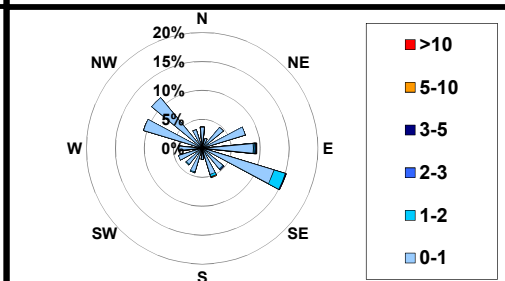
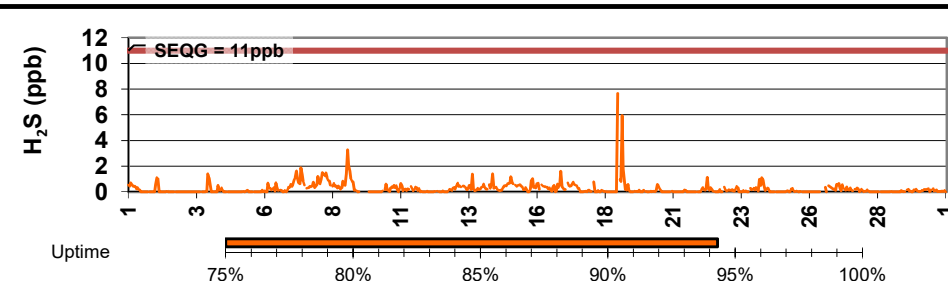
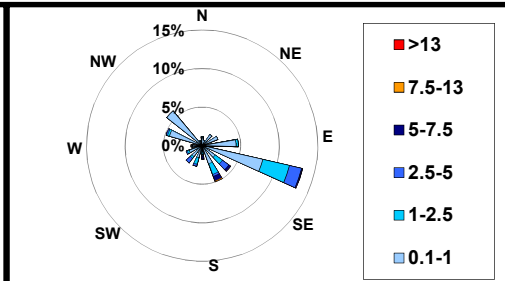
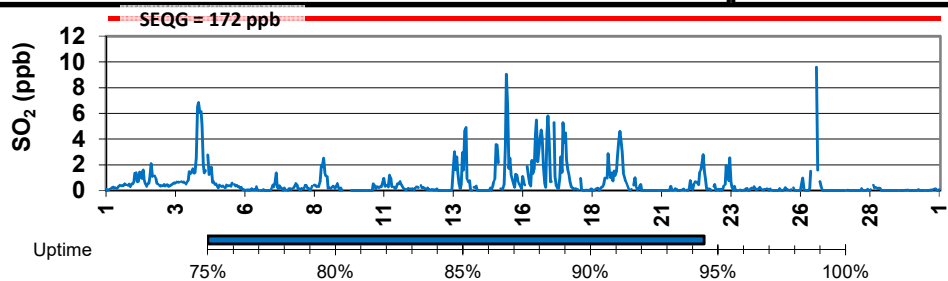
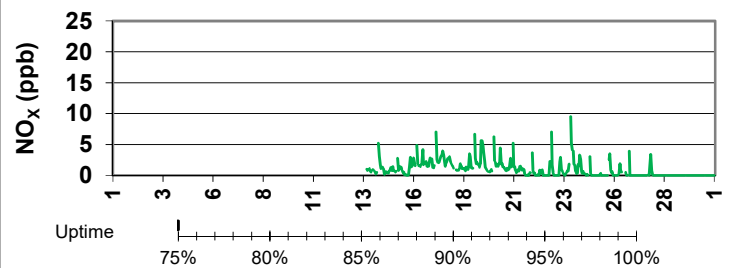
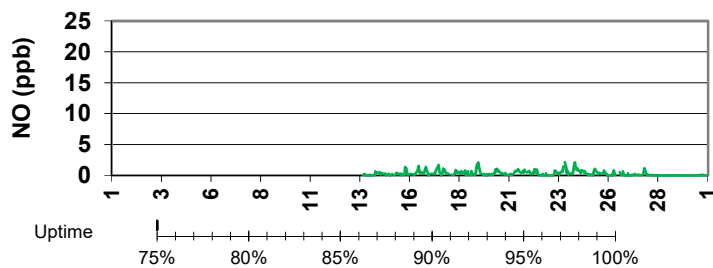
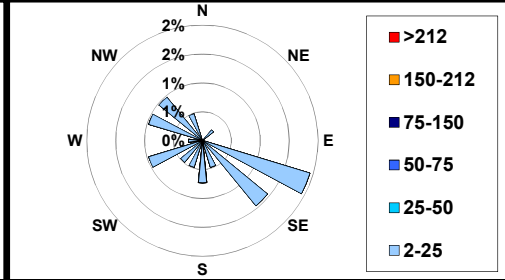
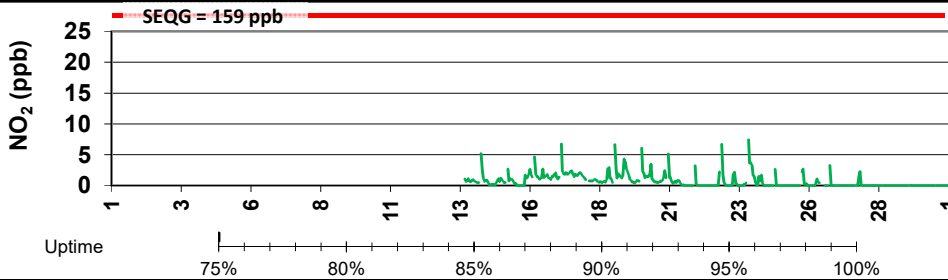
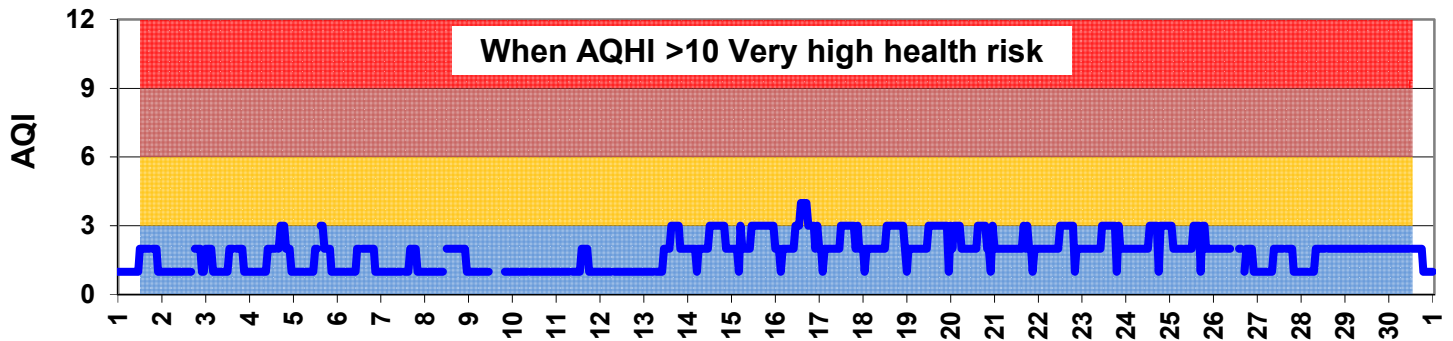
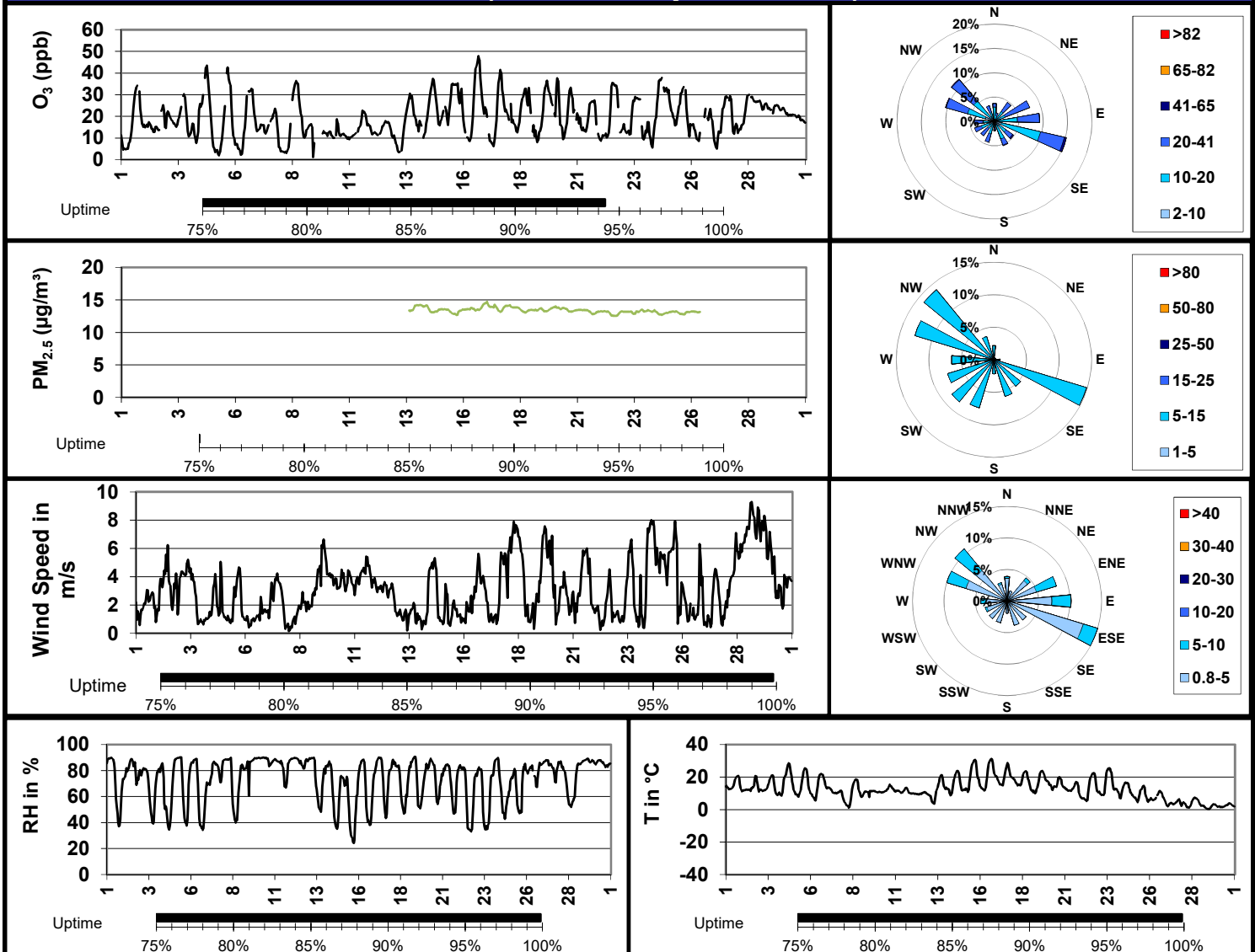


# SESAA - September 2019 Weyburn Station Report

| Parm                                   | Average | Uptime | 1-hour |           |                  | 8-hour / 24-hour |           |         | Exceed<br>1hr / 24hr |
|----------------------------------------|---------|--------|--------|-----------|------------------|------------------|-----------|---------|----------------------|
|                                        |         |        | Max    | Objective | Max Day and Time | Max              | Objective | Max Day |                      |
| NO (ppb)                               | 0.3     | 54.6%  | 2.1    | -         | Sep-23 20:00     | 0.6              | -         | Sep-24  | - / -                |
| NO <sub>2</sub> (ppb)                  | 0.8     | 54.6%  | 7.4    | 159       | Sep-23 20:00     | 1.9              | 106       | Sep-17  | 0 / 0                |
| NO <sub>x</sub> (ppb)                  | 1.0     | 54.6%  | 9.5    | -         | Sep-23 20:00     | 2.5              | -         | Sep-17  | - / -                |
| SO <sub>2</sub> (ppb)                  | 0.6     | 94.5%  | 9.6    | 172       | Sep-26 14:00     | 2.4              | -         | Sep-04  | 0 / 0                |
| H <sub>2</sub> S (ppb)                 | 0.2     | 94.3%  | 7.7    | 11        | Sep-18 23:00     | 0.7              | 3.6       | Sep-07  | 0 / 0                |
| O <sub>3</sub> (ppb)                   | 19.3    | 94.3%  | 47.8   | 82        | Sep-16 16:00     | 26.0             | 63        | Sep-15  | 0 / 0                |
| PM <sub>2.5</sub> (µg/m <sup>3</sup> ) | 13.4    | 42.6%  | 14.7   | -         | Sep-17 01:00     | 13.9             | 30        | Sep-17  | - / 0                |



# SESAA - September 2019 Weyburn Station Report



## Elevated Reading Summary

| Date             | NO <sub>2</sub> | SO <sub>2</sub> | H <sub>2</sub> S | O <sub>3</sub> | PM <sub>2.5</sub> | WS  | WD    | Temp | RH   |
|------------------|-----------------|-----------------|------------------|----------------|-------------------|-----|-------|------|------|
| 2019-09-18 23:00 | 0.5             | 1.0             | 7.7              | 21.5           | 13.5              | 0.8 | 155.8 | 14.1 | 75.0 |

### Update Summary:

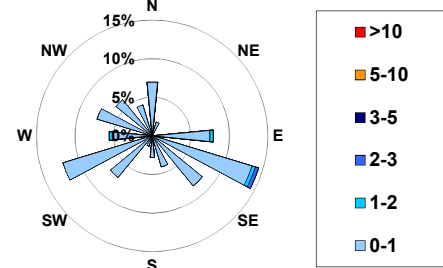
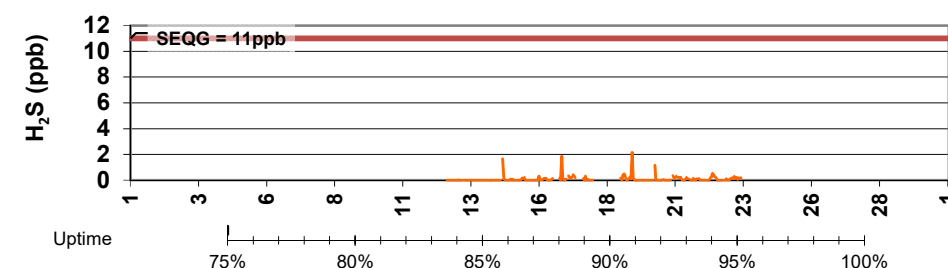
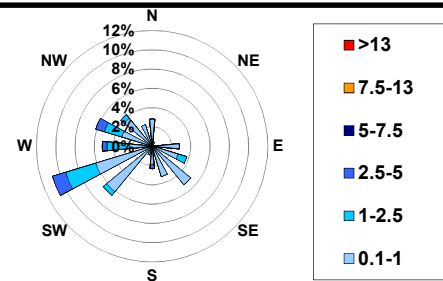
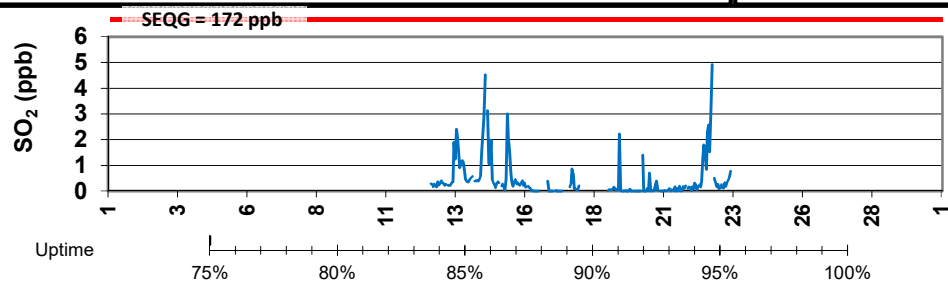
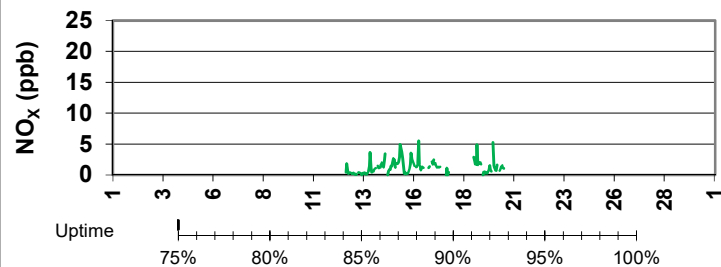
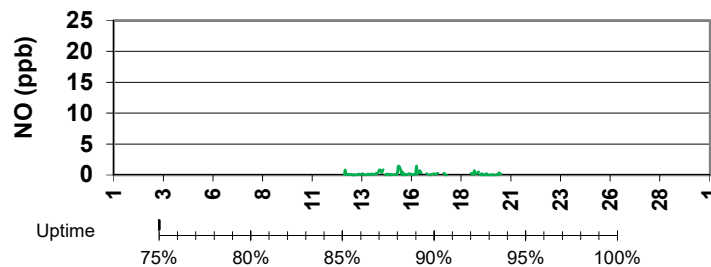
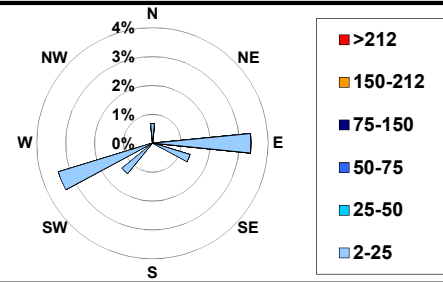
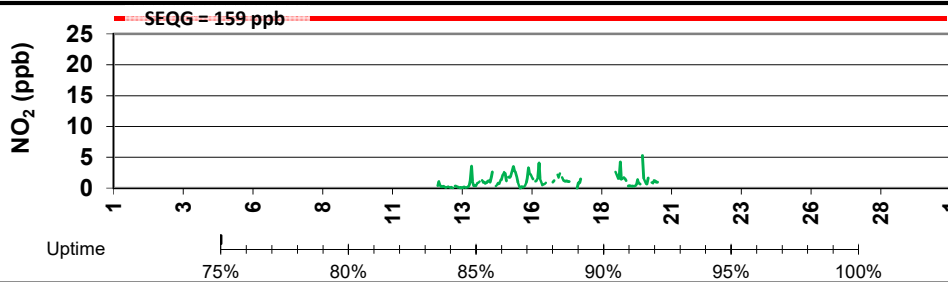
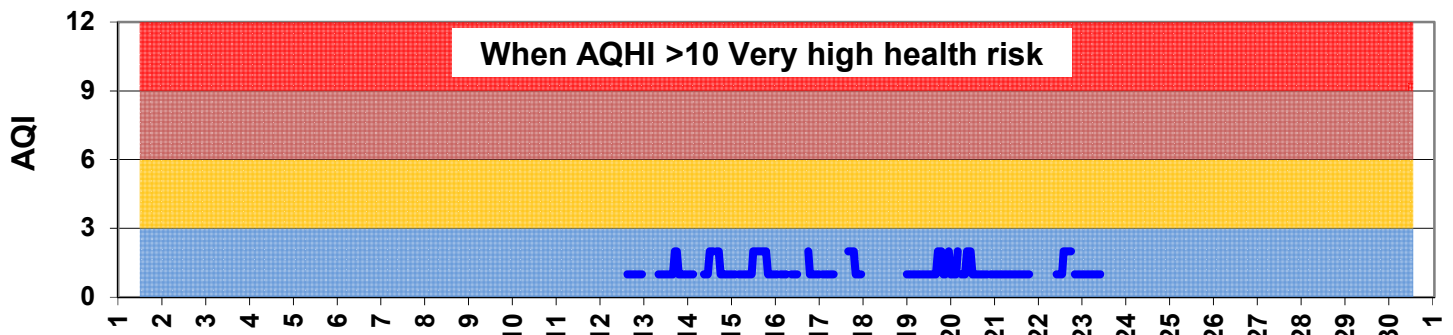
The NO<sub>2</sub> and PM<sub>2.5</sub> analyzers were put back into service on Sept 13, and the PM<sub>2.5</sub> failed again on Sept 26

The quarterly calibration was conducted on Sept 9

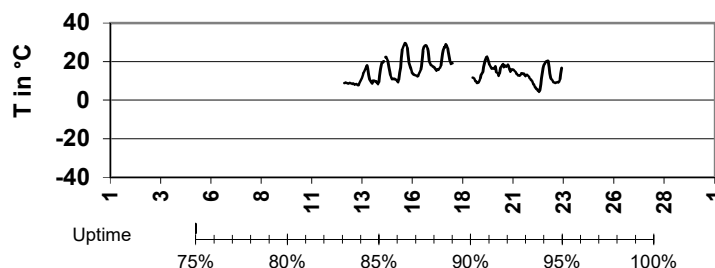
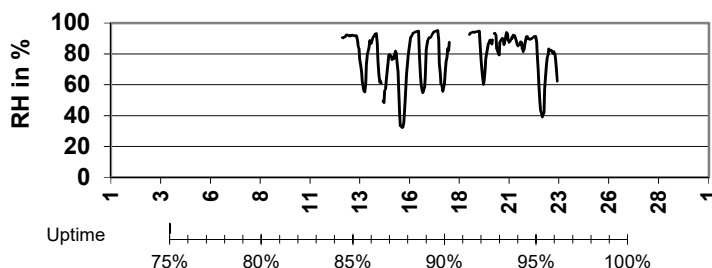
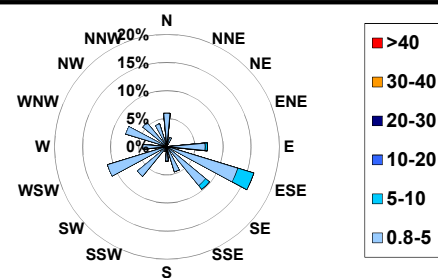
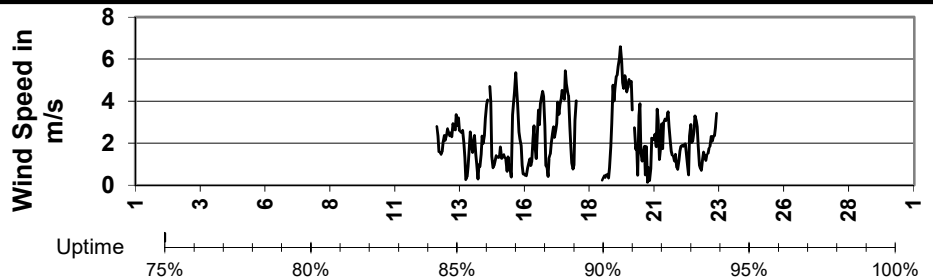
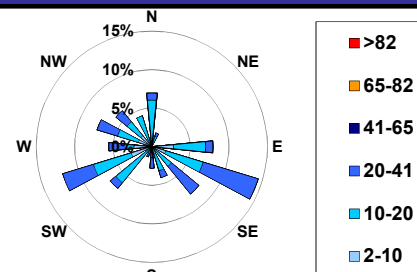
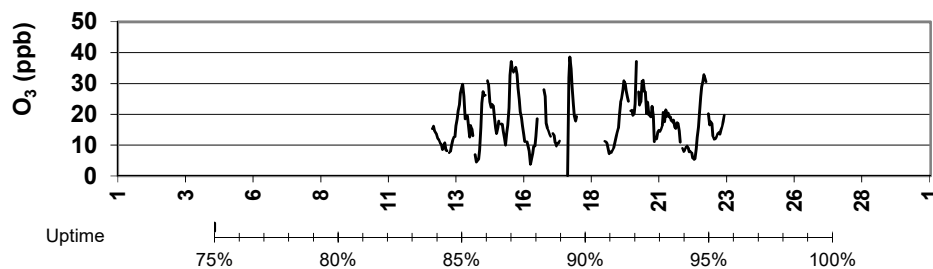
Overall readings for the month resulted in a low Air Quality Health Index

# SESAA - September 2019 Glen Ewen Station Report

| Parm                                   | Average | Uptime | 1-hour |           |                  | 8-hour / 24-hour |           |         | Exceed<br>1hr / 24hr |
|----------------------------------------|---------|--------|--------|-----------|------------------|------------------|-----------|---------|----------------------|
|                                        |         |        | Max    | Objective | Max Day and Time | Max              | Objective | Max Day |                      |
| NO (ppb)                               | -       | 18.4%  | 1.4    | -         | Sep-16 06:00     | 0.3              | -         | Sep-15  | - / -                |
| NO <sub>2</sub> (ppb)                  | -       | 18.4%  | 5.3    | 159       | Sep-19 23:00     | 1.6              | 106       | Sep-15  | 0 / 0                |
| NO <sub>x</sub> (ppb)                  | -       | 18.4%  | 5.5    | -         | Sep-16 06:00     | 1.9              | -         | Sep-15  | - / -                |
| SO <sub>2</sub> (ppb)                  | 0.4     | 28.5%  | 4.9    | 172       | Sep-22 18:00     | 1.0              | -         | Sep-14  | 0 / 0                |
| H <sub>2</sub> S (ppb)                 | 0.1     | 28.7%  | 2.2    | 11        | Sep-19 10:00     | 0.2              | 3.6       | Sep-19  | 0 / 0                |
| O <sub>3</sub> (ppb)                   | 17.5    | 28.7%  | 38.6   | 82        | Sep-17 17:00     | 21.7             | 63        | Sep-15  | 0 / 0                |
| PM <sub>2.5</sub> (µg/m <sup>3</sup> ) |         |        |        |           |                  |                  |           |         |                      |



# SESAA - September 2019 Glen Ewen Station Report



## Elevated Reading Summary

| Date             | NO <sub>2</sub> | SO <sub>2</sub> | H <sub>2</sub> S | O <sub>3</sub> | PM <sub>2.5</sub> | WS  | WD    | Temp | RH   |
|------------------|-----------------|-----------------|------------------|----------------|-------------------|-----|-------|------|------|
| 2019-09-19 10:00 | 0.0             | 2.2             | 2.2              | 12.8           | -                 | 4.8 | 116.9 | 13.0 | 94.5 |

## Update Summary:

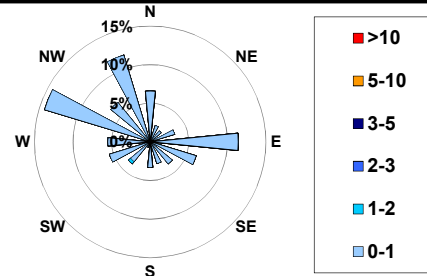
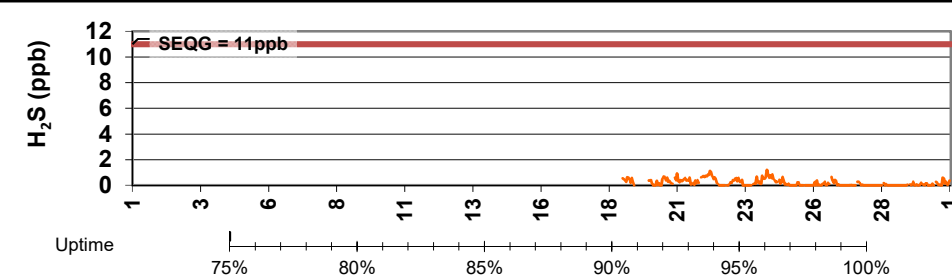
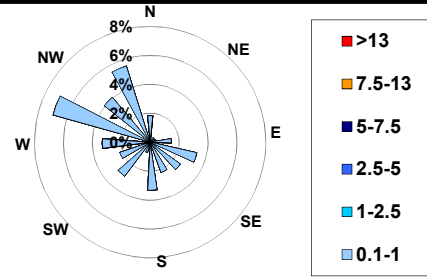
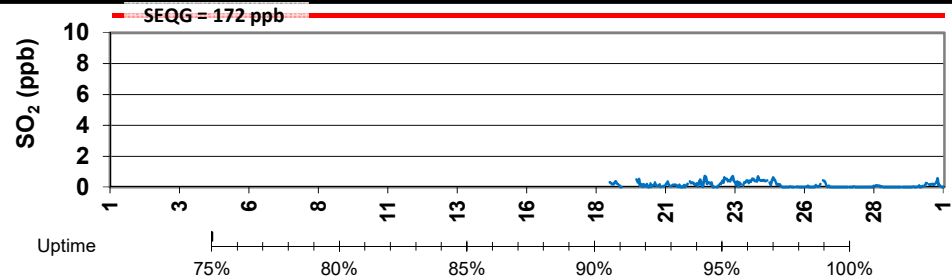
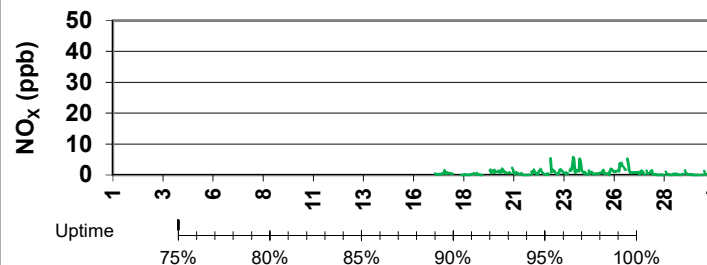
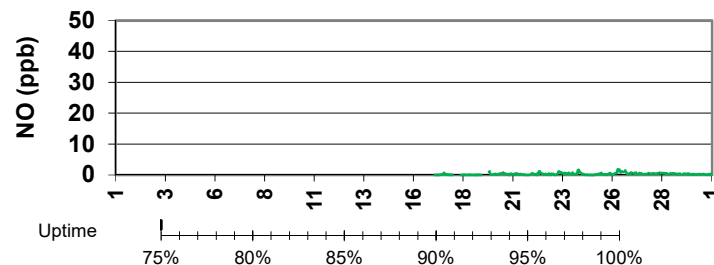
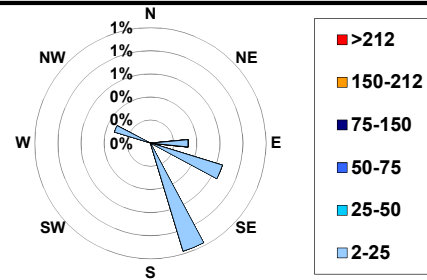
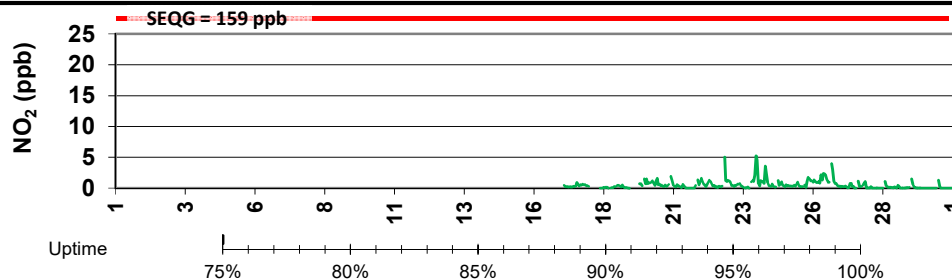
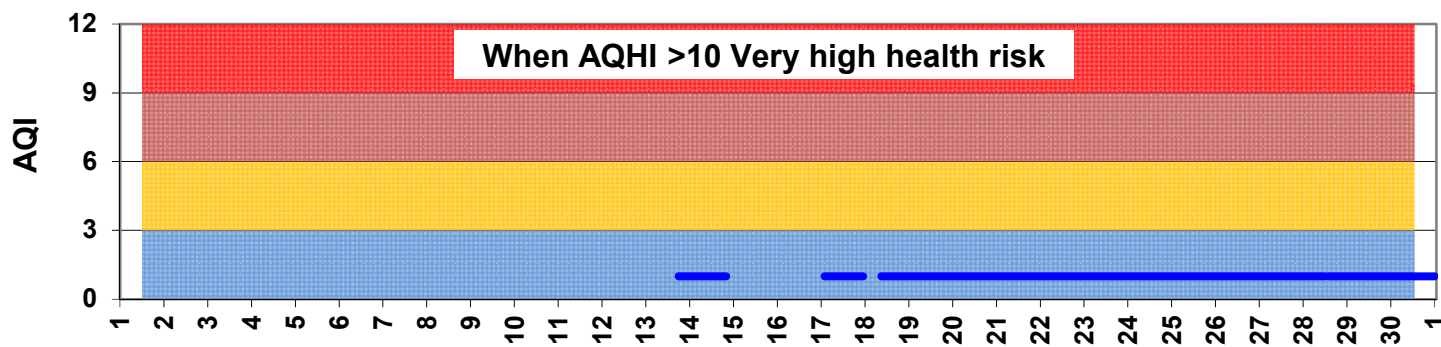
The station was brought back online Sept 12

The quarterly calibration was conducted Sept 16

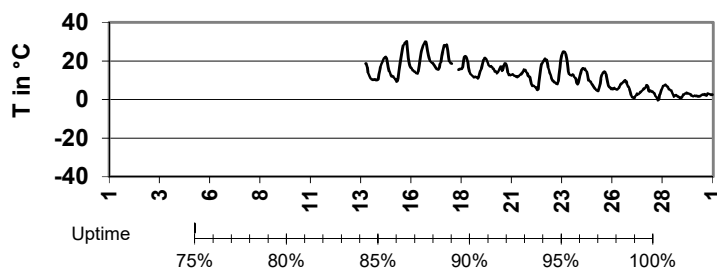
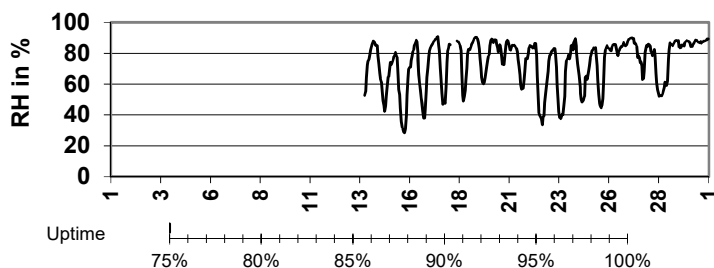
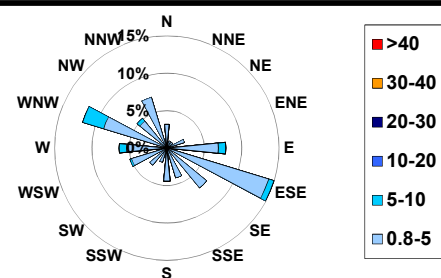
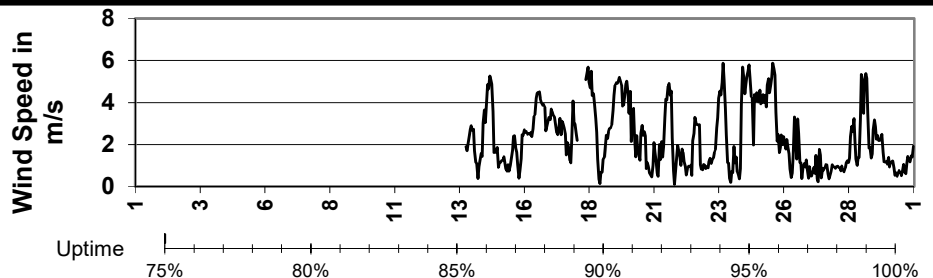
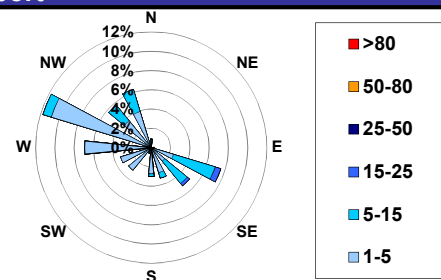
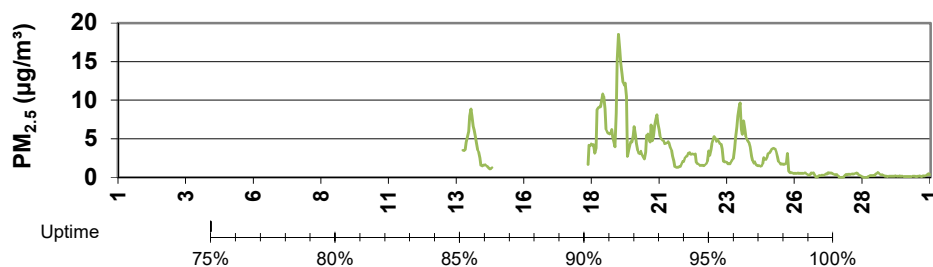
The station failed and brought down on Sept 23

# SESAA - September 2019 Stoughton Station Report

| Parm                                   | Average | Uptime | 1-hour |           |                  | 8-hour / 24-hour |           |         | Exceed<br>1hr / 24hr |
|----------------------------------------|---------|--------|--------|-----------|------------------|------------------|-----------|---------|----------------------|
|                                        |         |        | Max    | Objective | Max Day and Time | Max              | Objective | Max Day |                      |
| NO (ppb)                               | 0.3     | 42.3%  | 1.8    | -         | Sep-26 07:00     | 0.7              | -         | Sep-26  | - / -                |
| NO <sub>2</sub> (ppb)                  | 0.5     | 42.3%  | 5.2    | 159       | Sep-23 23:00     | 1.3              | 106       | Sep-26  | 0 / 0                |
| NO <sub>x</sub> (ppb)                  | 0.7     | 42.3%  | 5.8    | -         | Sep-23 23:00     | 1.9              | -         | Sep-26  | - / -                |
| SO <sub>2</sub> (ppb)                  | 0.1     | 37.0%  | 0.7    | 172       | Sep-22 10:00     | 0.4              | -         | Sep-24  | 0 / 0                |
| H <sub>2</sub> S (ppb)                 | 0.2     | 37.0%  | 1.2    | 11        | Sep-24 07:00     | 0.5              | 3.6       | Sep-24  | 0 / 0                |
| O <sub>3</sub> (ppb)                   |         |        |        |           |                  |                  |           |         |                      |
| PM <sub>2.5</sub> (µg/m <sup>3</sup> ) | 2.8     | 45.9%  | 18.6   | -         | Sep-19 12:00     | 8.6              | 30        | Sep-19  | - / 0                |



## SESAA - September 2019 Stoughton Station Report



### Elevated Reading Summary

| Date            | NO <sub>2</sub> | SO <sub>2</sub> | H <sub>2</sub> S | O <sub>3</sub> | PM <sub>2.5</sub> | WS  | WD    | Temp | RH   |
|-----------------|-----------------|-----------------|------------------|----------------|-------------------|-----|-------|------|------|
| 2019-09-24 7:00 | 3.6             | 0.4             | 1.2              | -              | 4.7               | 0.4 | 144.4 | 8.0  | 88.7 |

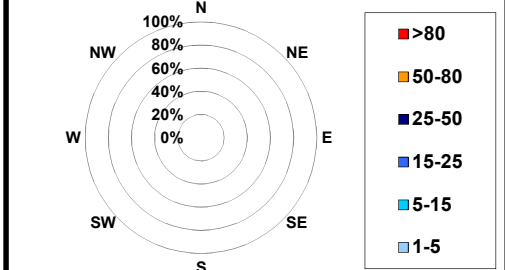
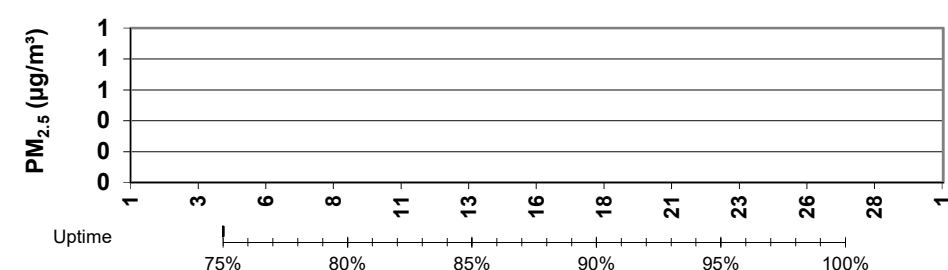
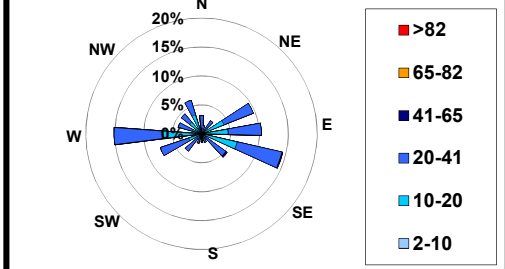
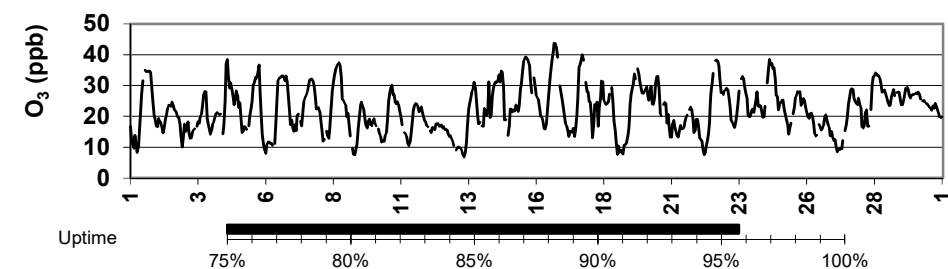
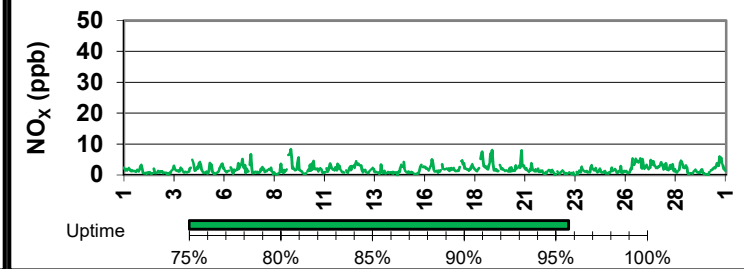
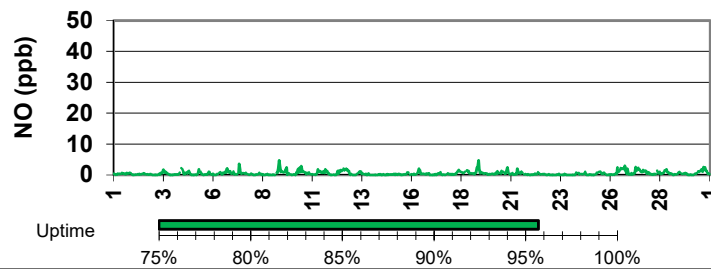
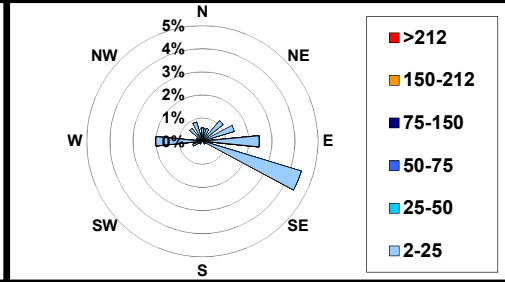
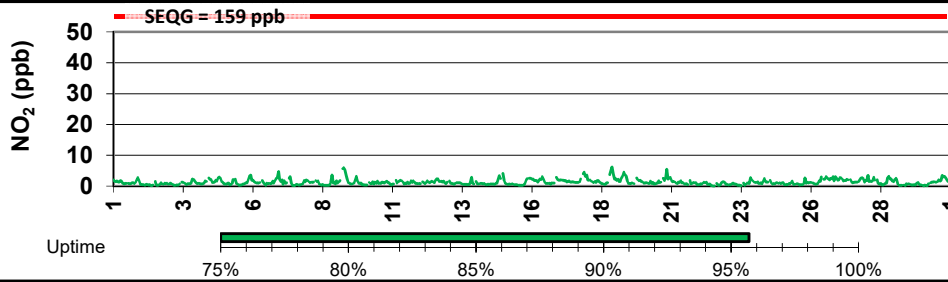
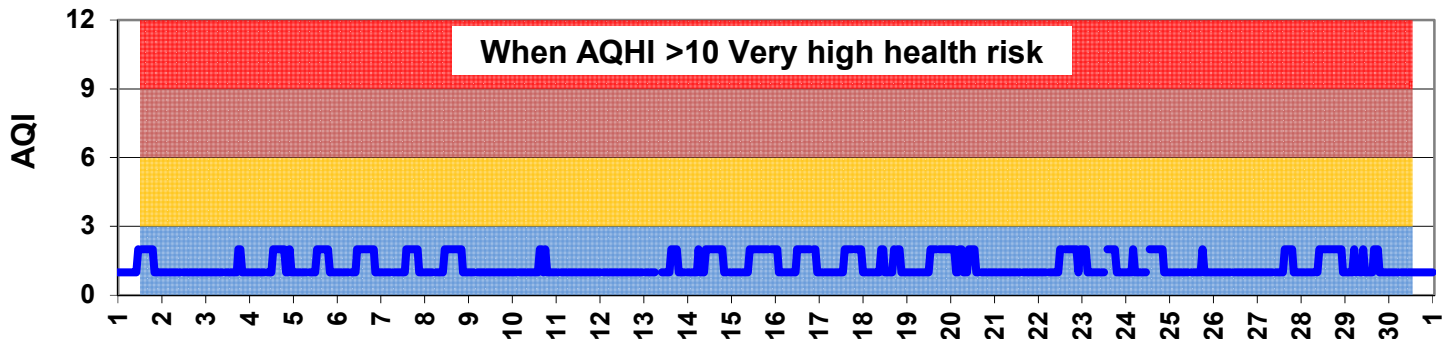
### Update Summary:

The station has been down due to power surge that effected equipment and the computer, which needed to be removed and replaced and brought back online Sept 13

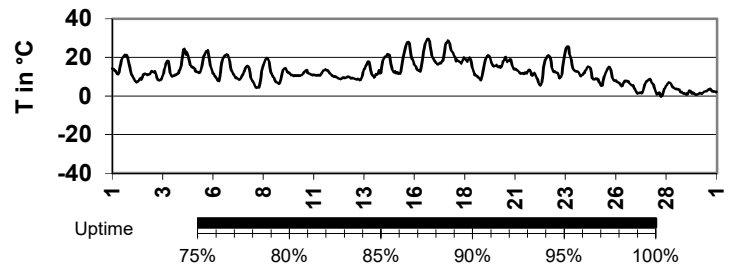
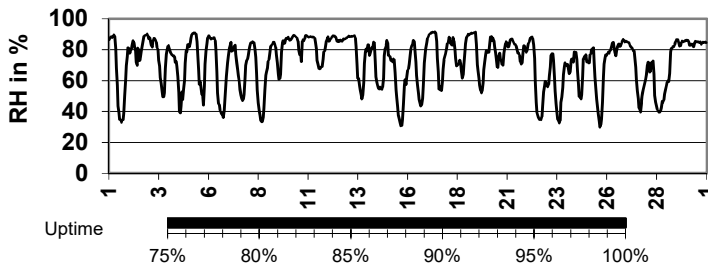
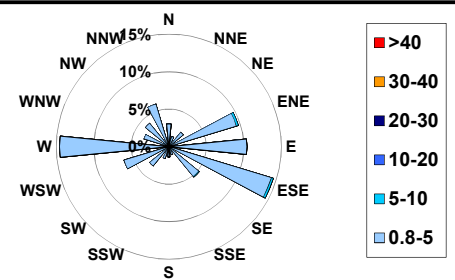
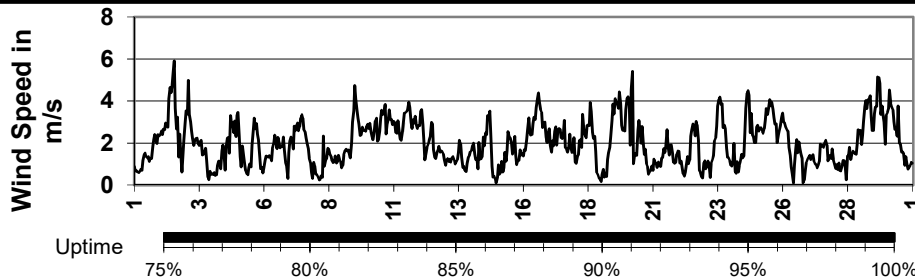
The quarterly calibration was performed on Sept 18

# SESAA - September 2019 Esterhazy Station Report

| Parm                                   | Average | Uptime | 1-hour |           |                  | 8-hour / 24-hour |           |         | Exceed<br>1hr / 24hr |
|----------------------------------------|---------|--------|--------|-----------|------------------|------------------|-----------|---------|----------------------|
|                                        |         |        | Max    | Objective | Max Day and Time | Max              | Objective | Max Day |                      |
| NO (ppb)                               | 0.5     | 95.7%  | 4.7    | -         | Sep-09 08:00     | 1.0              | -         | Sep-26  | - / -                |
| NO <sub>2</sub> (ppb)                  | 1.3     | 95.7%  | 6.2    | 159       | Sep-18 21:00     | 1.9              | 106       | Sep-19  | 0 / 0                |
| NO <sub>x</sub> (ppb)                  | 1.8     | 95.7%  | 8.3    | -         | Sep-09 08:00     | 2.8              | -         | Sep-26  | - / -                |
| O <sub>3</sub> (ppb)                   | 22.2    | 95.7%  | 43.7   | 82        | Sep-16 16:00     | 27.7             | 63        | Sep-15  | 0 / 0                |
| PM <sub>2.5</sub> (µg/m <sup>3</sup> ) | -       | 0.0%   | 0.0    | -         | #N/A             | 0.0              | 30        | Sep-01  | - / 0                |



## SESAA - September 2019 Esterhazy Station Report



### Elevated Reading Summary

| Date             | NO <sub>2</sub> | SO <sub>2</sub> | H <sub>2</sub> S | O <sub>3</sub> | PM <sub>2.5</sub> | WS  | WD    | Temp | RH   |
|------------------|-----------------|-----------------|------------------|----------------|-------------------|-----|-------|------|------|
| 2019-09-16 16:00 | 0.6             | -               | -                | 43.7           | 0.0               | 3.6 | 130.8 | 29.5 | 43.6 |

### Update Summary:

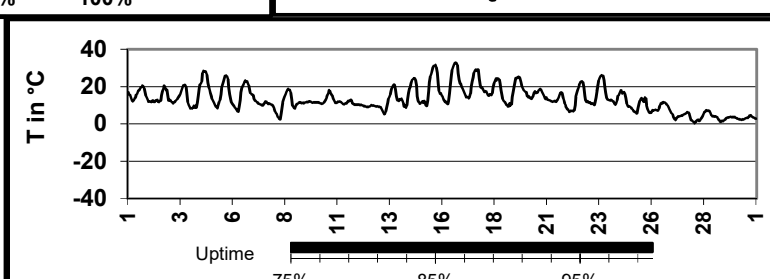
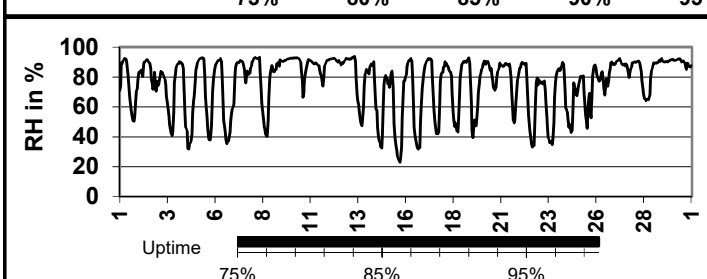
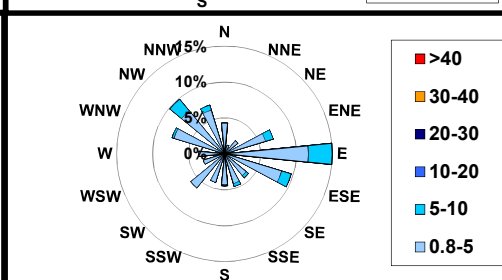
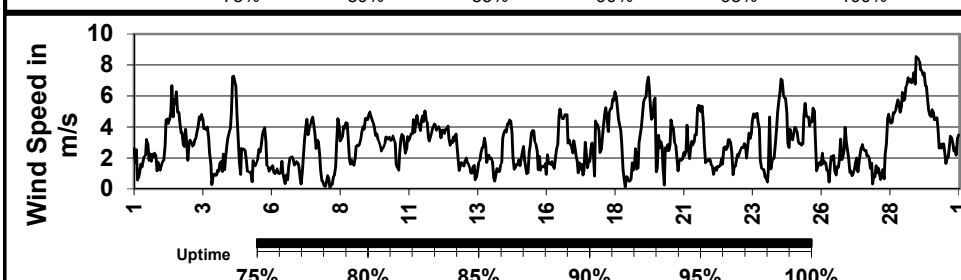
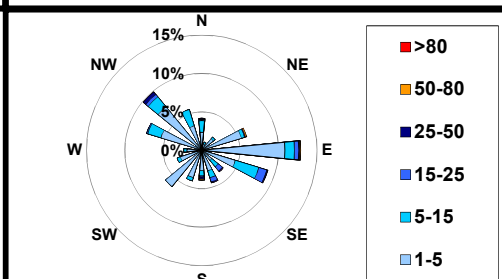
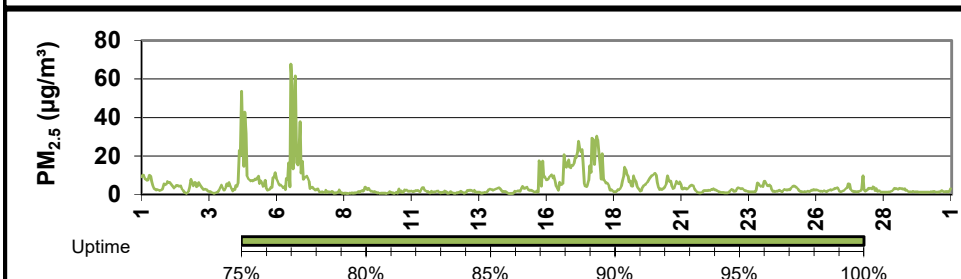
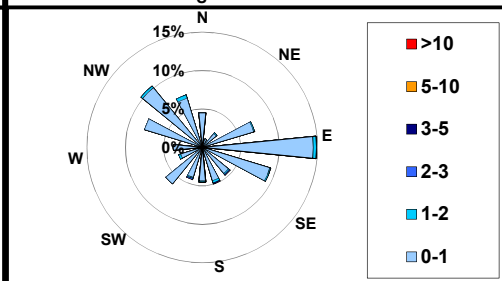
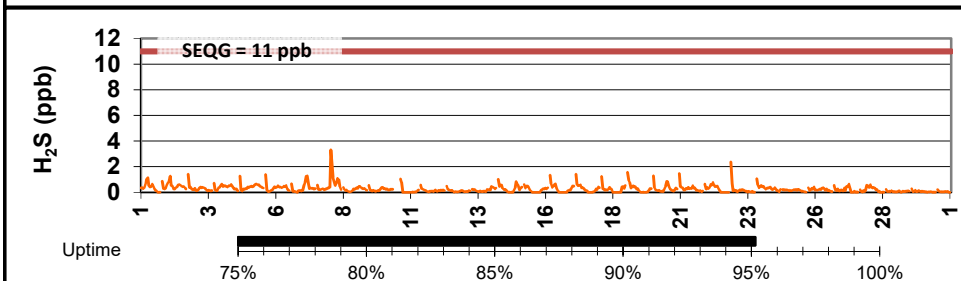
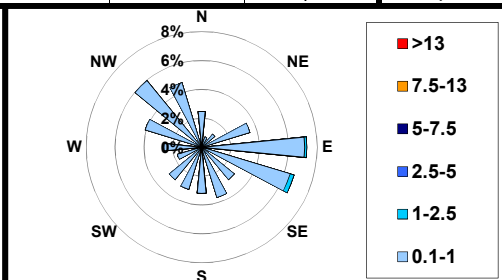
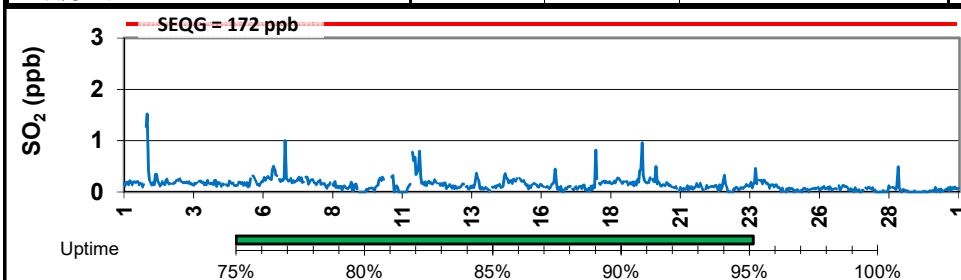
All instruments remained at >95% uptime with exception of PM2.5 which is away for repair

The quarterly calibration was performed Oct 4 due to weather delays

Data showed low Air Quality Health Index (AQHI) for the month.

# SESAA - September 2019 Torquay Station Report

| Parm                                   | Average | Uptime | 1-hour |           |                  | 8-hour / 24-hour |           |         | Exceed<br>1hr / 24hr |
|----------------------------------------|---------|--------|--------|-----------|------------------|------------------|-----------|---------|----------------------|
|                                        |         |        | Max    | Objective | Max Day and Time | Max              | Objective | Max Day |                      |
| SO <sub>2</sub> (ppb)                  | 0.1     | 95.1%  | 1.5    | 172       | Sep-01 20:00     | 0.3              | 48        | Sep-06  | 0 / 0                |
| H <sub>2</sub> S (ppb)                 | 0.3     | 95.1%  | 3.3    | 11        | Sep-08 01:00     | 0.6              | 4         | Sep-08  | 0 / 0                |
| PM <sub>2.5</sub> (µg/m <sup>3</sup> ) | 4.6     | 100.0% | 67.7   | -         | PM2.5            | 18.2             | 30        | Sep-17  | - / 0                |

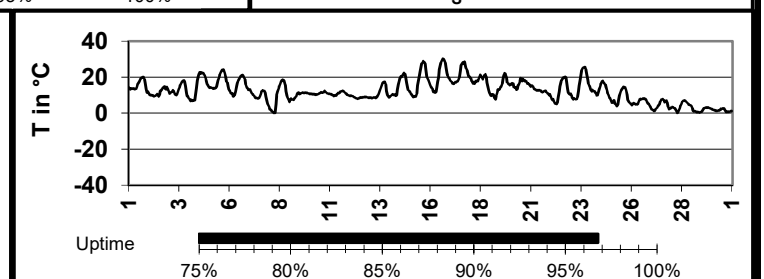
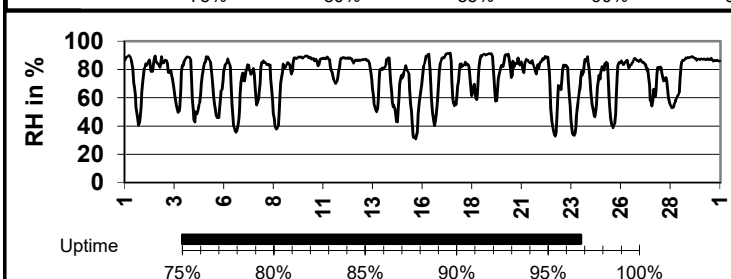
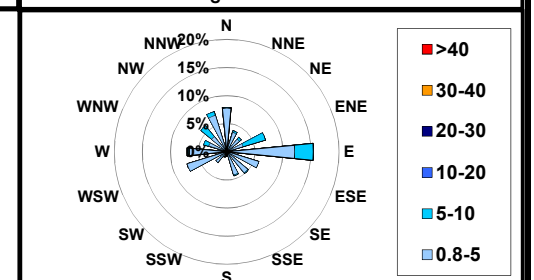
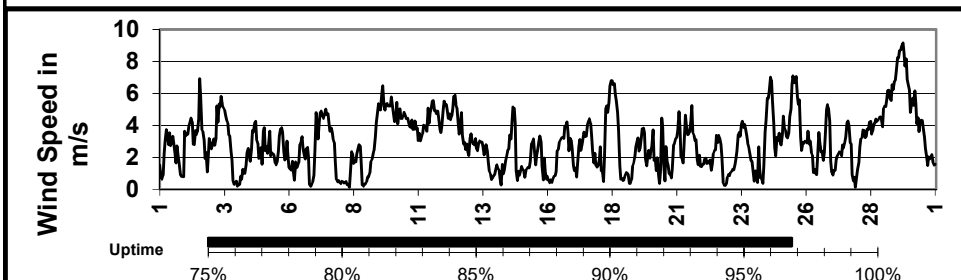
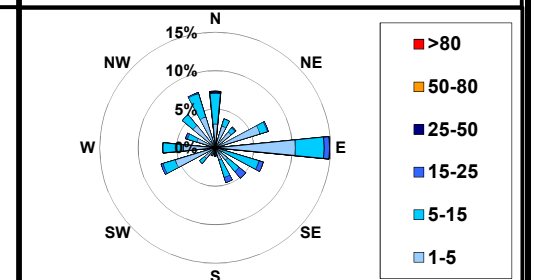
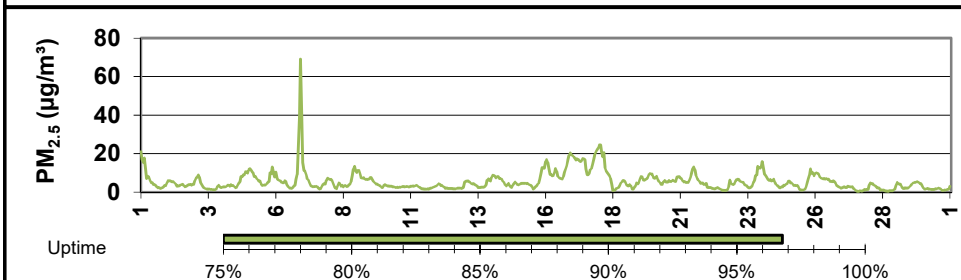
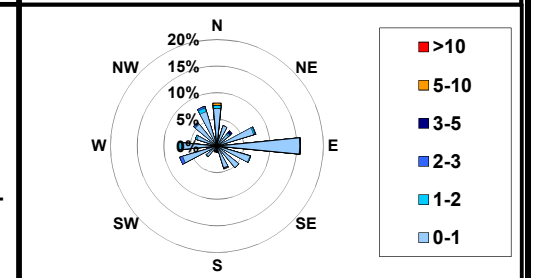
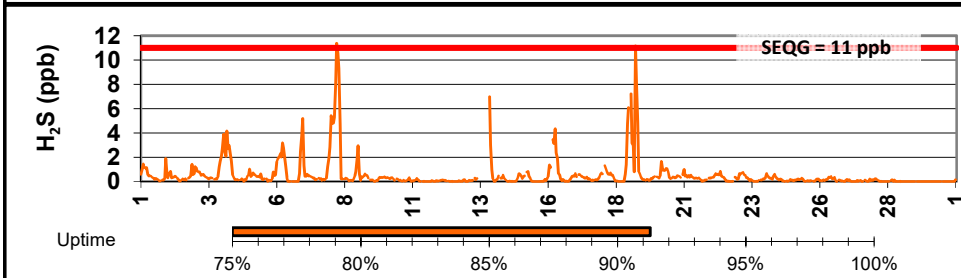
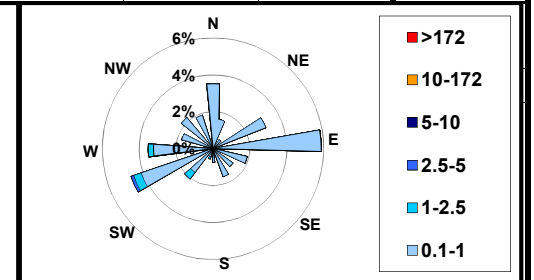
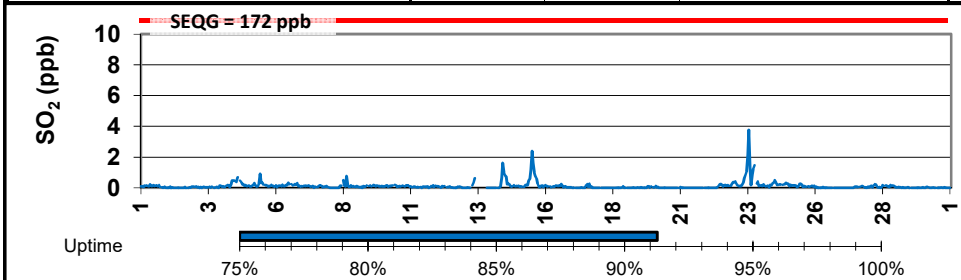


## Update Summary:

There was no exceedance in the month of Sept 2019  
 The quarterly calibration was performed on Sept 10  
 Instrument uptime was >95%

# SESAA - September 2019 Wauchope Station Report

| Parm                                   | Average | Uptime | 1-hour |           |                  | 8-hour / 24-hour |           |         | Exceed<br>1hr / 24hr |
|----------------------------------------|---------|--------|--------|-----------|------------------|------------------|-----------|---------|----------------------|
|                                        |         |        | Max    | Objective | Max Day and Time | Max              | Objective | Max Day |                      |
| SO <sub>2</sub> (ppb)                  | 0.1     | 91.3%  | 3.8    | 172       | Sep-23 13:00     | 0.7              | -         | Sep-23  | 0 / 0                |
| H <sub>2</sub> S (ppb)                 | 0.5     | 91.3%  | 11.4   | 11        | Sep-08 05:00     | 2.9              | 3.6       | Sep-08  | 2 / 0                |
| PM <sub>2.5</sub> (µg/m <sup>3</sup> ) | 5.5     | 96.8%  | 69.1   | -         | Sep-06 22:00     | 16.2             | 30        | Sep-17  | - / 0                |



## Elevated Reading Summary

| Date             | NO <sub>2</sub> | SO <sub>2</sub> | H <sub>2</sub> S | O <sub>3</sub> | PM <sub>2.5</sub> | WS  | WD  | Temp | RH   |
|------------------|-----------------|-----------------|------------------|----------------|-------------------|-----|-----|------|------|
| 2019-09-06 22:00 | -               | 0.1             | 11.4             | -              | 69.1              | 0.5 | 5.4 | 13.7 | 75.2 |

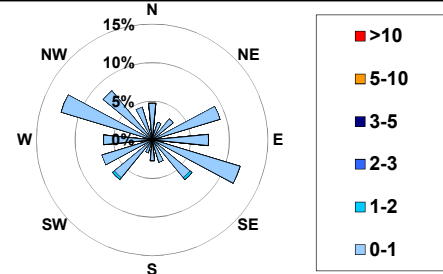
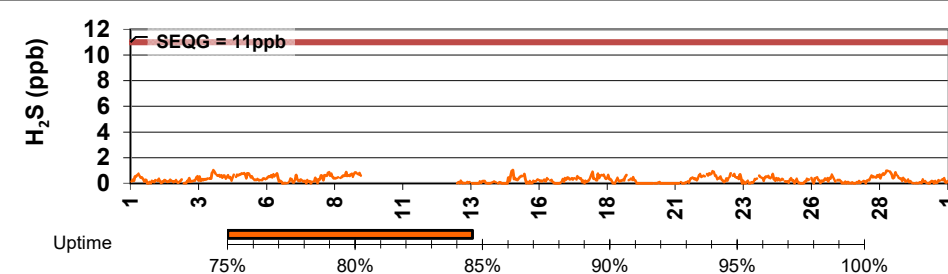
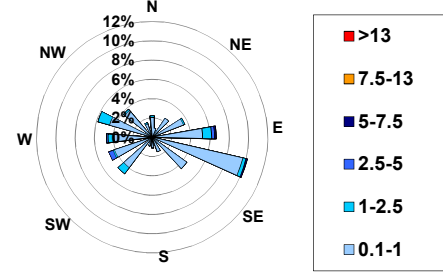
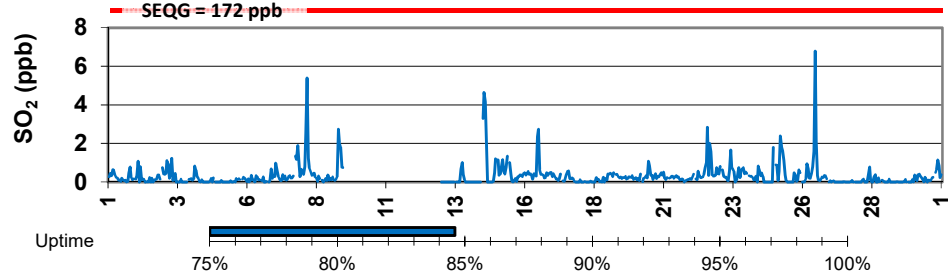
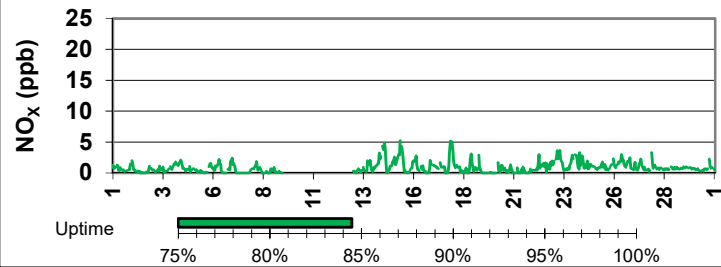
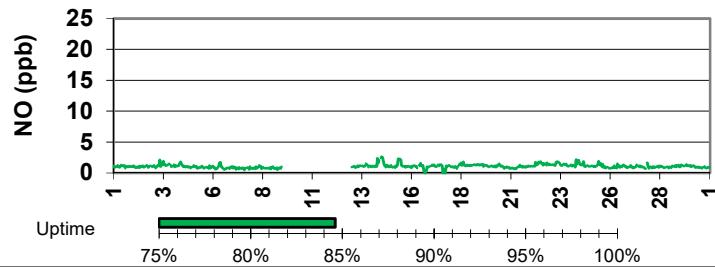
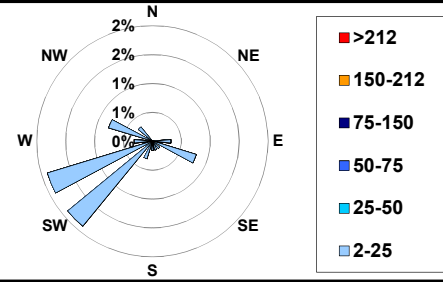
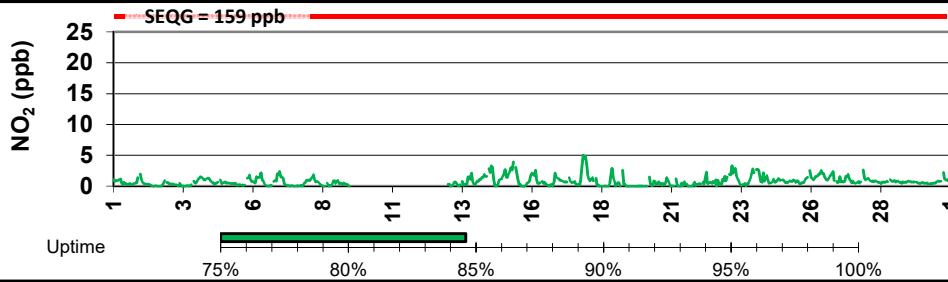
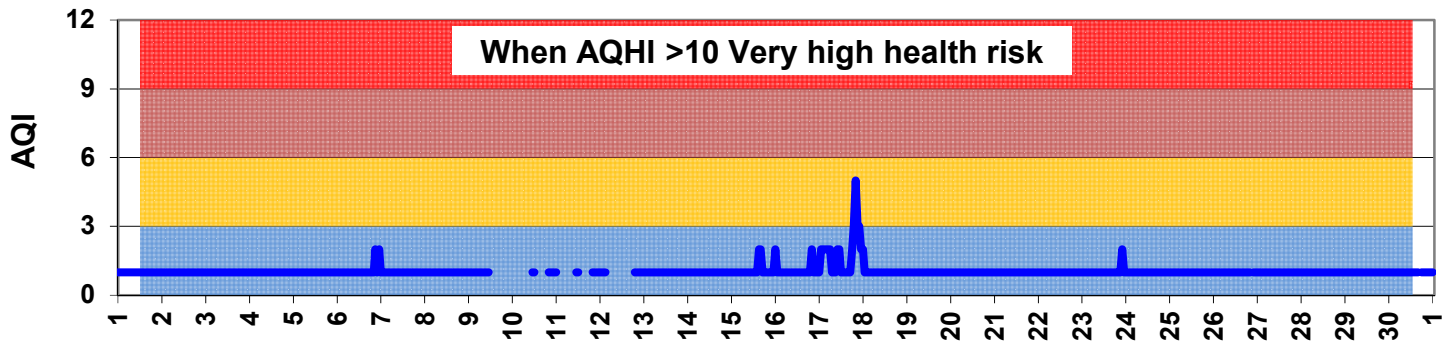
### Update Summary:

There were two readings at the 1-hr SEQG for hydrogen sulphide in the month of Sept 2019, with the highest reading recorded during low winds

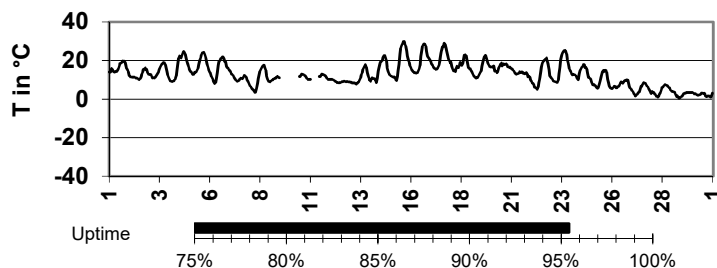
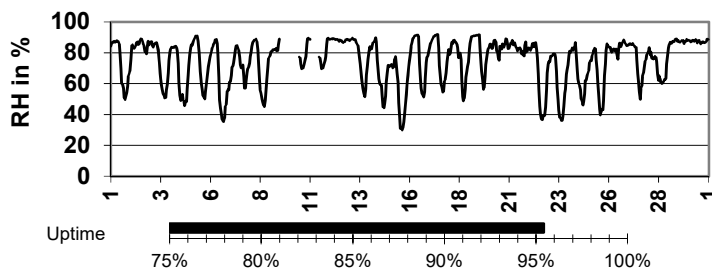
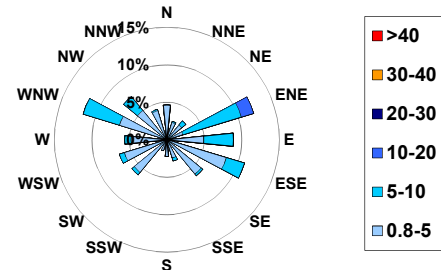
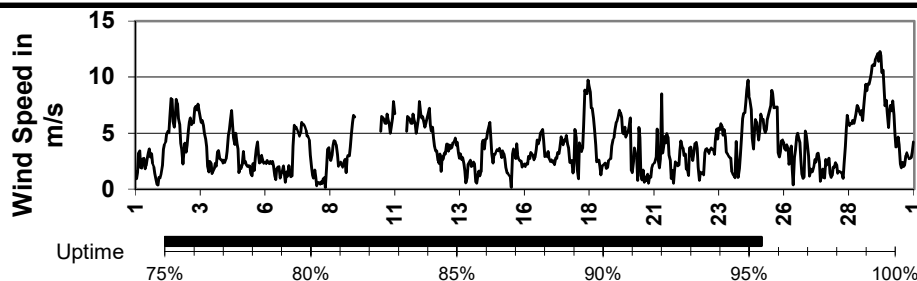
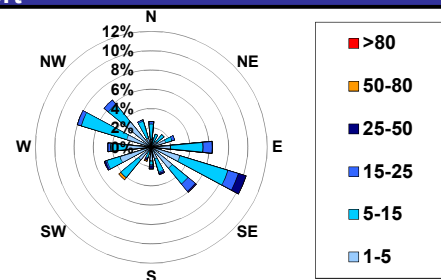
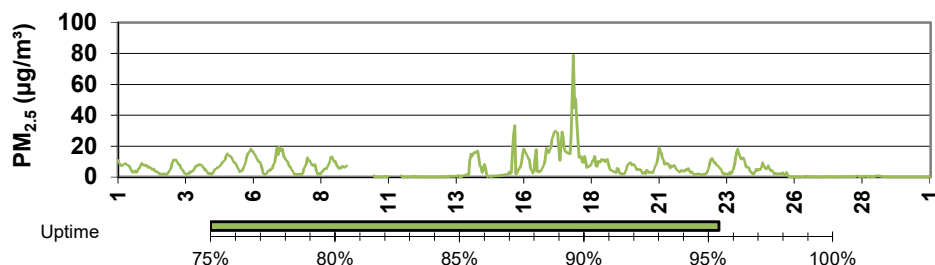
The quarterly calibration was performed on Sept 13, all instruments remained >90% uptime.

# SESAA - September 2019 Oxbow Station Report

| Parm                                   | Average | Uptime | 1-hour |           |                  | 8-hour / 24-hour |           |         | Exceed<br>1hr / 24hr |
|----------------------------------------|---------|--------|--------|-----------|------------------|------------------|-----------|---------|----------------------|
|                                        |         |        | Max    | Objective | Max Day and Time | Max              | Objective | Max Day |                      |
| NO (ppb)                               | 1.1     | 84.6%  | 2.6    | -         | Sep-14 12:00     | 1.4              | -         | Sep-14  | - / -                |
| NO <sub>2</sub> (ppb)                  | 0.8     | 84.6%  | 5.0    | 159       | Sep-17 20:00     | 1.4              | 106       | Sep-26  | 0 / 0                |
| NO <sub>x</sub> (ppb)                  | 0.9     | 84.5%  | 5.2    | -         | Sep-15 08:00     | 1.7              | -         | Sep-14  | - / -                |
| SO <sub>2</sub> (ppb)                  | 0.3     | 84.6%  | 6.8    | 172       | Sep-26 11:00     | 0.7              | -         | Sep-26  | 0 / 0                |
| H <sub>2</sub> S (ppb)                 | 0.3     | 84.6%  | 1.0    | 11        | Sep-15 01:00     | 0.6              | 3.6       | Sep-04  | 0 / 0                |
| O <sub>3</sub> (ppb)                   |         |        |        |           |                  |                  |           |         |                      |
| PM <sub>2.5</sub> (µg/m <sup>3</sup> ) | 5.6     | 95.4%  | 78.9   | -         | Sep-17 20:00     | 28.3             | 28        | Sep-17  | - / 1                |



# SESAA - September 2019 Oxbow Station Report



## Elevated Reading Summary

| Date            | NO <sub>2</sub> | SO <sub>2</sub> | H <sub>2</sub> S | O <sub>3</sub> | PM <sub>2.5</sub> | WS  | WD    | Temp | RH   |
|-----------------|-----------------|-----------------|------------------|----------------|-------------------|-----|-------|------|------|
| 2019-09-15 1:00 | 2.7             | 1.1             | 1.0              | -              | 0.8               | 3.6 | 223.5 | 11.8 | 71.9 |

## Update Summary:

There was one 24-hr reading at the SEQG limit for particulate matter in the month of Sept 2019

The quarterly calibration was performed on Sept 11