances Highlighted)

| Exceedance Time | AQI | NO <sub>2</sub> | NO  | O <sub>3</sub> | PM <sub>2.5</sub> | NO <sub>x</sub> | Temp | WD    | WS  |
|-----------------|-----|-----------------|-----|----------------|-------------------|-----------------|------|-------|-----|
|                 | -   | ppb             | ppb | ppb            | ug/m <sup>3</sup> | ppb             | C    | deg   | m/s |
| Nov-12          | 3.3 | 3.0             | 0.4 | 33.5           | <b>28.1</b>       | 3.4             | -8.3 | 177.6 | 1.7 |

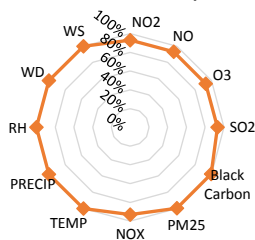
# SESAA Estevan Station - November 2017 Summary Report

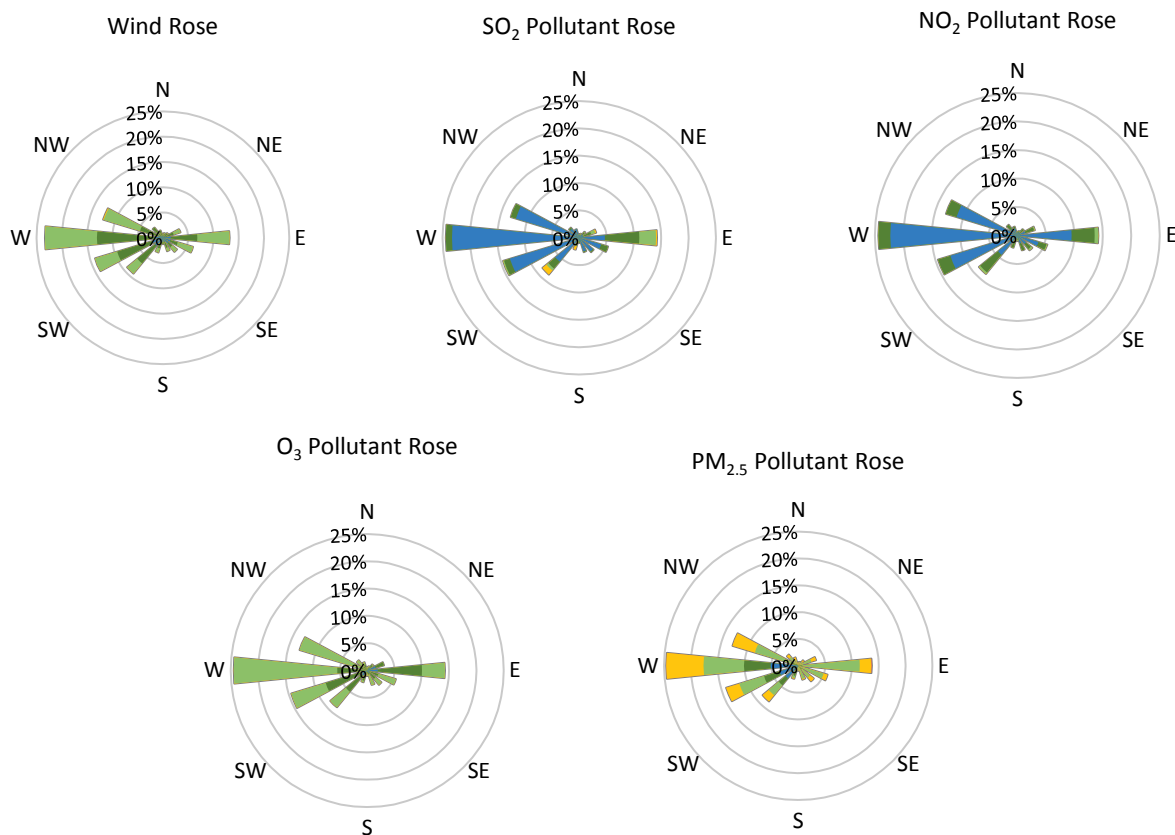
| Pollutants        |                   | Month Records |        | 24-Hour Records |        |                |             | 1-Hour Records |              |                |              |
|-------------------|-------------------|---------------|--------|-----------------|--------|----------------|-------------|----------------|--------------|----------------|--------------|
| Name              | Conc. Unit        | Avg. Conc.    | Uptime | Maximum         |        | SAAQS Standard | Exceed Days | Maximum        |              | SAAQS Standard | Exceed Hours |
|                   |                   |               |        | Conc.           | Time   |                |             | Conc.          | Time         |                |              |
| NO                | ppb               | 2.0           | 93%    | 7.0             | Nov-23 | -              | -           | 52.0           | Nov-23 06:00 | -              | -            |
| NO <sub>2</sub>   | ppb               | 4.4           | 93%    | 10.7            | Nov-12 | 106            | 0           | 25.2           | Nov-18 18:00 | 159            | 0            |
| NO <sub>x</sub>   | ppb               | 6.4           | 93%    | 15.0            | Nov-13 | -              | -           | 71.5           | Nov-18 18:00 | -              | -            |
| SO <sub>2</sub>   | ppb               | 1.4           | 93%    | 5.4             | Nov-13 | 48             | 0           | 46.0           | Nov-20 00:00 | 172            | 0            |
| Black Carbon      | ng/m <sup>3</sup> | 331.8         | 100%   | 1021.1          | Nov-12 | -              | -           | 2230.0         | Nov-25 07:00 | -              | -            |
| O <sub>3</sub>    | ppb               | 19.6          | 93%    | 26.9            | Nov-10 | -              | -           | 35.2           | Nov-07 16:00 | 82             | 0            |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 7.2           | 100%   | 16.6            | Nov-12 | 28             | 0           | 24.9           | Nov-02 18:00 | -              | -            |

SAAQS: Saskatchewan Ambient Air Quality Standards



Total Instrument Uptime





| Parameters        | Unit                     | Color Code for Wind Speed and Pollution Concentration Class |                     |                     |                      |                       |                |  |
|-------------------|--------------------------|-------------------------------------------------------------|---------------------|---------------------|----------------------|-----------------------|----------------|--|
| Wind Speed        | m/s                      | $0.3 \leq WS < 1.4$                                         | $1.4 \leq WS < 3.1$ | $3.1 \leq WS < 7.8$ | $7.8 \leq WS < 10.8$ | $10.8 \leq WS < 13.6$ | $WS \geq 13.6$ |  |
| SO <sub>2</sub>   | ppb                      | $0 \leq C < 1$                                              | $1 \leq C < 5$      | $5 \leq C < 10$     | $10 \leq C < 57$     | $57 \leq C < 172$     | $C \geq 172$   |  |
| NO <sub>2</sub>   | ppb                      | $0 \leq C < 5$                                              | $5 \leq C < 15$     | $15 \leq C < 30$    | $30 \leq C < 100$    | $100 \leq C < 212$    | $C \geq 212$   |  |
| O <sub>3</sub>    | ppb                      | $0 \leq C < 10$                                             | $10 \leq C < 20$    | $20 \leq C < 40$    | $40 \leq C < 60$     | $60 \leq C < 82$      | $C \geq 82$    |  |
| PM <sub>2.5</sub> | $\mu\text{g}/\text{m}^3$ | $0 \leq C < 2$                                              | $2 \leq C < 4$      | $4 \leq C < 10$     | $10 \leq C < 20$     | $20 \leq C < 30$      | $C \geq 30$    |  |

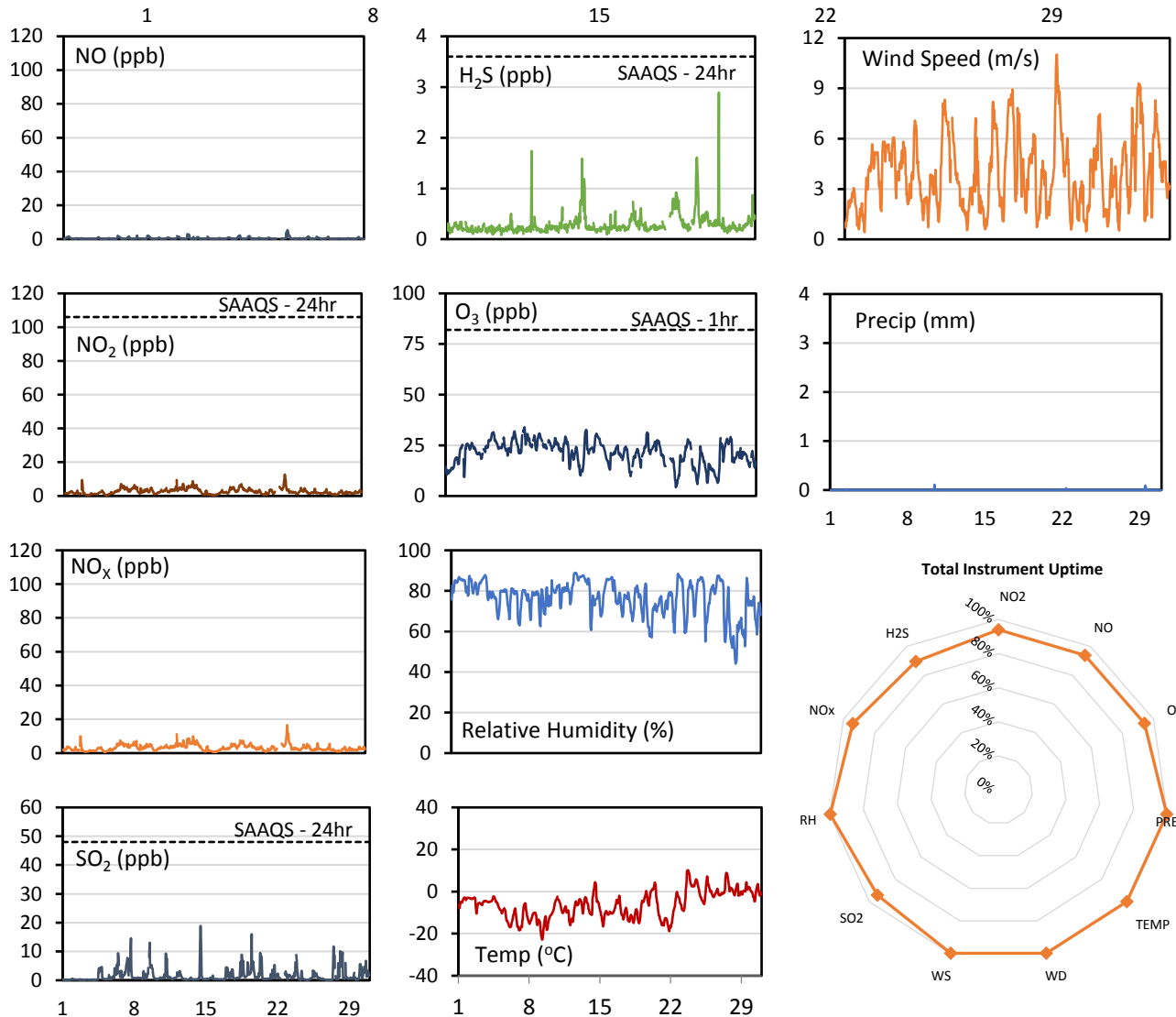
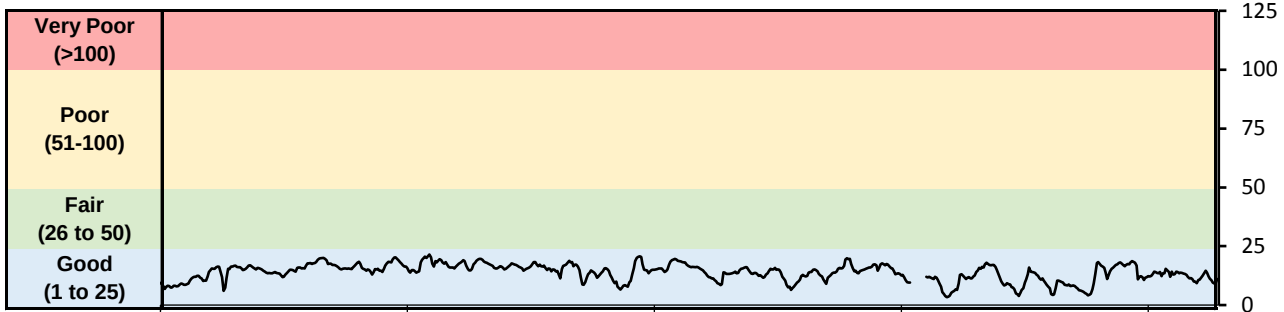
### Monthly Update

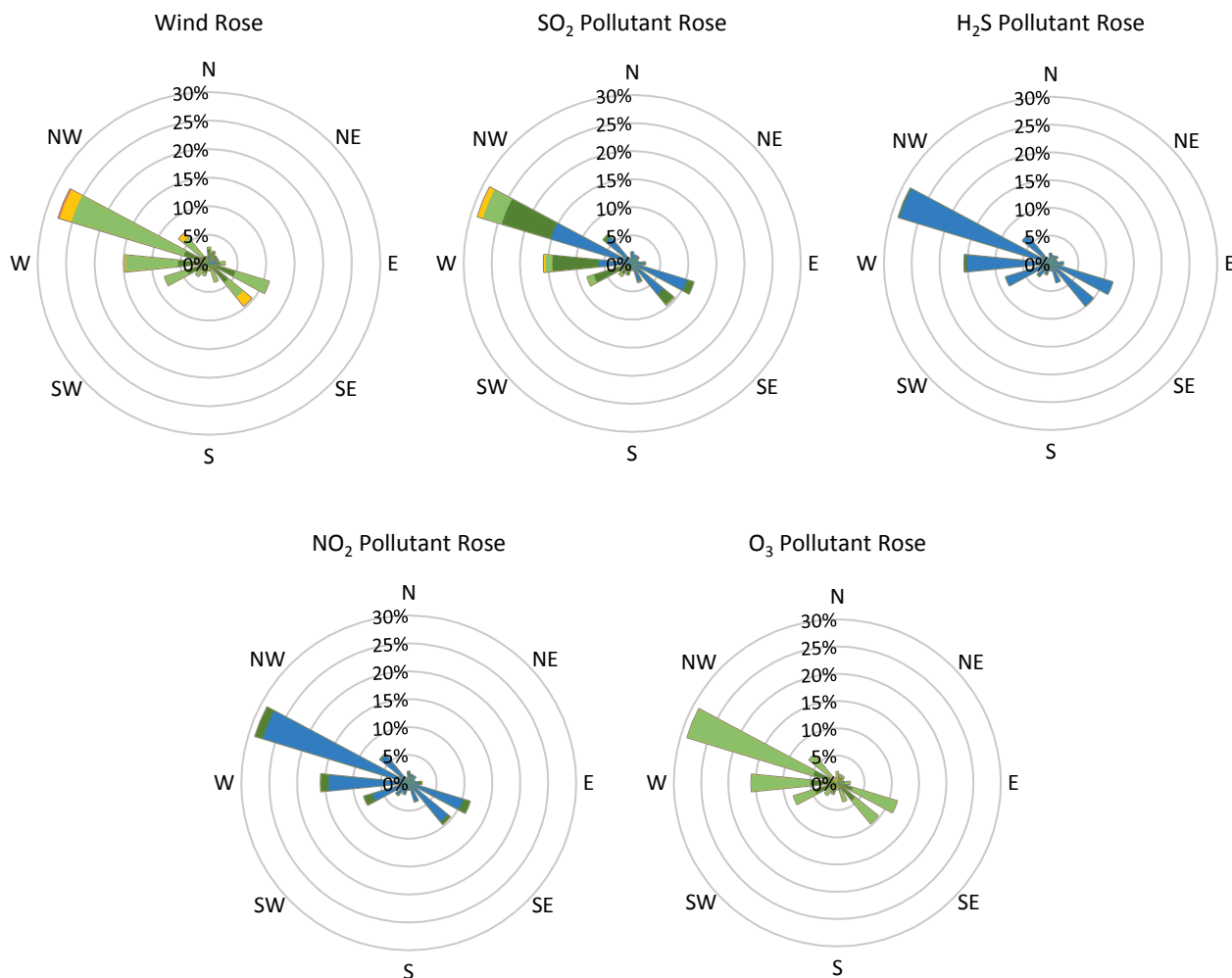
- Achieved >90% of scheduled uptime for all parameters
- Downtime of 4% results from daily internal zeroes and spans

# SESAA Glen Ewen Station - November 2017 Summary Report

| Pollutants       |            | Month Records |              | 24-Hour Records |        |                |             | 1-Hour Records |              |                |              |
|------------------|------------|---------------|--------------|-----------------|--------|----------------|-------------|----------------|--------------|----------------|--------------|
| Name             | Conc. Unit | Avg. Conc.    | Total Uptime | Maximum         |        | SAAQS Standard | Exceed Days | Maximum        |              | SAAQS Standard | Exceed Hours |
|                  |            |               |              | Conc.           | Time   |                |             | Conc.          | Time         |                |              |
| NO               | ppb        | 0.5           | 94%          | 1.4             | Nov-23 | -              | -           | 5.4            | Nov-23 09:00 | -              | -            |
| NO <sub>2</sub>  | ppb        | 2.7           | 94%          | 5.1             | Nov-13 | 106            | 0           | 12.7           | Nov-23 06:00 | 159            | 0            |
| NO <sub>x</sub>  | ppb        | 3.2           | 94%          | 6.3             | Nov-23 | -              | -           | 16.6           | Nov-23 06:00 | -              | -            |
| SO <sub>2</sub>  | ppb        | 1.6           | 94%          | 4.1             | Nov-07 | 48             | 0           | 18.9           | Nov-14 12:00 | 172            | 0            |
| H <sub>2</sub> S | ppb        | 0.3           | 90%          | 0.7             | Nov-25 | 3.6            | 0           | 2.9            | Nov-27 11:00 | 11             | 0            |
| O <sub>3</sub>   | ppb        | 21.3          | 94%          | 27.7            | Nov-05 | -              | -           | 33.9           | Nov-08 15:00 | 82             | 0            |

SAAQS: Saskatchewan Ambient Air Quality Standards





| Parameters       | Unit | Color Code for Wind Speed and Pollution Concentration Class |                     |                     |                      |                       |                |
|------------------|------|-------------------------------------------------------------|---------------------|---------------------|----------------------|-----------------------|----------------|
| Wind Speed       | m/s  | $0.3 \leq WS < 1.4$                                         | $1.4 \leq WS < 3.1$ | $3.1 \leq WS < 7.8$ | $7.8 \leq WS < 10.8$ | $10.8 \leq WS < 13.6$ | $WS \geq 13.6$ |
| SO <sub>2</sub>  | ppb  | $0 \leq C < 1$                                              | $1 \leq C < 5$      | $5 \leq C < 10$     | $10 \leq C < 57$     | $57 \leq C < 172$     | $C \geq 172$   |
| NO <sub>2</sub>  | ppb  | $0 \leq C < 5$                                              | $5 \leq C < 15$     | $15 \leq C < 30$    | $30 \leq C < 100$    | $100 \leq C < 212$    | $C \geq 212$   |
| H <sub>2</sub> S | ppb  | $0 \leq C < 1$                                              | $1 \leq C < 3.6$    | $3.6 \leq C < 5$    | $5 \leq C < 8$       | $8 \leq C < 10.8$     | $C \geq 10.8$  |
| O <sub>3</sub>   | ppb  | $0 \leq C < 10$                                             | $10 \leq C < 20$    | $20 \leq C < 40$    | $40 \leq C < 60$     | $60 \leq C < 82$      | $C \geq 82$    |

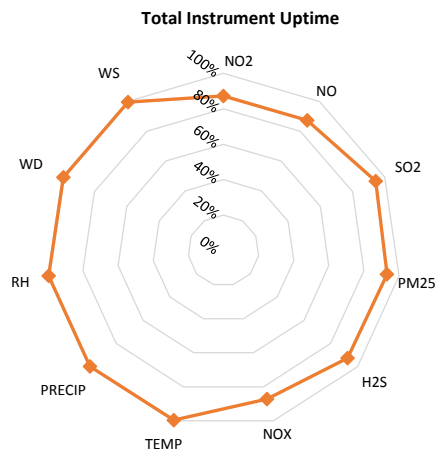
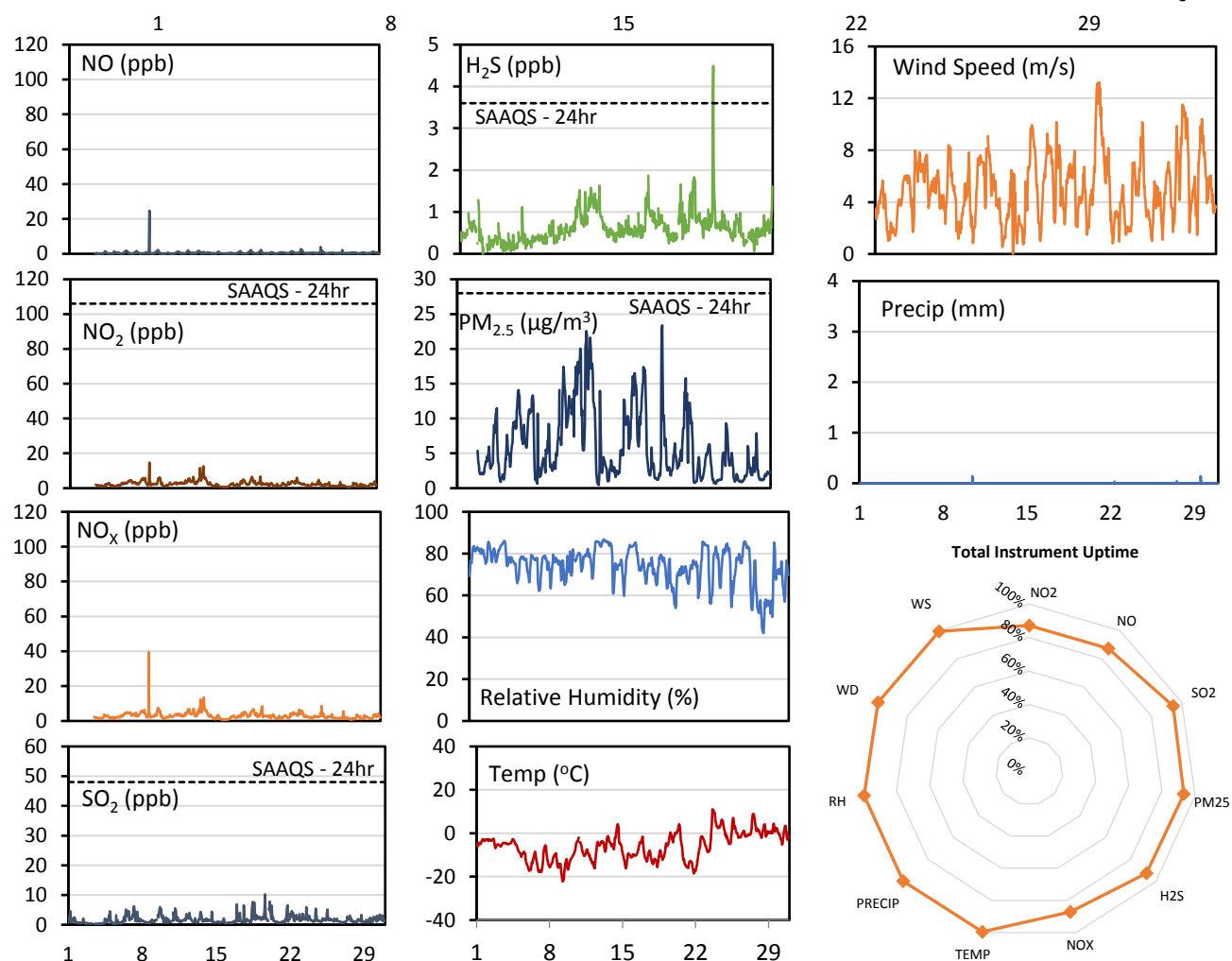
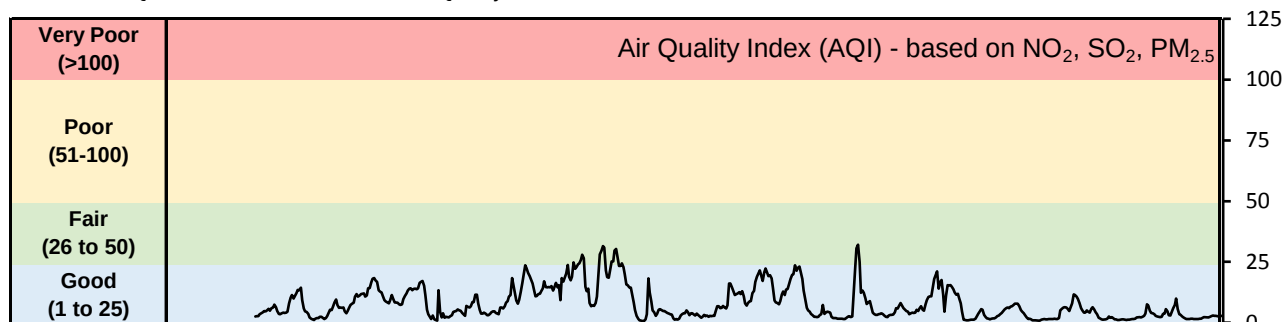
### Monthly Update

- Achieved >90% of scheduled uptime for all parameters
- Downtime of 4% results from routine daily internal zeroes and spans (8% for H<sub>2</sub>S)
- Calibration performed November 22

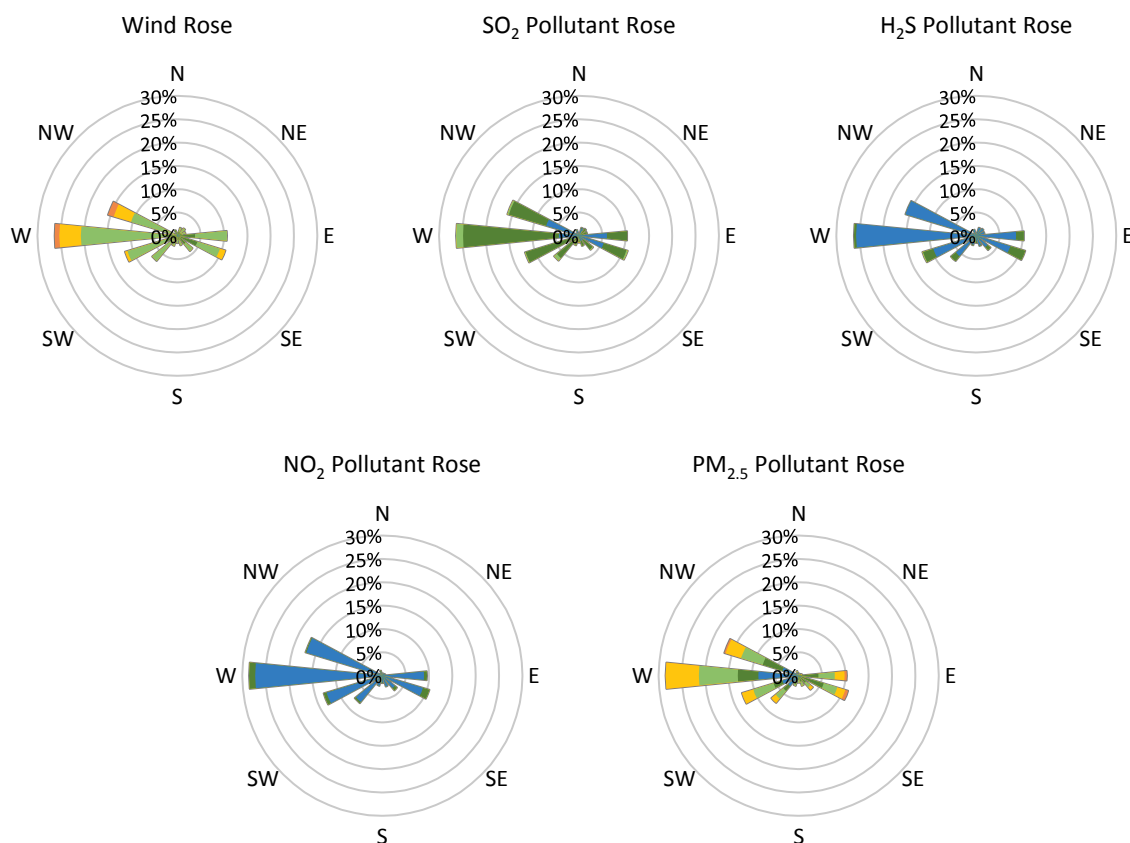
# SESAA Oxbow Station - November 2017 Summary Report

| Pollutants        |                   | Month Records |              | 24-Hour Records |        |                |             | 1-Hour Records |              |                |              |
|-------------------|-------------------|---------------|--------------|-----------------|--------|----------------|-------------|----------------|--------------|----------------|--------------|
| Name              | Conc. Unit        | Avg. Conc.    | Total Uptime | Maximum         |        | SAAQS Standard | Exceed Days | Maximum        |              | SAAQS Standard | Exceed Hours |
|                   |                   |               |              | Conc.           | Time   |                |             | Conc.          | Time         |                |              |
| NO                | ppb               | 0.5           | 87%          | 1.4             | Nov-08 | -              | -           | 24.7           | Nov-08 18:00 | -              | -            |
| NO <sub>2</sub>   | ppb               | 2.5           | 87%          | 4.8             | Nov-13 | 106            | 0           | 14.7           | Nov-08 18:00 | 159            | 0            |
| NO <sub>x</sub>   | ppb               | 3.0           | 87%          | 5.6             | Nov-08 | -              | -           | 39.5           | Nov-08 18:00 | -              | -            |
| SO <sub>2</sub>   | ppb               | 1.7           | 94%          | 2.9             | Nov-18 | 48             | 0           | 10.2           | Nov-19 15:00 | 172            | 0            |
| H <sub>2</sub> S  | ppb               | 0.6           | 93%          | 1.2             | Nov-13 | 3.6            | 0           | 4.5            | Nov-25 07:00 | 11             | 0            |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 6.0           | 93%          | 15.3            | Nov-13 | 28             | 0           | 23.4           | Nov-20 15:00 | -              | -            |

SAAQS: Saskatchewan Ambient Air Quality Standards



# **SESAA Oxbow Station - November 2017 Summary Report**



| Parameters        | Unit              | Color Code for Wind Speed and Pollution Concentration Class |                     |                     |                      |                       |                |  |
|-------------------|-------------------|-------------------------------------------------------------|---------------------|---------------------|----------------------|-----------------------|----------------|--|
| Wind Speed        | m/s               | $0.3 \leq WS < 1.4$                                         | $1.4 \leq WS < 3.1$ | $3.1 \leq WS < 7.8$ | $7.8 \leq WS < 10.8$ | $10.8 \leq WS < 13.6$ | $WS \geq 13.6$ |  |
| SO <sub>2</sub>   | ppb               | $0 \leq C < 1$                                              | $1 \leq C < 5$      | $5 \leq C < 10$     | $10 \leq C < 57$     | $57 \leq C < 172$     | $C \geq 172$   |  |
| NO <sub>2</sub>   | ppb               | $0 \leq C < 5$                                              | $5 \leq C < 15$     | $15 \leq C < 30$    | $30 \leq C < 100$    | $100 \leq C < 212$    | $C \geq 212$   |  |
| H <sub>2</sub> S  | ppb               | $0 \leq C < 1$                                              | $1 \leq C < 3.6$    | $3.6 \leq C < 5$    | $5 \leq C < 8$       | $8 \leq C < 10.8$     | $C \geq 10.8$  |  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | $0 \leq C < 2$                                              | $2 \leq C < 4$      | $4 \leq C < 10$     | $10 \leq C < 20$     | $20 \leq C < 30$      | $C \geq 30$    |  |

## **Monthly Update**

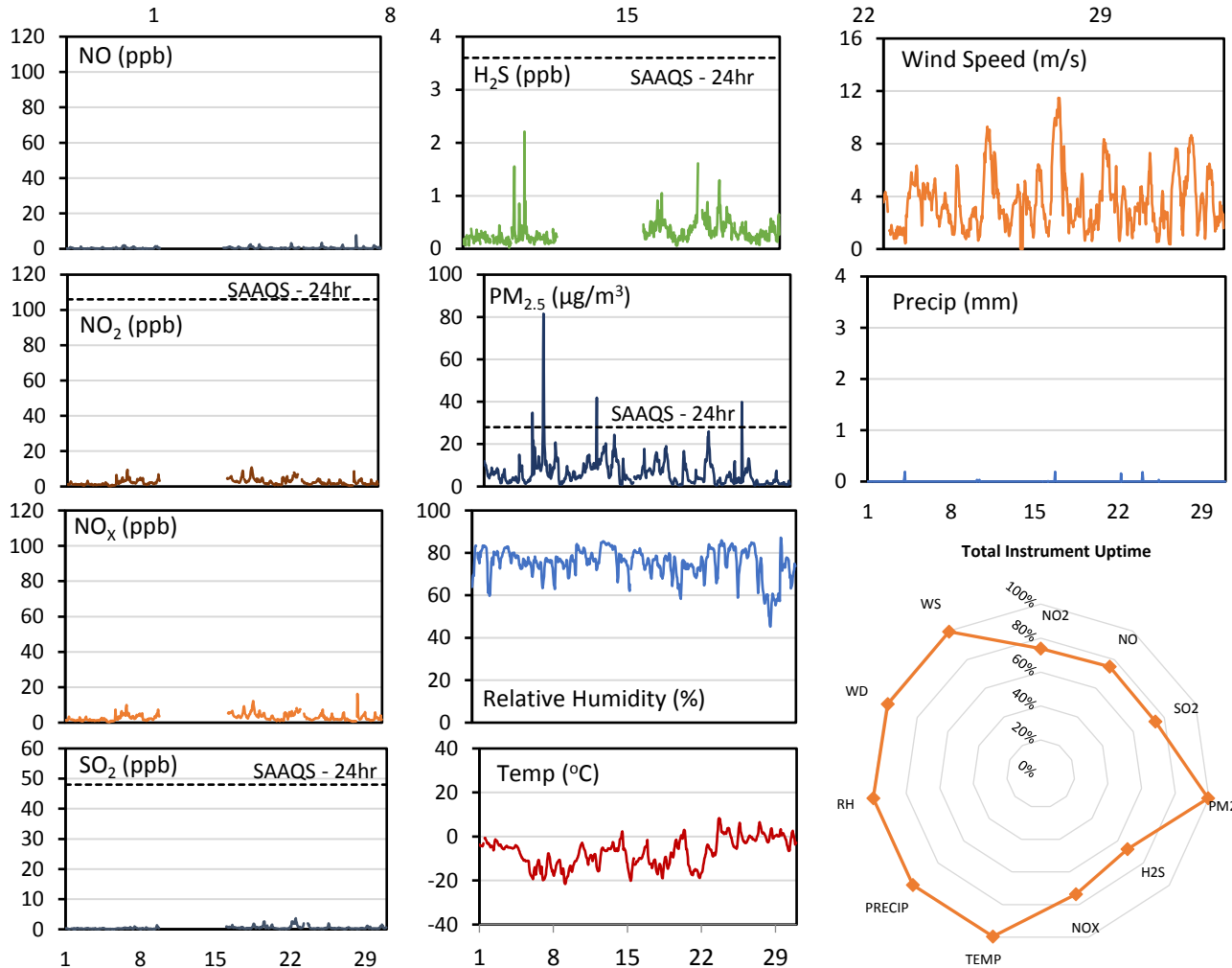
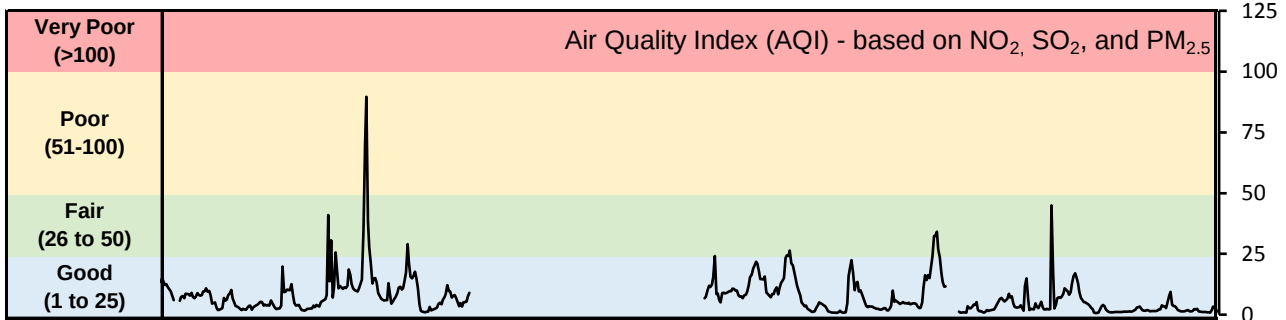
- Achieved >90% of scheduled uptime for all parameters except NO/NO<sub>2</sub>/NO<sub>x</sub> (87%)
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- Repaired NO<sub>x</sub> analyzer installed November 2 and calibrated November 3

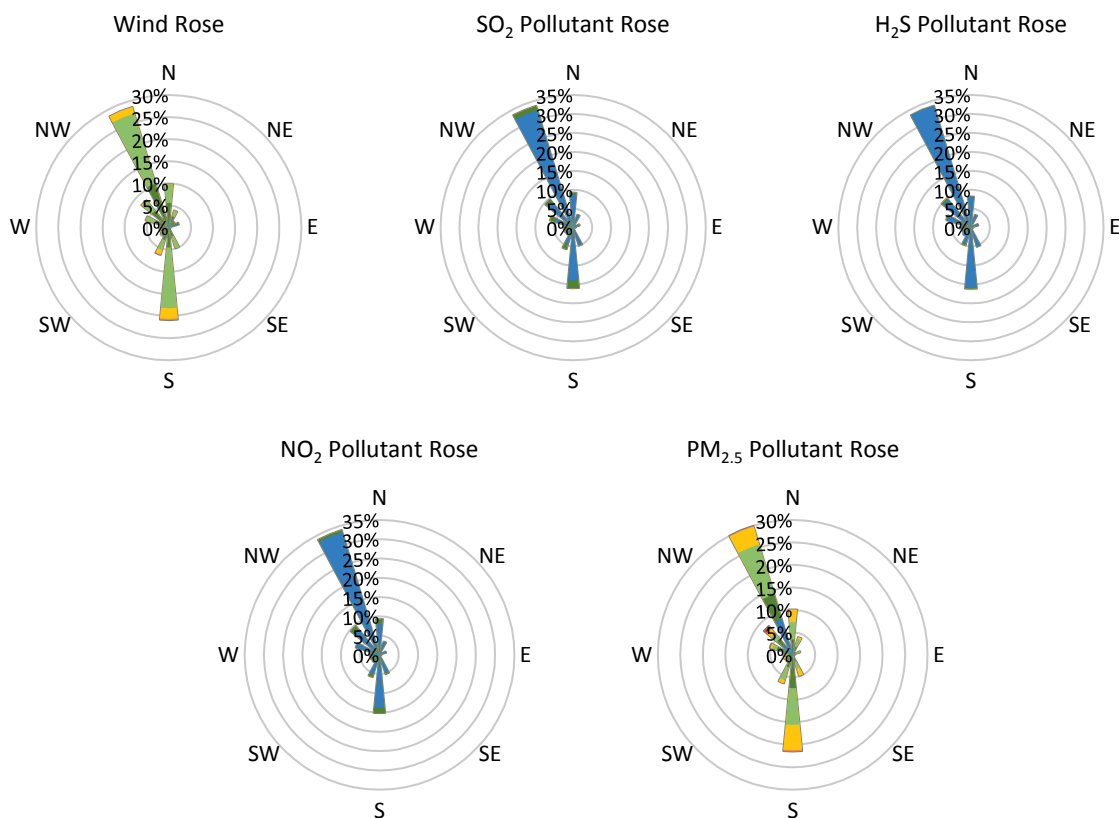


# SESAA Stoughton Station - November 2017 Summary Report

| Pollutants        |                   | Month Records |              | 24-Hour Records |        |                |             | 1-Hour Records |              |                |              |
|-------------------|-------------------|---------------|--------------|-----------------|--------|----------------|-------------|----------------|--------------|----------------|--------------|
| Name              | Conc. Unit        | Avg. Conc.    | Total Uptime | Maximum         |        | SAAQS Standard | Exceed Days | Maximum        |              | SAAQS Standard | Exceed Hours |
|                   |                   |               |              | Conc.           | Time   |                |             | Conc.          | Time         |                |              |
| NO                | ppb               | 0.5           | 75%          | 0.9             | Nov-18 | -              | -           | 7.7            | Nov-28 16:00 | -              | -            |
| NO <sub>2</sub>   | ppb               | 2.5           | 74%          | 5.0             | Nov-18 | 106            | 0           | 10.8           | Nov-18 19:00 | 159            | 0            |
| NO <sub>x</sub>   | ppb               | 2.9           | 74%          | 5.9             | Nov-18 | -              | -           | 16.2           | Nov-28 16:00 | -              | -            |
| SO <sub>2</sub>   | ppb               | 0.5           | 74%          | 1.7             | Nov-22 | 48             | 0           | 3.7            | Nov-22 12:00 | 172            | 0            |
| H <sub>2</sub> S  | ppb               | 0.3           | 68%          | 0.7             | Nov-23 | 3.6            | 0           | 2.2            | Nov-06 20:00 | 11             | 0            |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 6.4           | 100%         | 17.3            | Nov-06 | 28             | 0           | 81.6           | Nov-06 20:00 | -              | -            |

SAAQS: Saskatchewan Ambient Air Quality Standards





| Parameters        | Unit                     | Color Code for Wind Speed and Pollution Concentration Class |                     |                     |                      |                       |                |  |
|-------------------|--------------------------|-------------------------------------------------------------|---------------------|---------------------|----------------------|-----------------------|----------------|--|
| Wind Speed        | m/s                      | $0.3 \leq WS < 1.4$                                         | $1.4 \leq WS < 3.1$ | $3.1 \leq WS < 7.8$ | $7.8 \leq WS < 10.8$ | $10.8 \leq WS < 13.6$ | $WS \geq 13.6$ |  |
| SO <sub>2</sub>   | ppb                      | $0 \leq C < 1$                                              | $1 \leq C < 5$      | $5 \leq C < 10$     | $10 \leq C < 57$     | $57 \leq C < 172$     | $C \geq 172$   |  |
| NO <sub>2</sub>   | ppb                      | $0 \leq C < 5$                                              | $5 \leq C < 15$     | $15 \leq C < 30$    | $30 \leq C < 100$    | $100 \leq C < 212$    | $C \geq 212$   |  |
| H <sub>2</sub> S  | ppb                      | $0 \leq C < 1$                                              | $1 \leq C < 3.6$    | $3.6 \leq C < 5$    | $5 \leq C < 8$       | $8 \leq C < 10.8$     | $C \geq 10.8$  |  |
| PM <sub>2.5</sub> | $\mu\text{g}/\text{m}^3$ | $0 \leq C < 2$                                              | $2 \leq C < 4$      | $4 \leq C < 10$     | $10 \leq C < 20$     | $20 \leq C < 30$      | $C \geq 30$    |  |

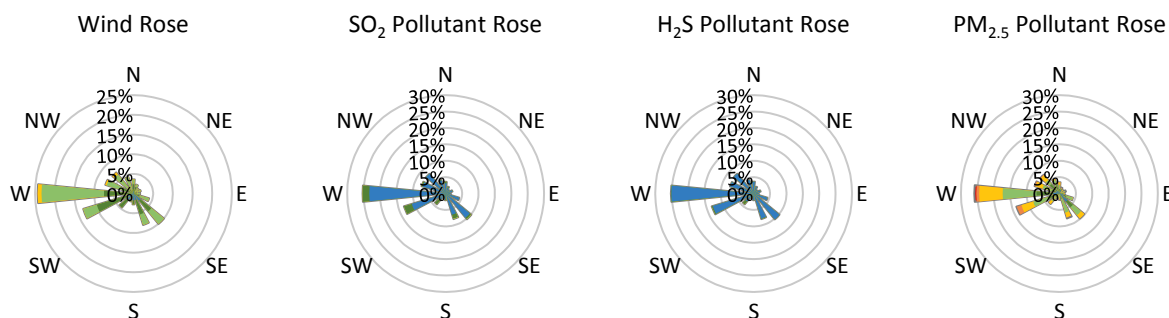
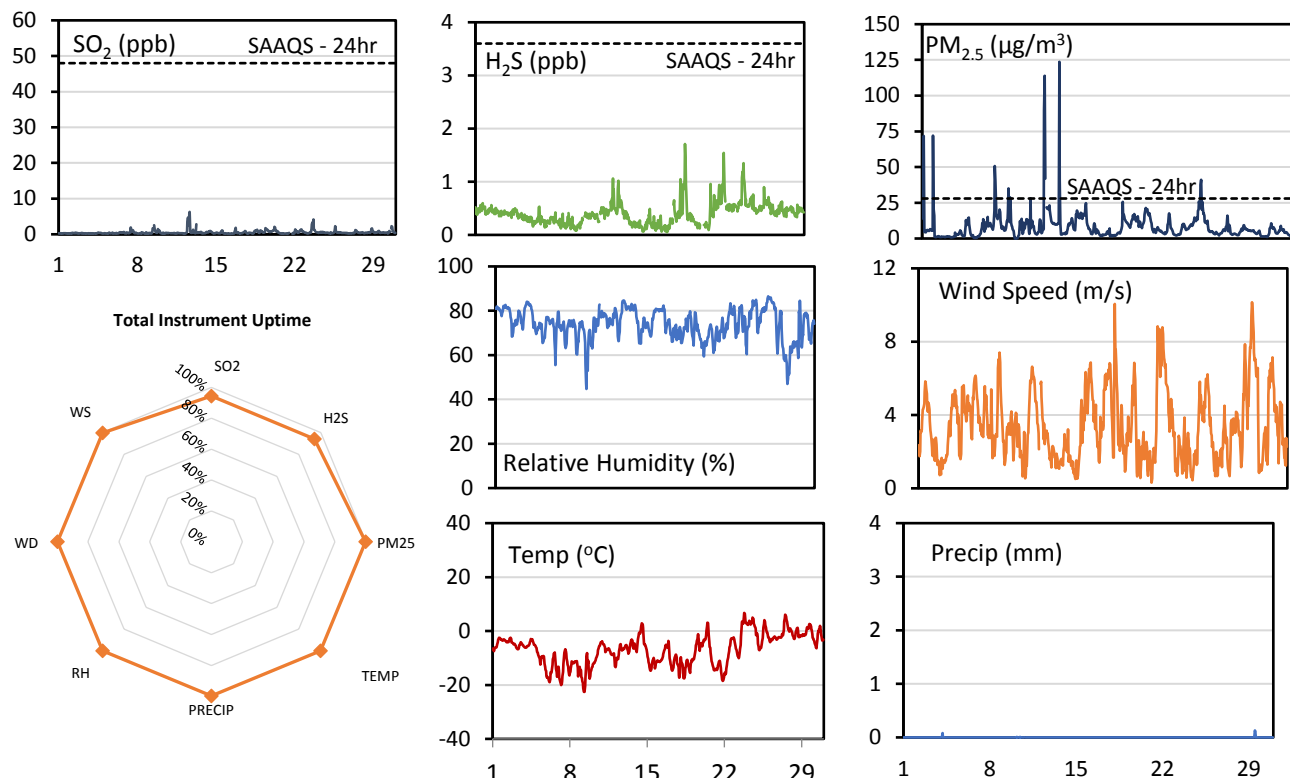
### Monthly Update

- Achieved >70% of scheduled uptime for all parameters except H<sub>2</sub>S (68%)
- Downtime of 4% results from routine daily internal zeroes and spans
- Downtime due to instrument issues
- Calibration performed November 23

# SESAA Wauchope Station - November 2017 Summary Report

| Pollutants        |                   | Month Records |              | 24-Hour Records |        |                |             | 1-Hour Records |              |                |              |
|-------------------|-------------------|---------------|--------------|-----------------|--------|----------------|-------------|----------------|--------------|----------------|--------------|
| Name              | Conc. Unit        | Avg. Conc.    | Total Uptime | Maximum         |        | SAAQS Standard | Exceed Days | Maximum        |              | SAAQS Standard | Exceed Hours |
|                   |                   |               |              | Conc.           | Time   |                |             | Conc.          | Time         |                |              |
| SO <sub>2</sub>   | ppb               | 0.5           | 94%          | 1.5             | Nov-12 | 48             | 0           | 6.3            | Nov-12 16:00 | 172            | 0            |
| H <sub>2</sub> S  | ppb               | 0.4           | 94%          | 0.8             | Nov-23 | 3.6            | 0           | 1.7            | Nov-20 03:00 | 11             | 0            |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 8.2           | 100%         | 19.0            | Nov-11 | 28             | 0           | 123.7          | Nov-11 22:00 | -              | -            |

SAAQS: Saskatchewan Ambient Air Quality Standards



| Parameters        | Unit              | Color Code for Wind Speed and Pollution Concentration Class |                |                |                 |                  |           |
|-------------------|-------------------|-------------------------------------------------------------|----------------|----------------|-----------------|------------------|-----------|
| Wind Speed        | m/s               | 0.3 ≤ WS < 1.4                                              | 1.4 ≤ WS < 3.1 | 3.1 ≤ WS < 7.8 | 7.8 ≤ WS < 10.8 | 10.8 ≤ WS < 13.6 | WS ≥ 13.6 |
| SO <sub>2</sub>   | ppb               | 0 ≤ C < 1                                                   | 1 ≤ C < 5      | 5 ≤ C < 10     | 10 ≤ C < 57     | 57 ≤ C < 172     | C ≥ 172   |
| H <sub>2</sub> S  | ppb               | 0 ≤ C < 1                                                   | 1 ≤ C < 3.6    | 3.6 ≤ C < 5    | 5 ≤ C < 8       | 8 ≤ C < 10.8     | C ≥ 10.8  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 0 ≤ C < 2                                                   | 2 ≤ C < 4      | 4 ≤ C < 10     | 10 ≤ C < 20     | 20 ≤ C < 30      | C ≥ 30    |

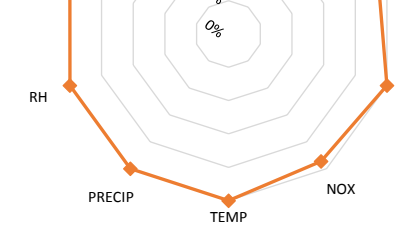
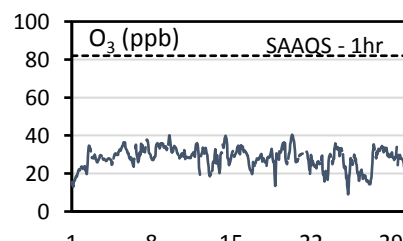
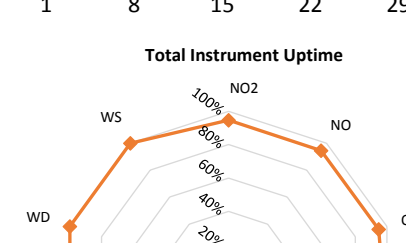
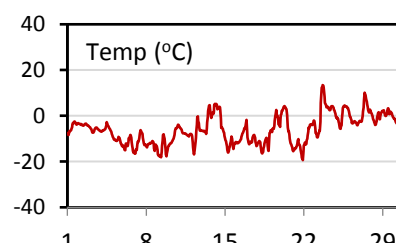
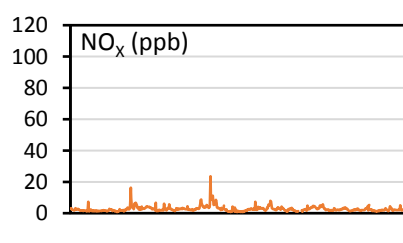
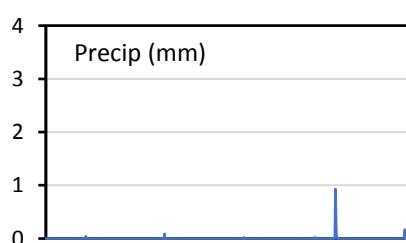
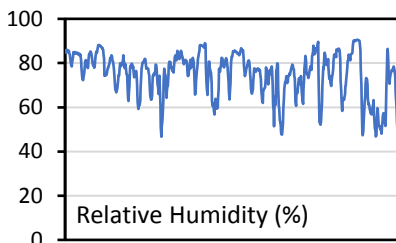
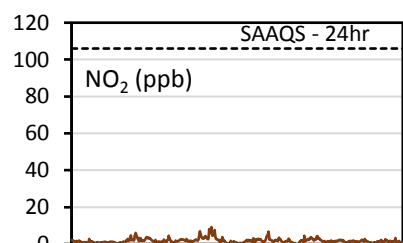
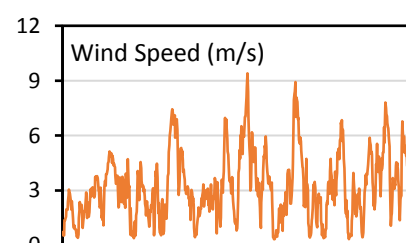
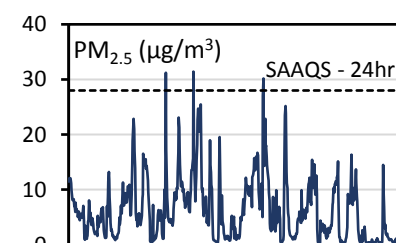
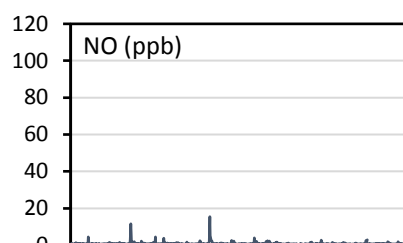
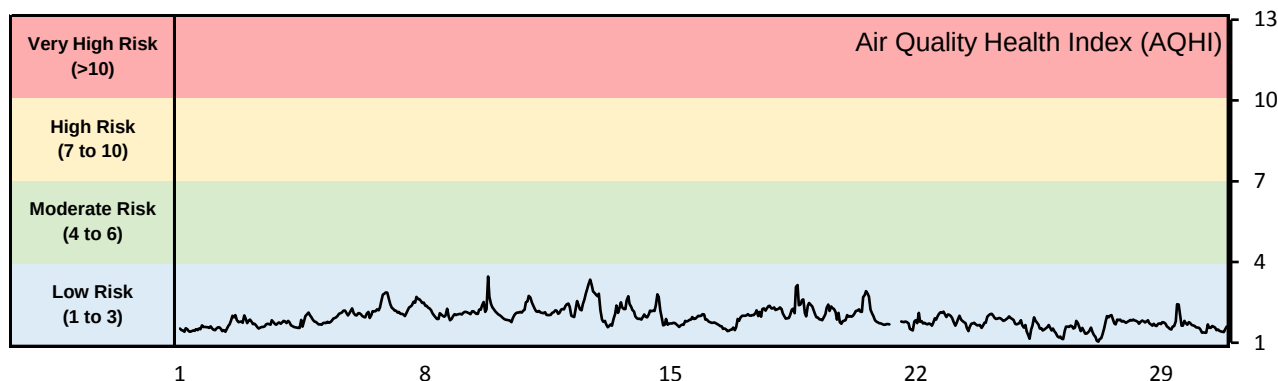
## Monthly Update

- Achieved >90% of scheduled uptime for all parameters
- Downtime of 4% results from routine daily internal zeroes and spans
- Calibration performed November 21

# SESAA Wawota Station - November 2017 Summary Report

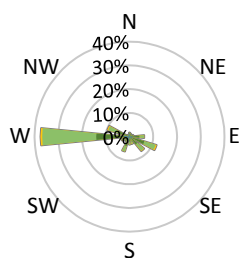
| Pollutants        |                   | Month Records |              | 24-Hour Records |        |                |             | 1-Hour Records |              |                |              |
|-------------------|-------------------|---------------|--------------|-----------------|--------|----------------|-------------|----------------|--------------|----------------|--------------|
| Name              | Conc. Unit        | Avg. Conc.    | Total Uptime | Maximum         |        | SAAQS Standard | Exceed Days | Maximum        |              | SAAQS Standard | Exceed Hours |
|                   |                   |               |              | Conc.           | Time   |                |             | Conc.          | Time         |                |              |
| NO                | ppb               | 0.9           | 94%          | 2.0             | Nov-13 | -              | -           | 15.5           | Nov-13 11:00 | -              | -            |
| NO <sub>2</sub>   | ppb               | 1.8           | 95%          | 5.1             | Nov-13 | 106            | 0           | 9.2            | Nov-13 16:00 | 159            | 0            |
| NO <sub>x</sub>   | ppb               | 2.7           | 94%          | 7.1             | Nov-13 | -              | -           | 23.6           | Nov-13 11:00 | -              | -            |
| O <sub>3</sub>    | ppb               | 28.2          | 95%          | 34.3            | Nov-09 | -              | -           | 40.5           | Nov-20 08:00 | 82             | 0            |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 6.3           | 100%         | 16.8            | Nov-12 | 28             | 0           | 31.4           | Nov-12 07:00 | -              | -            |

SAAQS: Saskatchewan Ambient Air Quality Standards

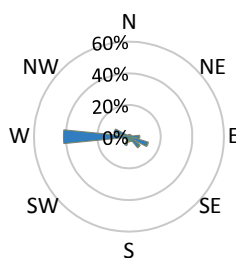


## SESAA Wawota Station - November 2017 Summary Report

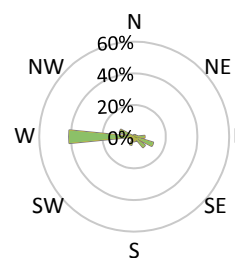
Wind Rose



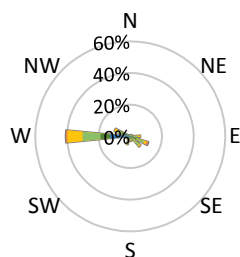
NO<sub>2</sub> Pollutant Rose



O<sub>3</sub> Pollutant Rose



PM<sub>2.5</sub> Pollutant Rose



| Parameters        | Unit              | Color Code for Wind Speed and Pollution Concentration Class |                |                |                 |                  |           |  |
|-------------------|-------------------|-------------------------------------------------------------|----------------|----------------|-----------------|------------------|-----------|--|
| Wind Speed        | m/s               | 0.3 ≤ WS < 1.4                                              | 1.4 ≤ WS < 3.1 | 3.1 ≤ WS < 7.8 | 7.8 ≤ WS < 10.8 | 10.8 ≤ WS < 13.6 | WS ≥ 13.6 |  |
| O <sub>3</sub>    | ppb               | 0 ≤ C < 10                                                  | 10 ≤ C < 20    | 20 ≤ C < 40    | 40 ≤ C < 60     | 60 ≤ C < 82      | C ≥ 82    |  |
| NO <sub>2</sub>   | ppb               | 0 ≤ C < 5                                                   | 5 ≤ C < 15     | 15 ≤ C < 30    | 30 ≤ C < 100    | 100 ≤ C < 212    | C ≥ 212   |  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 0 ≤ C < 2                                                   | 2 ≤ C < 4      | 4 ≤ C < 10     | 10 ≤ C < 20     | 20 ≤ C < 30      | C ≥ 30    |  |

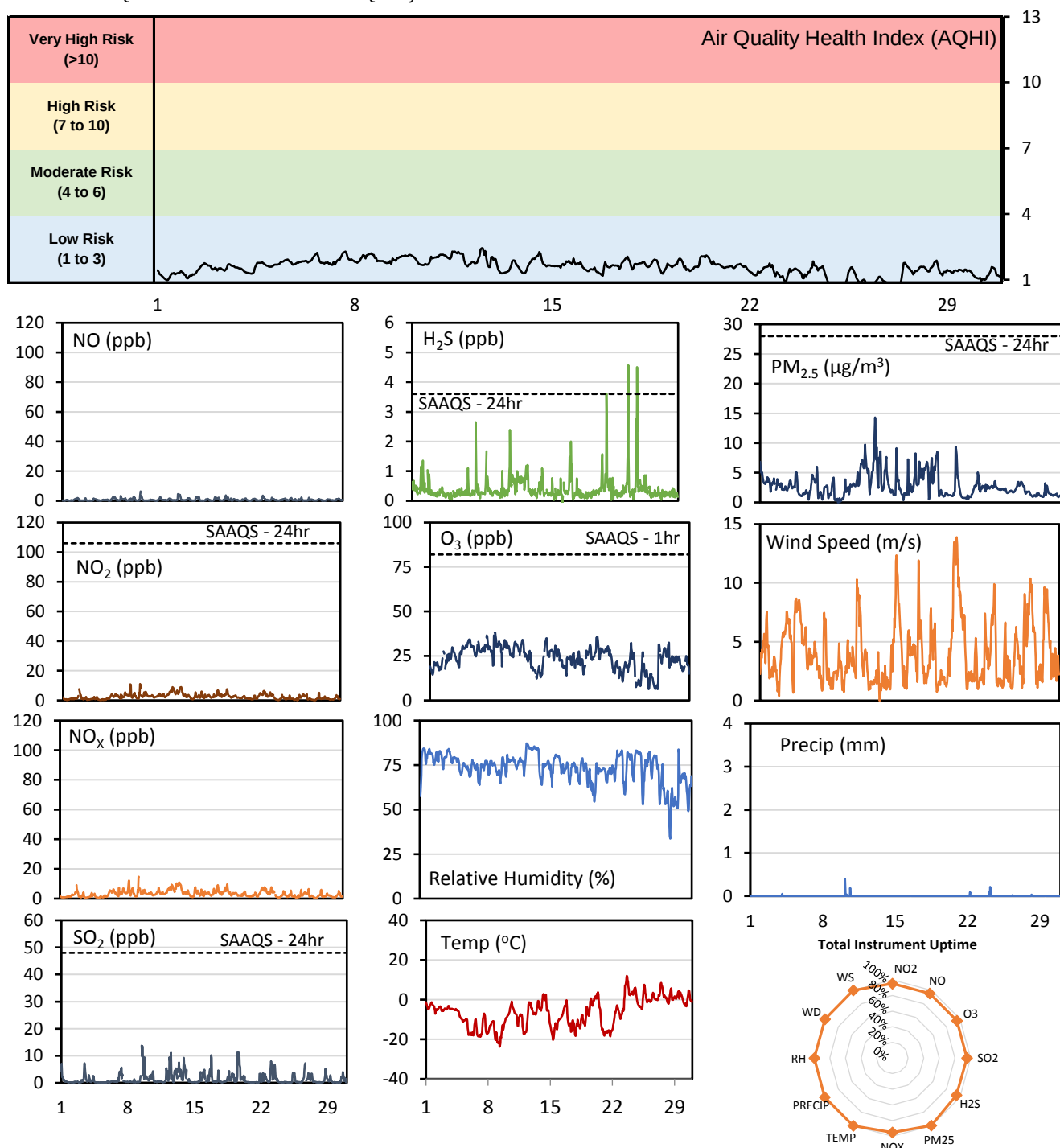
### Monthly Update

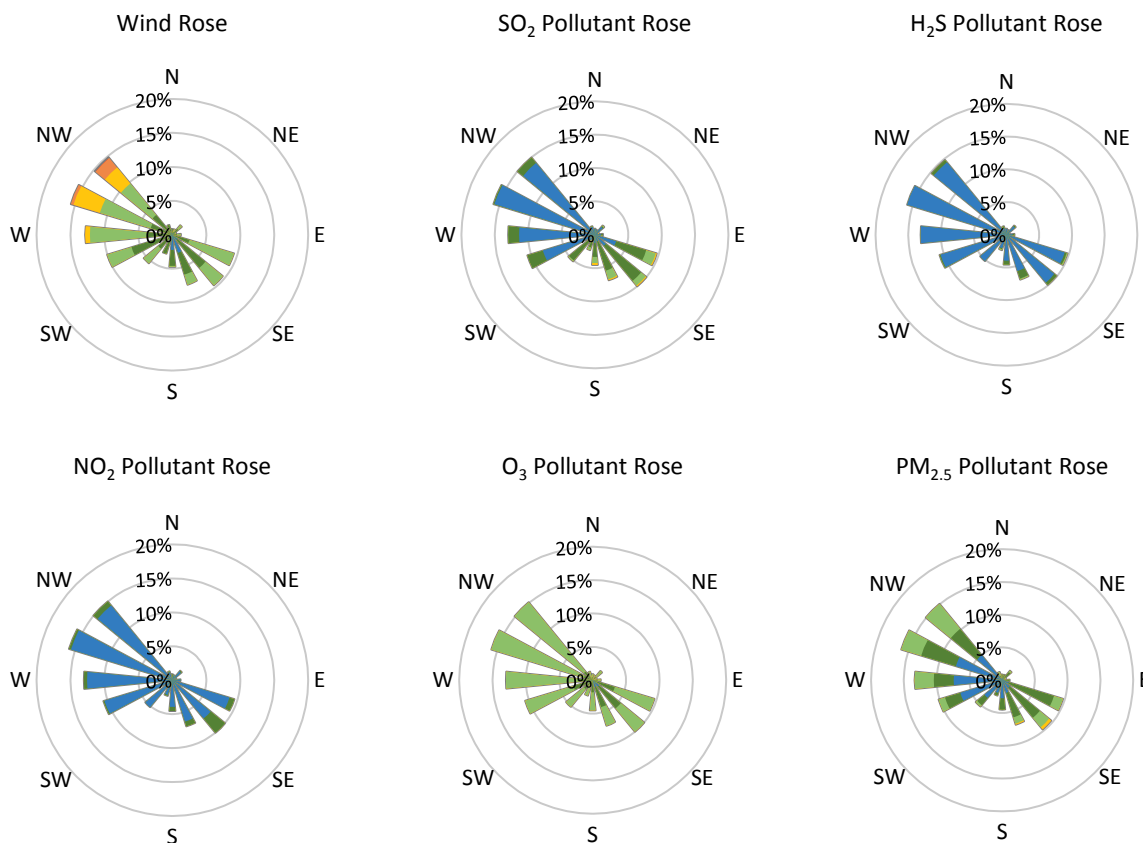
- Achieved >90% of scheduled uptime for all parameters
- Downtime of 4% due to routine daily internal zeroes and spans
- Calibration performed November 21

# SESAA Weyburn Station - November 2017 Summary Report

| Pollutants        |                   | Month Records |              | 24-Hour Records |        |                |             | 1-Hour Records |              |                |              |
|-------------------|-------------------|---------------|--------------|-----------------|--------|----------------|-------------|----------------|--------------|----------------|--------------|
| Name              | Conc. Unit        | Avg. Conc.    | Total Uptime | Maximum         |        | SAAQS Standard | Exceed Days | Maximum        |              | SAAQS Standard | Exceed Hours |
|                   |                   |               |              | Conc.           | Time   |                |             | Conc.          | Time         |                |              |
| NO                | ppb               | 0.8           | 95%          | 1.7             | Nov-13 | -              | -           | 6.4            | Nov-09 09:00 | -              | -            |
| NO <sub>2</sub>   | ppb               | 2.5           | 95%          | 6.3             | Nov-13 | 106            | 0           | 11.1           | Nov-09 08:00 | 159            | 0            |
| NO <sub>x</sub>   | ppb               | 3.3           | 95%          | 7.9             | Nov-13 | -              | -           | 14.7           | Nov-09 09:00 | -              | -            |
| SO <sub>2</sub>   | ppb               | 1.5           | 95%          | 4.0             | Nov-13 | 48             | 0           | 13.8           | Nov-09 11:00 | 172            | 0            |
| H <sub>2</sub> S  | ppb               | 0.4           | 95%          | 0.9             | Nov-26 | 3.6            | 0           | 4.6            | Nov-25 09:00 | 11             | 0            |
| O <sub>3</sub>    | ppb               | 23.6          | 95%          | 31.2            | Nov-05 | -              | -           | 38.2           | Nov-08 12:00 | 82             | 0            |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 2.8           | 100%         | 6.8             | Nov-12 | 28             | 0           | 14.3           | Nov-12 11:00 | -              | -            |

SAAQS: Saskatchewan Ambient Air Quality Standards





| Parameters        | Unit                     | Color Code for Wind Speed and Pollution Concentration Class |                     |                     |                      |                       |                |  |
|-------------------|--------------------------|-------------------------------------------------------------|---------------------|---------------------|----------------------|-----------------------|----------------|--|
| Wind Speed        | m/s                      | $0.3 \leq WS < 1.4$                                         | $1.4 \leq WS < 3.1$ | $3.1 \leq WS < 7.8$ | $7.8 \leq WS < 10.8$ | $10.8 \leq WS < 13.6$ | $WS \geq 13.6$ |  |
| SO <sub>2</sub>   | ppb                      | $0 \leq C < 1$                                              | $1 \leq C < 5$      | $5 \leq C < 10$     | $10 \leq C < 57$     | $57 \leq C < 172$     | $C \geq 172$   |  |
| NO <sub>2</sub>   | ppb                      | $0 \leq C < 5$                                              | $5 \leq C < 15$     | $15 \leq C < 30$    | $30 \leq C < 100$    | $100 \leq C < 212$    | $C \geq 212$   |  |
| H <sub>2</sub> S  | ppb                      | $0 \leq C < 1$                                              | $1 \leq C < 3.6$    | $3.6 \leq C < 5$    | $5 \leq C < 8$       | $8 \leq C < 10.8$     | $C \geq 10.8$  |  |
| O <sub>3</sub>    | ppb                      | $0 \leq C < 10$                                             | $10 \leq C < 20$    | $20 \leq C < 40$    | $40 \leq C < 60$     | $60 \leq C < 82$      | $C \geq 82$    |  |
| PM <sub>2.5</sub> | $\mu\text{g}/\text{m}^3$ | $0 \leq C < 2$                                              | $2 \leq C < 4$      | $4 \leq C < 10$     | $10 \leq C < 20$     | $20 \leq C < 30$      | $C \geq 30$    |  |

### Monthly Update

- Achieved >90% of scheduled uptime for all parameters
- Downtime of 4% due to routine daily internal zeroes and spans