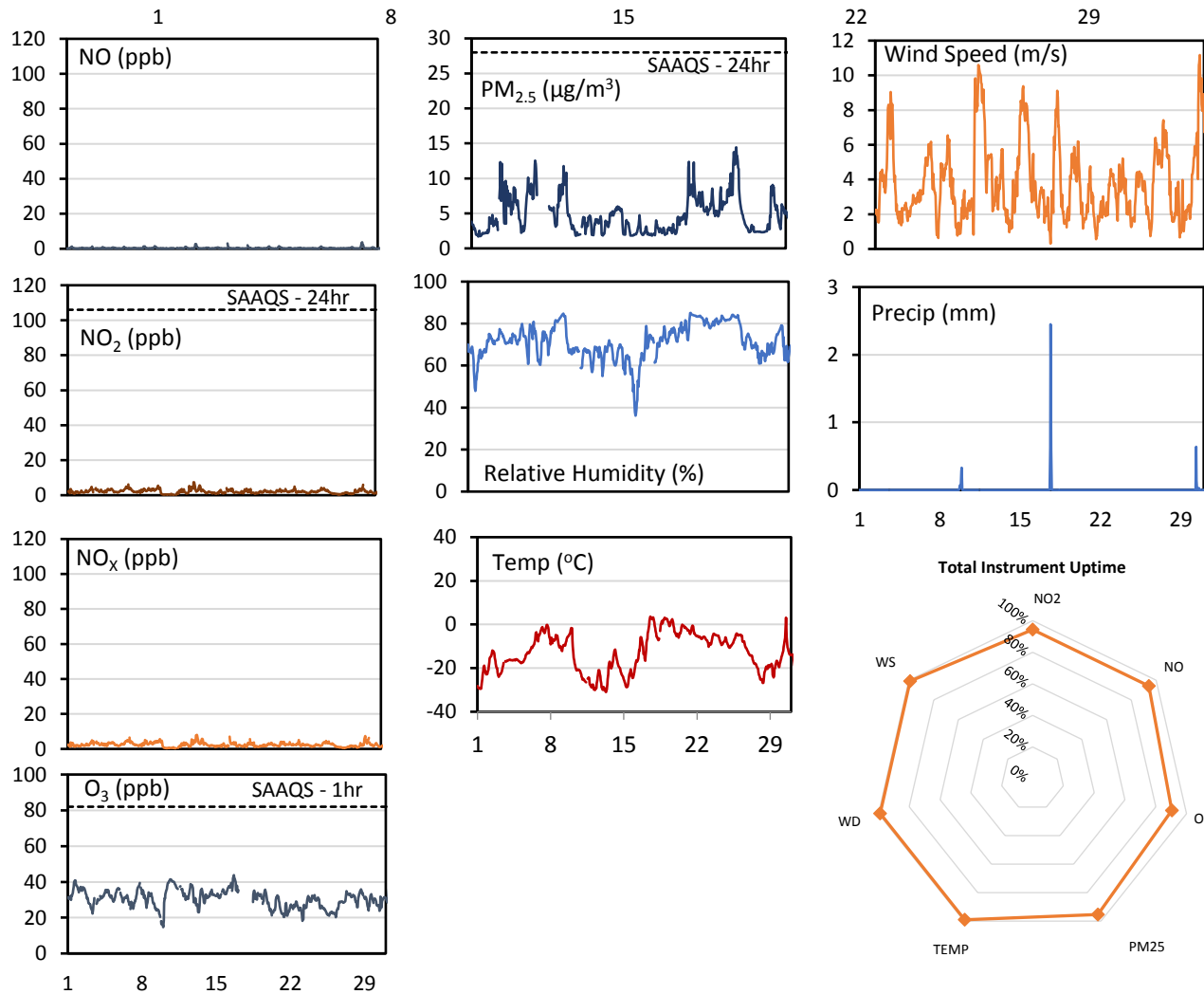
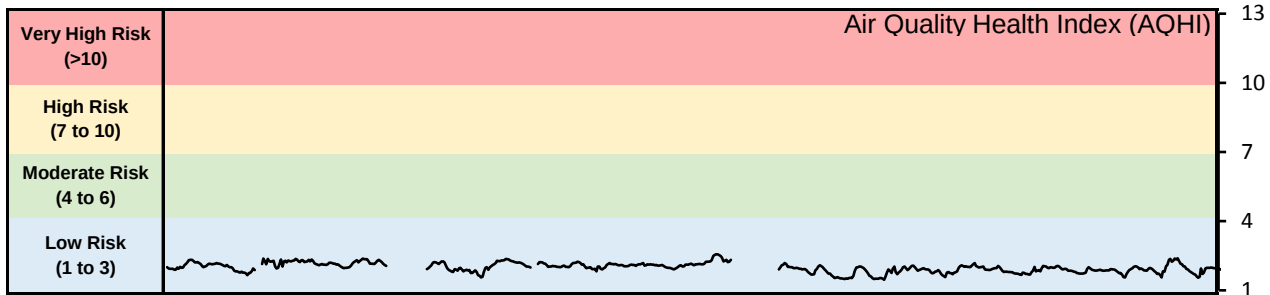


SESAA Esterhazy Station - January 2018 Summary Report

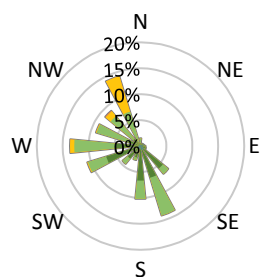
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Total Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Day			Conc.	Time		
NO	ppb	0.3	94%	0.9	Jan-29	-	-	3.7	Jan-29 12:00	-	-
NO ₂	ppb	2.1	94%	4.2	Jan-13	106	0	7.4	Jan-13 07:00	159	0
NO _x	ppb	2.4	94%	4.8	Jan-13	-	-	8.1	Jan-13 09:00	-	-
O ₃	ppb	30.7	90%	38.3	Jan-16	-	-	43.8	Jan-16 16:00	82	0
PM _{2.5}	µg/m ³	4.7	95%	10.8	Jan-07	28	0	14.4	Jan-26 07:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

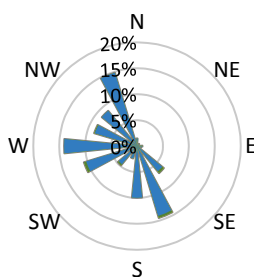


SESAA Esterhazy Station - January 2018 Summary Report

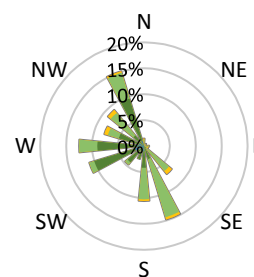
Wind Rose



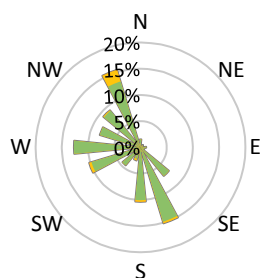
NO₂ Pollutant Rose



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	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

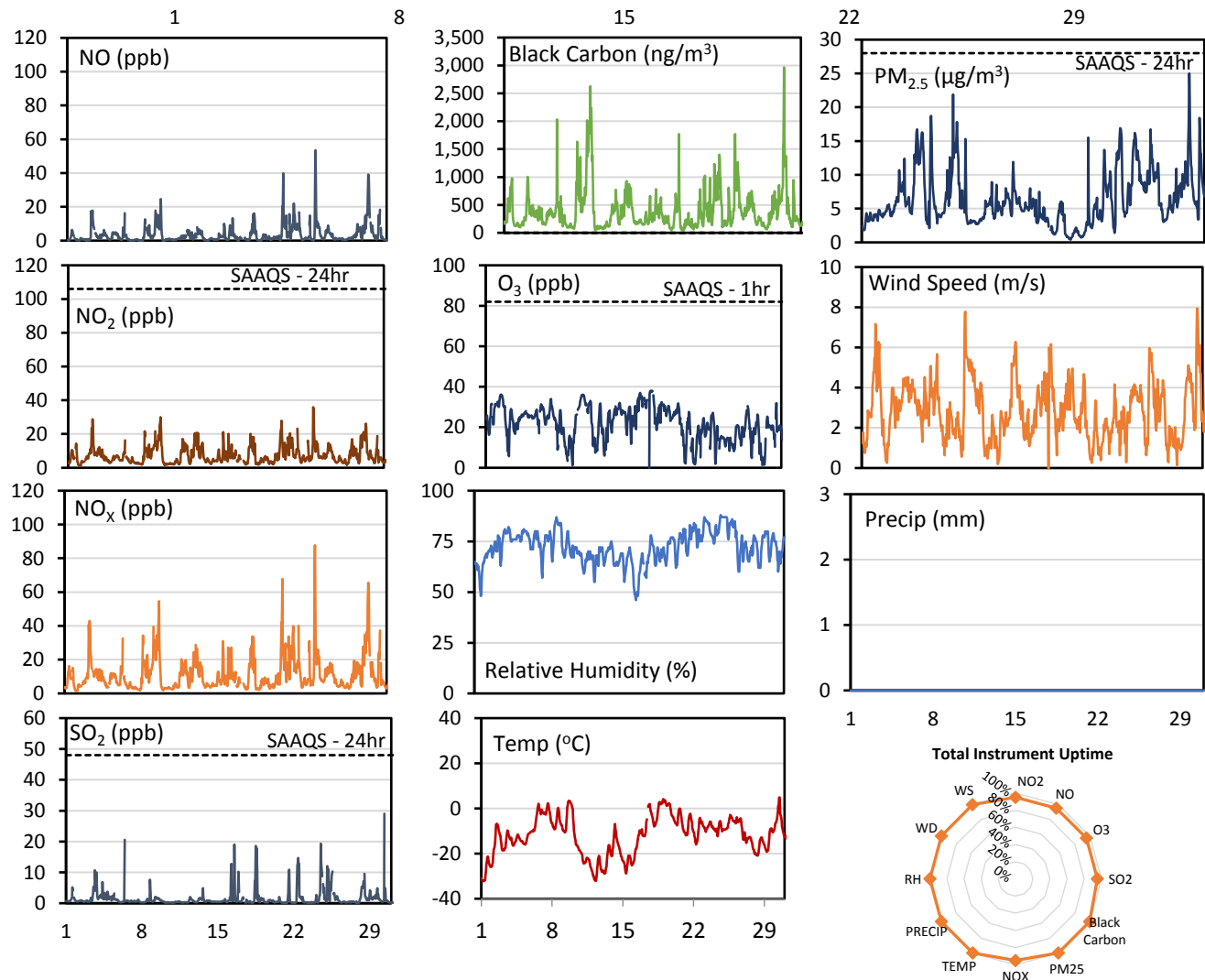
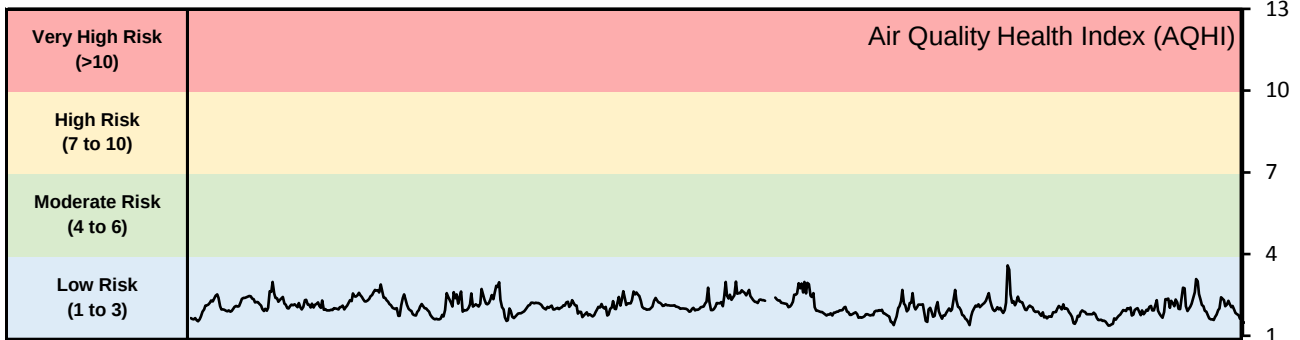
Monthly Update

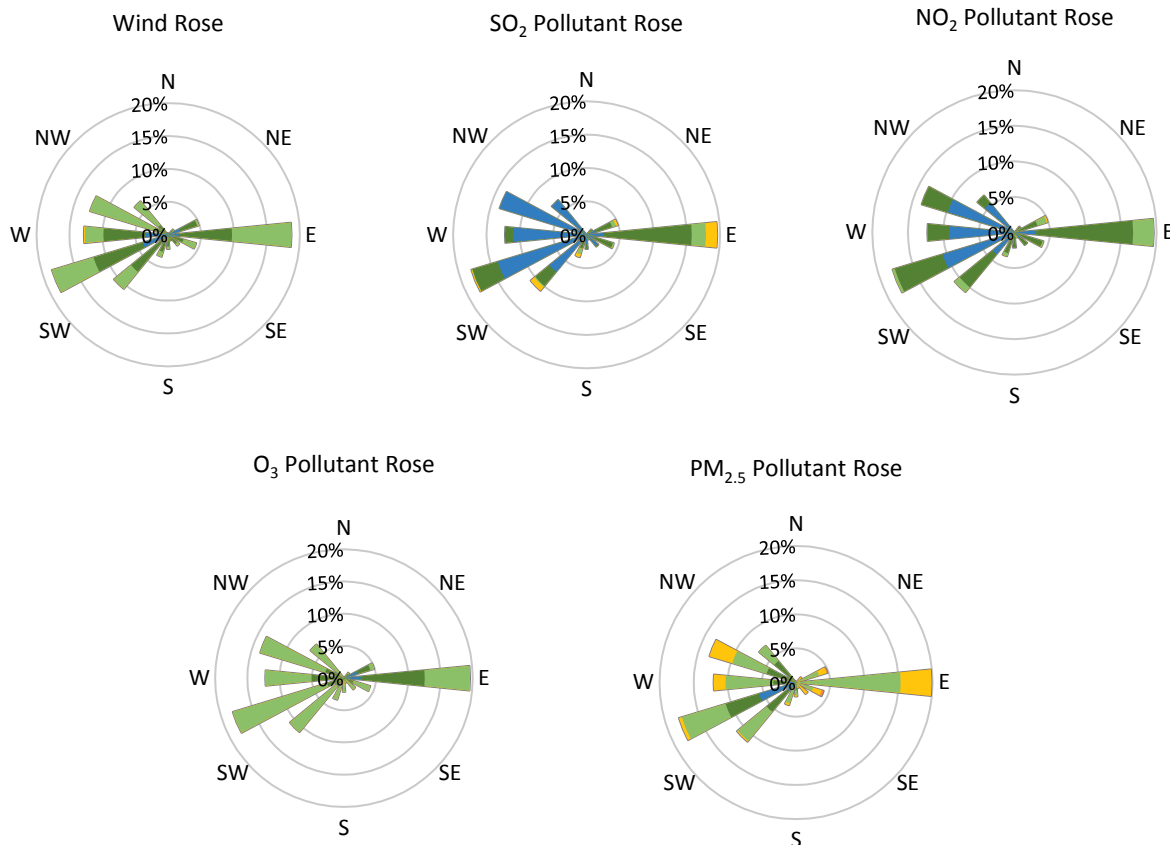
- Achieved >90% of scheduled uptime for all parameters
- Downtime of 4% results from routine daily internal zeroes and spans

SESAA Estevan Station - January 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	3.5	95%	12.0	Jan-29	-	-	53.5	Jan-24 08:00	-	-
NO ₂	ppb	7.5	95%	15.8	Jan-09	106	0	35.9	Jan-24 07:00	159	0
NO _x	ppb	11.0	95%	24.7	Jan-29	-	-	87.7	Jan-24 08:00	-	-
SO ₂	ppb	1.5	95%	4.4	Jan-25	48	0	29.0	Jan-30 09:00	172	0
Black Carbon	ng/m ³	389.1	100%	1355.9	Jan-09	-	-	2965.0	Jan-29 07:00	-	-
O ₃	ppb	22.0	95%	34.9	Jan-17	-	-	38.1	Jan-17 21:00	82	0
PM _{2.5}	µg/m ³	6.2	100%	11.3	Jan-29	28	0	25.0	Jan-29 16:00	-	-

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	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C < 212$	$C \geq 212$	
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}	$\mu\text{g}/\text{m}^3$	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

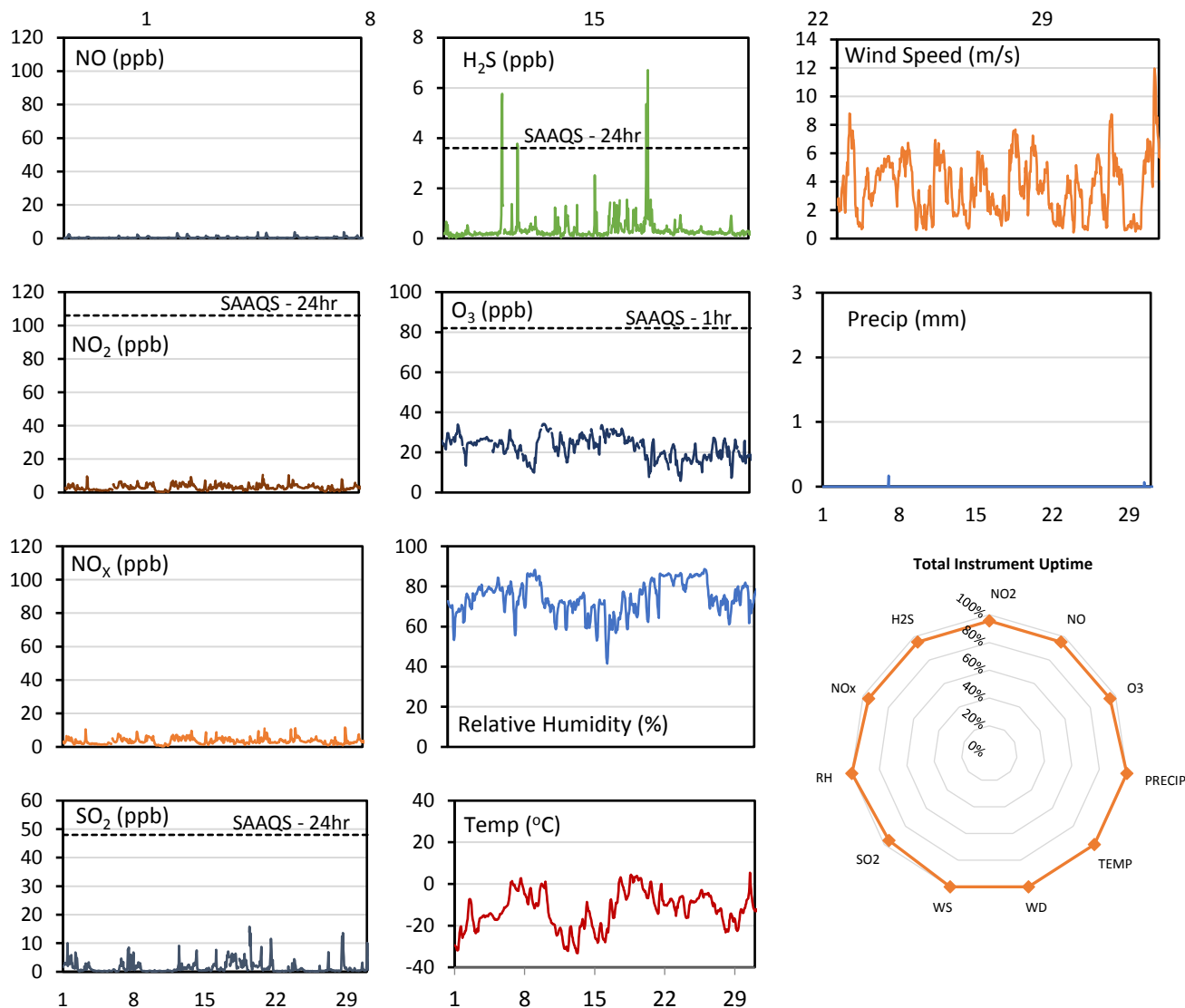
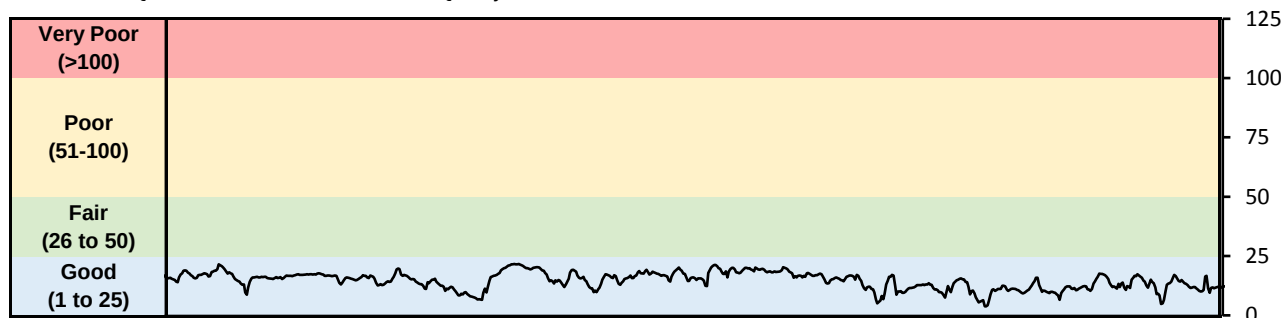
Monthly Update

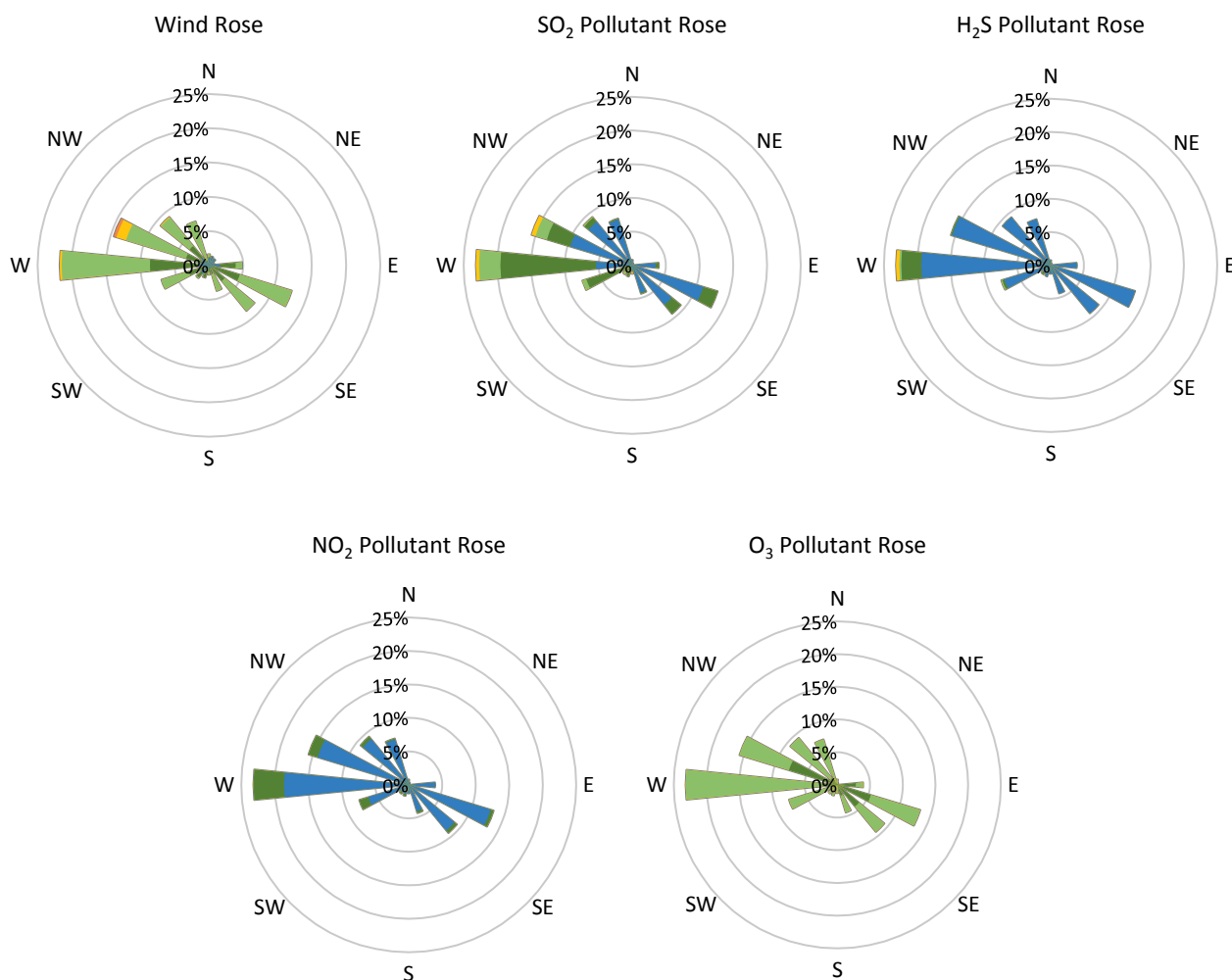
- Achieved >90% of scheduled uptime for all parameters
- Downtime of 4% results from daily internal zeroes and spans

SESAA Glen Ewen Station - January 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%	0.9	Jan-24	-	-	3.8	Jan-24 07:00	-	-
NO ₂	ppb	3.0	96%	5.3	Jan-13	106	0	10.5	Jan-21 05:00	159	0
NO _x	ppb	3.5	96%	6.0	Jan-13	-	-	11.6	Jan-29 06:00	-	-
SO ₂	ppb	1.5	96%	4.3	Jan-17	48	0	15.8	Jan-19 10:00	172	0
H ₂ S	ppb	0.3	96%	0.9	Jan-21	3.6	0	6.7	Jan-21 02:00	11	0
O ₃	ppb	22.7	96%	30.2	Jan-11	-	-	34.2	Jan-10 22:00	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	$0 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 40$	$40 \leq C < 60$	$60 \leq C < 82$	$C \geq 82$

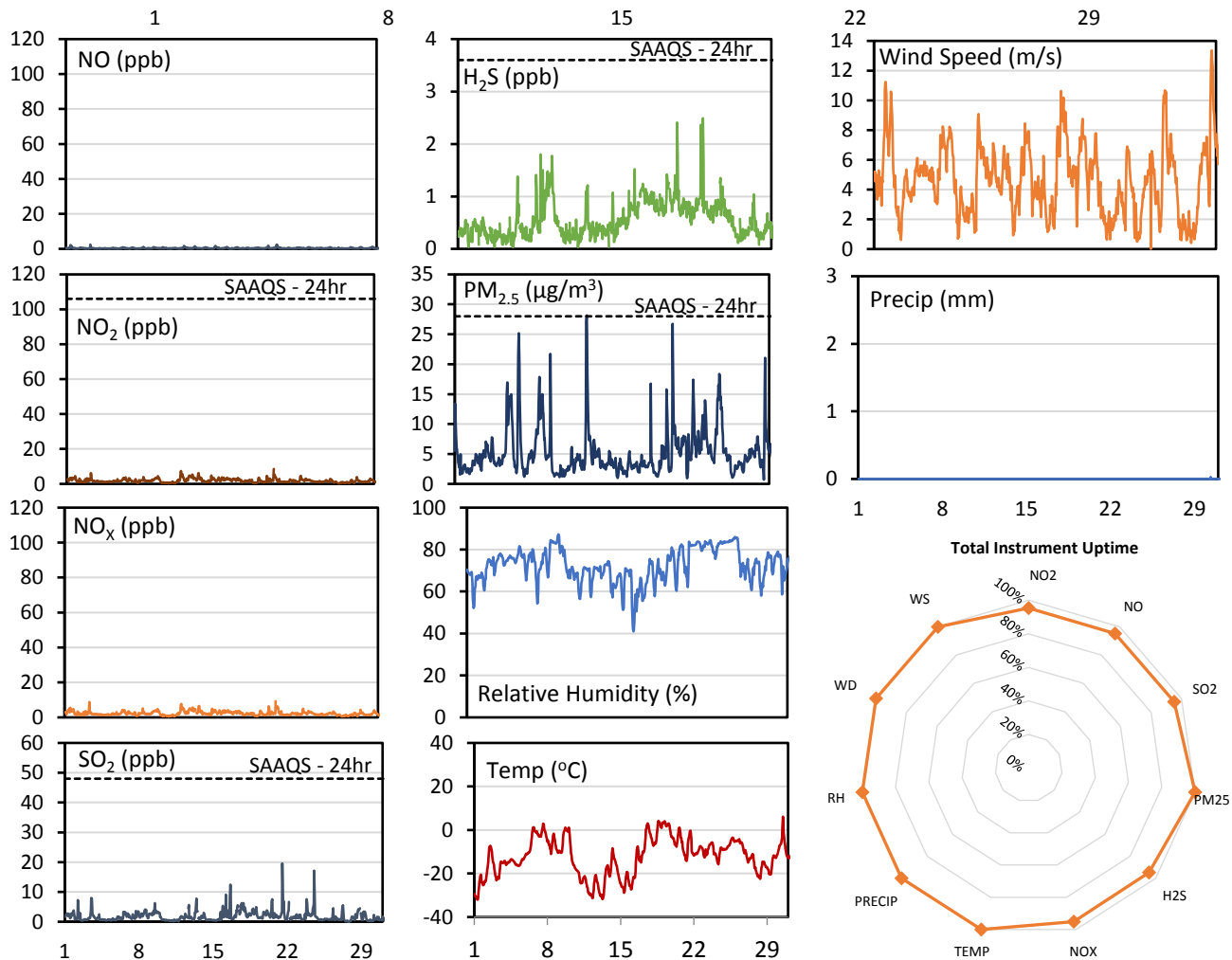
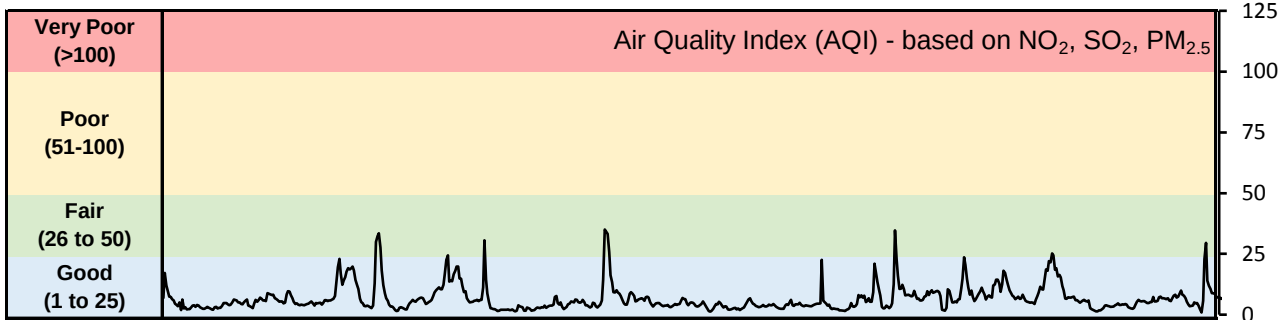
Monthly Update

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

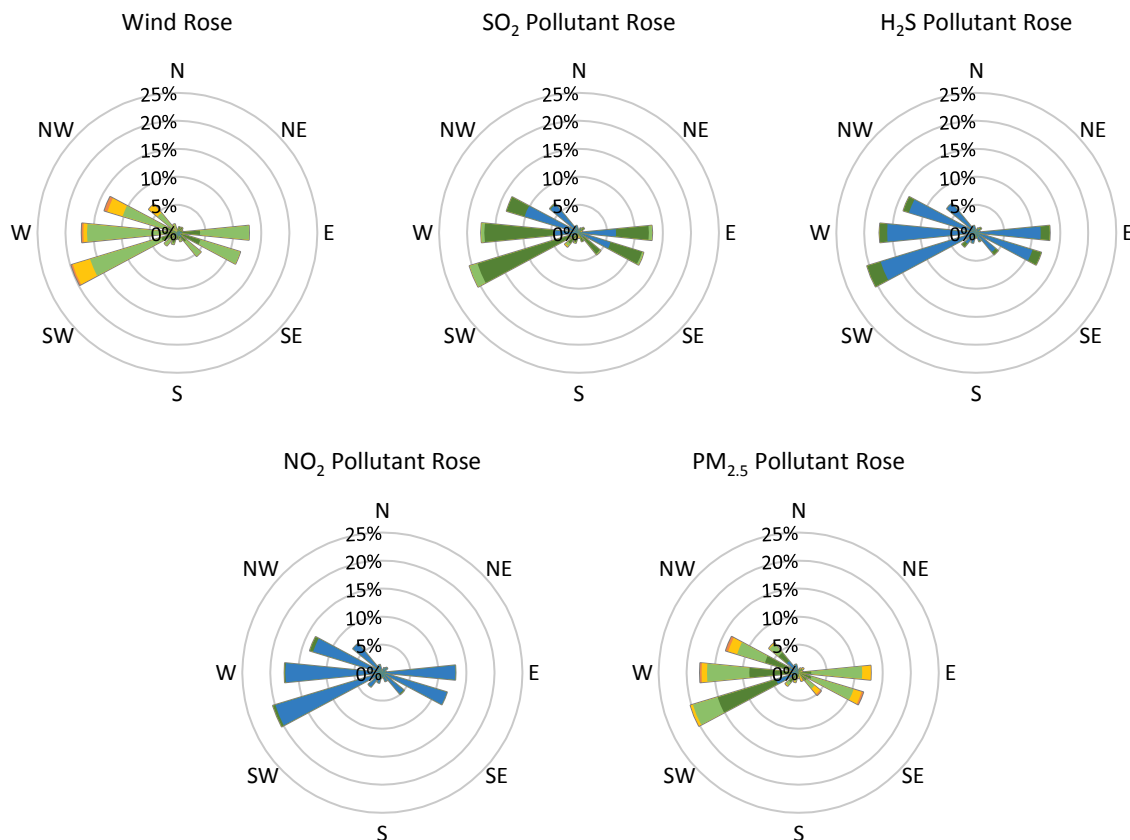
SESAA Oxbow Station - January 2018 Summary Report

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	95%	0.7	Jan-21	-	-	2.4	Jan-03 09:00	-	-
NO ₂	ppb	1.9	95%	3.8	Jan-13	106	0	8.5	Jan-21 05:00	159	0
NO _x	ppb	2.3	95%	4.3	Jan-13	-	-	9.2	Jan-21 05:00	-	-
SO ₂	ppb	1.8	95%	3.9	Jan-17	48	0	19.6	Jan-21 13:00	172	0
H ₂ S	ppb	0.6	95%	1.1	Jan-24	3.6	0	2.5	Jan-24 11:00	11	0
PM _{2.5}	µg/m ³	5.2	100%	10.4	Jan-26	28	0	28.2	Jan-13 14:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



SESAA Oxbow Station - January 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	$0 \leq C < 1$	$1 \leq C < 3.6$	$3.6 \leq C < 5$	$5 \leq C < 8$	$8 \leq C < 10.8$	$C \geq 10.8$	
PM _{2.5}	$\mu\text{g}/\text{m}^3$	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

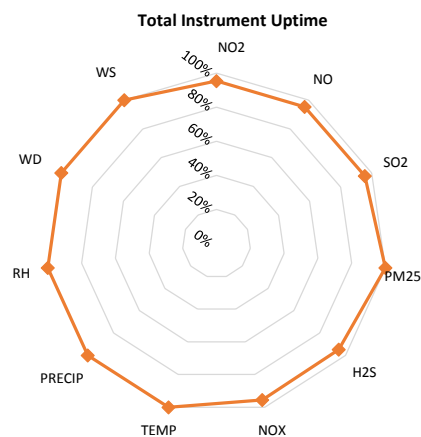
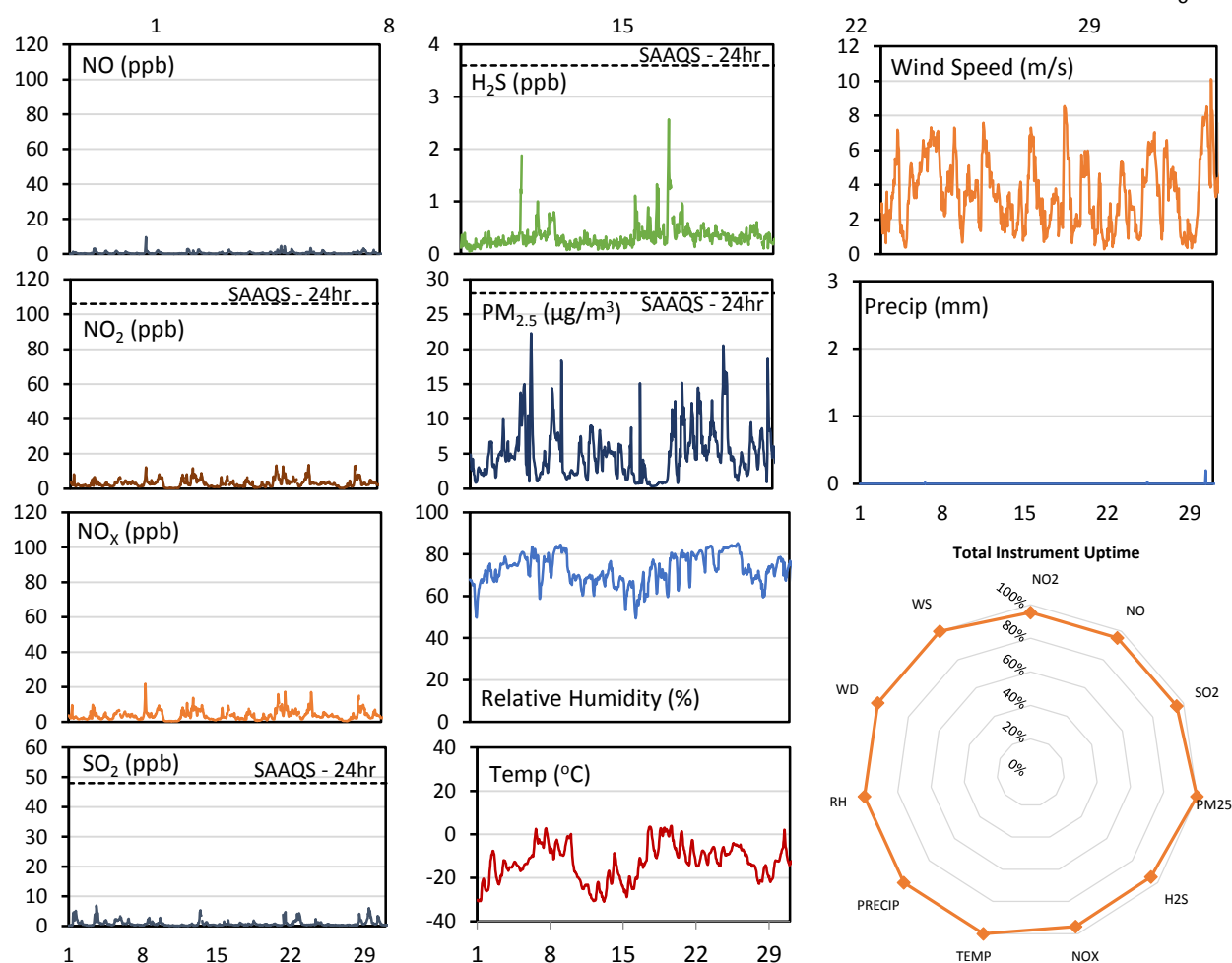
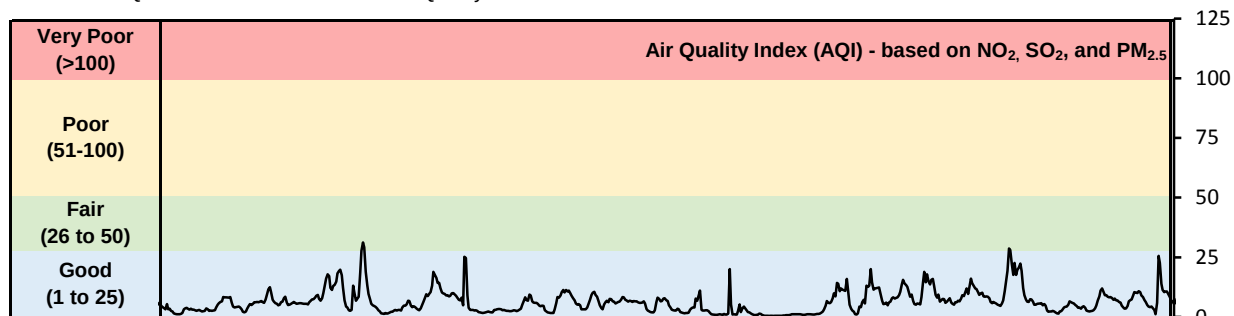
Monthly Update

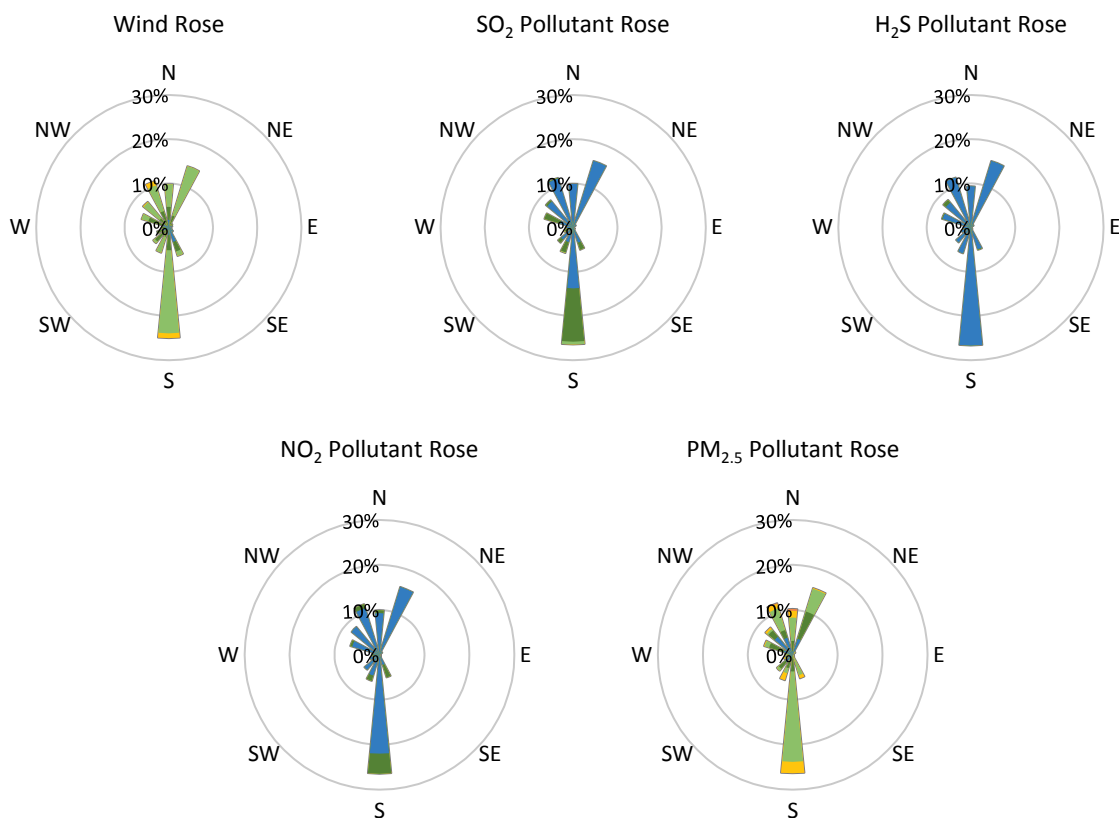
- Achieved >90% of scheduled uptime for all parameters
- Downtime of 4% results from routine daily internal zeroes and spans

SESAA Stoughton Station - January 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	0.6	95%	1.5	Jan-21	-	-	9.6	Jan-08 09:00	-	-
NO ₂	ppb	3.1	95%	7.0	Jan-21	106	0	13.6	Jan-24 07:00	159	0
NO _x	ppb	3.7	95%	8.5	Jan-21	-	-	21.8	Jan-08 09:00	-	-
SO ₂	ppb	0.8	96%	2.2	Jan-29	48	0	6.9	Jan-03 15:00	172	0
H ₂ S	ppb	0.3	95%	0.7	Jan-21	3.6	0	2.6	Jan-20 23:00	11	0
PM _{2.5}	µg/m ³	5.0	100%	10.9	Jan-26	28	0	22.3	Jan-07 01:00	-	-

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

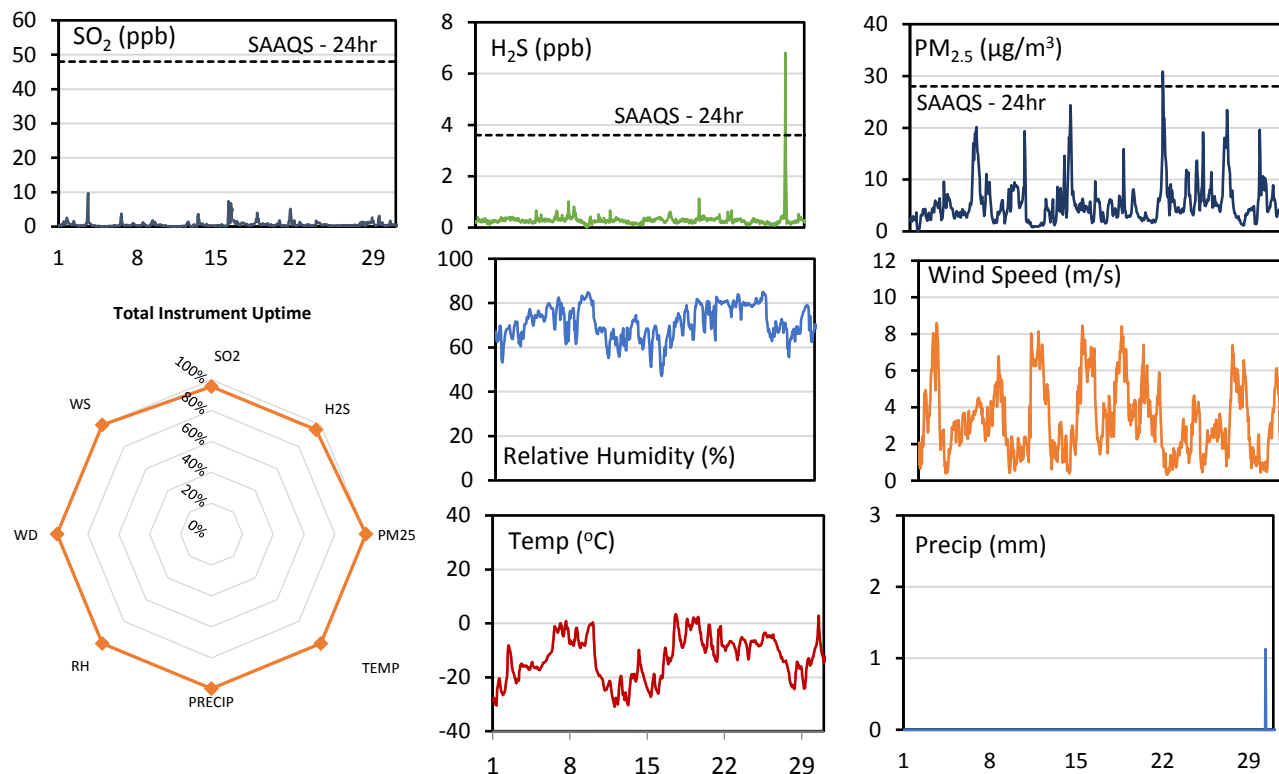
Monthly Update

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

SESAA Wauchope Station - January 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	0.6	96%	2.3	Jan-16	48	0	9.7	Jan-03 15:00	172	0
H ₂ S	ppb	0.3	96%	0.9	Jan-29	3.6	0	6.8	Jan-29 07:00	11	0
PM _{2.5}	µg/m ³	5.4	100%	11.6	Jan-21	28	0	30.9	Jan-21 03:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

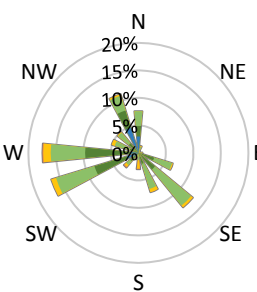
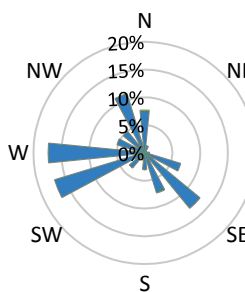
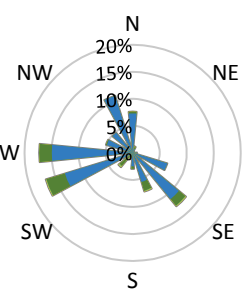
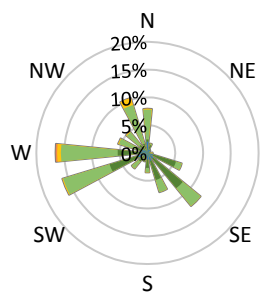


Wind Rose

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

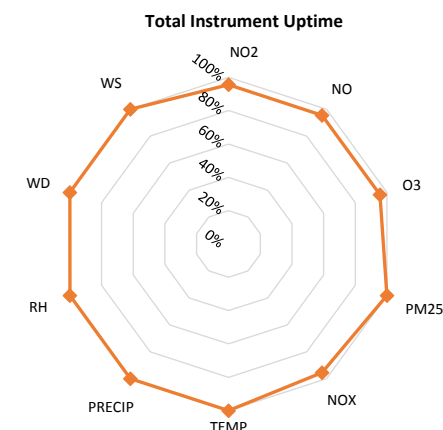
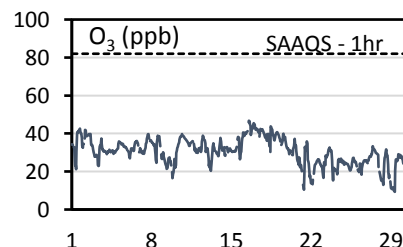
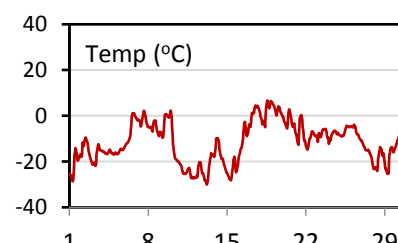
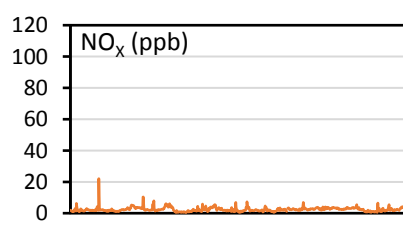
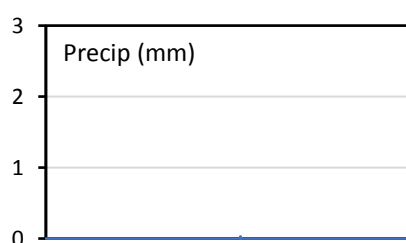
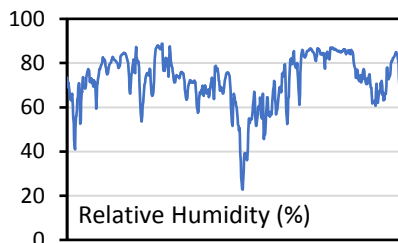
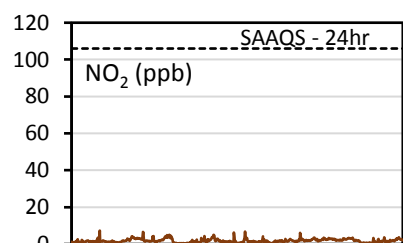
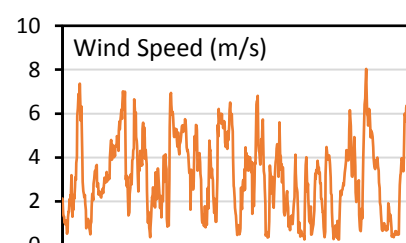
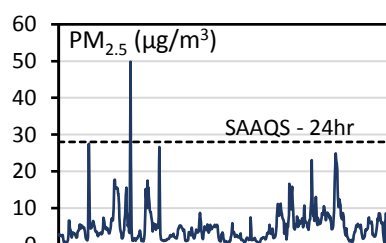
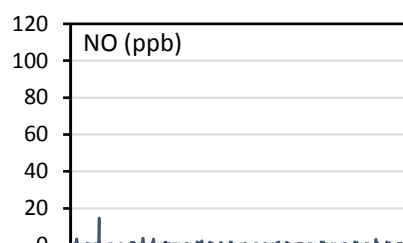
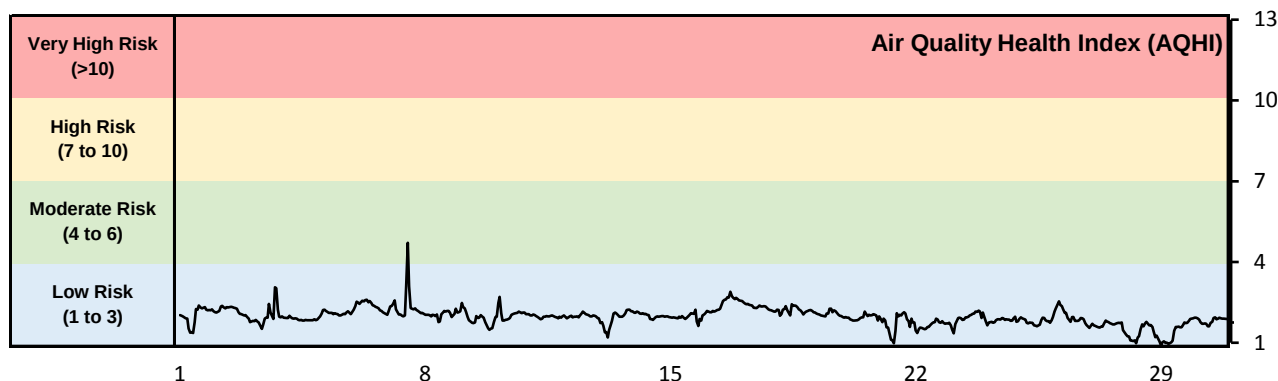
Monthly Update

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

SESAA Wawota Station - January 2018 Summary Report

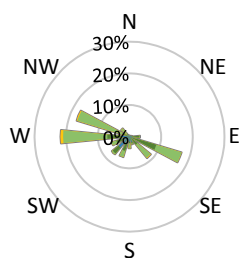
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Day			Conc.	Time		
NO	ppb	0.6	95%	1.1	Jan-03	-	-	14.8	Jan-03 13:00	-	-
NO ₂	ppb	1.8	96%	3.2	Jan-09	106	0	7.3	Jan-03 13:00	159	0
NO _x	ppb	2.4	95%	3.9	Jan-09	-	-	22.1	Jan-03 13:00	-	-
O ₃	ppb	30.5	96%	42.0	Jan-16	-	-	46.8	Jan-16 13:00	82	0
PM _{2.5}	µg/m ³	4.9	100%	11.9	Jan-26	28	0	49.8	Jan-07 12:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

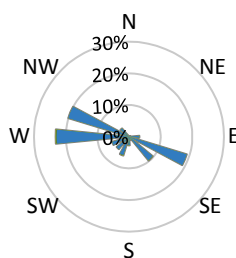


SESAA Wawota Station - January 2018 Summary Report

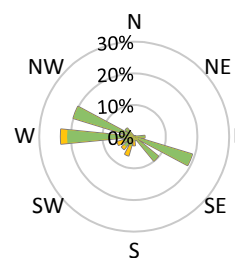
Wind Rose



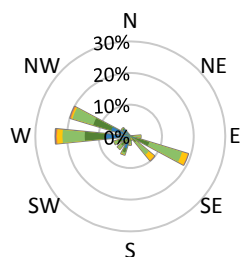
NO₂ Pollutant Rose



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	

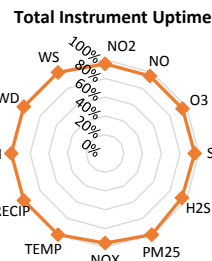
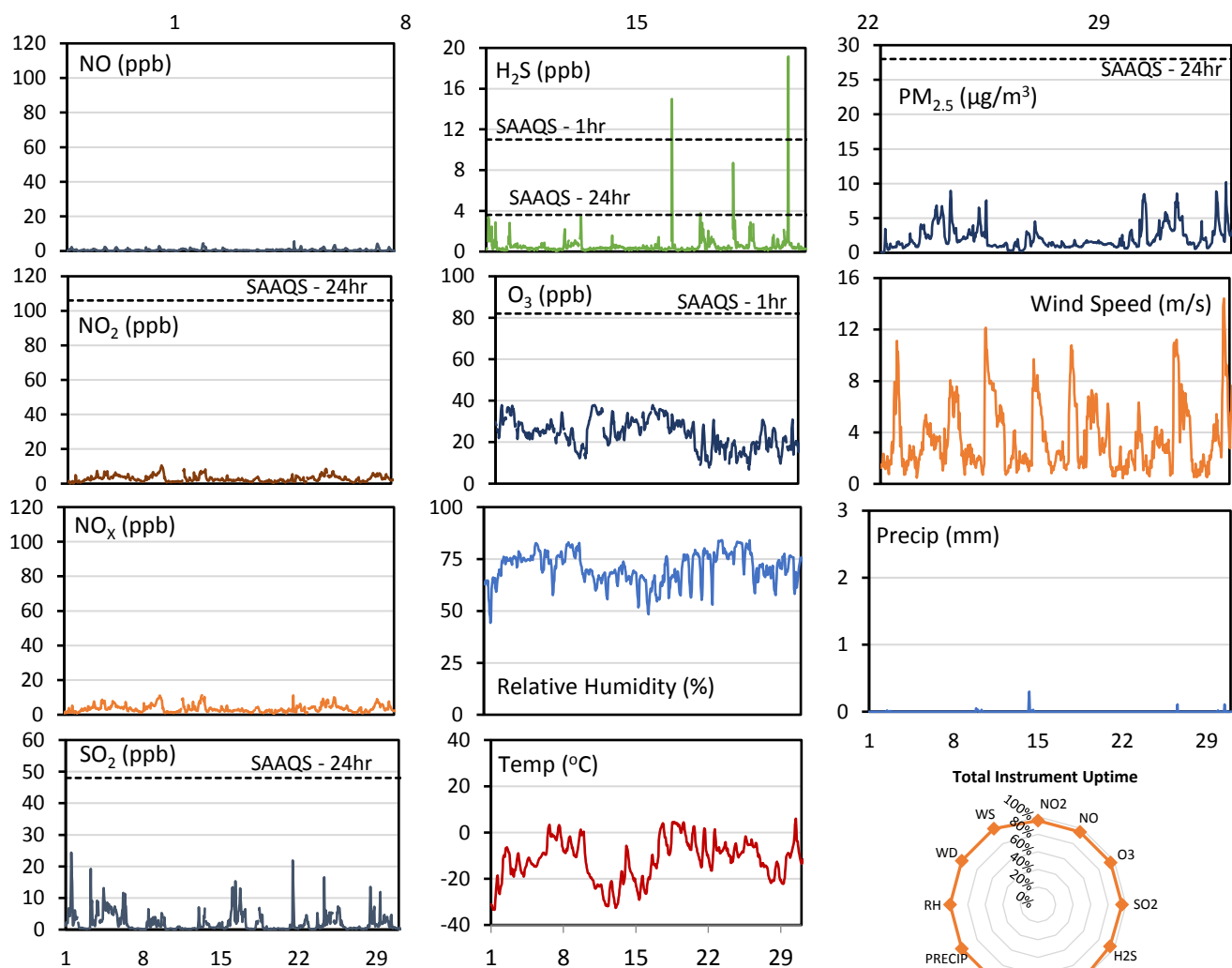
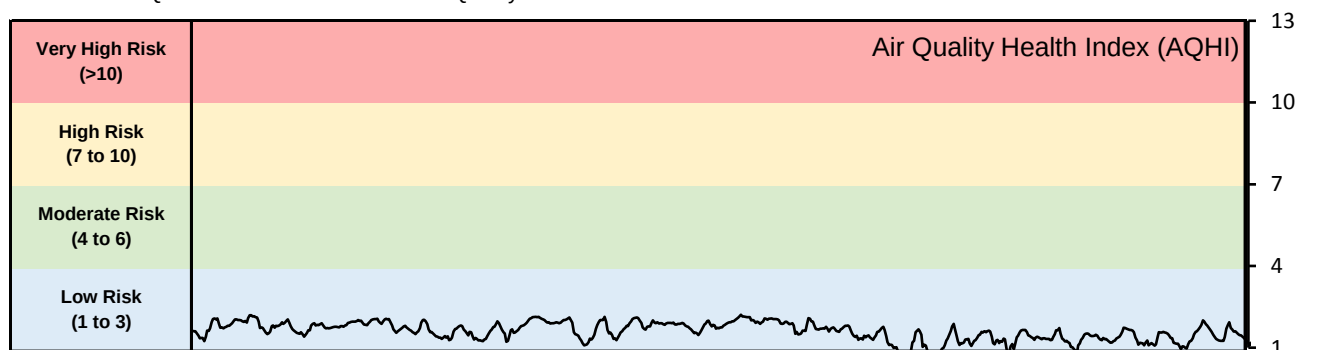
Monthly Update

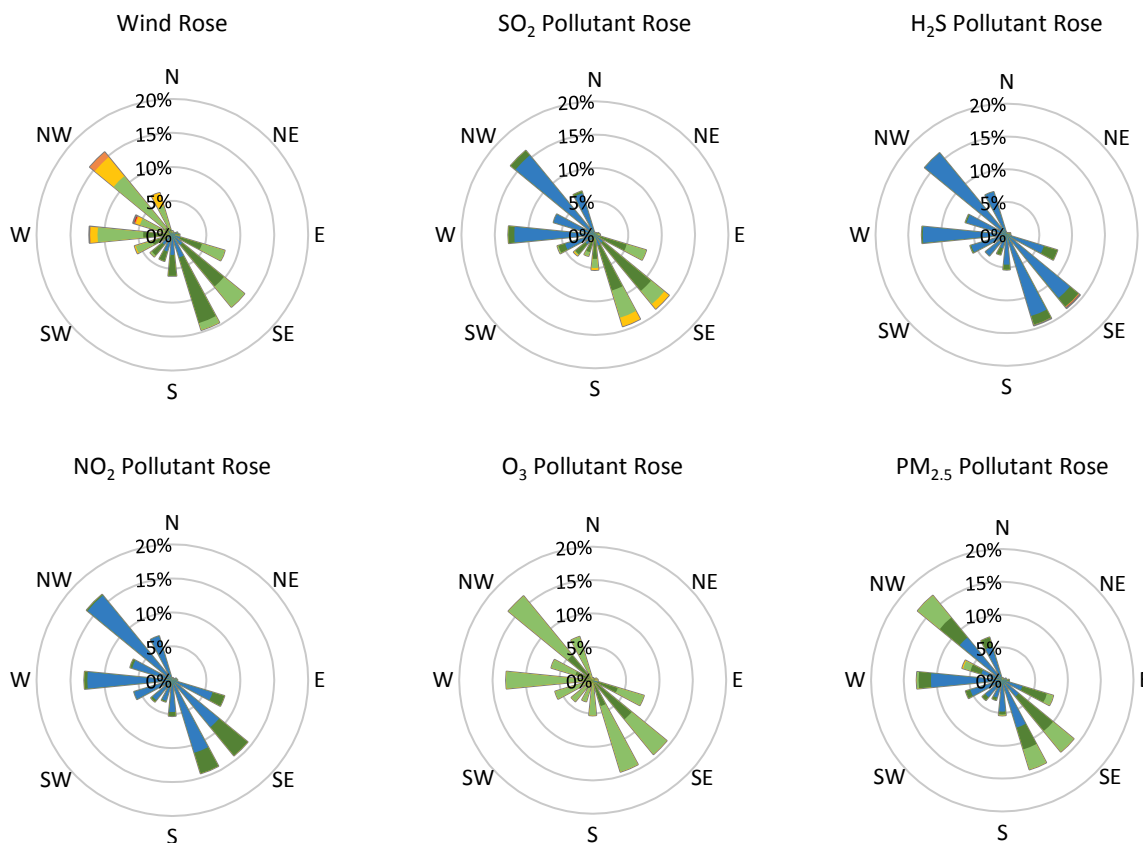
- Achieved >90% of scheduled uptime for all parameters
- Downtime of 4% results from daily internal zeroes and spans

SESAA Weyburn Station - January 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	0.6	96%	1.2	Jan-13	-	-	5.6	Jan-21 20:00	-	-
NO ₂	ppb	2.9	96%	6.6	Jan-09	106	0	10.6	Jan-09 17:00	159	0
NO _x	ppb	3.5	96%	7.4	Jan-09	-	-	11.3	Jan-13 12:00	-	-
SO ₂	ppb	2.2	96%	7.4	Jan-16	48	0	24.4	Jan-01 12:00	172	0
H ₂ S	ppb	0.6	95%	1.6	Jan-29	3.6	0	19.2	Jan-29 09:00	11	2
O ₃	ppb	24.2	96%	34.2	Jan-02	-	-	37.9	Jan-16 14:00	82	0
PM _{2.5}	µg/m ³	2.2	100%	4.9	Jan-26	28	0	10.2	Jan-30 13:00	-	-

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	$0 \leq C < 1$	$1 \leq C < 3.6$	$3.6 \leq C < 5$	$5 \leq C < 8$	$8 \leq C < 10.8$	$C \geq 10.8$	
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
Jan-18 11:00	1.8	3.3	0.9	6.9	28.8	4.2	15.0	1.4	0.3	168.5	1.2
Jan-29 09:00	1.3	5.4	1.7	3.3	13.5	7.2	19.2	2.0	-19.8	129.8	2.0