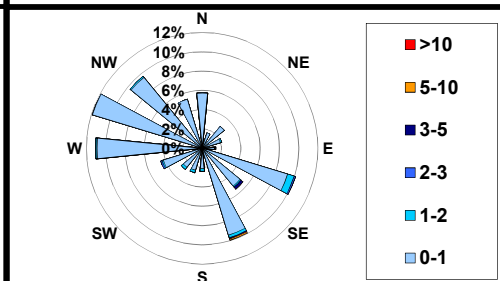
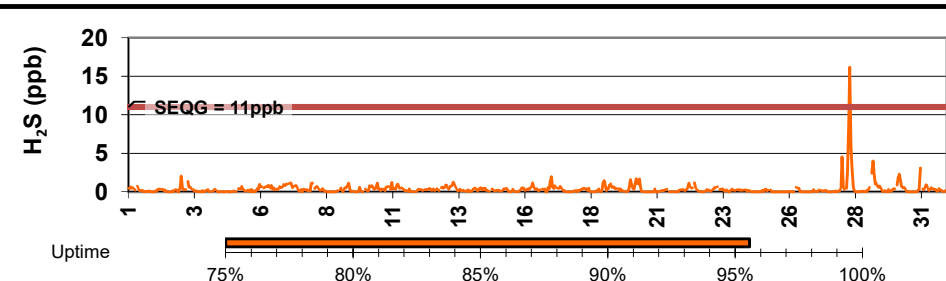
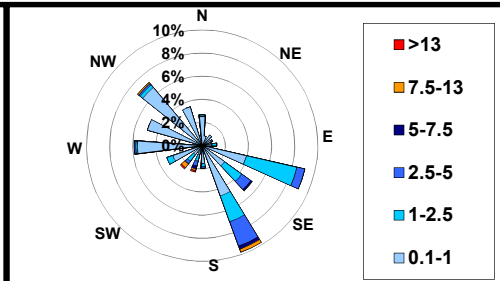
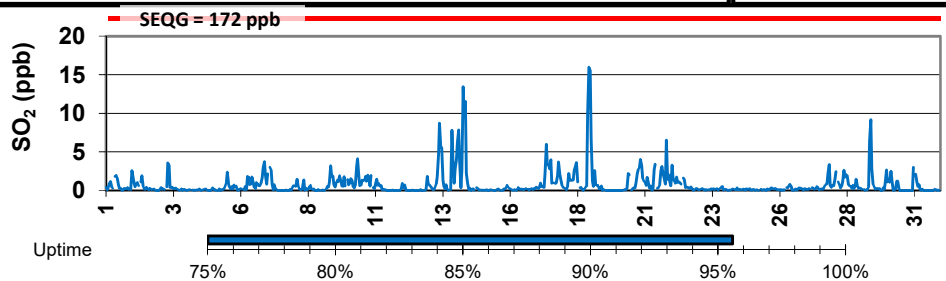
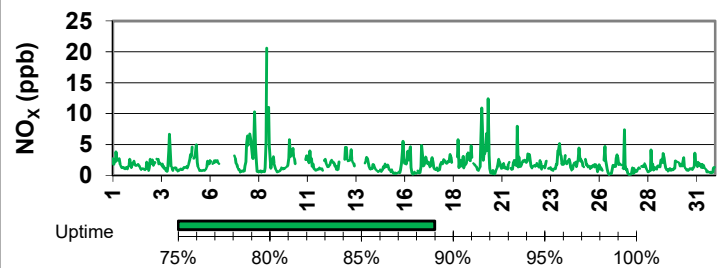
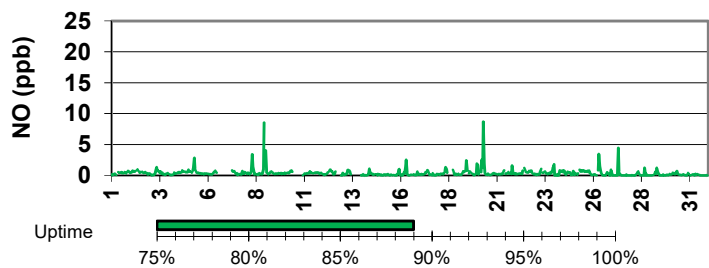
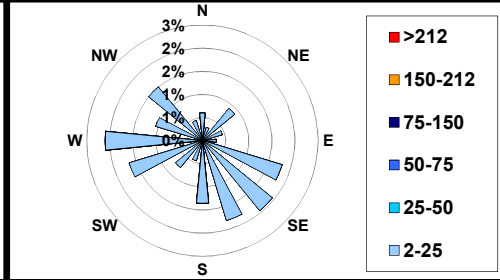
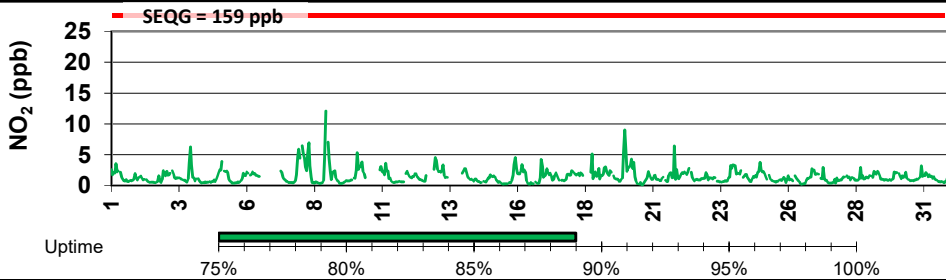
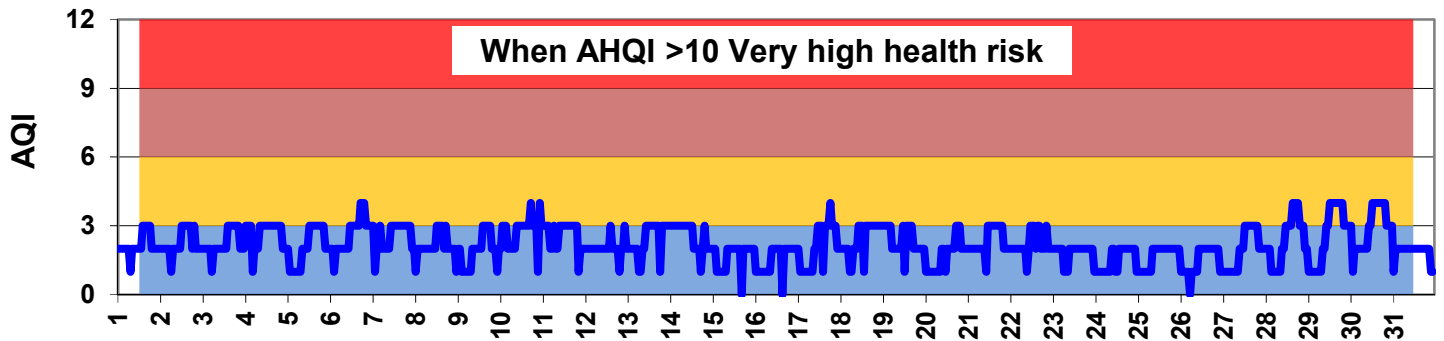
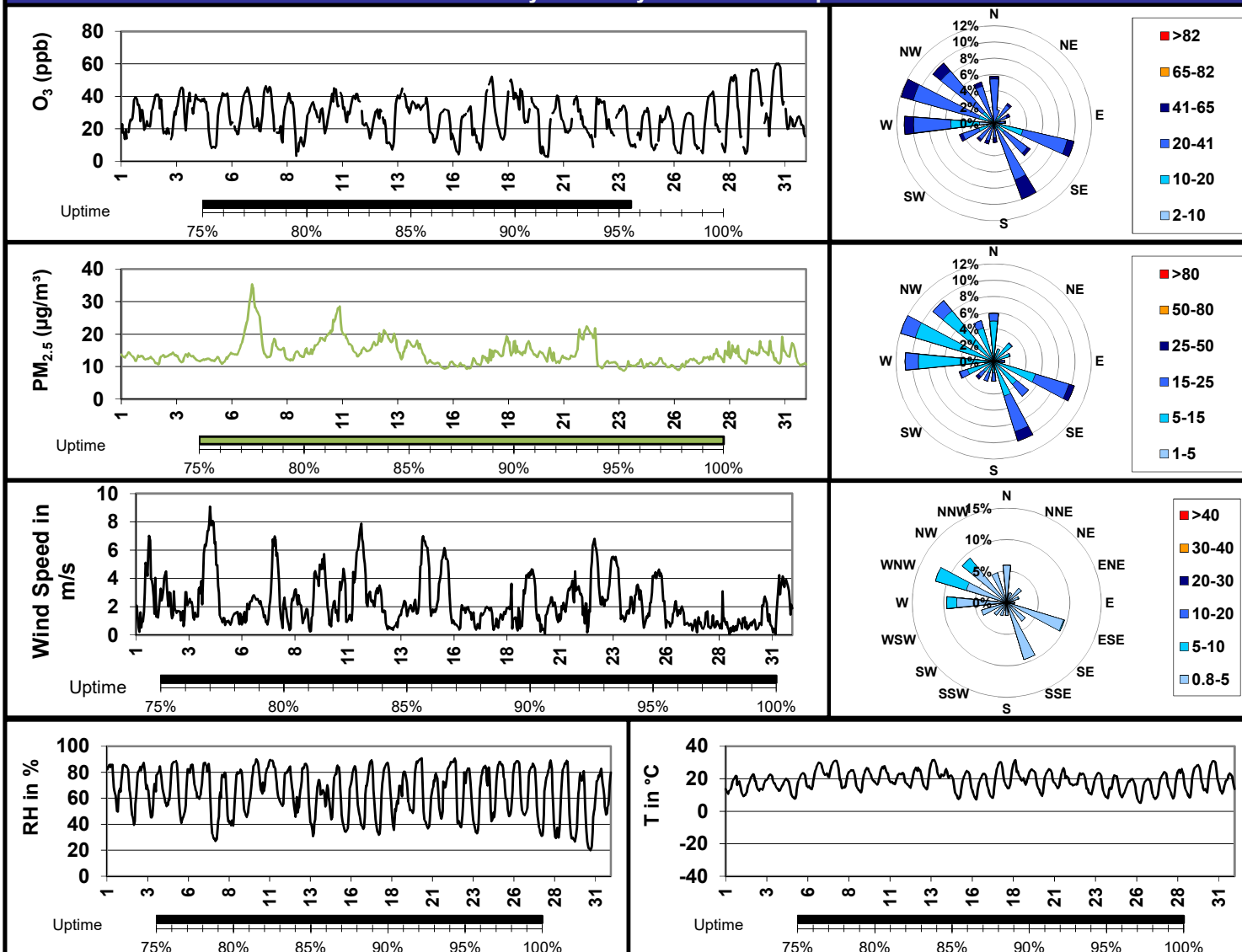


SESAA - July 2018 Weyburn Station Report

Parm	Average	Uptime	1-hour			8-hour / 24-hour			Exceed 1hr / 24hr
			Max	Objective	Max Day and Time	Max	Objective	Max Day	
NO (ppb)	0.4	89.0%	8.7	-	Jul-20 07:00	0.9	-	Jul-20	- / -
NO ₂ (ppb)	1.5	89.0%	12.1	159	Jul-08 22:00	2.5	106	Jul-08	0 / 0
NO _x (ppb)	1.9	89.0%	20.6	-	Jul-08 22:00	3.3	-	Jul-08	- / -
SO ₂ (ppb)	0.8	95.6%	16.0	172	Jul-18 22:00	2.7	-	Jul-14	0 / 0
H ₂ S (ppb)	0.4	95.6%	16.2	11	Jul-28 07:00	1.8	3.6	Jul-28	1 / 0
O ₃ (ppb)	27.7	95.6%	60.2	82	Jul-30 15:00	40.0	63	Jul-30	0 / 0
PM _{2.5} (µg/m ³)	14.1	100.0%	35.3	-	Jul-06 22:00	22.0	30	Jul-10	- / 0



SESAA - July 2018 Weyburn Station Report



Elevated Reading Summary

Date	NO ₂	SO ₂	H ₂ S	O ₃	PM _{2.5}	WS	WD	Temp	RH
7/28/2018 7:00	0.9	0.6	16.16	5.5	14.9	0.5	85.4	9.2	86.9

Update Summary:

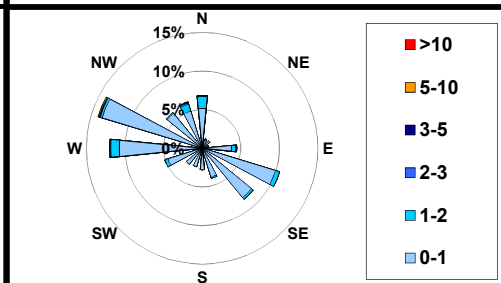
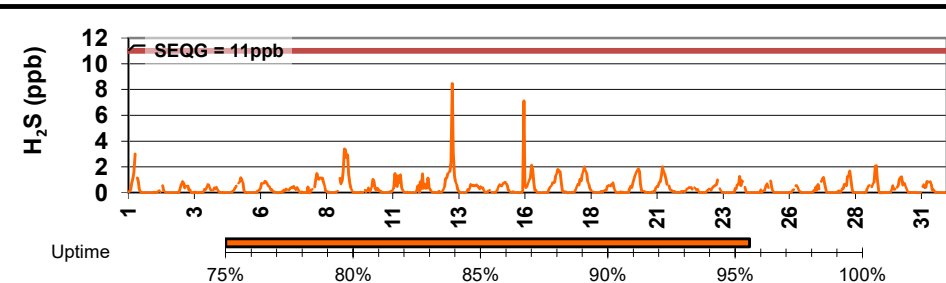
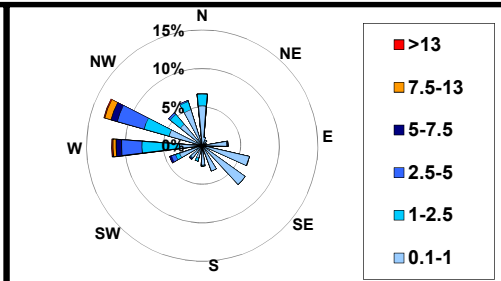
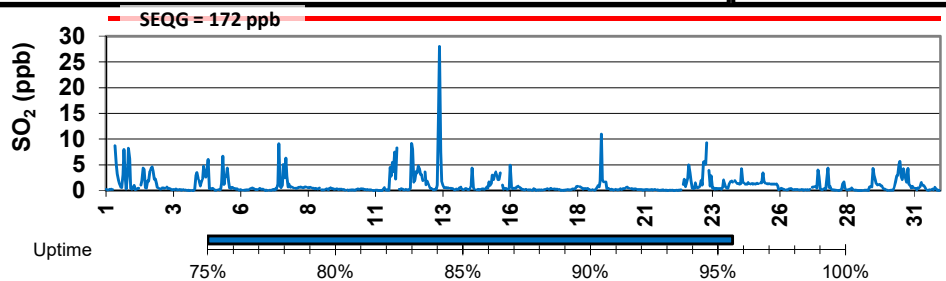
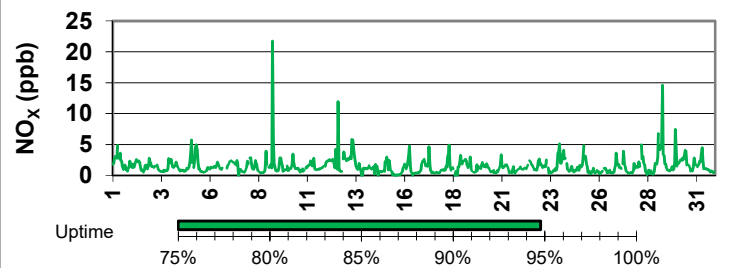
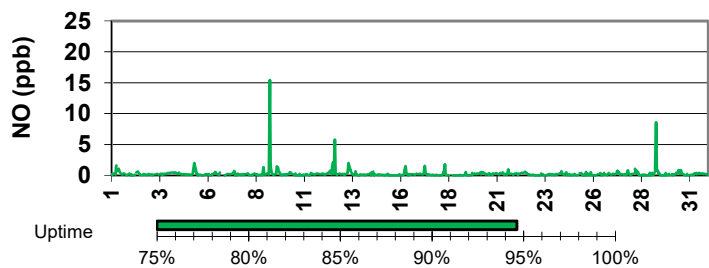
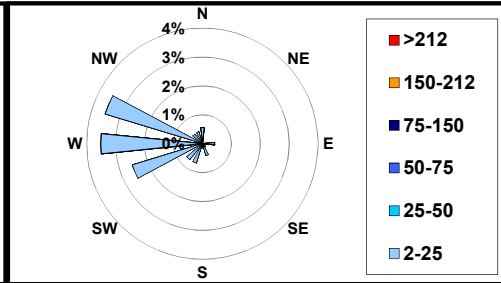
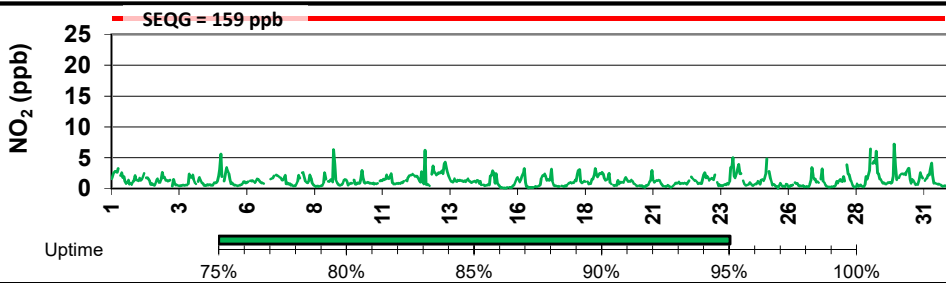
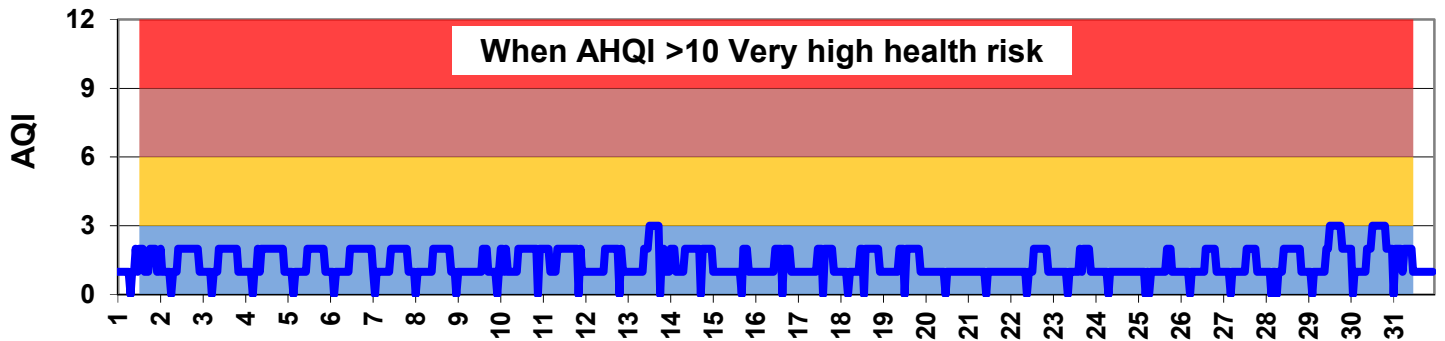
There was one exceedance during calm windspeeds

The nitrogen parameters experienced high fluctuations in data (extreme positive and negative values) this was removed in the Quality Assurance / Quality Control process resulting in uptime at 89%

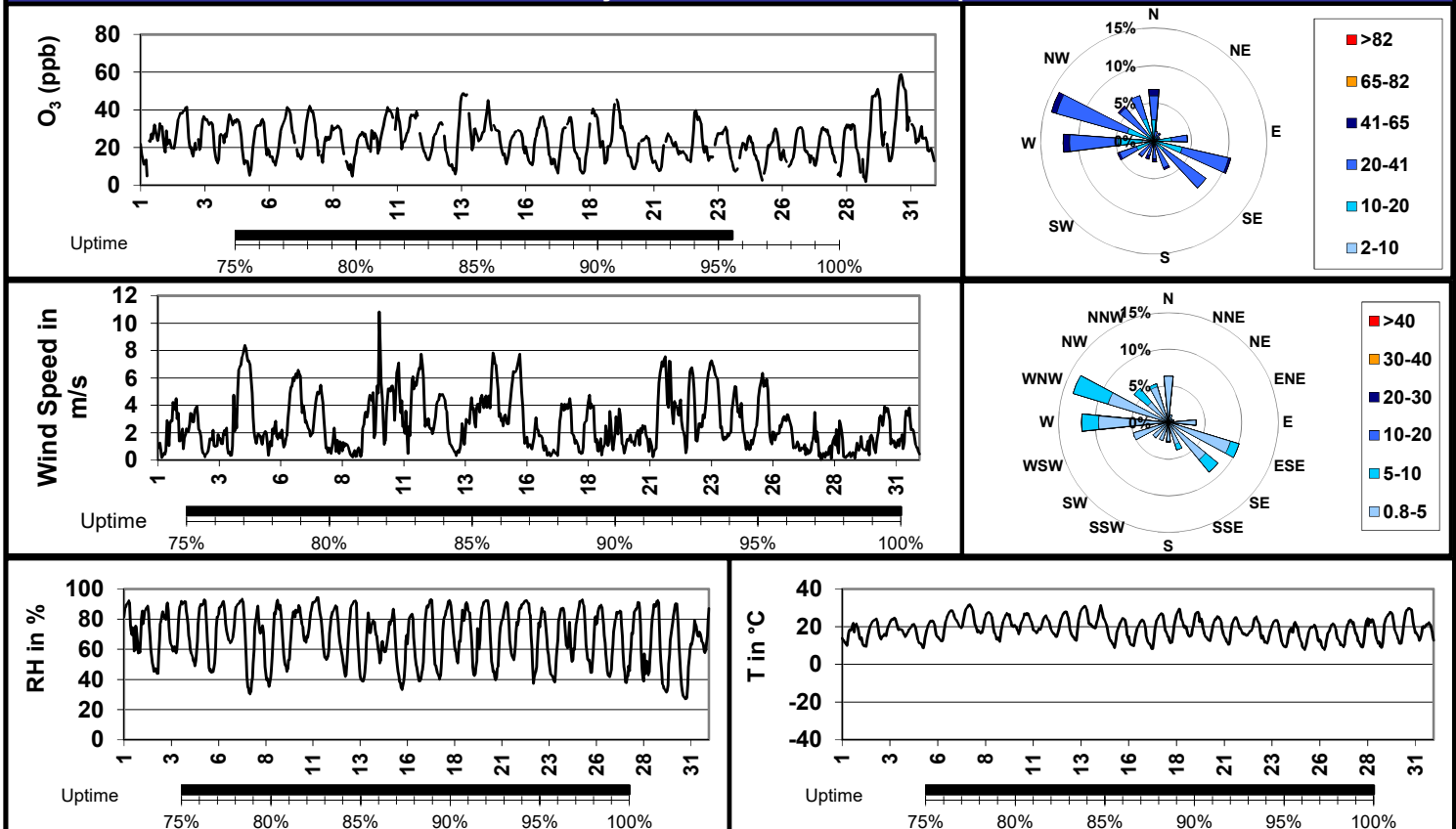
Data showed a low Air Quality Health Index for the month

SESAA - July 2018 Glen Ewen Station Report

Parm	Average	Uptime	1-hour			8-hour / 24-hour			Exceed 1hr / 24hr
			Max	Objective	Max Day and Time	Max	Objective	Max Day	
NO (ppb)	0.3	94.6%	15.4	-	Jul-09 05:00	1.0	-	Jul-09	- / -
NO ₂ (ppb)	1.3	95.0%	7.2	159	Jul-29 22:00	2.4	106	Jul-29	0 / 0
NO _x (ppb)	1.5	94.8%	21.7	-	Jul-09 05:00	3.0	-	Jul-29	- / -
SO ₂ (ppb)	1.0	95.6%	28.0	172	Jul-13 09:00	2.5	-	Jul-13	0 / 0
H ₂ S (ppb)	0.4	95.6%	8.5	11	Jul-13 06:00	1.1	3.6	Jul-13	0 / 0
O ₃ (ppb)	24.2	95.6%	58.7	82	Jul-30 15:00	34.7	63	Jul-30	0 / 0
PM _{2.5} (µg/m ³)									



SESAA - July 2018 Glen Ewen Station Report



Elevated Reading Summary

Date	NO ₂	SO ₂	H ₂ S	O ₃	PM _{2.5}	WS	WD	Temp	RH
7/13/2018 6:00	1.4	0.3	8.5	8.6	0.0	0.9	7.1	11.6	87.2

Update Summary:

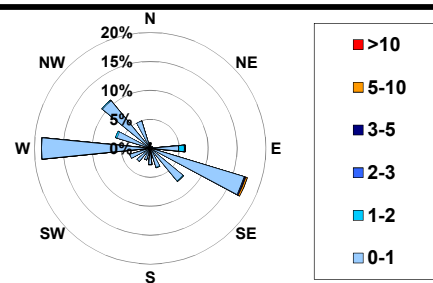
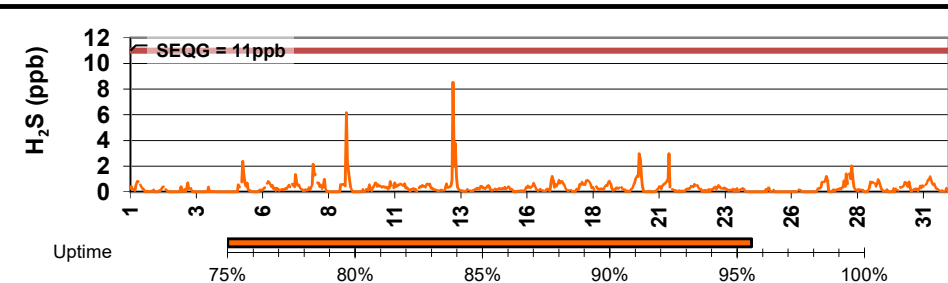
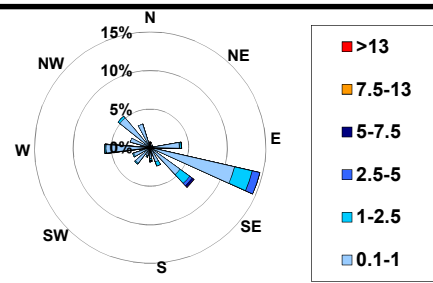
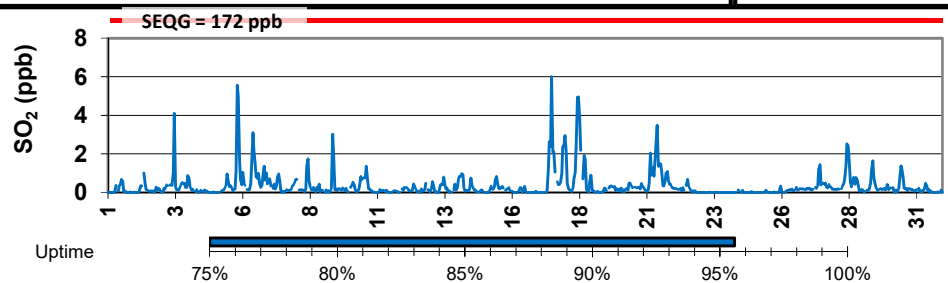
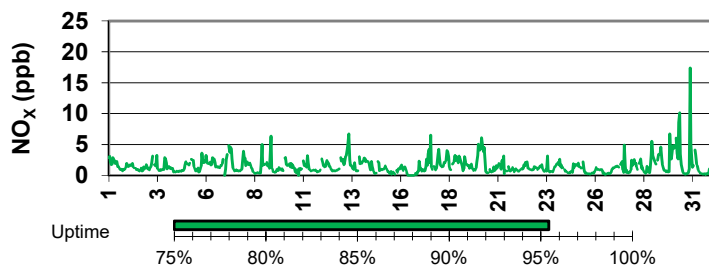
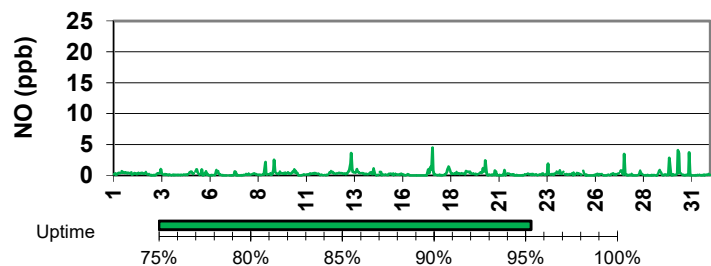
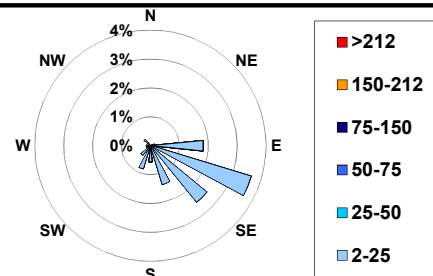
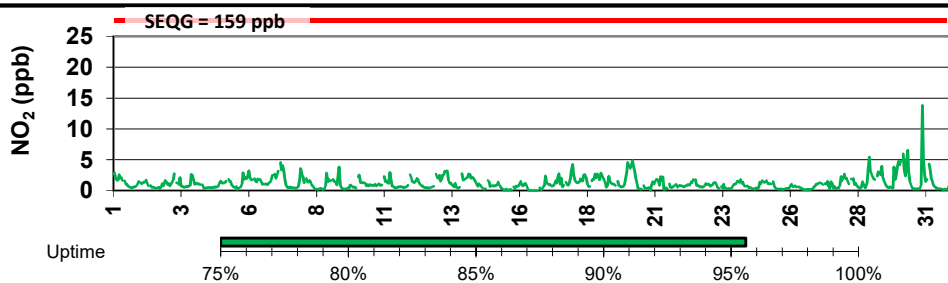
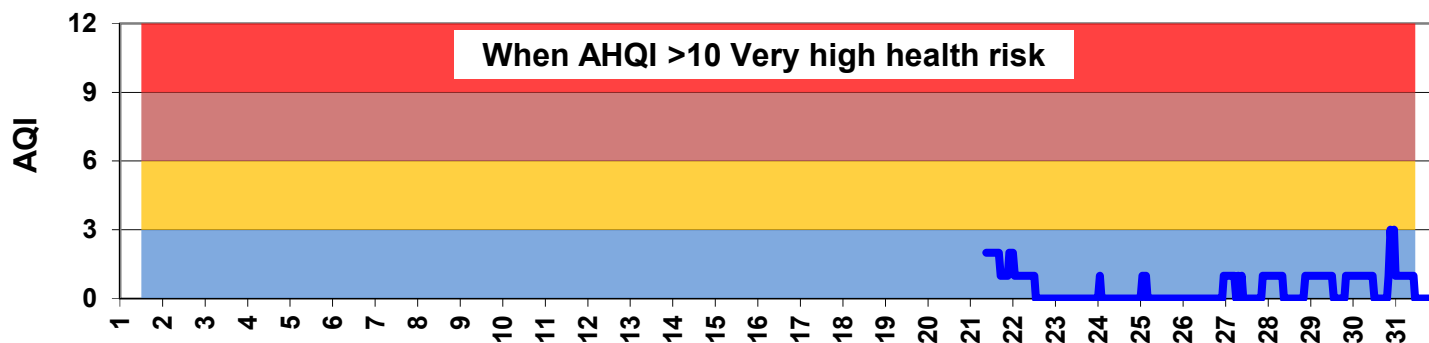
There were no exceedances during the month of July at the station

Equipment operated at 95% (this does not include daily zeros and spans). Nitrogen remains very low, hydrogen sulphide is showing daily readings and fluctuations above background

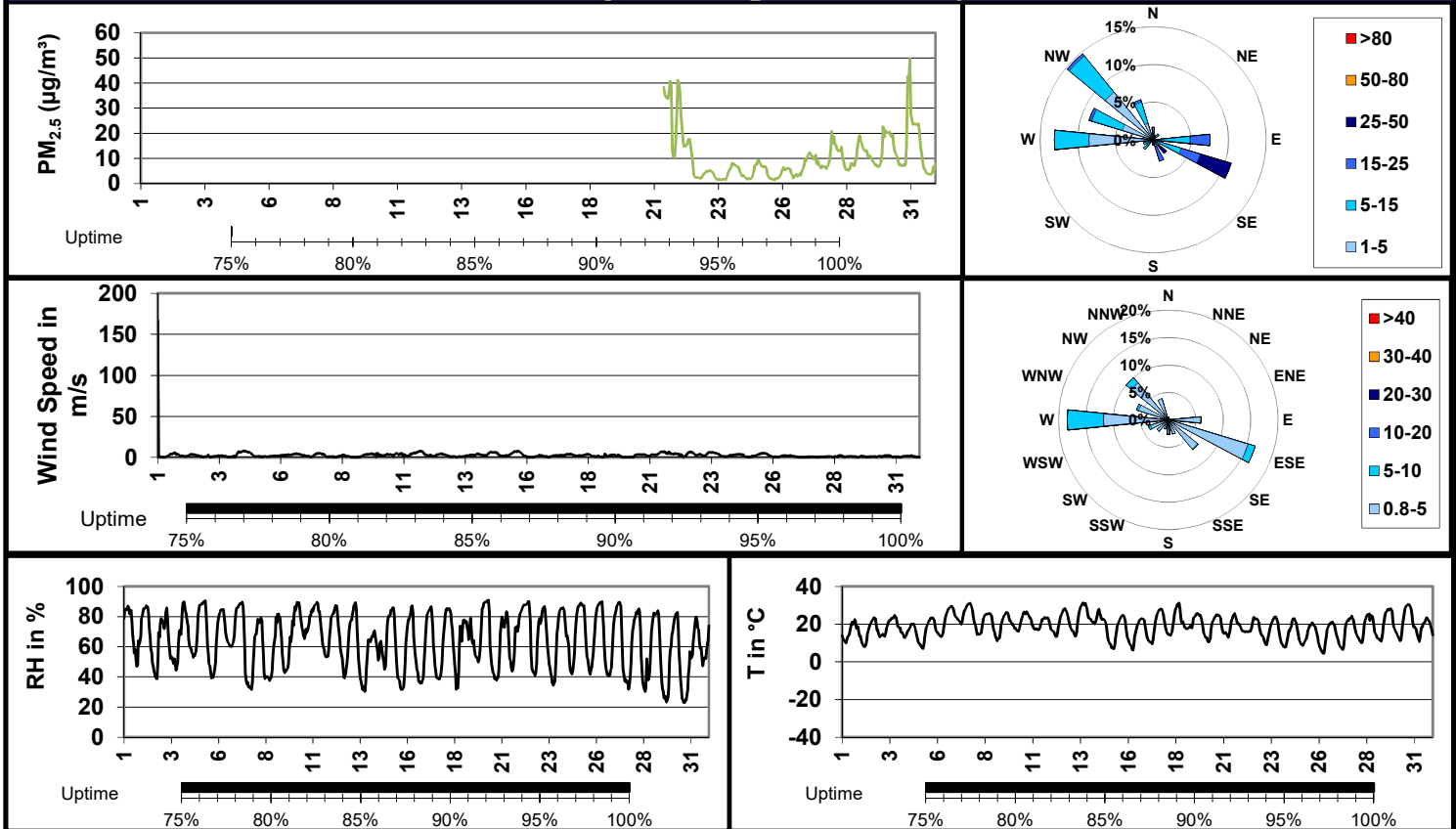
Data for the month showed a low AQHI for the month

SESAA - July 2018 Stoughton Station Report

Parm	Average	Uptime	1-hour			8-hour / 24-hour			Exceed 1hr / 24hr
			Max	Objective	Max Day and Time	Max	Objective	Max Day	
NO (ppb)	0.3	95.3%	4.5	-	Jul-17 13:00	0.7	-	Jul-13	- / -
NO ₂ (ppb)	1.2	95.6%	13.8	159	Jul-30 21:00	2.8	106	Jul-30	0 / 0
NO _x (ppb)	1.5	95.4%	17.4	-	Jul-30 21:00	3.3	-	Jul-30	- / -
SO ₂ (ppb)	0.4	95.6%	6.0	172	Jul-17 11:00	1.2	-	Jul-18	0 / 0
H ₂ S (ppb)	0.3	95.6%	8.5	11	Jul-13 05:00	0.8	3.6	Jul-13	0 / 0
O ₃ (ppb)									
PM _{2.5} (µg/m ³)	10.3	34.4%	49.7	-	Jul-30 23:00	18.8	30	Jul-21	- / 0



SESAA - July 2018 Stoughton Station Report



Elevated Reading Summary

Date	NO ₂	SO ₂	H ₂ S	O ₃	PM _{2.5}	WS	WD	Temp	RH
7/13/2018 5:00	2.6	0.0	8.5	-	0.0	0.7	101.5	13.7	88.6

Update Summary:

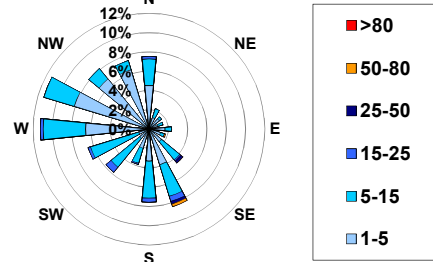
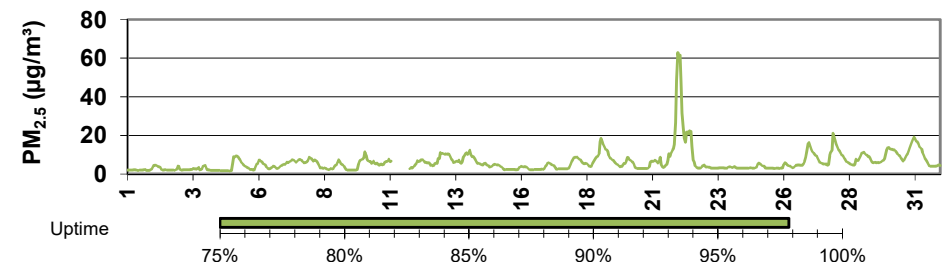
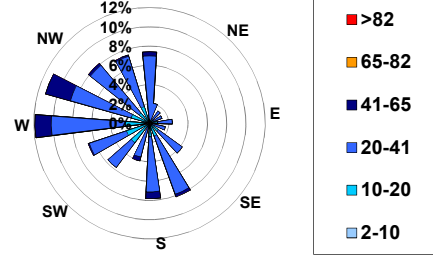
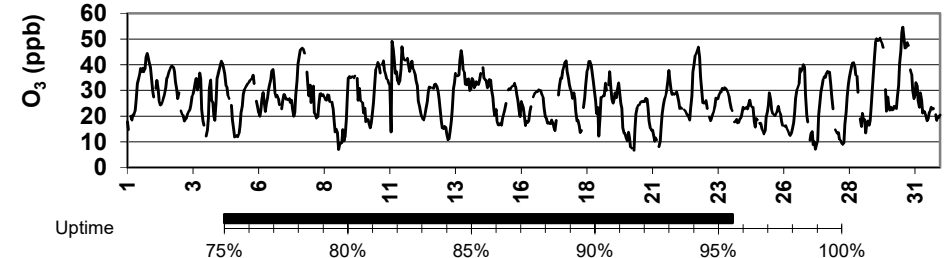
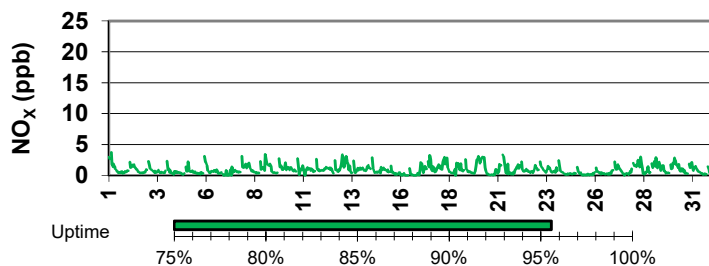
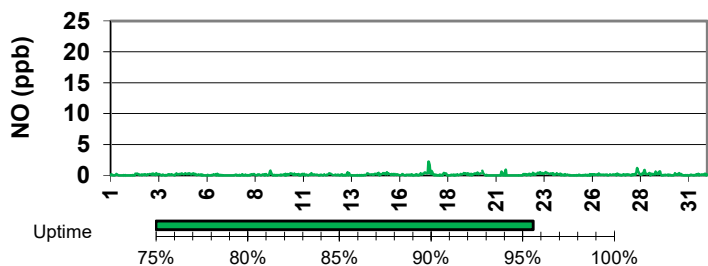
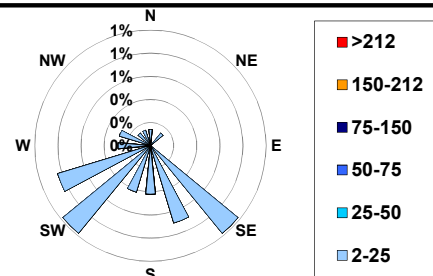
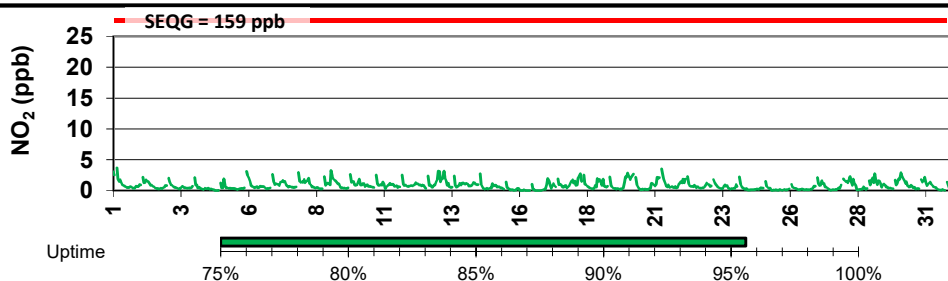
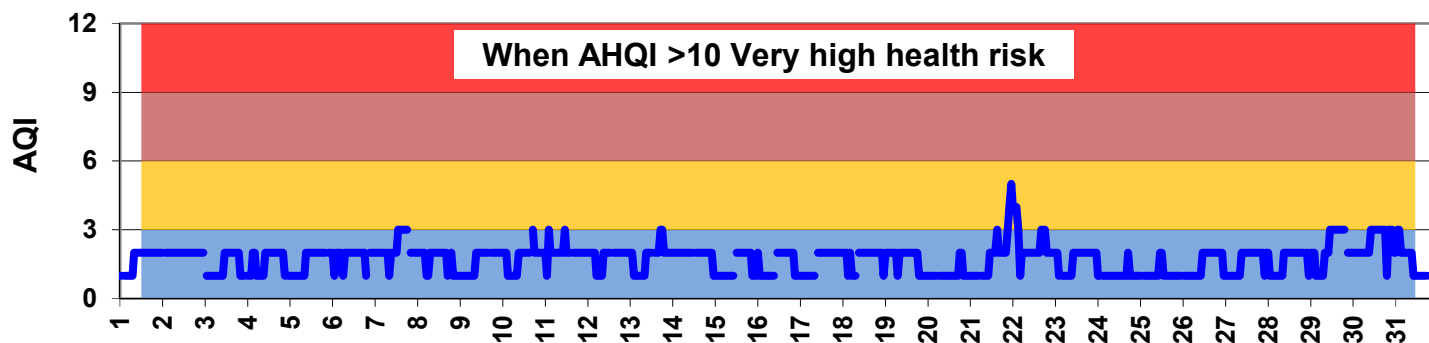
There were no exceedance in the month of July 2018, the maximum hydrogen sulphide was during calm period

The PM_{2.5} sharp analyzer was lost near the beginning of the month and was replaced with another unit part way into the month resulting in <35%, all other instruments remained >95%

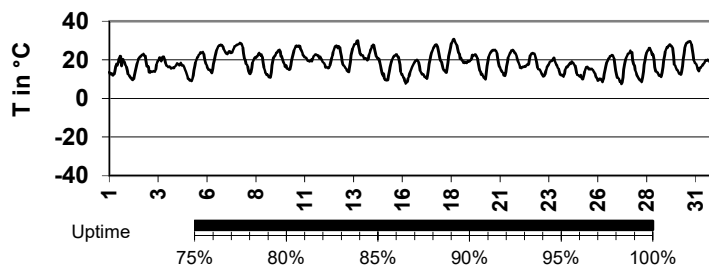
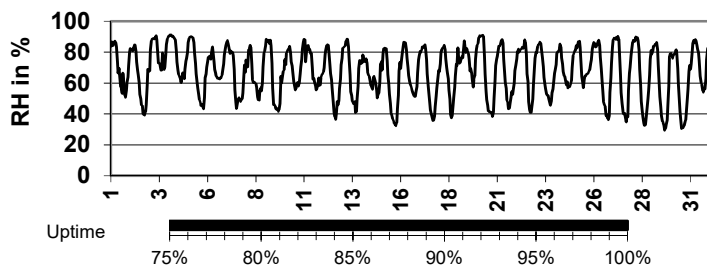
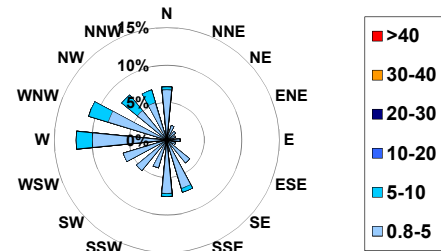
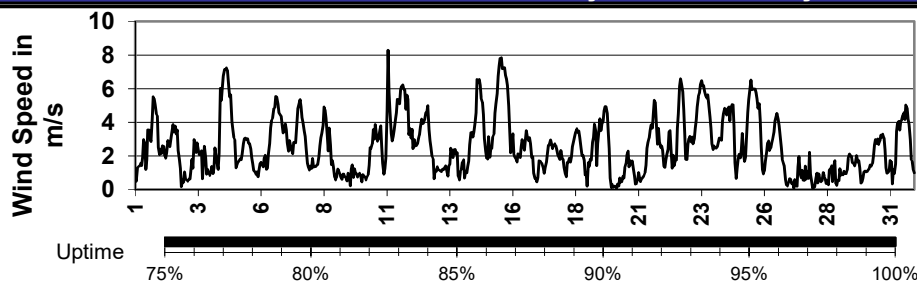
Data showed a low AQHI for the month (in the absence of ozone)

SESAA - July 2018 Estherhazy Station Report

Parm	Average	Uptime	1-hour			8-hour / 24-hour			Exceed 1hr / 24hr
			Max	Objective	Max Day and Time	Max	Objective	Max Day	
NO (ppb)	0.1	95.6%	2.2	-	Jul-17 12:00	0.4	-	Jul-17	- / -
NO ₂ (ppb)	0.8	95.6%	3.7	159	Jul-01 03:00	1.4	106	Jul-13	0 / 0
NO _x (ppb)	0.9	95.6%	3.7	-	Jul-01 03:00	1.4	-	Jul-13	- / -
SO ₂ (ppb)									
H ₂ S (ppb)									
O ₃ (ppb)	27.0	95.6%	54.6	82	Jul-30 13:00	36.7	63	Jul-11	0 / 0
PM _{2.5} (µg/m ³)	6.1	97.9%	63.0	-	Jul-21 23:00	17.9	30	Jul-22	- / 0



SESAA - July 2018 Estherhazy Station Report



Elevated Reading Summary

Date	NO ₂	SO ₂	H ₂ S	O ₃	PM _{2.5}	WS	WD	Temp	RH
7/21/2018 23:00	1.4	-	-	27.9	63.0	2.3	155.1	18.4	71.6

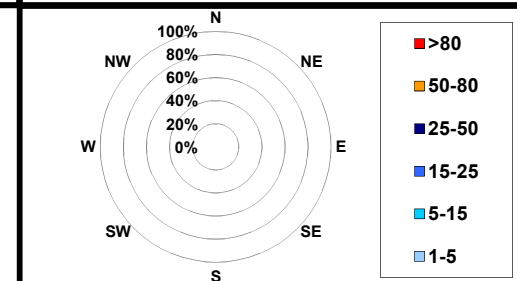
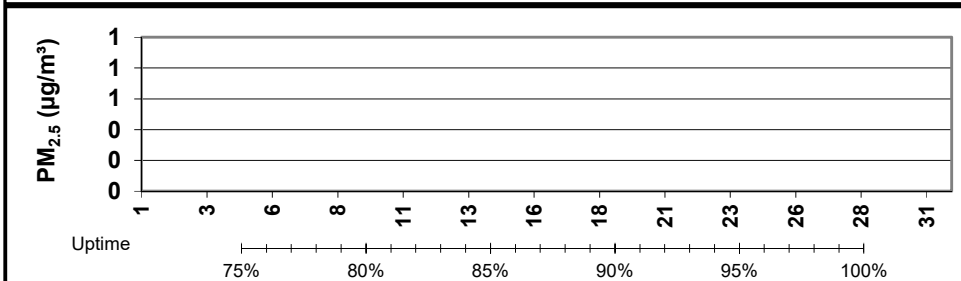
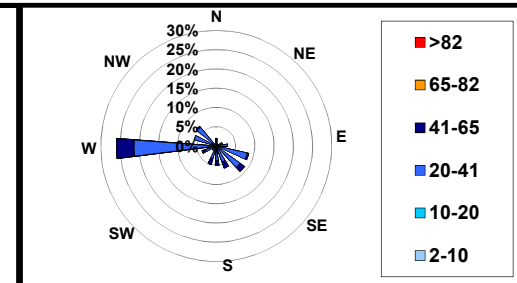
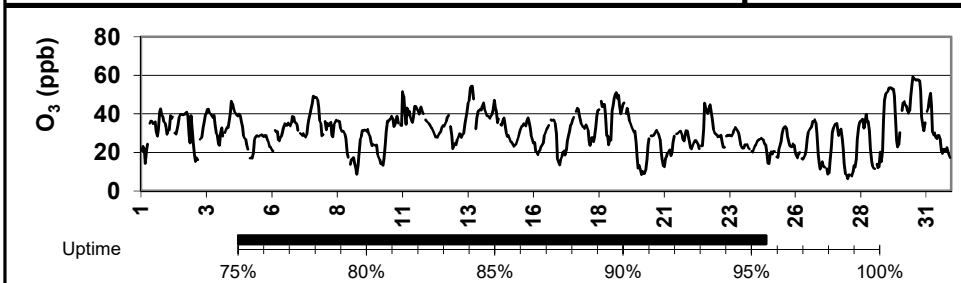
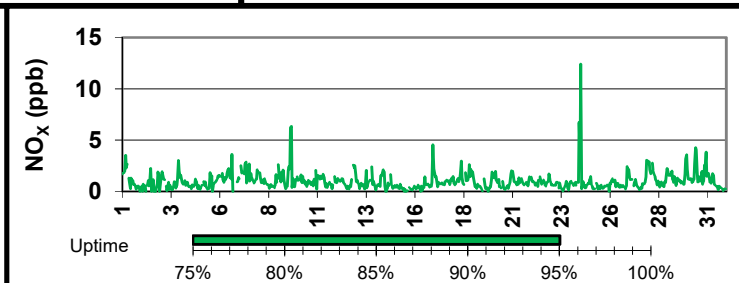
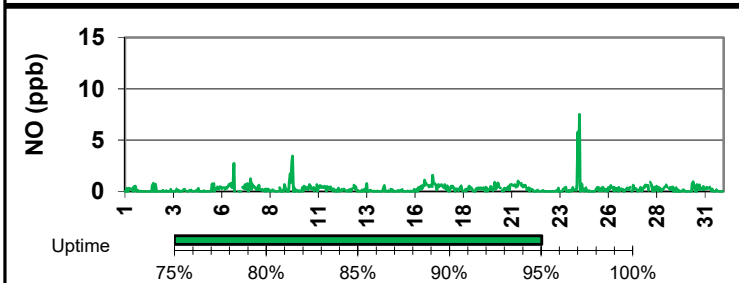
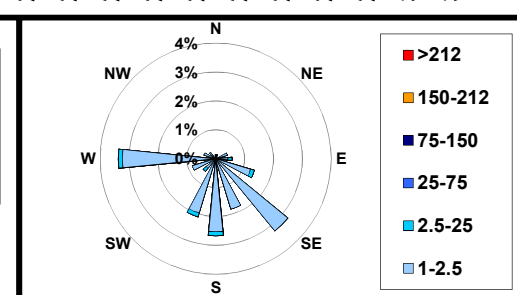
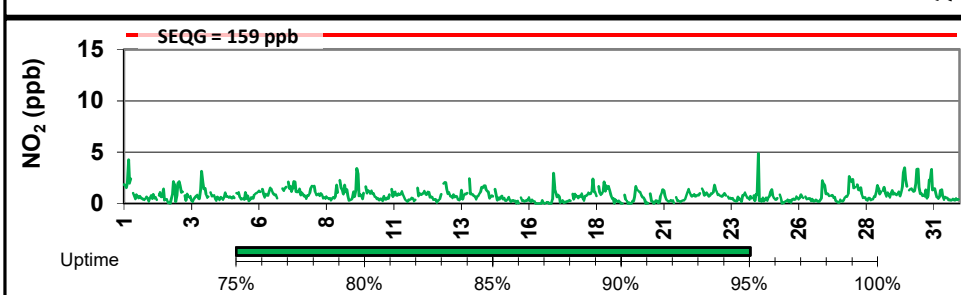
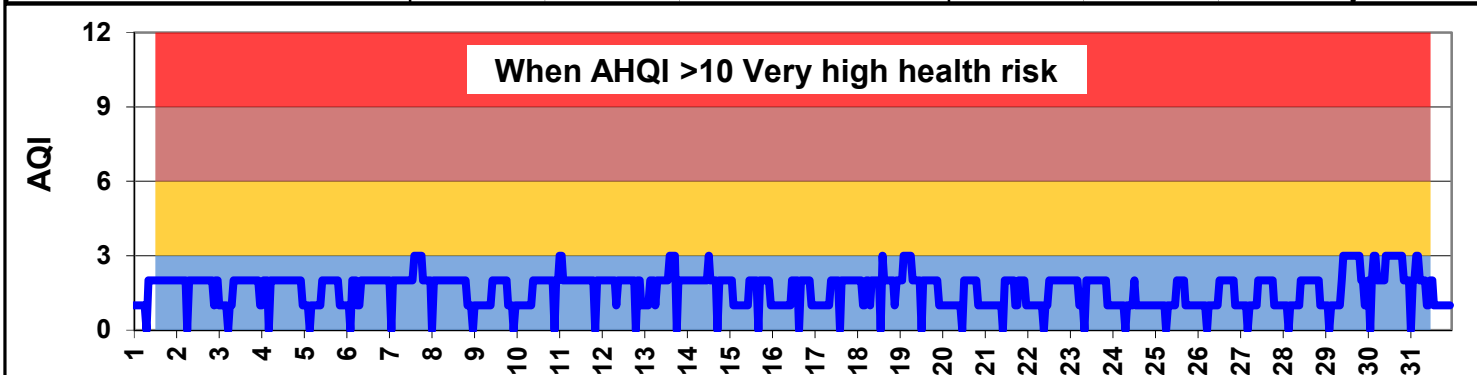
Update Summary:

There were no exceedences during the month of July 2018

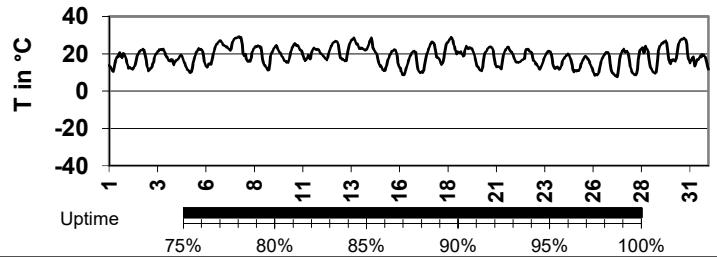
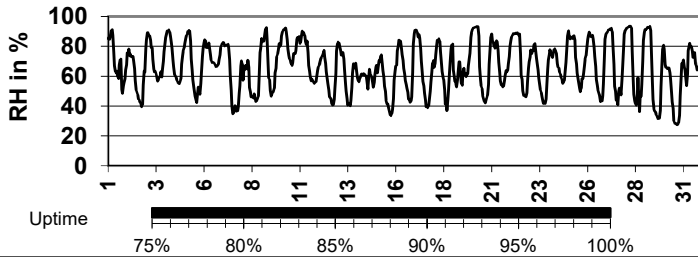
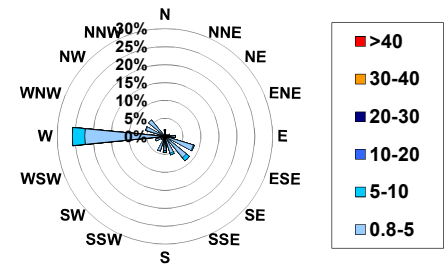
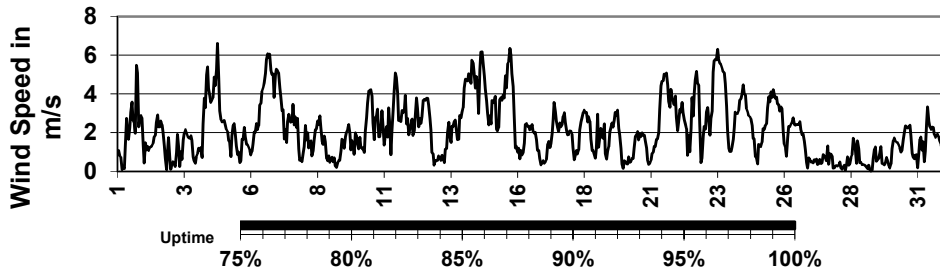
There was one elevated reading of PM_{2.5} which caused a small spike in the AQHI during the month, aside there were low readings for the AQHI for the month

SESAA - July 2018 Wawota Station Report

Parm	Average	Uptime	1-hour			8-hour / 24-hour			Exceed 1hr / 24hr
			Max	Objective	Max Day and Time	Max	Objective	Max Day	
NO (ppb)	0.2	95.0%	7.5	-	Jul-24 12:00	0.8	-	Jul-24	- / -
NO ₂ (ppb)	0.8	95.0%	4.8	159	Jul-24 12:00	1.5	106	Jul-30	0 / 0
NO _x (ppb)	1.0	95.0%	12.4	-	Jul-24 12:00	1.7	-	Jul-30	- / -
O ₃ (ppb)	30.7	95.6%	59.3	82	Jul-30 12:00	44.9	63	Jul-30	0 / 0
PM _{2.5} (µg/m ³)									



SESAA - July 2018 Wawota Station Report



Elevated Reading Summary

Date	NO ₂	SO ₂	H ₂ S	O ₃	PM _{2.5}	WS	WD	Temp	RH
7/30/2018 12:00	0.9	-	-	59.3	-	2.0	270.0	27.1	30.2

Update Summary

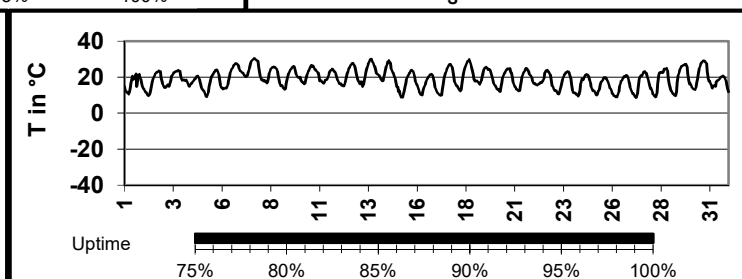
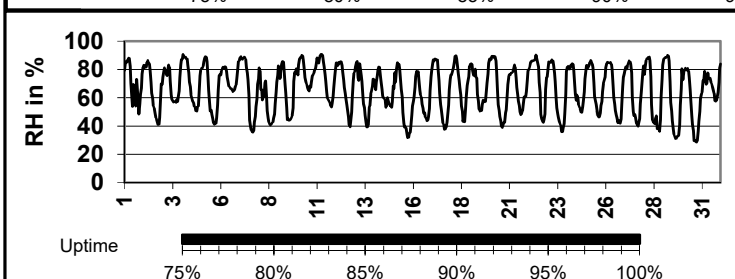
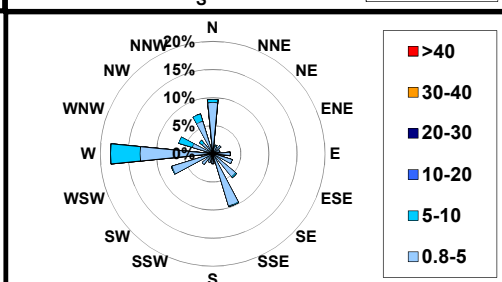
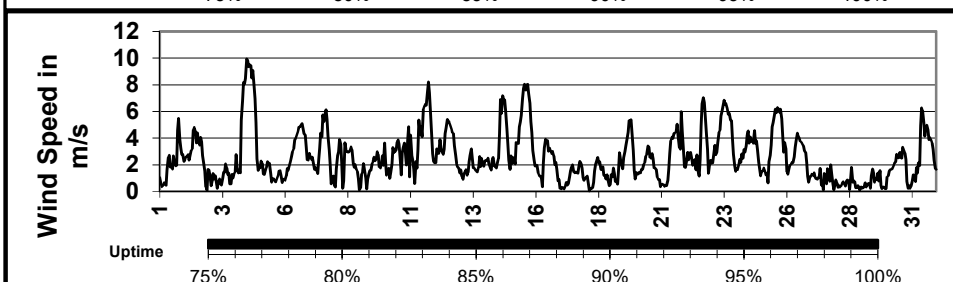
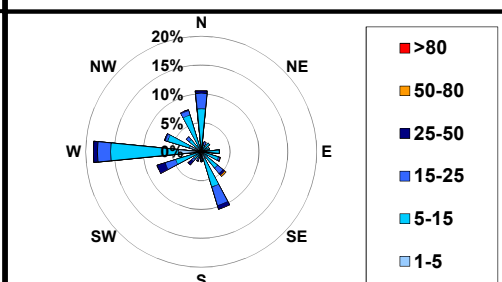
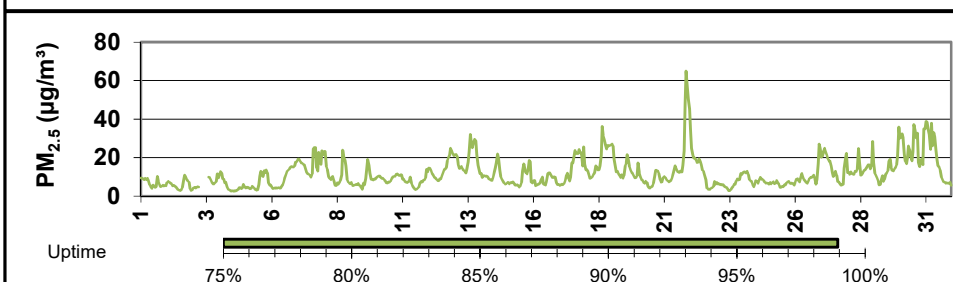
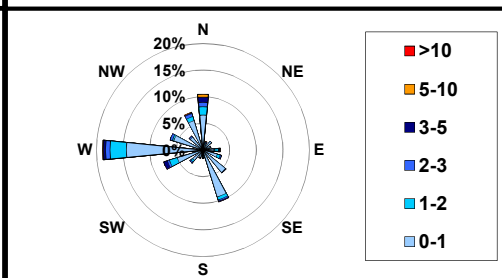
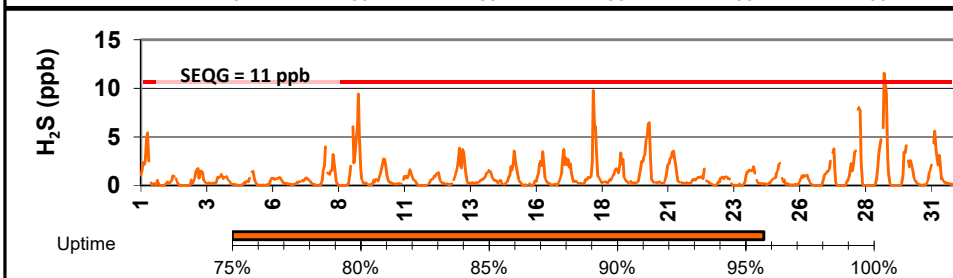
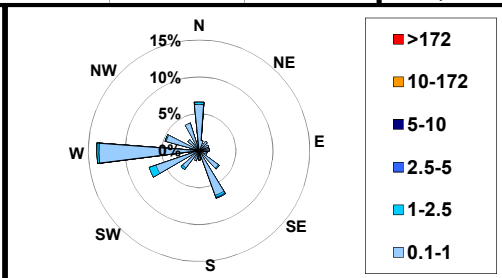
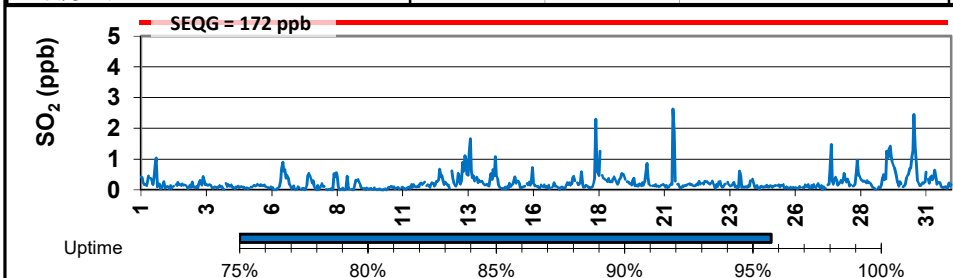
There were no exceedences during the month of July 2018

Equipment operated well with uptime above 95%, with the exception of PM2.5 which is being serviced

Data for the month showed a low AQHI for the month

SESAA - July 2018 Wauchope Station Report

Parm	Average	Uptime	1-hour			8-hour / 24-hour			Exceed 1hr / 24hr
			Max	Objective	Max Day and Time	Max	Objective	Max Day	
SO ₂ (ppb)	0.2	95.7%	2.6	172	Jul-21 08:00	0.5	-	Jul-30	0 / 0
H ₂ S (ppb)	0.9	95.7%	11.5	11	Jul-29 05:00	2.4	3.6	Jul-29	1 / 0
PM _{2.5} (µg/m ³)	11.9	98.9%	64.9	-	Jul-21 20:00	25.1	30	Jul-30	- / 0



Elevated Reading Summary

Date	NO ₂	SO ₂	H ₂ S	O ₃	PM _{2.5}	WS	WD	Temp	RH
7/29/2018 5:00	-	0.2	11.5	-	12.9	0.6	2.9	11.1	86.3

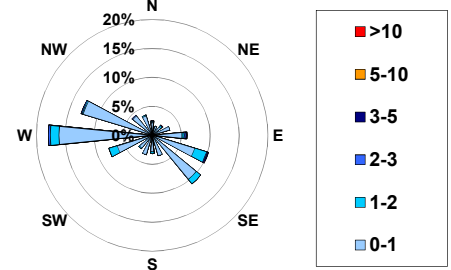
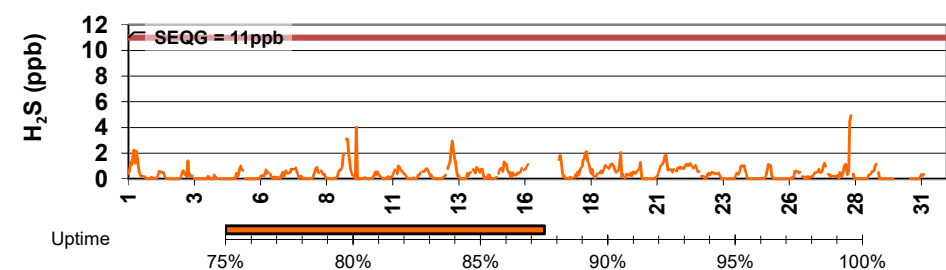
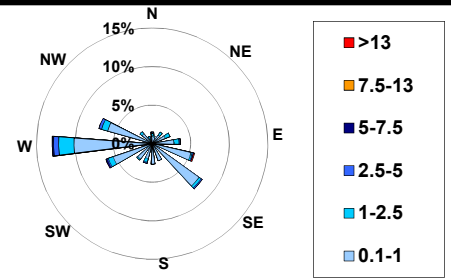
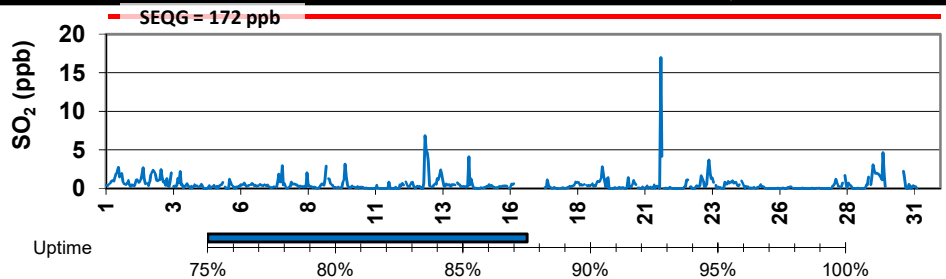
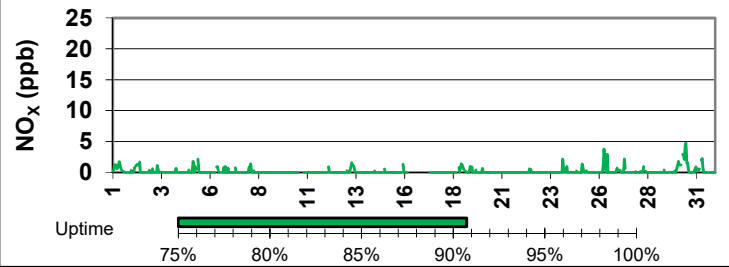
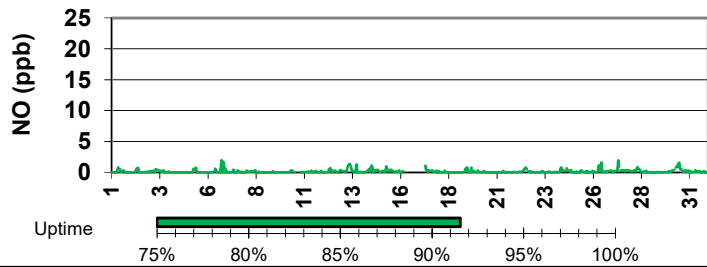
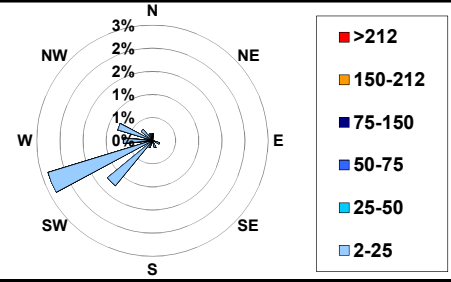
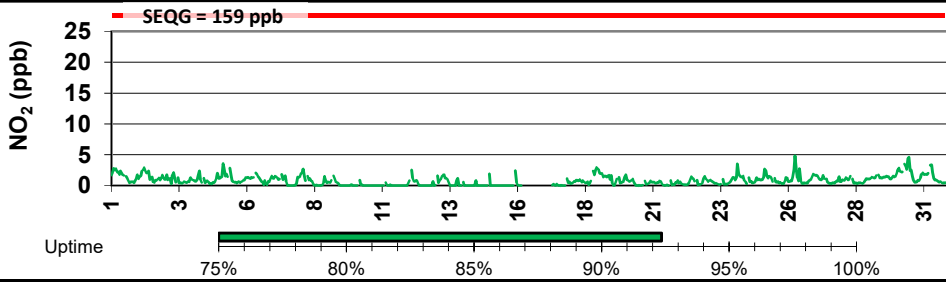
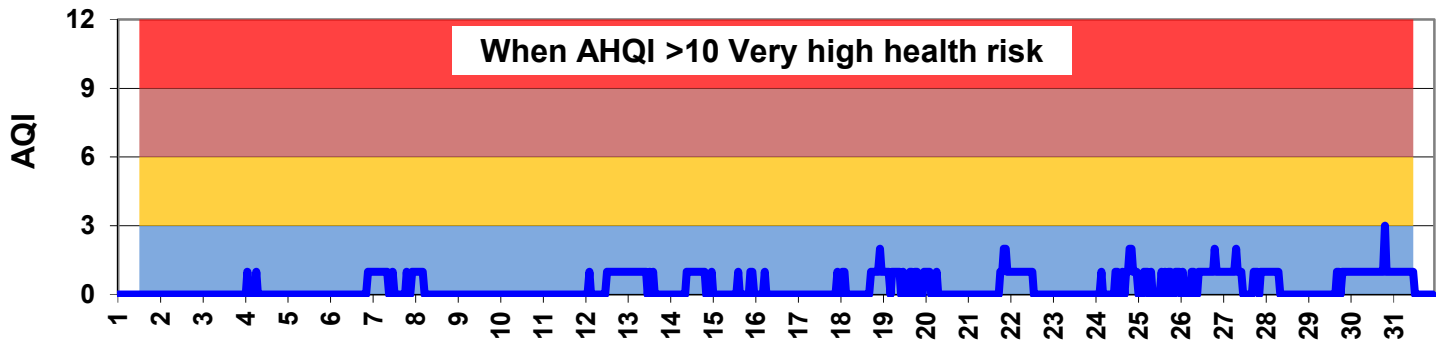
Update Summary:

There was one hydrogen sulphide exceedance during calm windspeeds

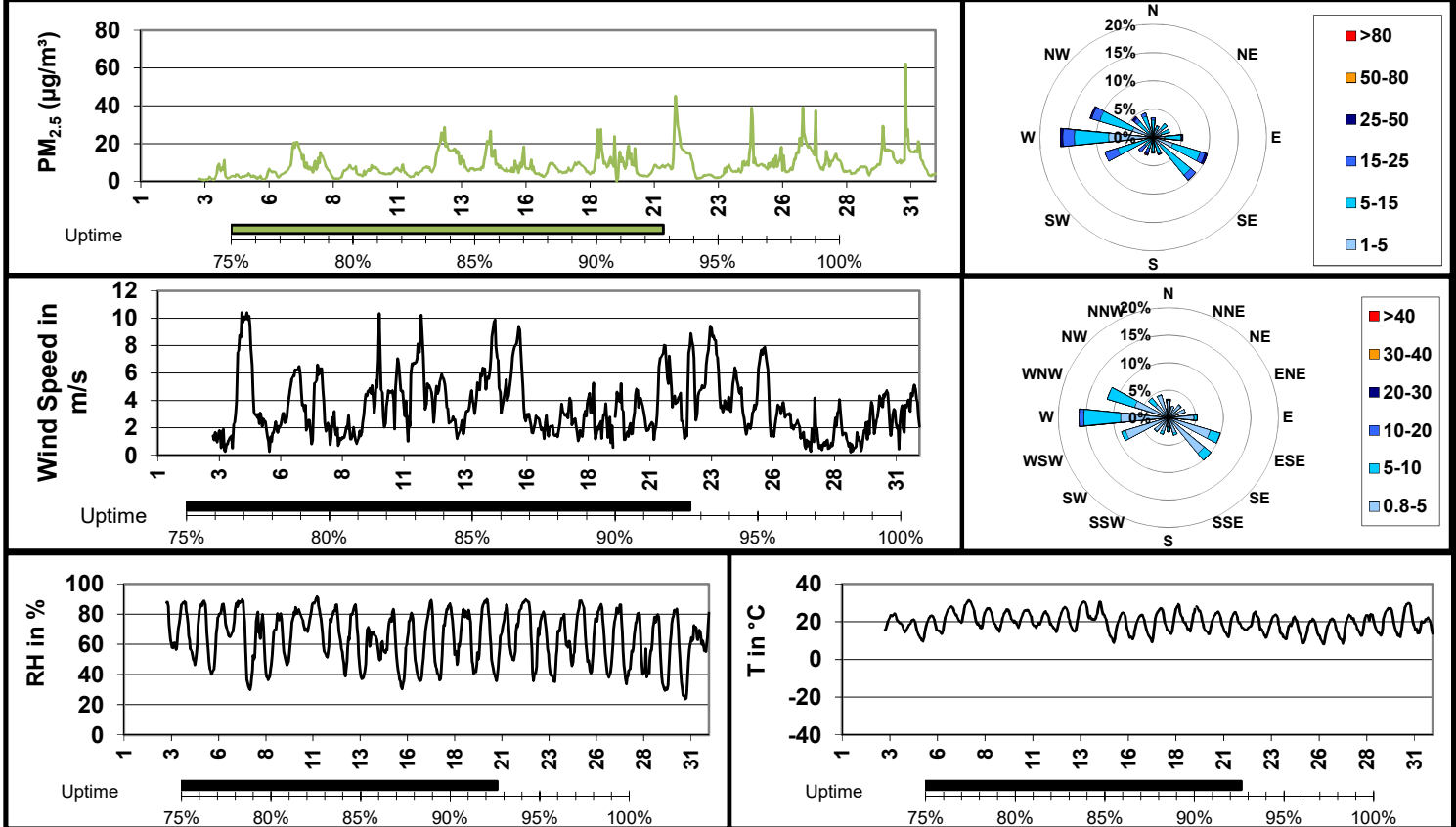
The nitrogen parameters experienced high fluctuations in data (extreme positive and negative values) this was removed in the QAQC process resulting in uptime at 89%. Data for the month showed a low AQHI for the month

SESAA - July 2018 Oxbow Station Report

Parm	Average	Uptime	1-hour			8-hour / 24-hour			Exceed 1hr / 24hr
			Max	Objective	Max Day and Time	Max	Objective	Max Day	
NO (ppb)	0.2	91.5%	2.0	-	Jul-06 17:00	0.4	-	Jul-30	- / -
NO ₂ (ppb)	0.8	92.3%	4.8	159	Jul-26 06:00	2.0	106	Jul-30	0 / 0
NO _x (ppb)	0.2	90.7%	4.7	-	Jul-30 11:00	1.2	-	Jul-30	- / -
SO ₂ (ppb)	0.5	87.5%	17.0	172	Jul-21 14:00	1.2	-	Jul-29	0 / 0
H ₂ S (ppb)	0.4	87.5%	4.9	11	Jul-28 08:00	0.9	3.6	Jul-09	0 / 0
O ₃ (ppb)									
PM _{2.5} (µg/m ³)	8.5	92.8%	62.3	-	Jul-30 19:00	16.5	30	Jul-30	- / 0



SESAA - July 2018 Oxbow Station Report



Elevated Reading Summary

Date	NO ₂	SO ₂	H ₂ S	O ₃	PM _{2.5}	WS	WD	Temp	RH
7/28/2018 8:00	0.0	0.7	4.9	-	7.1	0.6	12.2	17.3	66.5

Update Summary:

There were no exceedances during the month of July 2018

There was a loss of data at the beginning of the month and review showed fluctuations of missing data and system errors throughout the month. There were issues with equipment related to SO₂/H₂S consequentially several hours of data were removed in the QAQC process resulting in uptime at 88%.

Data showed a low AQHI for the month