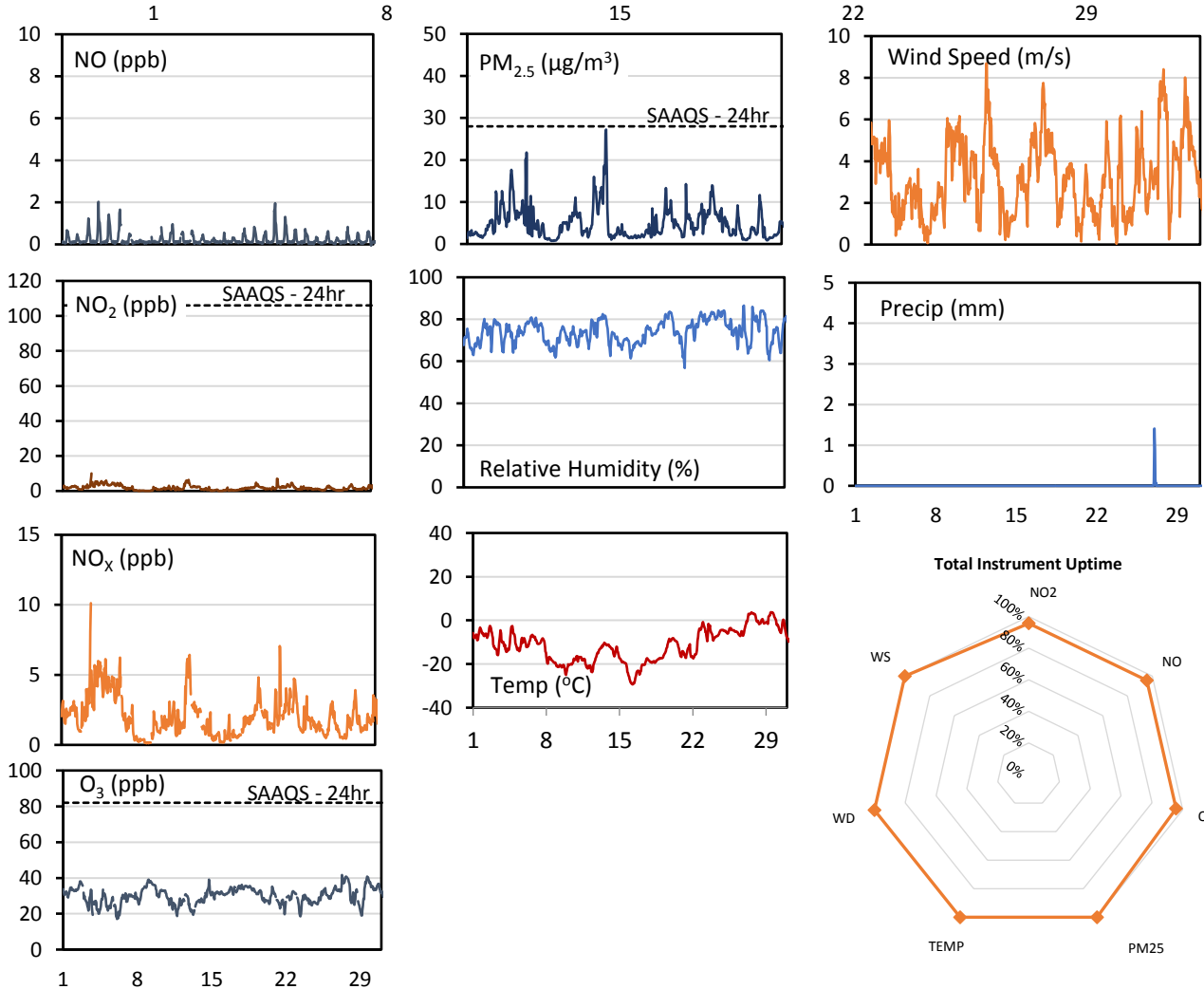
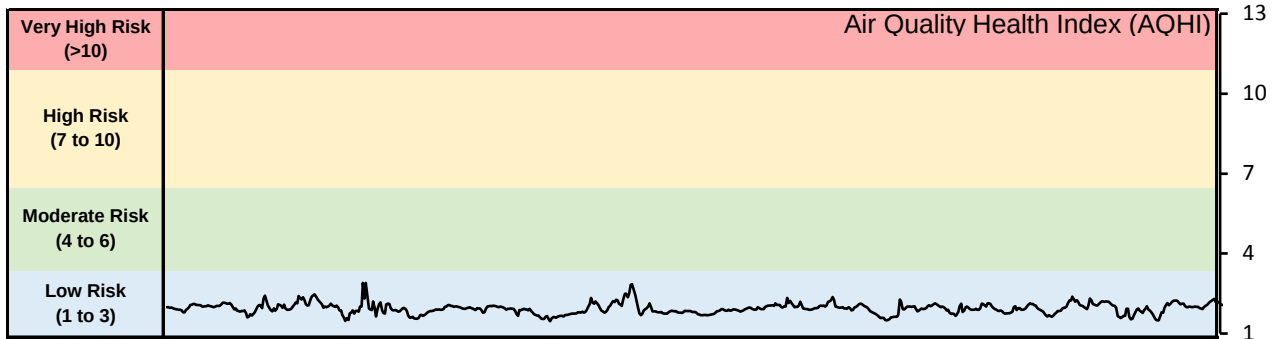


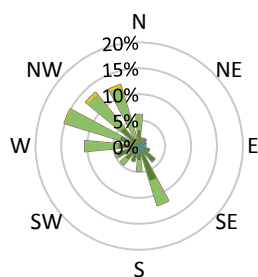
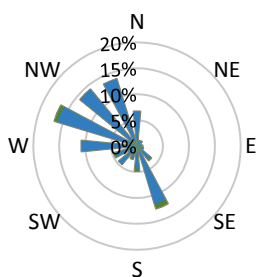
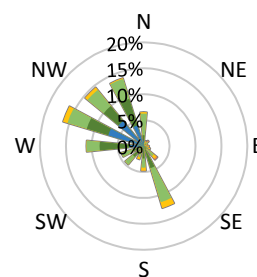
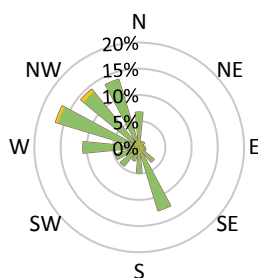
SESAA Esterhazy Station - January 2016 Summary Report

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	0.2	96%	0.4	Jan-21	-	-	2.0	Jan-04 12:00	-	-
NO ₂	ppb	1.8	96%	4.3	Jan-04	106	0	10.0	Jan-03 19:00	159	0
NO _x	ppb	2.0	96%	4.7	Jan-04	-	-	10.1	Jan-03 19:00	-	-
O ₃	ppb	30.1	96%	37.3	Jan-27	-	-	41.7	Jan-27 07:00	82	0
PM _{2.5}	µg/m ³	4.8	100%	11.0	Jan-13	28	0	27.2	Jan-14 06:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



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

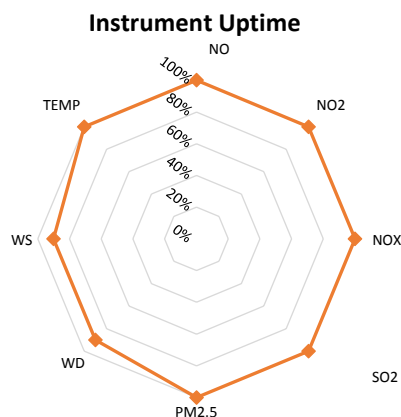
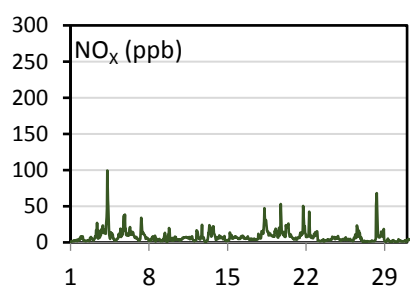
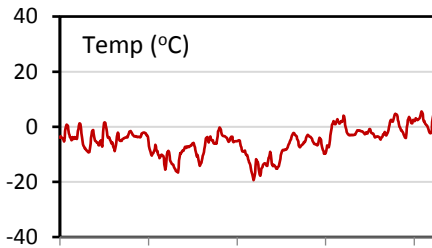
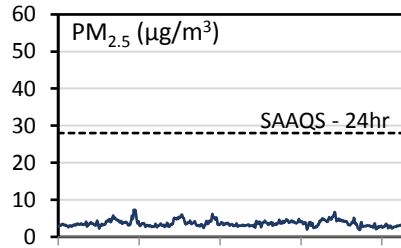
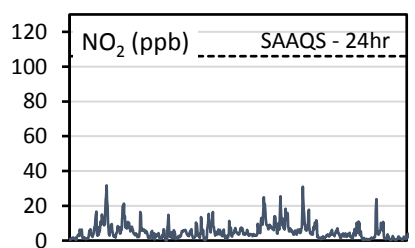
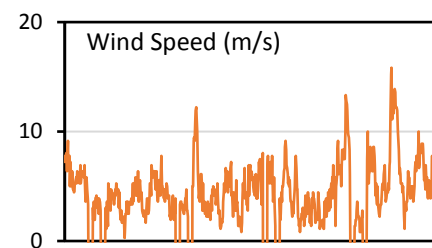
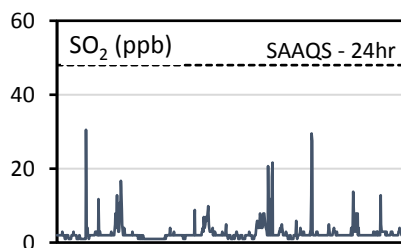
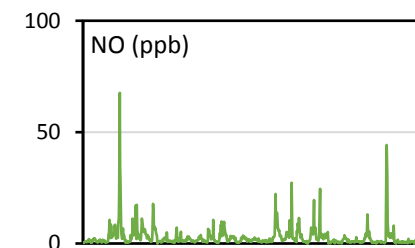
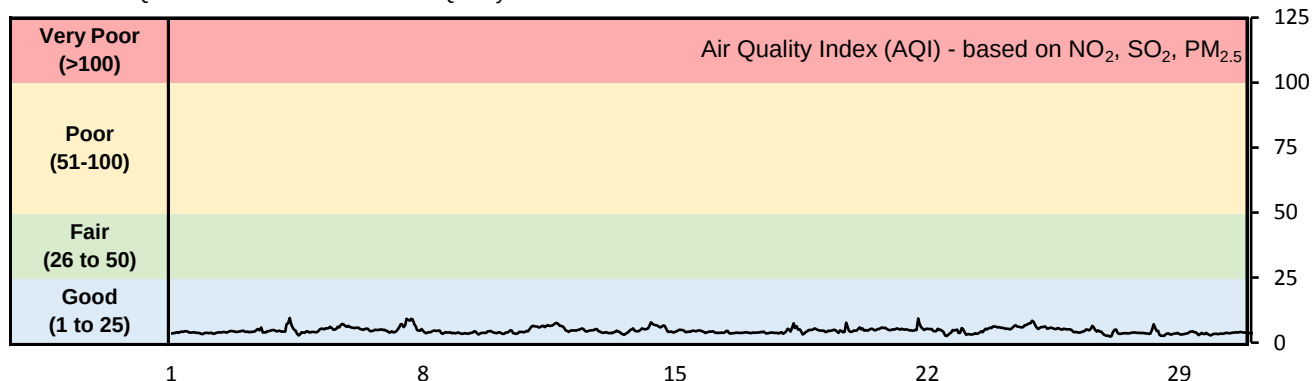
Monthly Update

- Achieved 100% of scheduled uptime for all parameters
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity; no operational issues

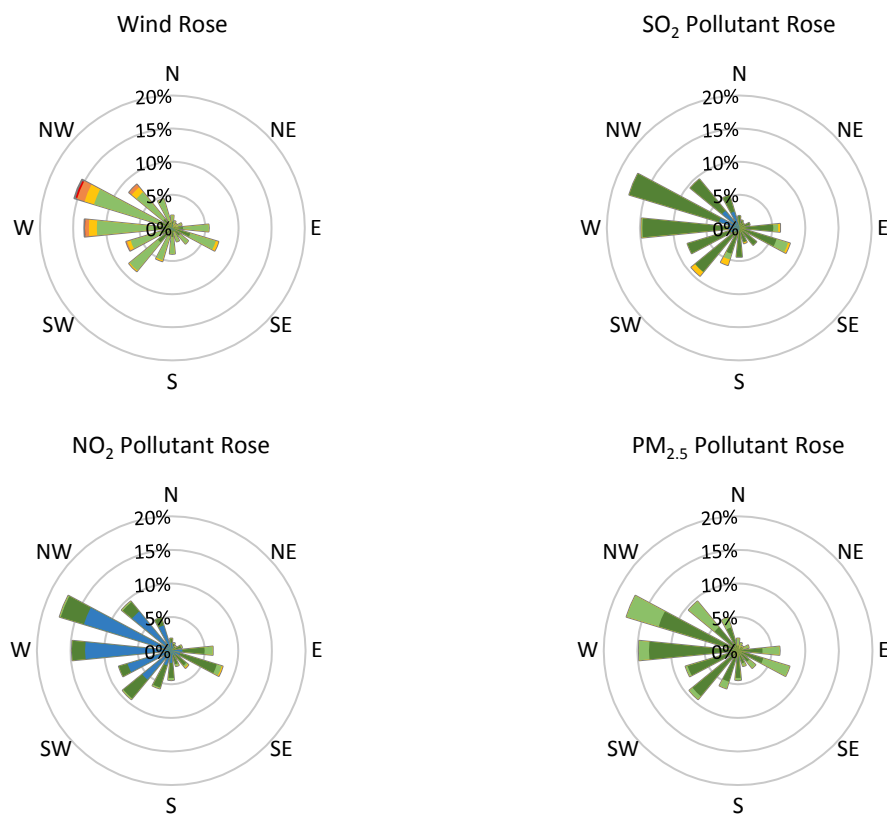
SESAA Estevan Station - January 2016 Summary Report

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	2.8	100%	9.5	Jan-04	-	-	67.6	Jan-04 07:00	-	-
NO ₂	ppb	5.1	100%	11.6	Jan-18	106	0	31.7	Jan-04 07:00	159	0
NO _x	ppb	7.9	100%	20.3	Jan-04	-	-	99.3	Jan-04 07:00	-	-
SO ₂	ppb	2.6	100%	5.6	Jan-06	48	0	30.5	Jan-03 12:00	172	0
PM _{2.5}	µg/m ³	3.6	100%	5.1	Jan-11	28	0	7.3	Jan-07 13:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



SESAA Estevan Station - January 2016 Summary Report



Parameters	Unit	Color Code for Wind Speed and Pollution Concentration Class						
Wind Speed	m/s	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$	
NO ₂	ppb	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C < 212$	$C \geq 212$	
SO ₂	ppb	$1 \leq C < 5$	$6 \leq C < 15$	$16 \leq C < 30$	$31 \leq C < 100$	$101 \leq C < 212$	$C \geq 213$	
PM _{2.5}	µg/m ³	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

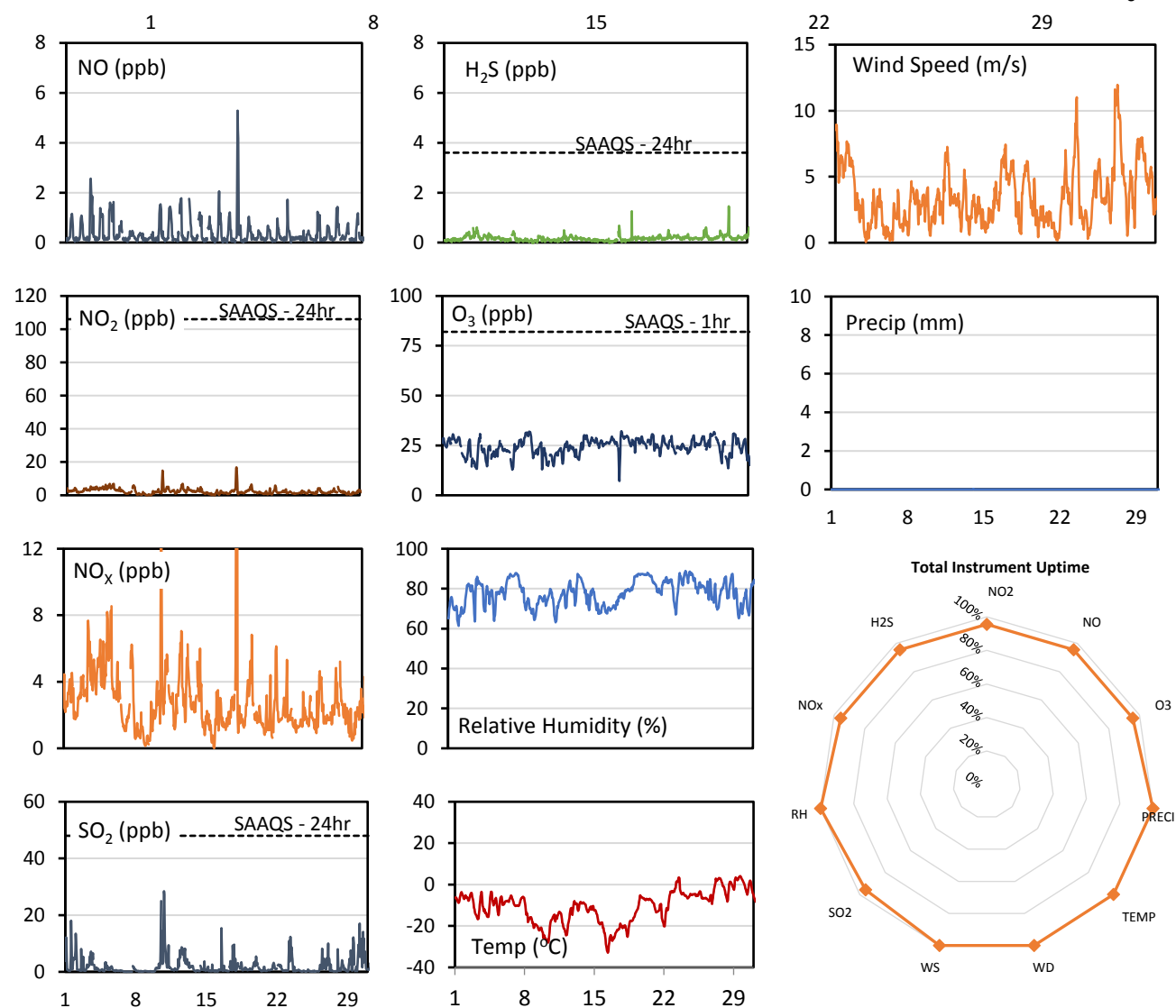
Monthly Update

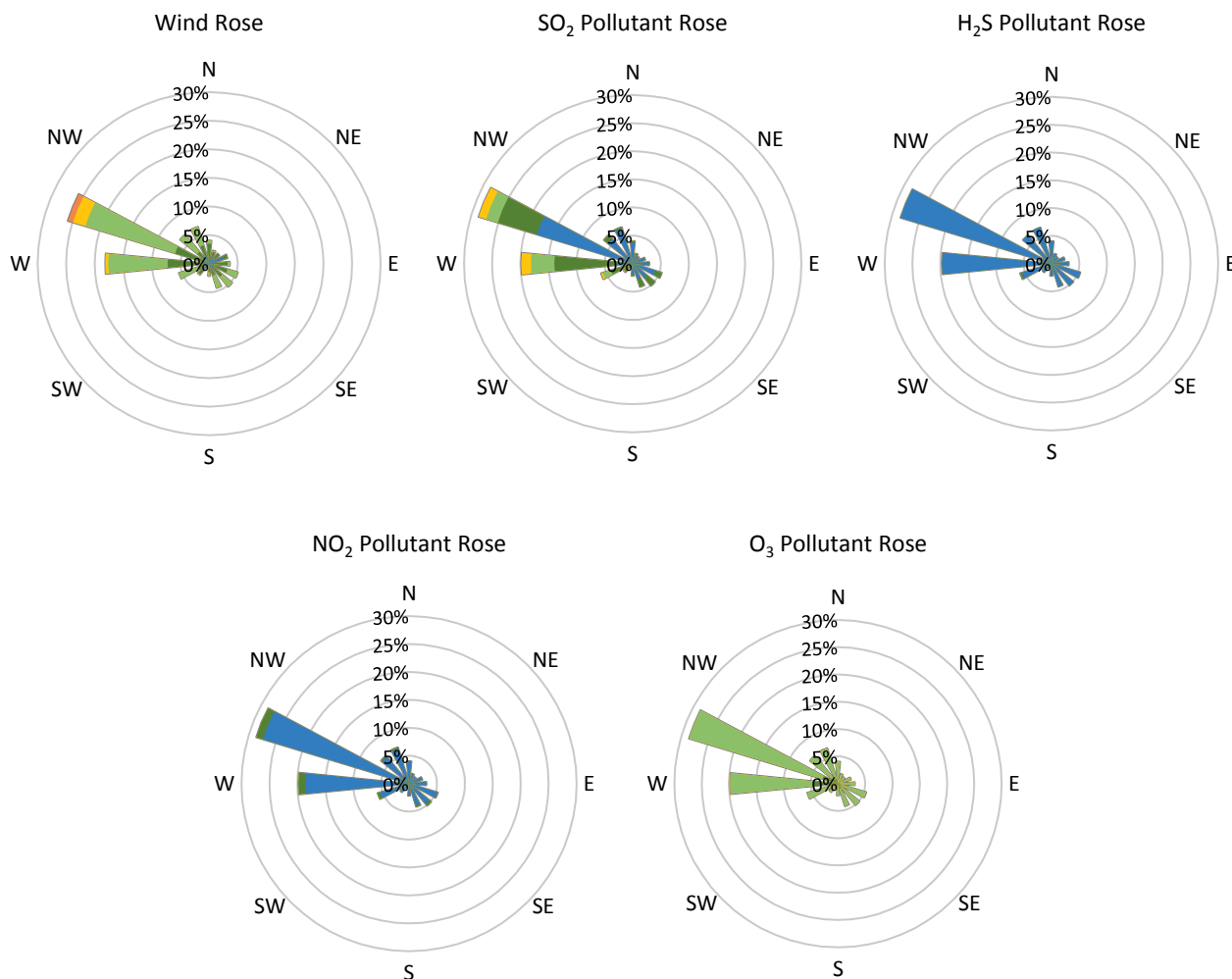
- Achieved 100% of scheduled uptime for all parameters except wind speed and direction (90%)
- All compliance parameters are above 90% data validity; no operational issues
- Wind speed and direction data was taken from Estevan airport during instrument downtime

SESAA Glen Ewen Station - January 2016 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	0.4	96%	0.9	Jan-18	-	-	5.3	Jan-18 09:00	-	-
NO ₂	ppb	2.4	96%	4.8	Jan-05	106	0	16.8	Jan-18 09:00	159	0
NO _x	ppb	2.7	96%	5.5	Jan-05	-	-	22.1	Jan-18 09:00	-	-
SO ₂	ppb	2.0	96%	7.6	Jan-10	48	0	28.4	Jan-10 19:00	172	0
H ₂ S	ppb	0.2	96%	0.3	Jan-31	3.6	0	1.5	Jan-29 04:00	11	0
O ₃	ppb	24.2	96%	28.9	Jan-27	-	-	32.1	Jan-18 14:00	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	$0 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 40$	$40 \leq C < 60$	$60 \leq C < 82$	$C \geq 82$

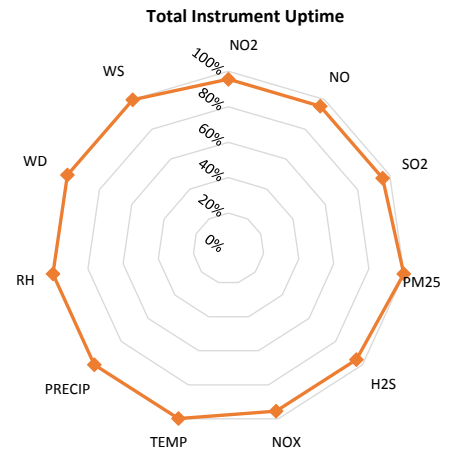
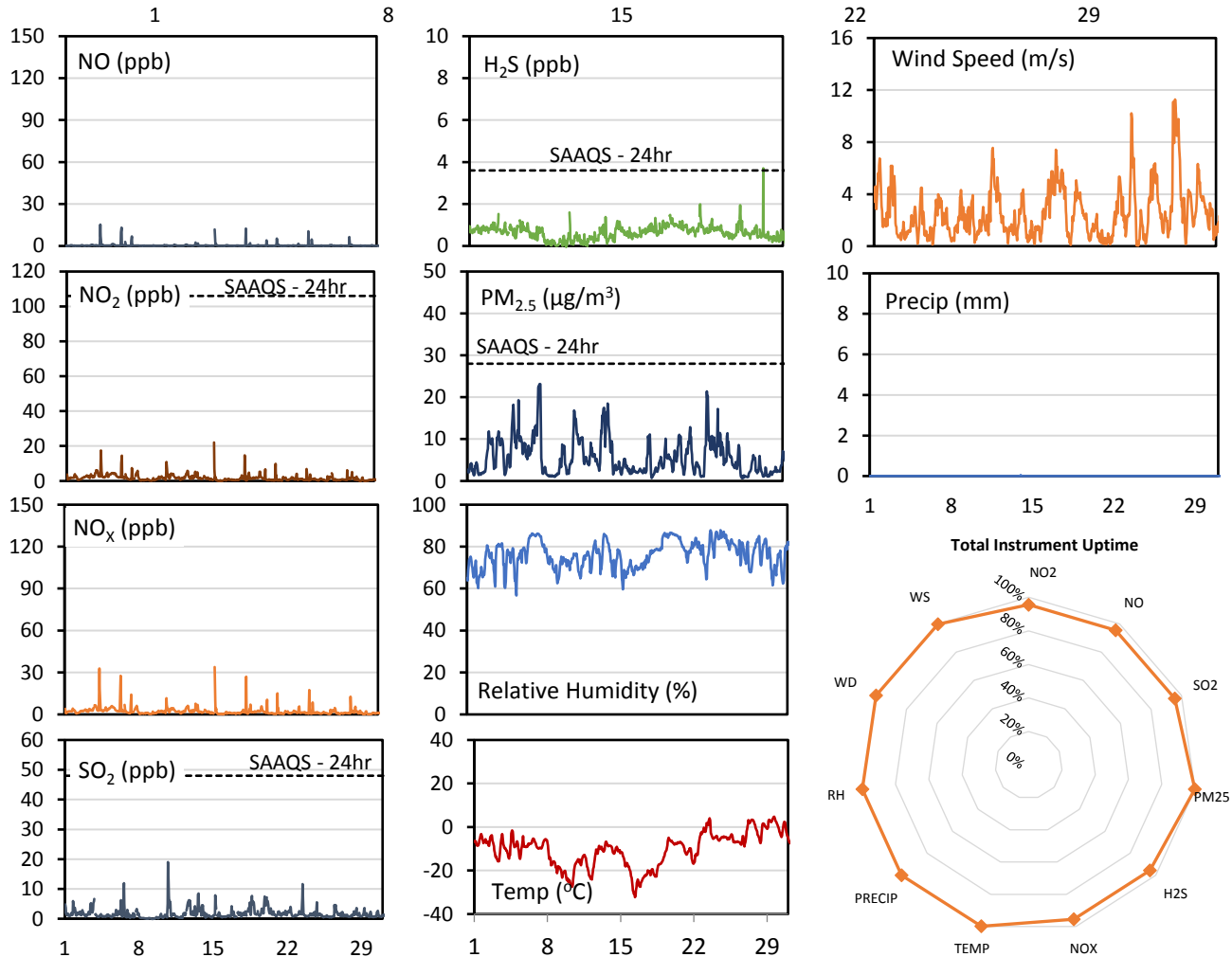
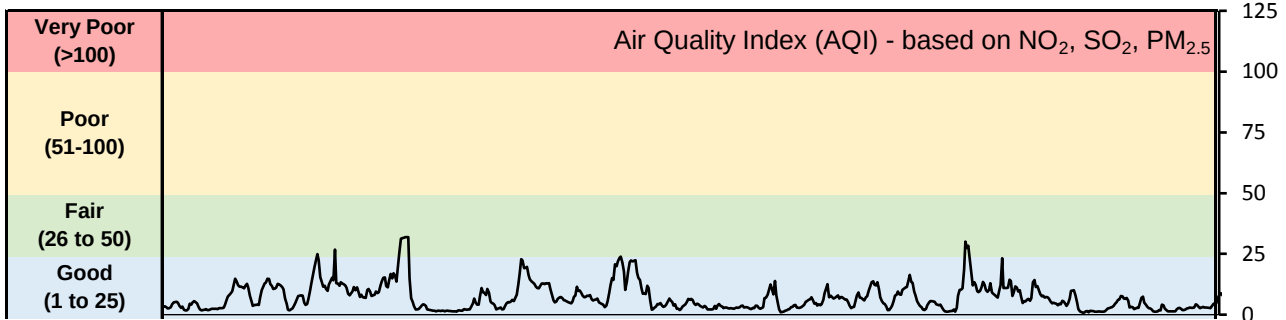
Monthly Update

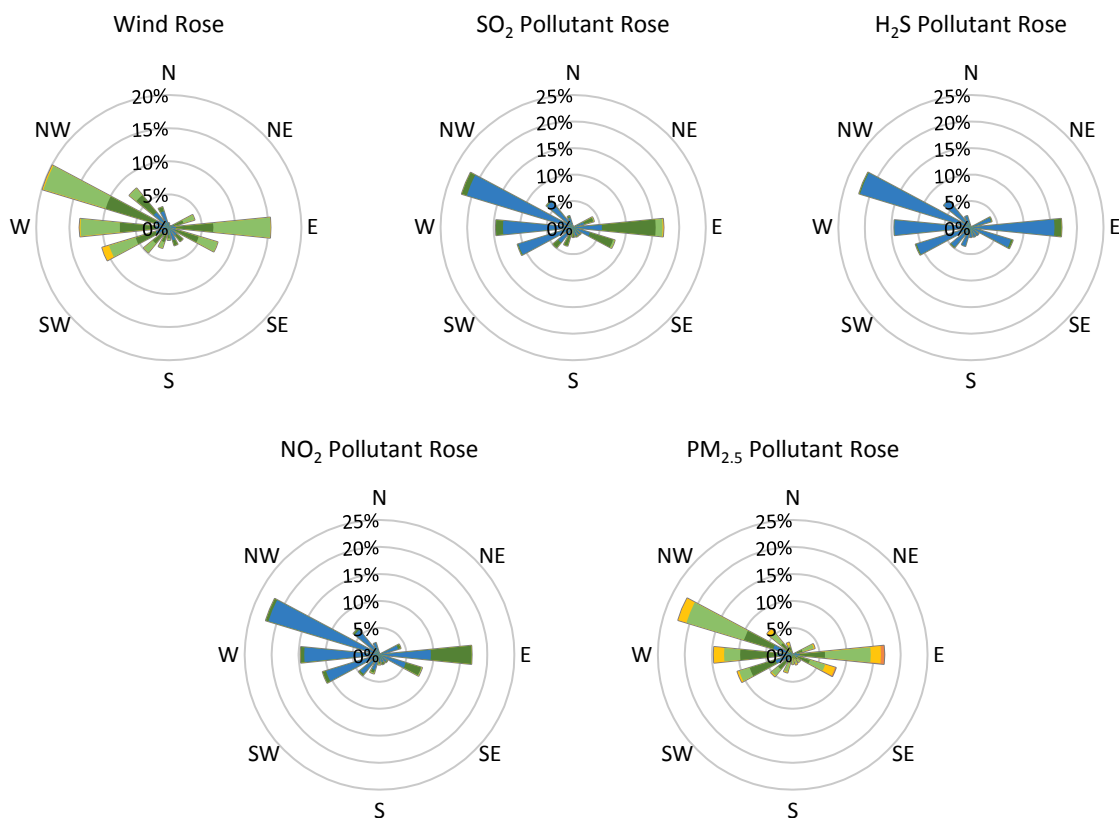
- Achieved 100% of scheduled uptime
- Downtime results from routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity; no operational issues

SESAA Oxbow Station - January 2016 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	0.4	96%	1.5	Jan-06	-	-	15.3	Jan-04 08:00	-	-
NO ₂	ppb	1.7	96%	4.1	Jan-04	106	0	22.1	Jan-15 09:00	159	0
NO _x	ppb	2.2	96%	5.5	Jan-04	-	-	33.9	Jan-15 09:00	-	-
SO ₂	ppb	1.7	96%	3.4	Jan-18	48	0	19.0	Jan-10 18:00	172	0
H ₂ S	ppb	0.6	96%	1.1	Jan-20	3.6	0	3.7	Jan-29 03:00	11	0
PM _{2.5}	µg/m ³	5.6	100%	13.9	Jan-07	28	0	23.1	Jan-07 21:00	-	-

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}	µg/m ³	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

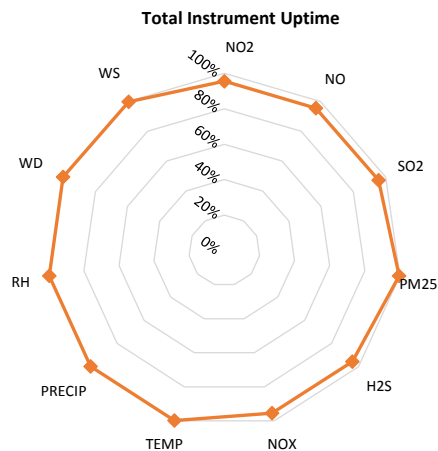
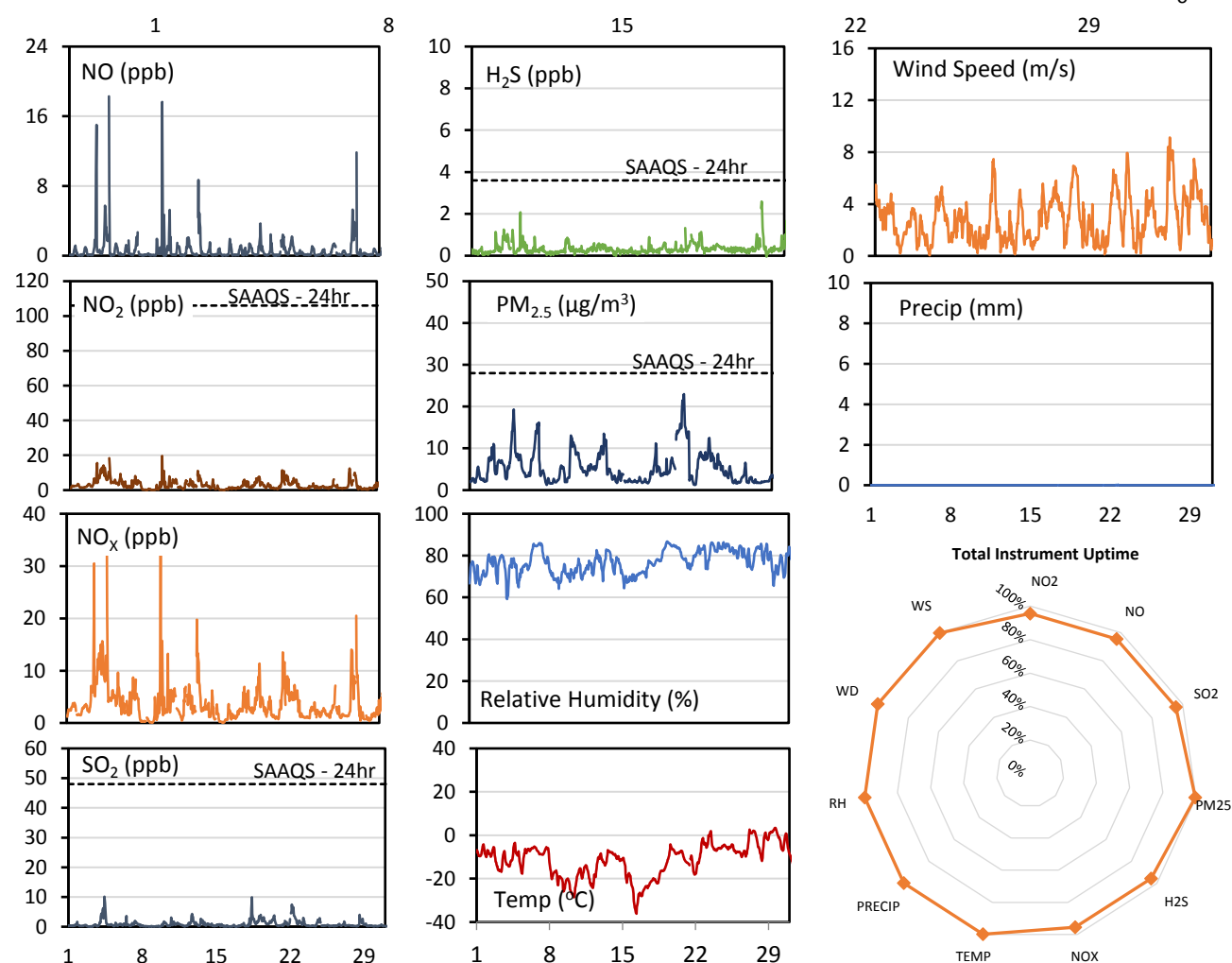
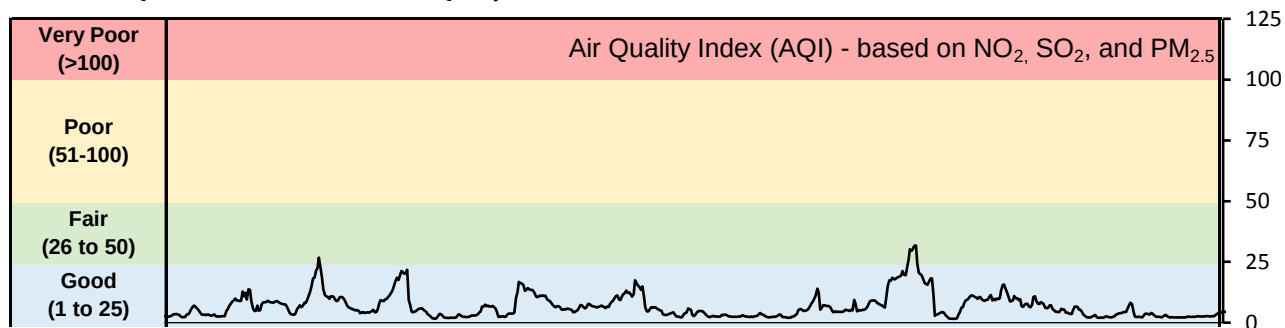
Monthly Update

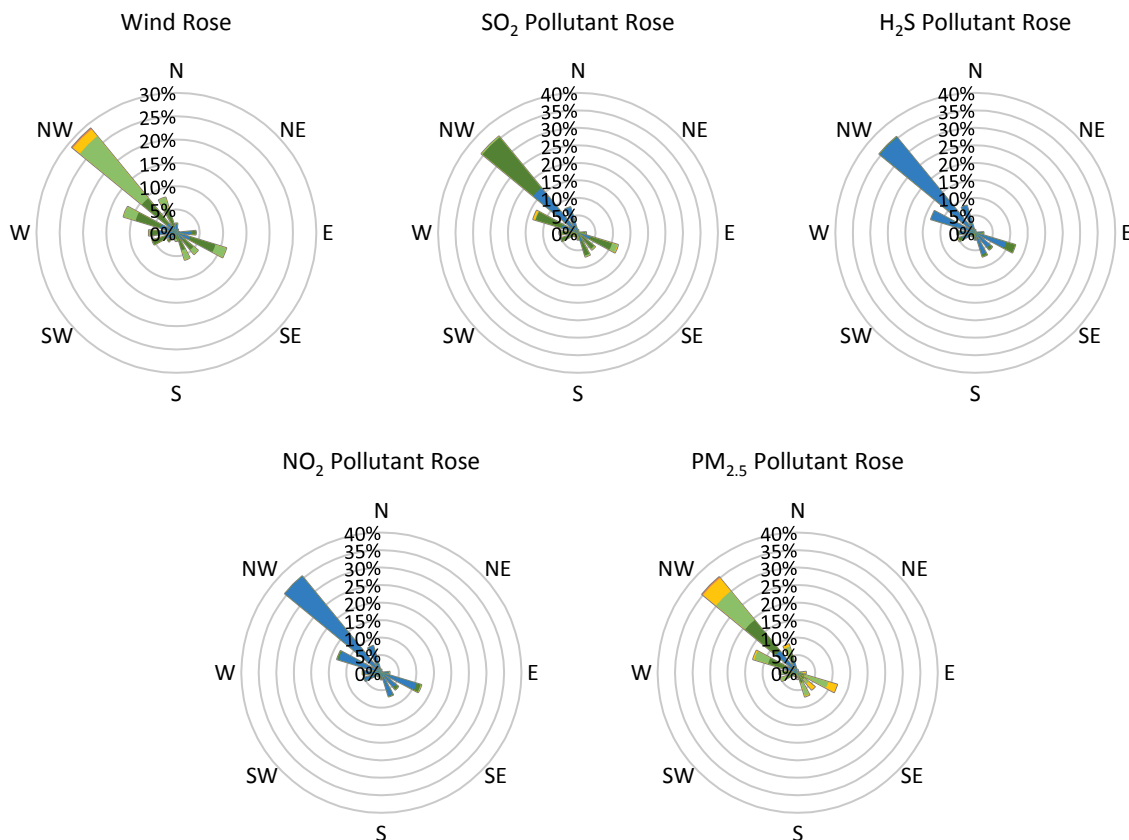
- Achieved >99% of scheduled uptime for all parameters
- Downtime due to routine daily internal zeroes and spans
- All compliance parameters are above 90% validity

SESAA Stoughton Station - January 2016 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	0.7	96%	2.7	Jan-04	-	-	18.3	Jan-04 20:00	-	-
NO ₂	ppb	3.0	96%	10.0	Jan-04	106	0	19.6	Jan-10 00:00	159	0
NO _x	ppb	3.7	96%	12.7	Jan-04	-	-	37.3	Jan-10 00:00	-	-
SO ₂	ppb	0.9	96%	3.1	Jan-22	48	0	10.1	Jan-04 10:00	172	0
H ₂ S	ppb	0.3	96%	0.8	Jan-28	3.6	0	2.6	Jan-28 20:00	11	0
PM _{2.5}	µg/m ³	5.3	100%	13.9	Jan-22	28	0	23.0	Jan-22 07:00	-	-

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

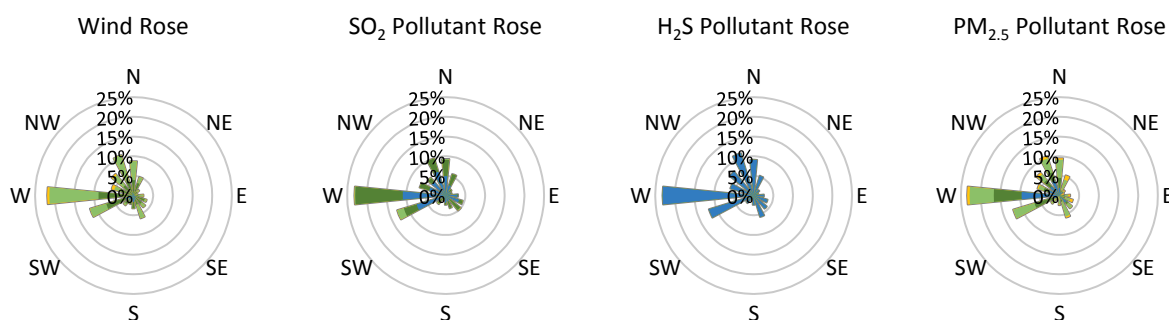
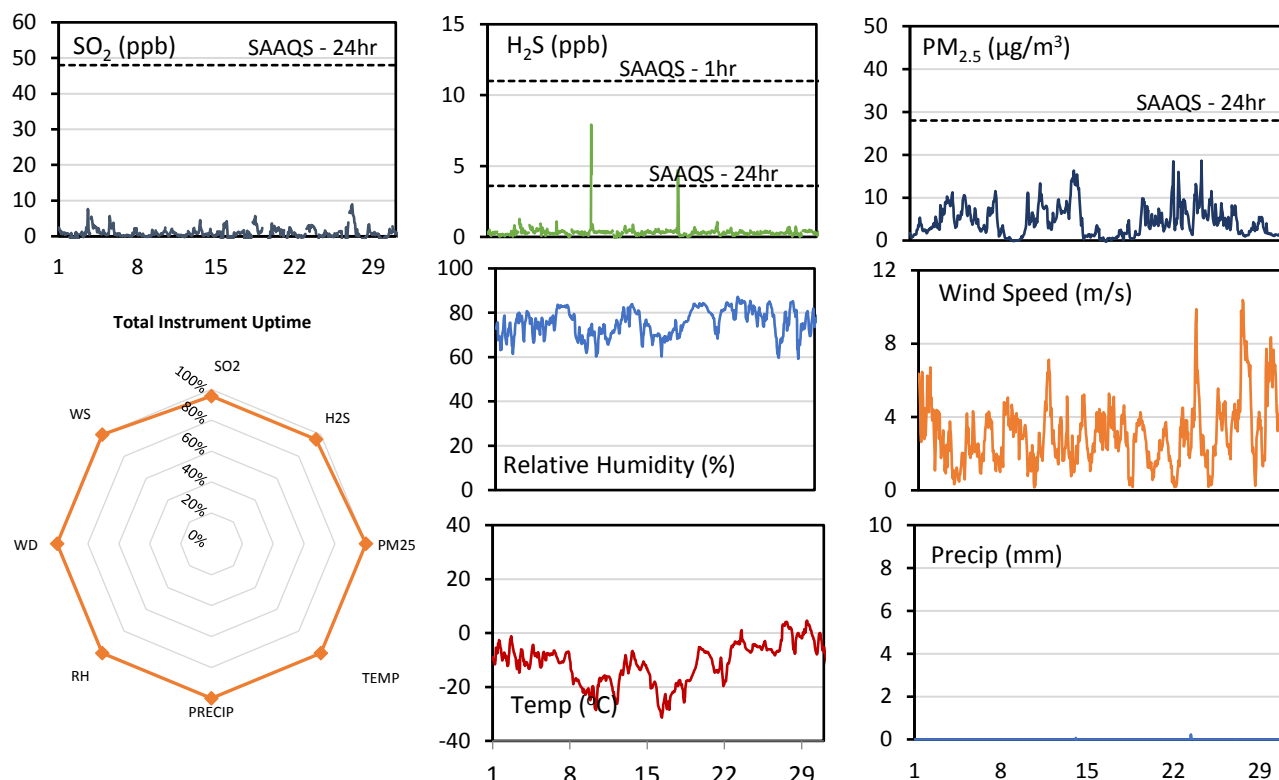
Monthly Update

- Achieved 100% of scheduled uptime
- All compliance parameters are above 90% data validity; no operational issues
- Downtime results from routine daily internal zeroes and spans

SESAA Wauchope Station - January 2016 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 ₂	ppb	0.7	96%	2.7	Jan-27	48	0	9.0	Jan-27 03:00	172	0
H ₂ S	ppb	0.3	96%	0.9	Jan-10	3.6	0	7.9	Jan-10 11:00	11	0
PM _{2.5}	µg/m ³	4.4	100%	8.6	Jan-14	28	0	18.6	Jan-24 05:00	-	-

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
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

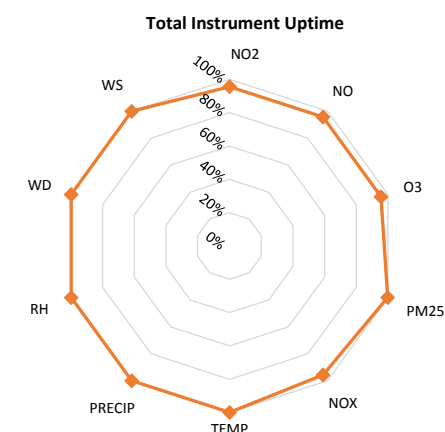
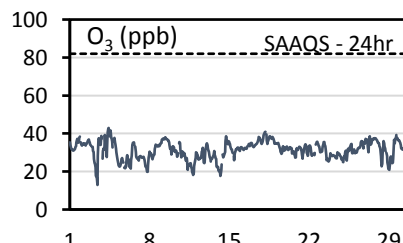
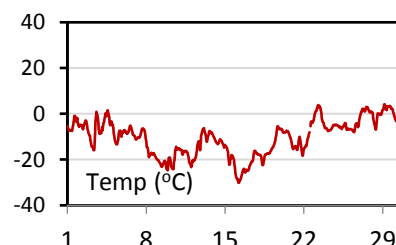
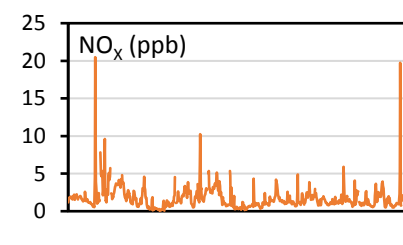
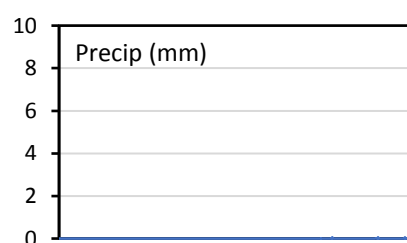
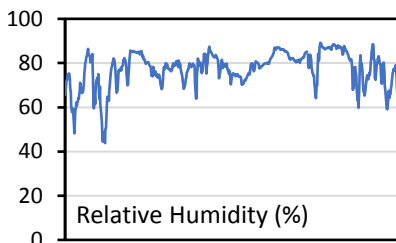
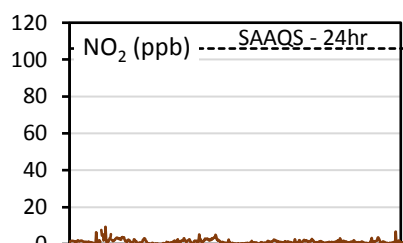
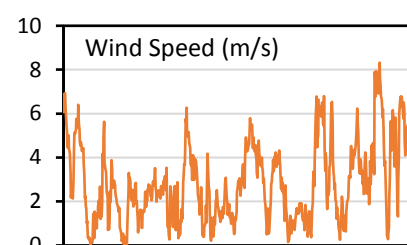
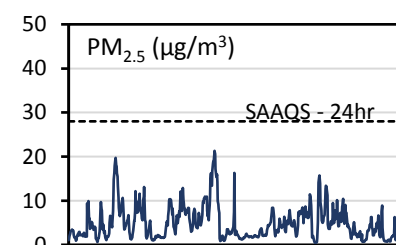
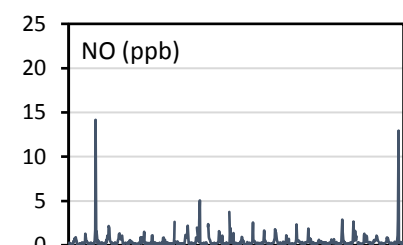
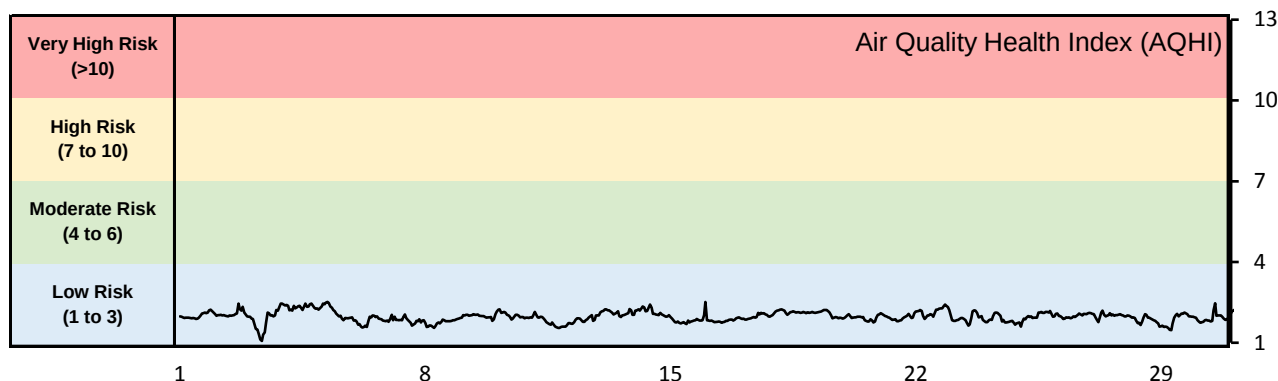
Monthly Update

- Achieved 100% of scheduled uptime
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity; no operational issues

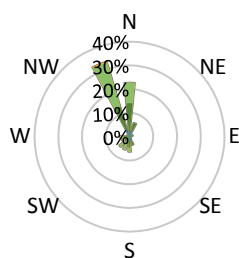
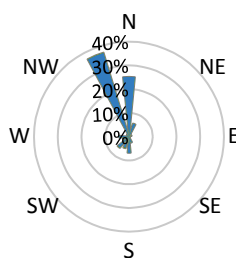
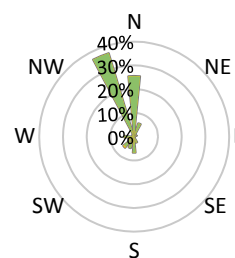
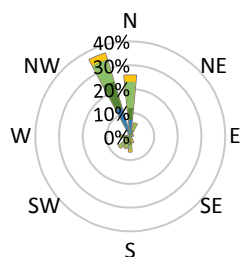
SESAA Wawota Station - January 2016 Summary Report

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	0.4	96%	1.0	Jan-03	-	-	14.2	Jan-03 10:00	-	-
NO ₂	ppb	1.3	96%	3.0	Jan-05	106	0	9.3	Jan-04 06:00	159	0
NO _x	ppb	1.7	96%	3.4	Jan-05	-	-	20.5	Jan-03 10:00	-	-
O ₃	ppb	31.3	96%	37.8	Jan-18	-	-	42.9	Jan-04 10:00	82	0
PM _{2.5}	µg/m ³	4.9	100%	12.1	Jan-05	28	0	21.3	Jan-14 05:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



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	

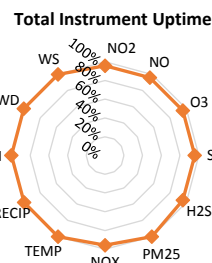
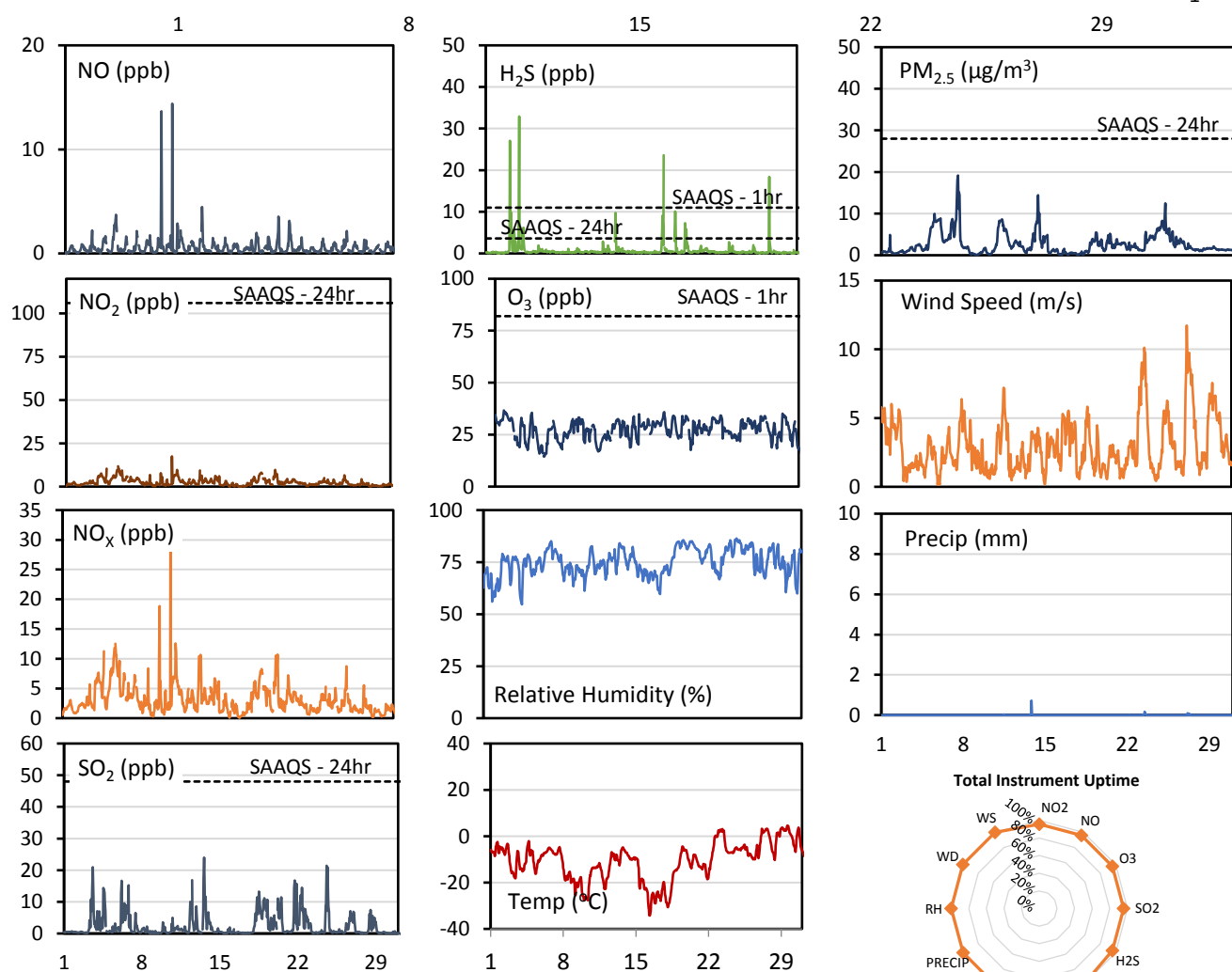
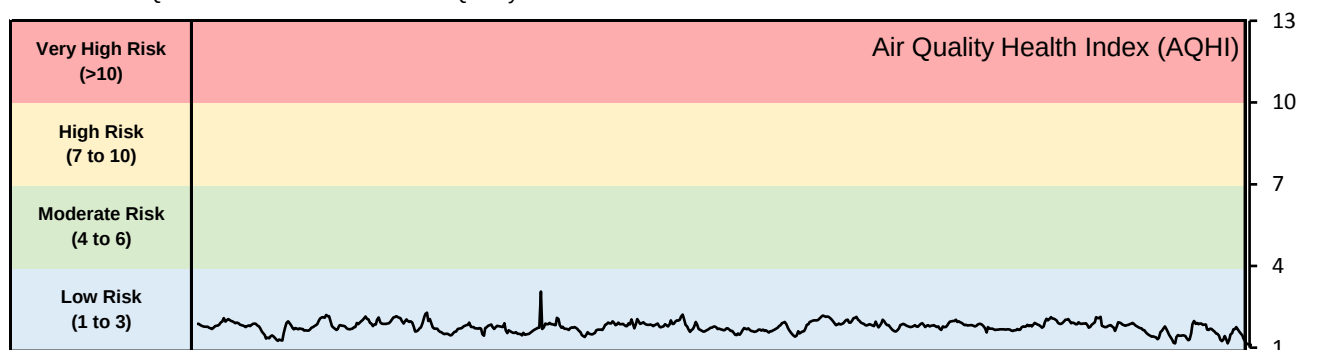
Monthly Update

- Achieved >99%% of scheduled uptime for all parameters
- Downtime due to routine daily internal zeroes and spans
- All compliance parameters are above 90% validity

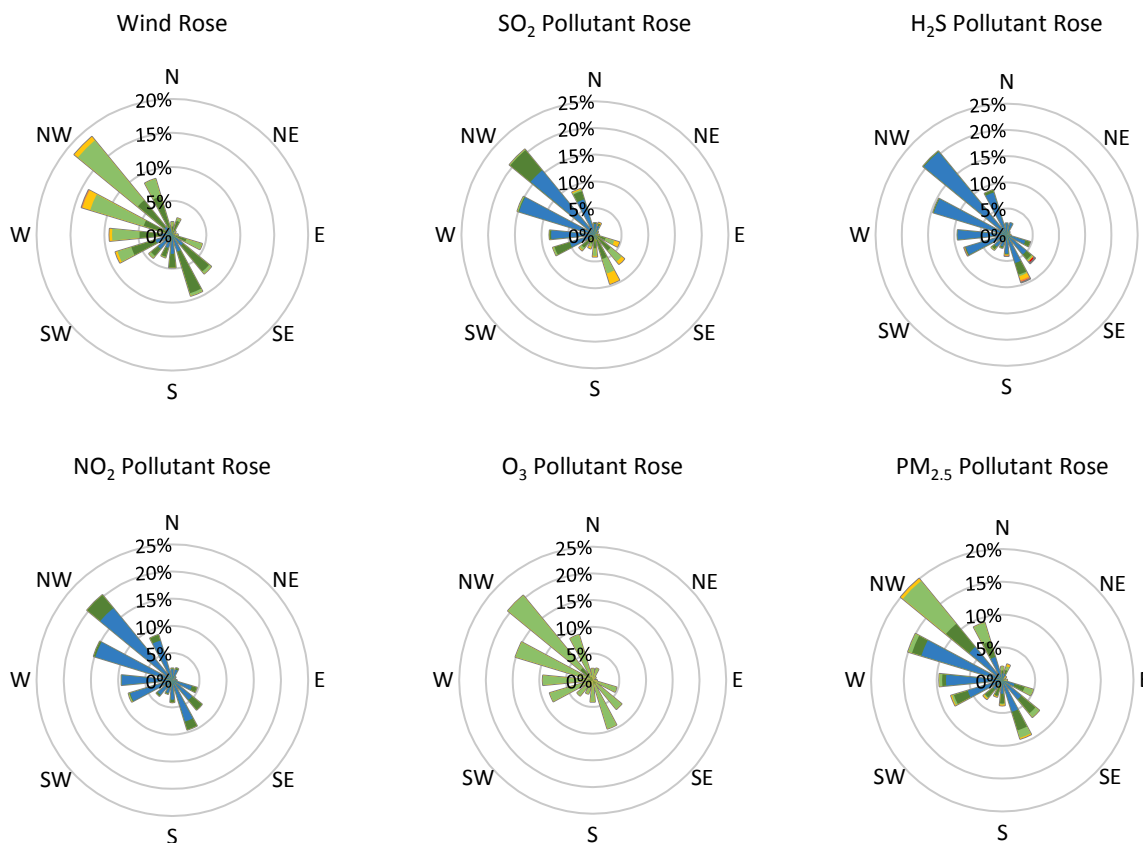
SESAA Weyburn Station - January 2016 Summary Report

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	0.6	96%	1.2	Jan-05	-	-	14.4	Jan-10 19:00	-	-
NO ₂	ppb	2.5	96%	6.2	Jan-05	106	0	17.4	Jan-10 19:00	159	0
NO _x	ppb	3.1	96%	7.4	Jan-05	-	-	31.8	Jan-10 19:00	-	-
SO ₂	ppb	2.3	96%	6.8	Jan-18	48	0	24.0	Jan-13 14:00	172	0
H ₂ S	ppb	0.7	96%	3.4	Jan-03	3.6	0	32.9	Jan-04 05:00	11	4
O ₃	ppb	27.1	96%	32.2	Jan-01	-	-	36.6	Jan-01 21:00	82	0
PM _{2.5}	µg/m ³	2.7	100%	8.2	Jan-07	28	0	19.2	Jan-07 13:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



SESAA Weyburn Station - January 2016 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 100% of scheduled uptime for all parameters
- Downtime due to routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity

Exceedance Summary (1- Hour Average - Exceedances Highlighted)

Exceedance Time	AQHI	NO ₂	NO	SO ₂	O ₃	NO _x	H ₂ S	PM _{2.5}	Temp	WD	WS
	-	ppb	ppb	ppb	ppb	ppb	ppb	$\mu\text{g}/\text{m}^3$	°C	deg	m/s
Jan-03 08:00	1.3	2.0	0.2	4.3	20.8	2.2	27.1	1.1	-18.1	134.0	1.6
Jan-04 05:00	1.7	7.4	0.0	1.8	17.6	7.4	32.9	2.7	-14.4	127.9	1.7
Jan-18 04:00	1.5	1.0	0.0	6.3	27.5	1.0	23.6	0.2	-29.2	146.7	1.5
Jan-28 08:00	1.4	4.2	1.3	1.1	18.8	5.5	18.4	1.0	-9.9	141.5	1.5