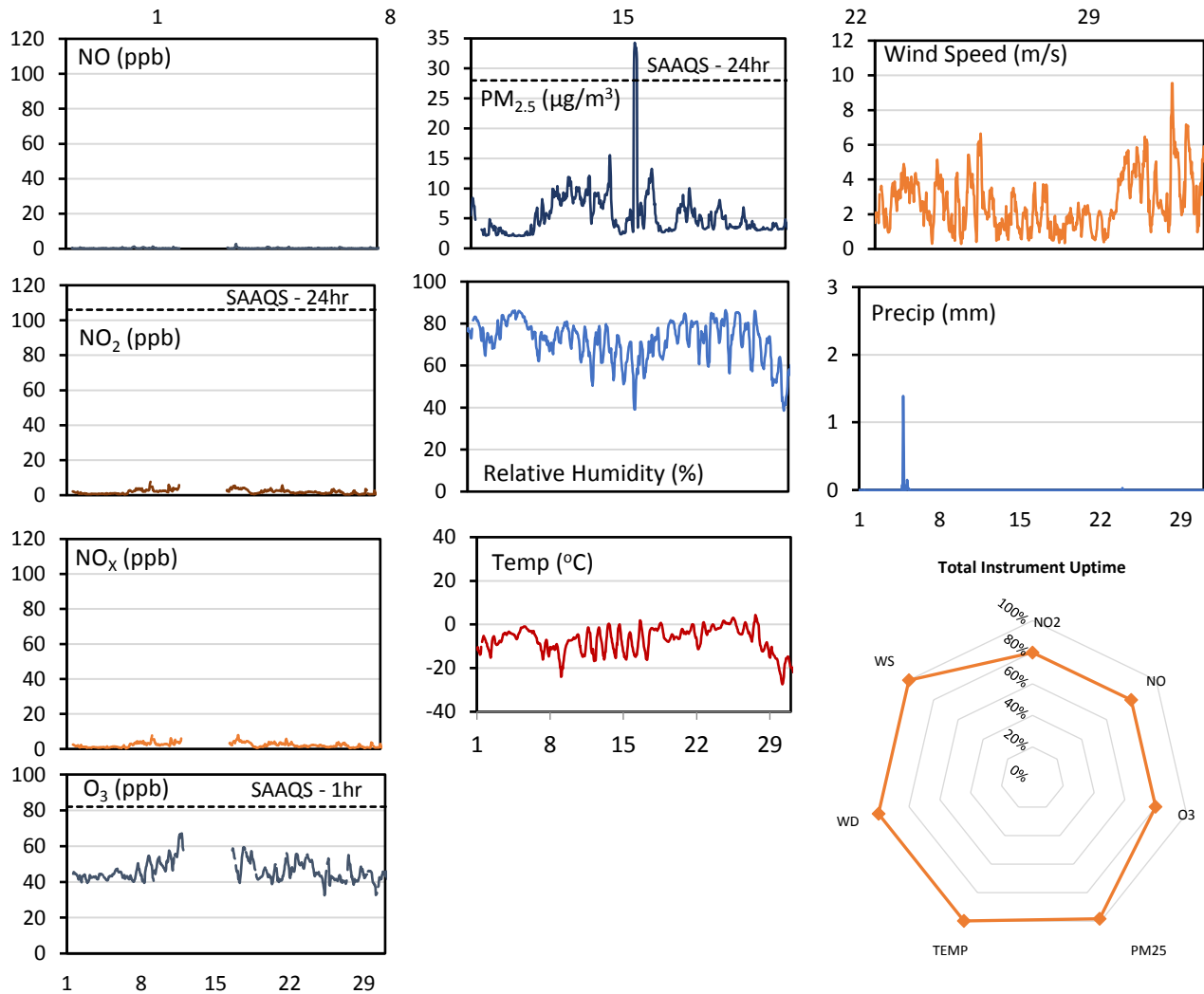
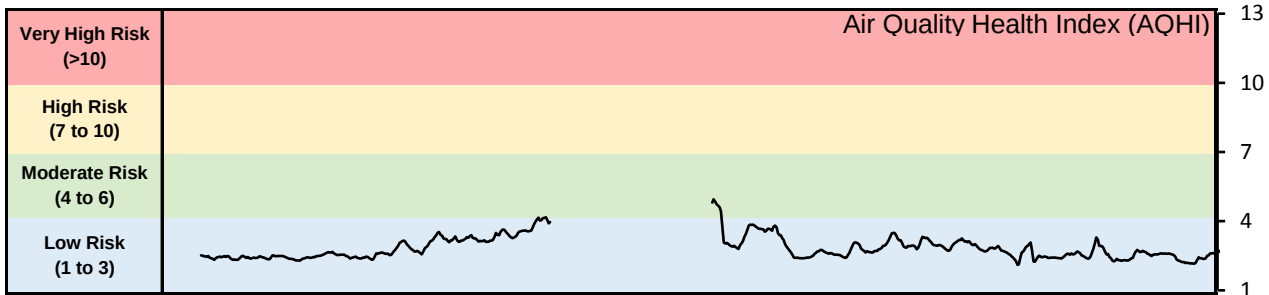


SESAA Esterhazy Station - March 2018 Summary Report

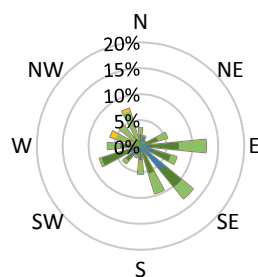
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Total Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Day			Conc.	Time		
NO	ppb	0.3	80%	0.6	Mar-17	-	-	2.8	Mar-17 10:00	-	-
NO ₂	ppb	1.9	80%	4.2	Mar-17	106	0	7.7	Mar-09 04:00	159	0
NO _x	ppb	2.1	80%	4.9	Mar-17	-	-	7.9	Mar-17 10:00	-	-
O ₃	ppb	46.0	80%	59.2	Mar-11	-	-	67.1	Mar-11 20:00	82	0
PM _{2.5}	µg/m ³	5.4	98%	14.3	Mar-16	28	0	34.3	Mar-16 15:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

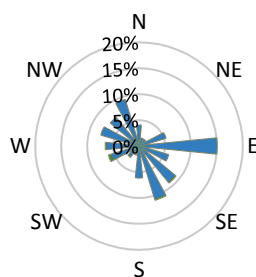


SESAA Esterhazy Station - March 2018 Summary Report

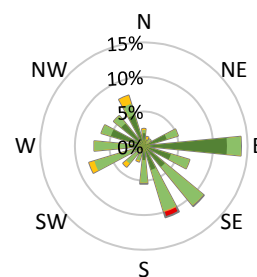
Wind Rose



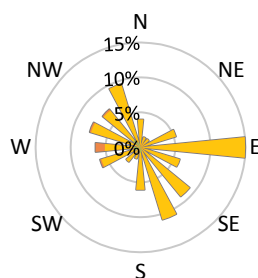
NO₂ Pollutant Rose



PM_{2.5} Pollutant Rose



O₃ Pollutant Rose



Parameters	Unit	Color Code for Wind Speed and Pollution Concentration Class						
Wind Speed	m/s	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$	
O ₃	ppb	$0 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 40$	$40 \leq C < 60$	$60 \leq C < 82$	$C \geq 82$	
NO ₂	ppb	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C < 212$	$C \geq 212$	
PM _{2.5}	ug/m ³	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

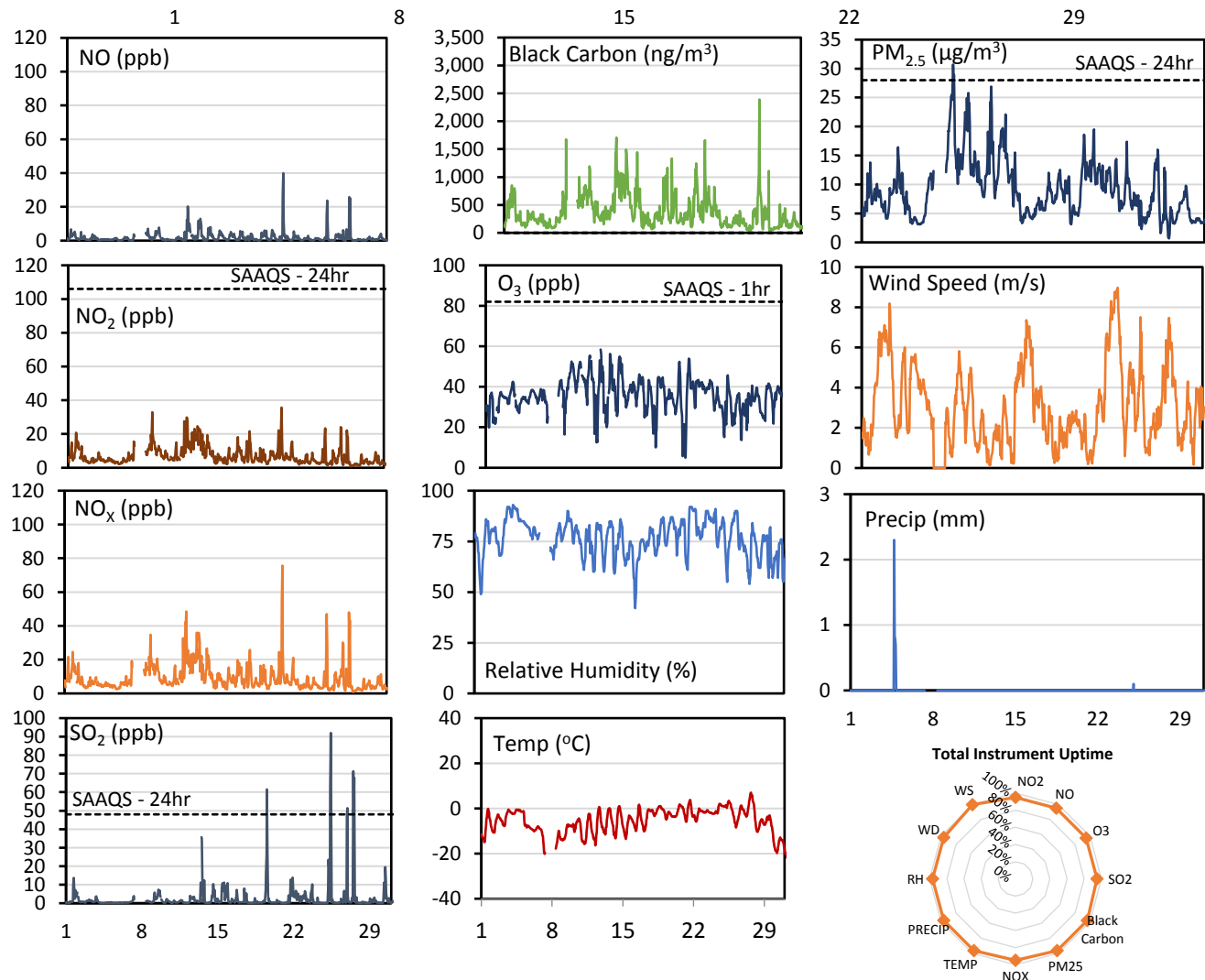
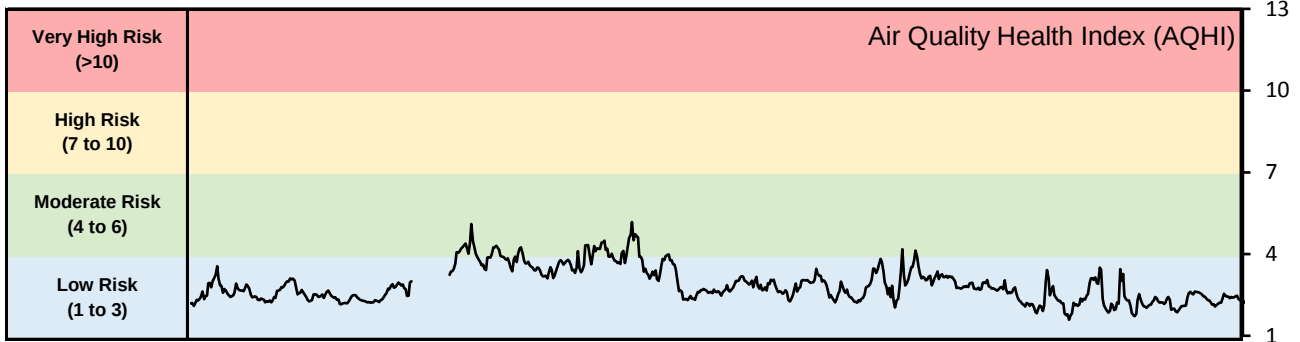
Monthly Update

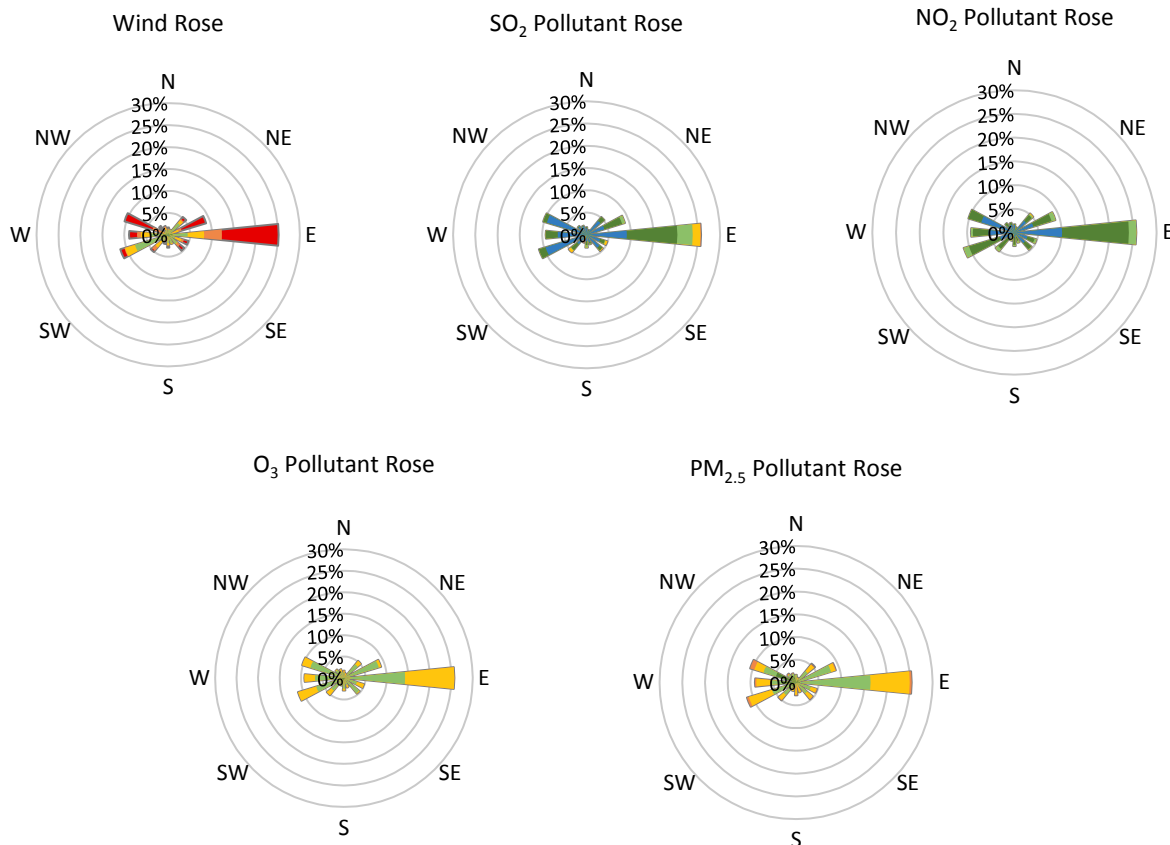
- Achieved 80% of scheduled uptime for all parameters except PM_{2.5} (98%)
- Downtime is a result of operational issues.

SESAA Estevan Station - March 2018 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.	Day			Conc.	Time		
NO	ppb	1.9	95%	5.2	Mar-12	-	-	39.9	Mar-21 07:00	-	-
NO ₂	ppb	6.8	95%	16.8	Mar-13	106	0	35.7	Mar-21 07:00	159	0
NO _x	ppb	8.7	95%	21.8	Mar-12	-	-	75.6	Mar-21 07:00	-	-
SO ₂	ppb	2.5	95%	11.6	Mar-25	48	0	92.0	Mar-25 10:00	172	0
Black Carbon	ng/m ³	362.0	97%	877.0	Mar-12	-	-	2389.0	Mar-26 19:00	-	-
O ₃	ppb	35.7	95%	45.1	Mar-10	-	-	58.4	Mar-12 16:00	82	0
PM _{2.5}	µg/m ³	8.9	97%	19.9	Mar-08	28	0	30.7	Mar-09 00:00	-	-

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 ₂	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172	
NO ₂	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212	
O ₃	ppb	0 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 40	40 ≤ C < 60	60 ≤ C < 82	C ≥ 82	
PM _{2.5}	µg/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30	

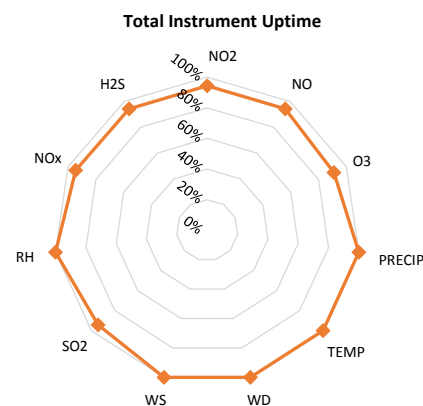
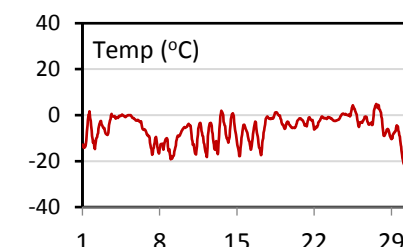
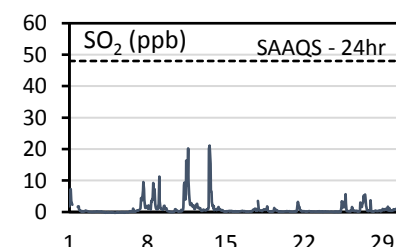
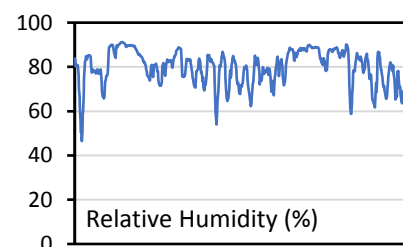
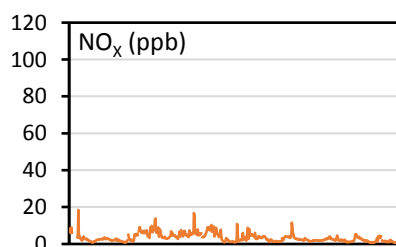
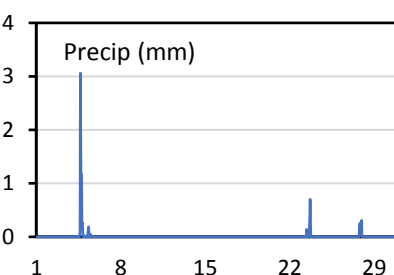
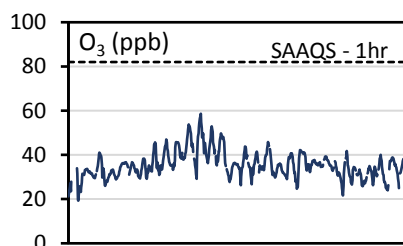
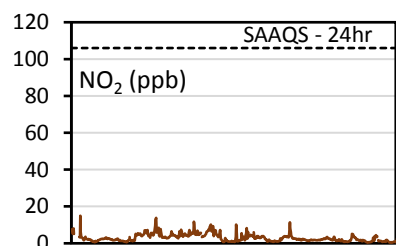
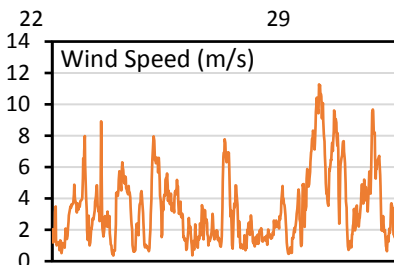
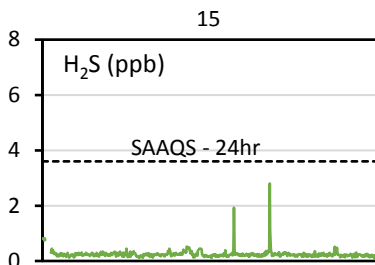
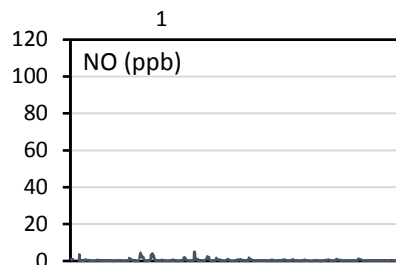
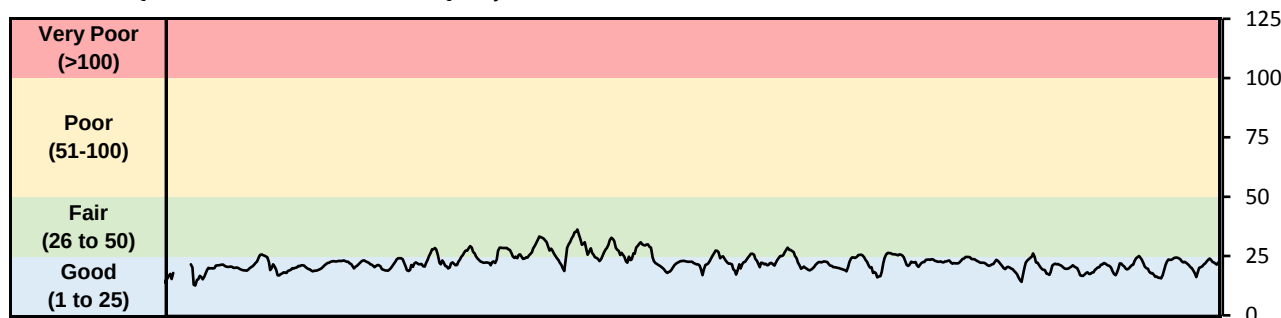
Monthly Update

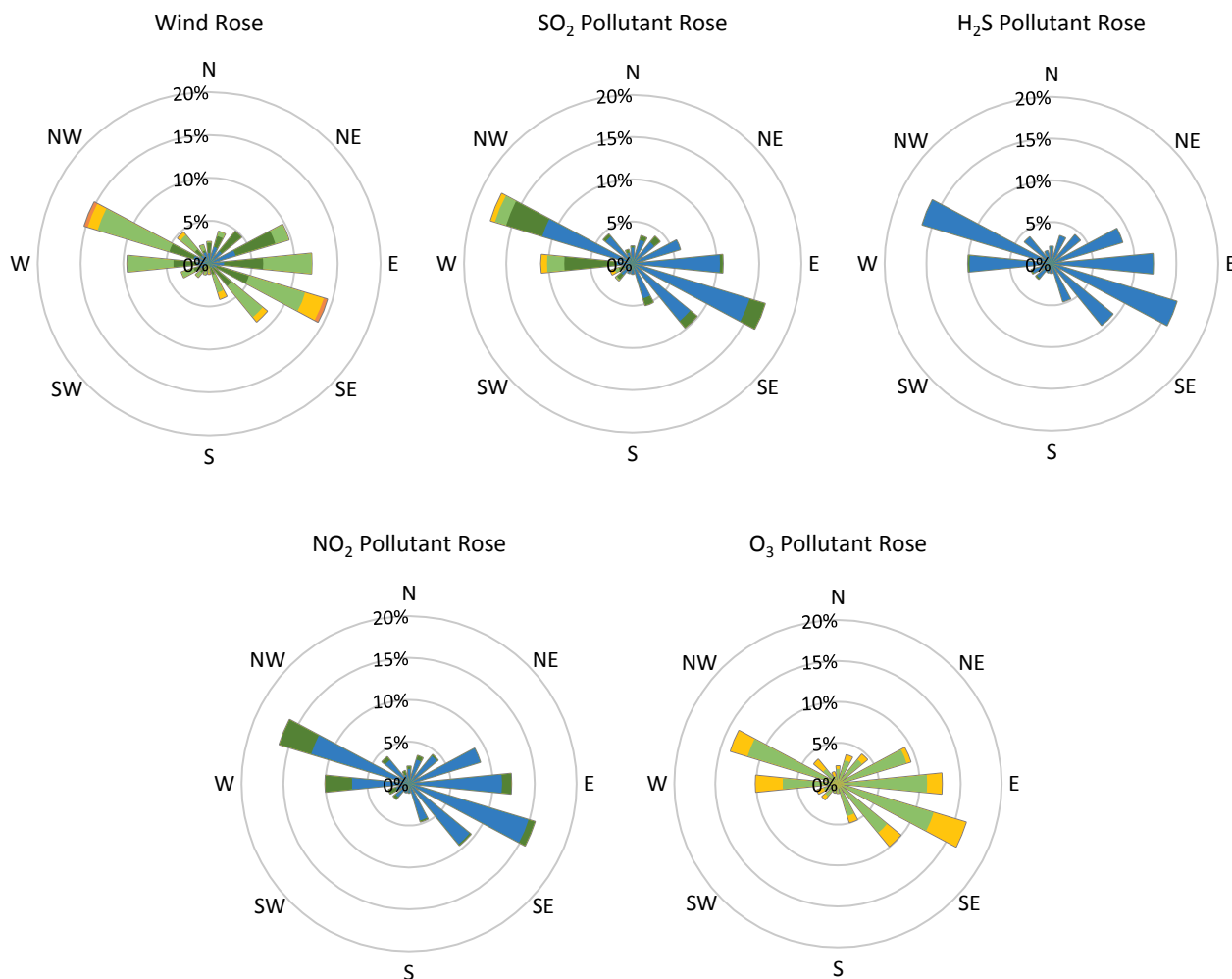
- Achieved >90% of scheduled uptime for all parameters
- Downtime of 4% results from daily internal zeroes and spans

SESAA Glen Ewen Station - March 2018 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.	Day			Conc.	Time		
NO	ppb	0.4	94%	1.3	Mar-08	-	-	5.0	Mar-12 08:00	-	-
NO ₂	ppb	2.9	94%	6.2	Mar-08	106	0	15.0	Mar-01 20:00	159	0
NO _x	ppb	3.3	94%	7.5	Mar-08	-	-	18.4	Mar-01 20:00	-	-
SO ₂	ppb	1.1	94%	6.0	Mar-11	48	0	26.2	Mar-31 22:00	172	0
H ₂ S	ppb	0.2	94%	0.6	Mar-01	3.6	0	2.8	Mar-21 07:00	11	0
O ₃	ppb	35.4	91%	45.6	Mar-12	-	-	58.6	Mar-12 17:00	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 ₂	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 ₂	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 ₂ 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 ₃	ppb	$0 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 40$	$40 \leq C < 60$	$60 \leq C < 82$	$C \geq 82$

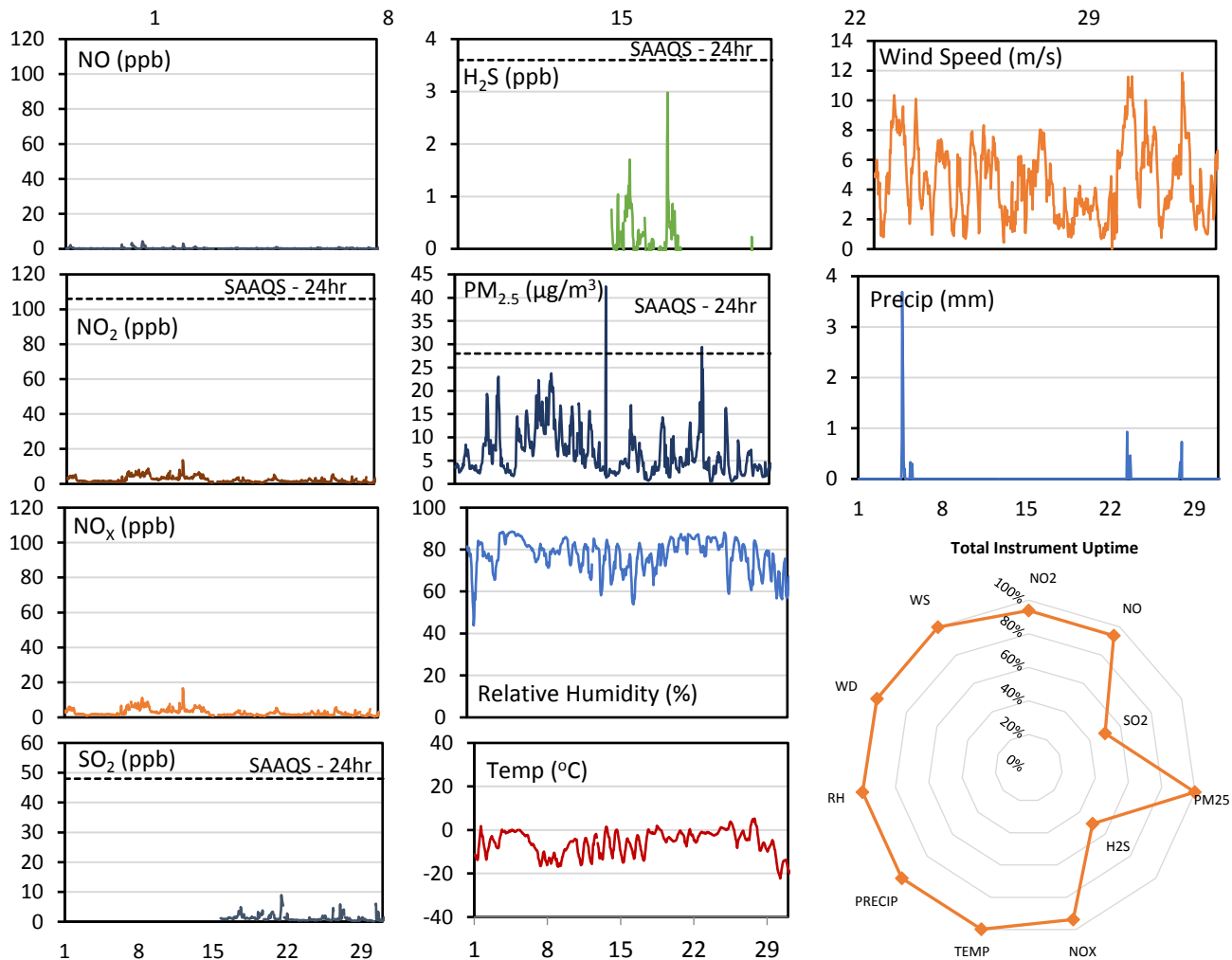
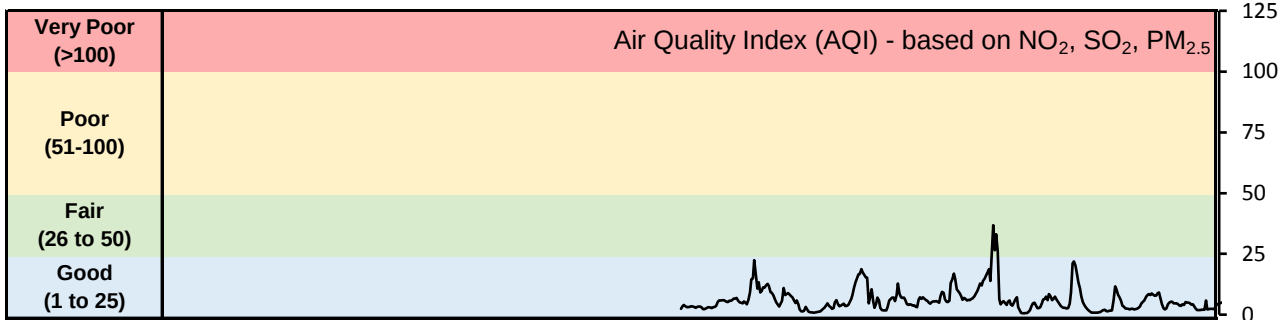
Monthly Update

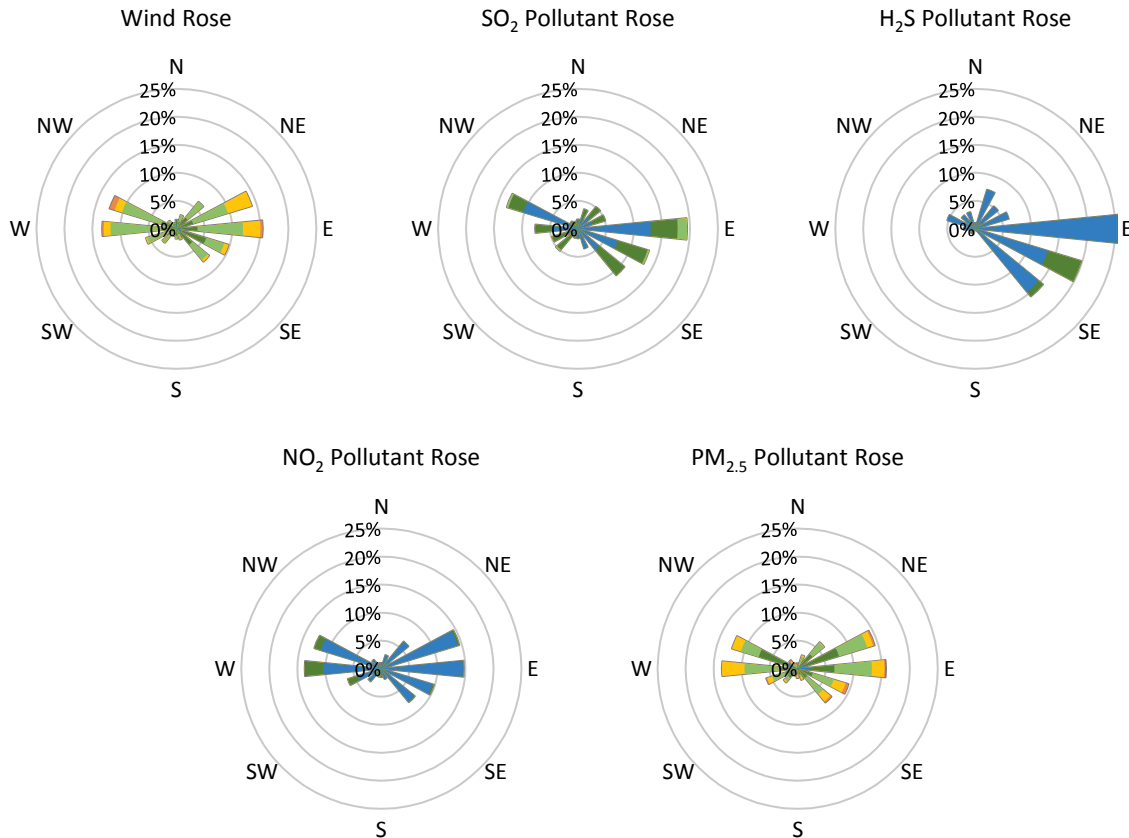
- Achieved >90% of scheduled uptime for all parameters
- Downtime of 4% results from routine daily internal zeroes and spans

SESAA Oxbow Station - March 2018 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.	Day			Conc.	Time		
NO	ppb	0.3	94%	1.1	Mar-08	-	-	4.3	Mar-08 10:00	-	-
NO ₂	ppb	2.4	94%	6.0	Mar-08	106	0	13.6	Mar-12 08:00	159	0
NO _x	ppb	2.7	94%	7.1	Mar-08	-	-	16.7	Mar-12 08:00	-	-
SO ₂	ppb	1.2	50%	2.4	Mar-21	48	0	9.0	Mar-21 11:00	172	0
H ₂ S	ppb	-0.2	50%	0.7	Mar-17	3.6	0	3.0	Mar-21 02:00	11	0
PM _{2.5}	µg/m ³	6.5	100%	14.9	Mar-10	28	0	42.4	Mar-15 10:00	-	-

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 ₂	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172	
NO ₂	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212	
H ₂ S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8	
PM _{2.5}	µg/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30	

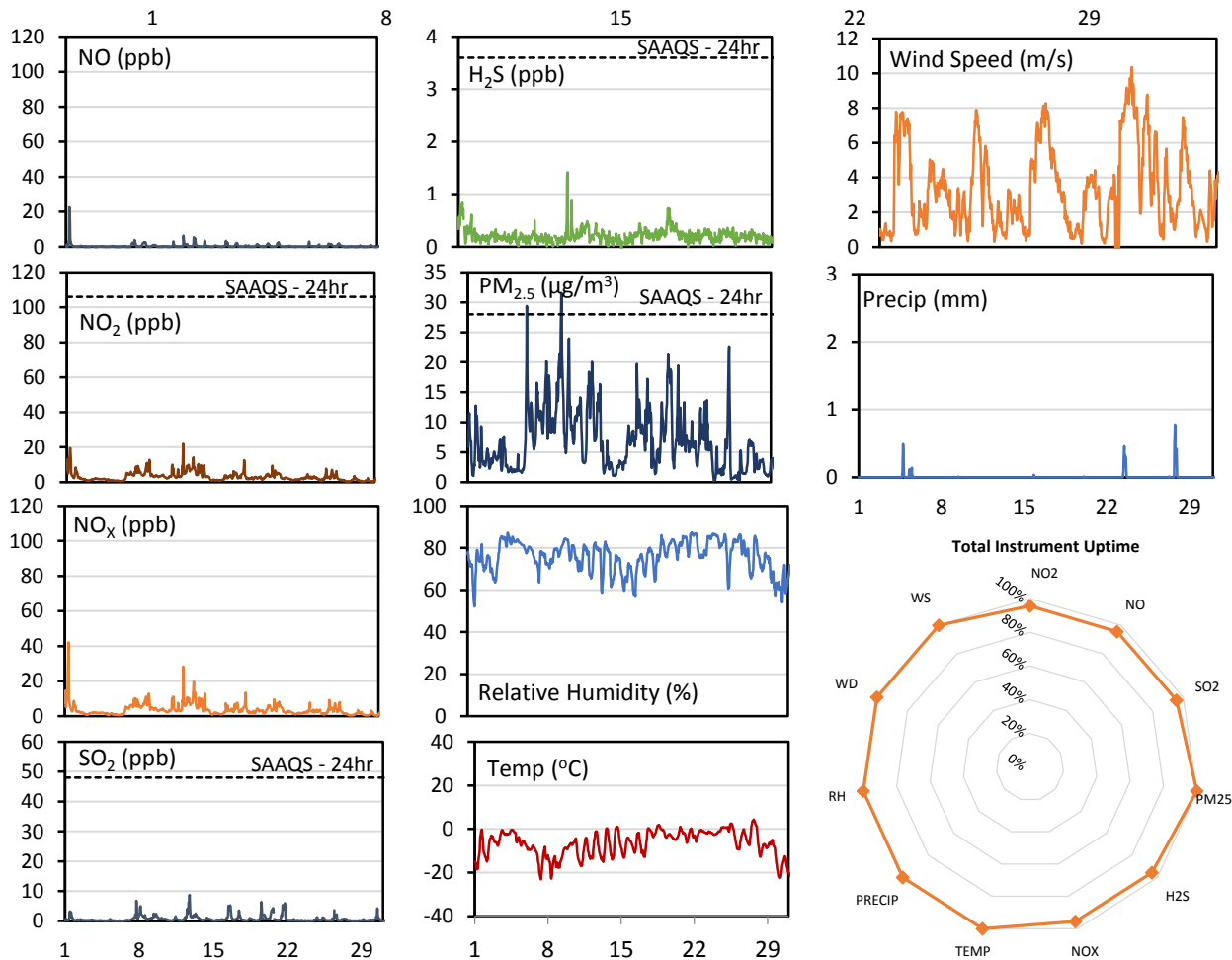
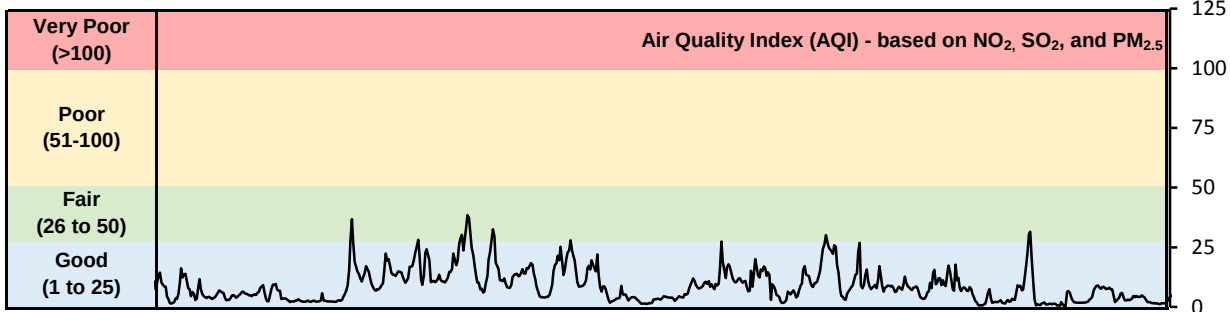
Monthly Update

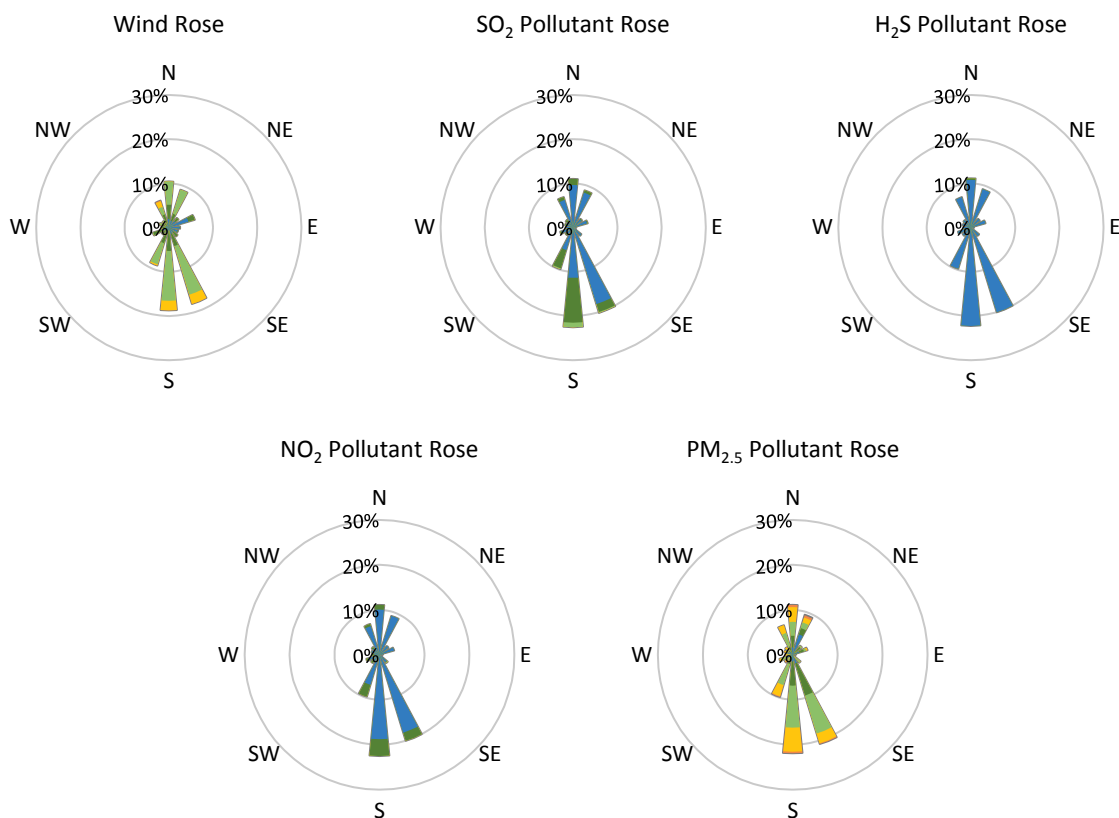
- Achieved >90% of scheduled uptime for all parameters, except SO₂ (50%) and H₂S (50%)
- H₂S/SO₂ analyzer sent for repairs
- Downtime of 4% results from routine daily internal zeroes and spans

SESAA Stoughton Station - March 2018 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.	Day			Conc.	Time		
NO	ppb	0.5	96%	2.5	Mar-01	-	-	22.6	Mar-01 08:00	-	-
NO ₂	ppb	3.1	96%	7.6	Mar-01	106	0	21.9	Mar-12 08:00	159	0
NO _x	ppb	3.6	96%	10.1	Mar-01	-	-	42.1	Mar-01 08:00	-	-
SO ₂	ppb	0.7	96%	2.2	Mar-12	48	0	8.7	Mar-12 18:00	172	0
H ₂ S	ppb	0.2	96%	0.5	Mar-01	3.6	0	1.4	Mar-11 11:00	11	0
PM _{2.5}	µg/m ³	6.9	100%	15.5	Mar-10	28	0	31.6	Mar-10 06:00	-	-

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 ₂	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 ₂	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 ₂ 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 _{2.5}	$\mu\text{g}/\text{m}^3$	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

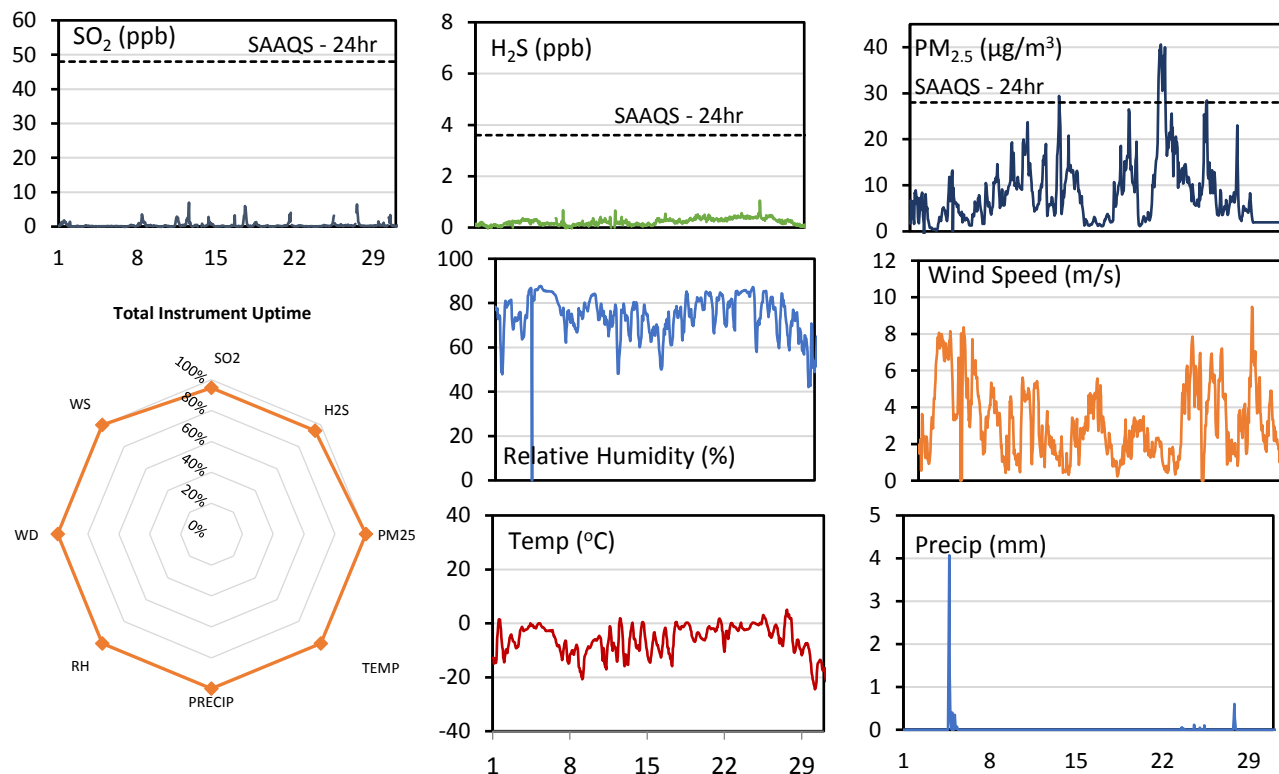
Monthly Update

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

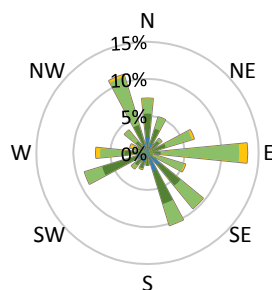
SESAA Wauchope Station - March 2018 Summary Report

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.	Day			Conc.	Time		
SO ₂	ppb	0.4	95%	1.3	Mar-17	48	0	7.0	Mar-12 14:00	172	0
H ₂ S	ppb	0.2	95%	0.4	Mar-26	3.6	0	1.1	Mar-26 23:00	11	0
PM _{2.5}	µg/m ³	7.8	100%	25.5	Mar-21	28	0	40.6	Mar-20 23:00	-	-

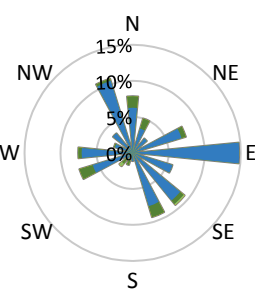
SAAQS: Saskatchewan Ambient Air Quality Standards



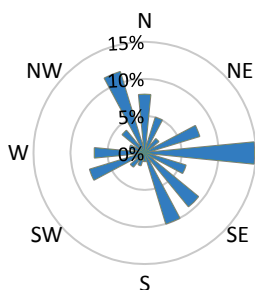
Wind Rose



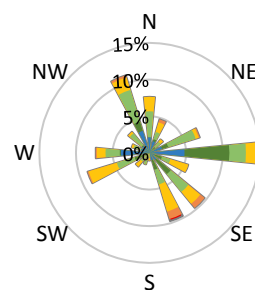
SO₂ Pollutant Rose



H₂S Pollutant Rose



PM_{2.5} 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
SO ₂	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172
H ₂ S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8
PM _{2.5}	µg/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30

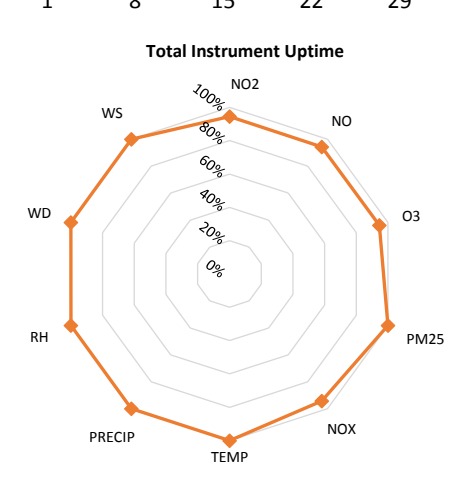
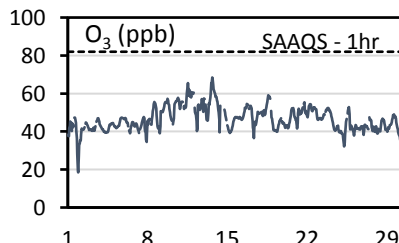
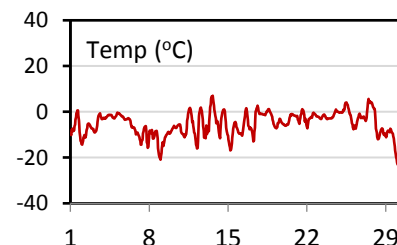
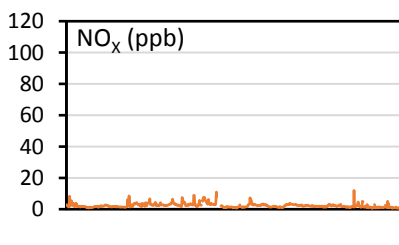
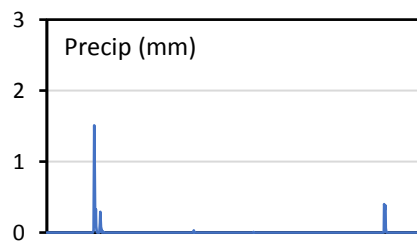
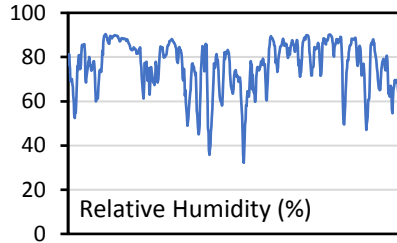
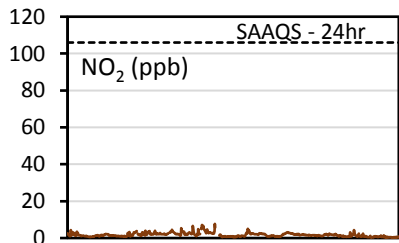
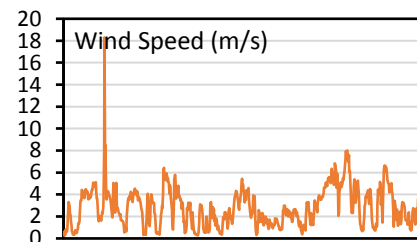
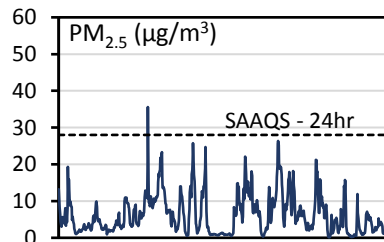
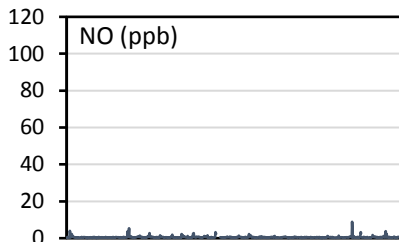
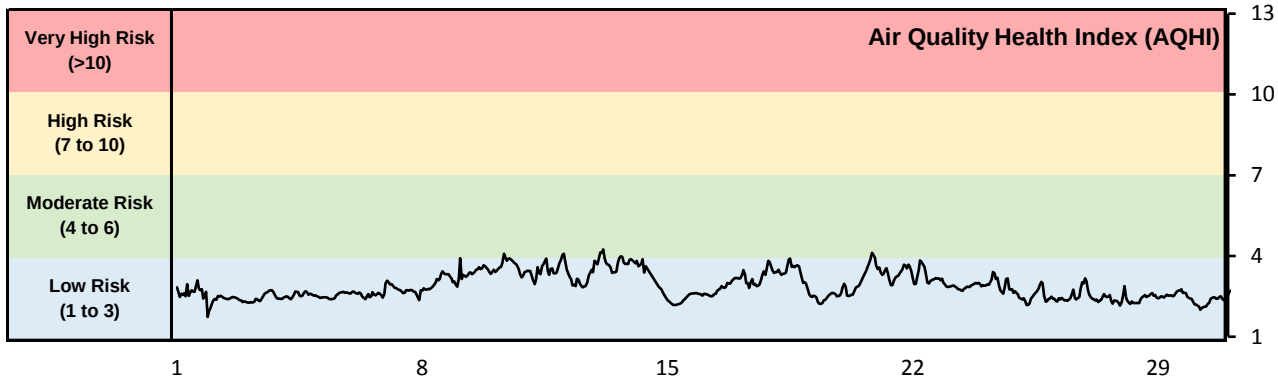
Monthly Update

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

SESAA Wawota Station - March 2018 Summary Report

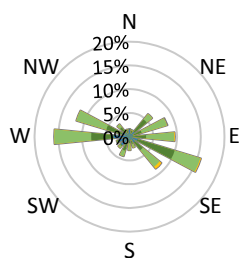
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Day			Conc.	Time		
NO	ppb	0.6	94%	1.0	Mar-06	-	-	8.9	Mar-26 14:00	-	-
NO ₂	ppb	1.7	94%	4.1	Mar-13	106	0	7.7	Mar-14 08:00	159	0
NO _x	ppb	2.3	94%	4.7	Mar-13	-	-	12.0	Mar-26 14:00	-	-
O ₃	ppb	46.4	95%	58.0	Mar-11	-	-	68.5	Mar-13 16:00	82	0
PM _{2.5}	µg/m ³	6.2	100%	13.7	Mar-10	28	0	35.6	Mar-09 02:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

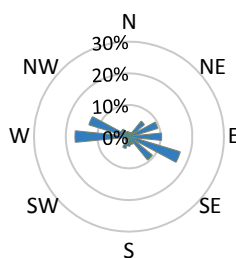


SESAA Wawota Station - March 2018 Summary Report

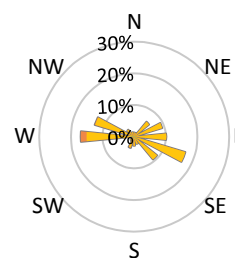
Wind Rose



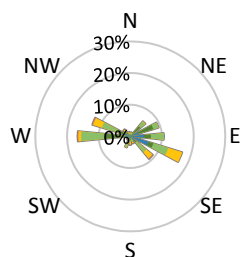
NO₂ Pollutant Rose



O₃ Pollutant Rose



PM_{2.5} 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 ₃	ppb	0 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 40	40 ≤ C < 60	60 ≤ C < 82	C ≥ 82	
NO ₂	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212	
PM _{2.5}	µg/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30	

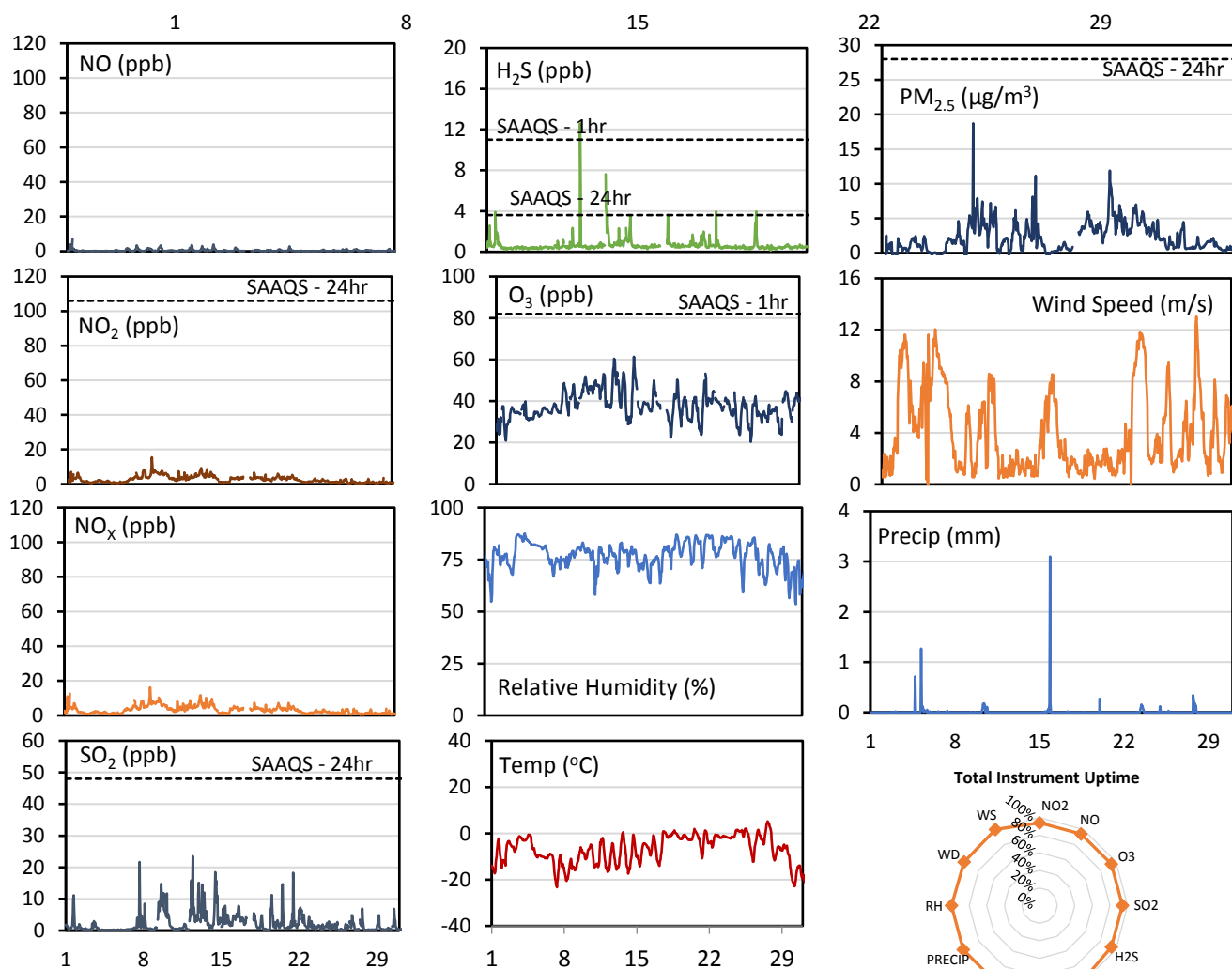
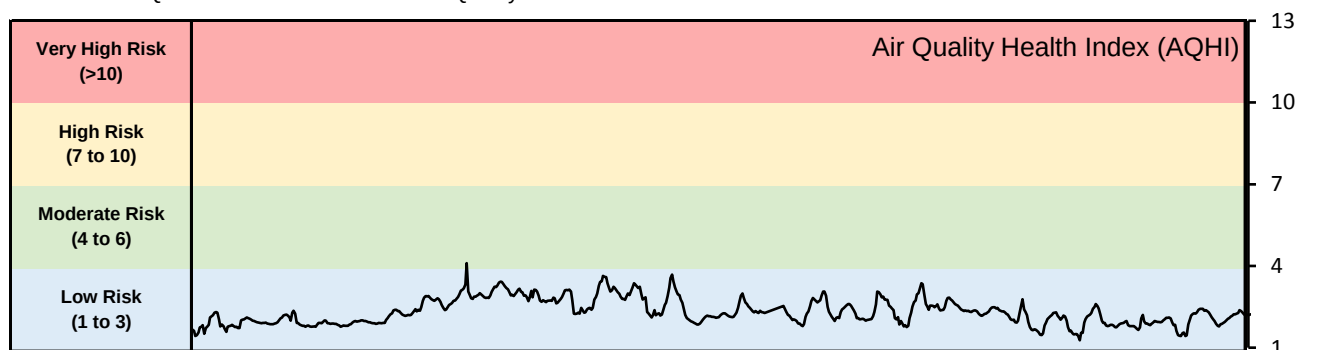
Monthly Update

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

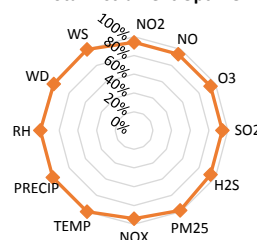
SESAA Weyburn Station - March 2018 Summary Report

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.	Day			Conc.	Time		
NO	ppb	0.4	94%	1.3	Mar-01	-	-	7.0	Mar-01 12:00	-	-
NO ₂	ppb	2.7	94%	6.5	Mar-08	106	0	15.5	Mar-08 19:00	159	0
NO _x	ppb	3.2	94%	7.5	Mar-09	-	-	16.3	Mar-08 19:00	-	-
SO ₂	ppb	2.2	94%	6.8	Mar-12	48	0	23.5	Mar-12 10:00	172	0
H ₂ S	ppb	0.7	94%	1.6	Mar-12	3.6	0	12.6	Mar-09 18:00	11	1
O ₃	ppb	37.8	94%	46.6	Mar-10	-	-	61.4	Mar-14 15:00	82	0
PM _{2.5}	µg/m ³	2.2	99%	5.8	Mar-20	28	0	18.7	Mar-08 19:00	-	-

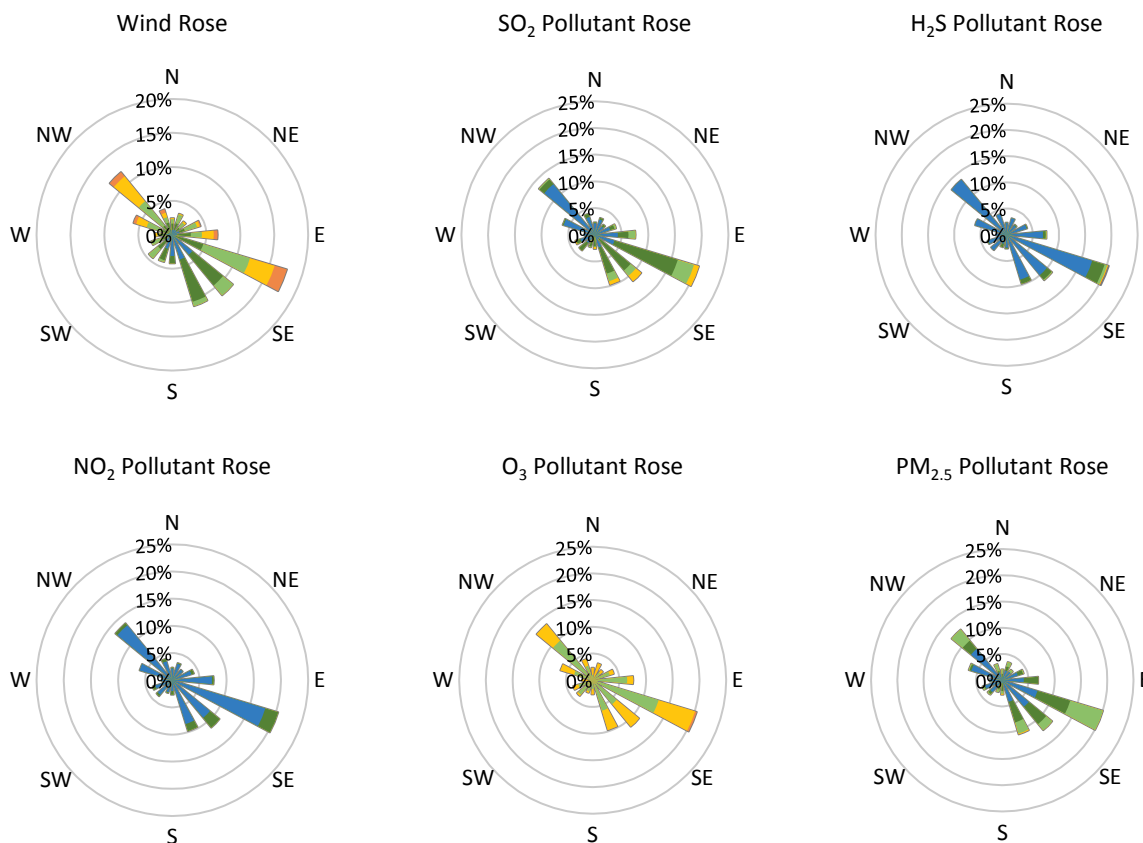
SAAQS: Saskatchewan Ambient Air Quality Standards



Total Instrument Uptime



SESAA Weyburn Station - March 2018 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 ₂	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 ₂	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 ₂ 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 ₃	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 _{2.5}	$\mu\text{g}/\text{m}^3$	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$

Monthly Update

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

Exceedance Summary (1- Hour Average - Exceedances Highlighted)

Exceedance Time	AQHI	NO ₂ ppb	NO ppb	SO ₂ ppb	O ₃ ppb	NO _x ppb	H ₂ S ppb	PM _{2.5} $\mu\text{g}/\text{m}^3$	Temp °C	WD deg	WS m/s
Mar-09 19:00	3.4	7.3	0.4	7.7	49.7	7.7	12.6	4.6	-8.0	119.8	5.6