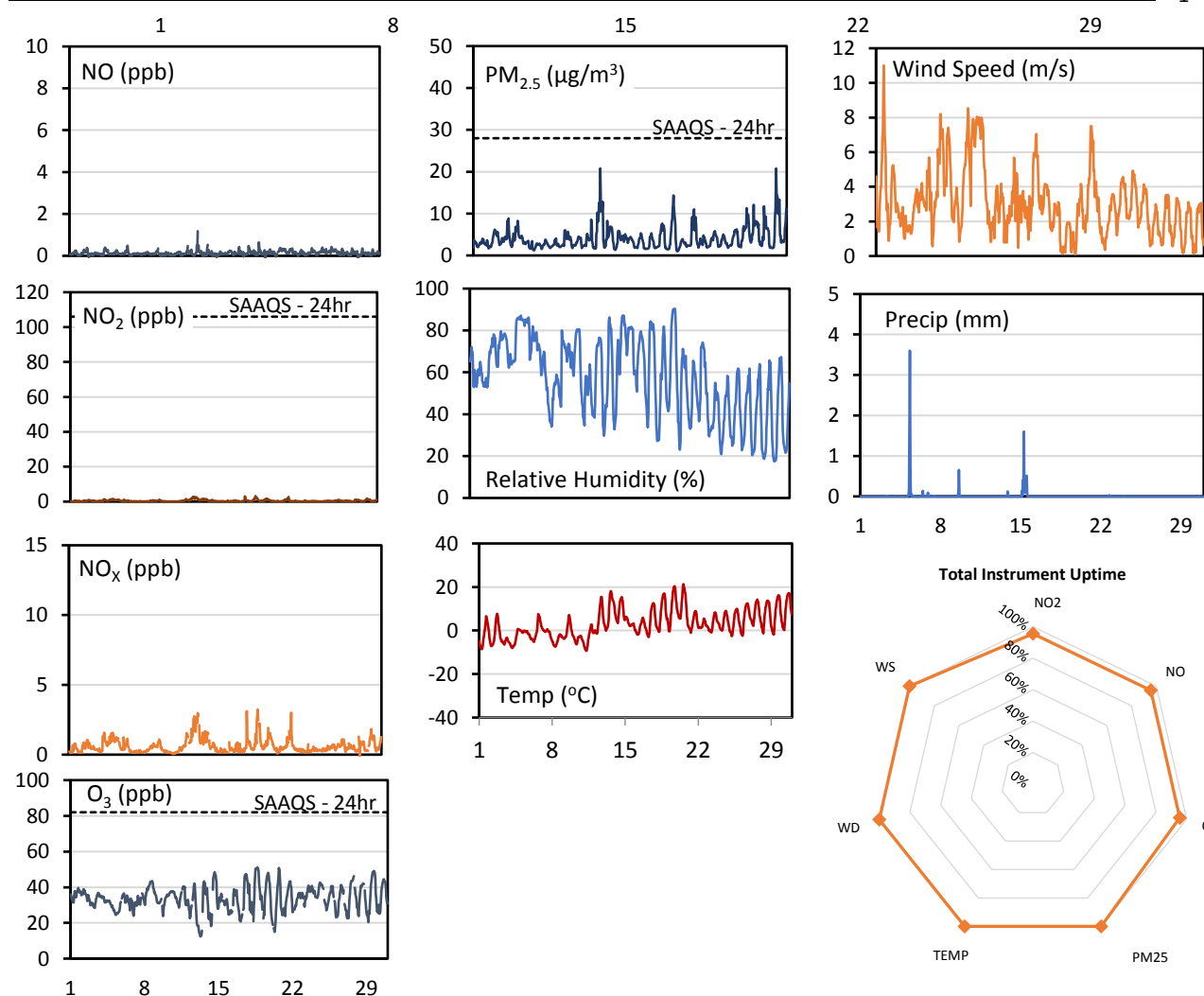
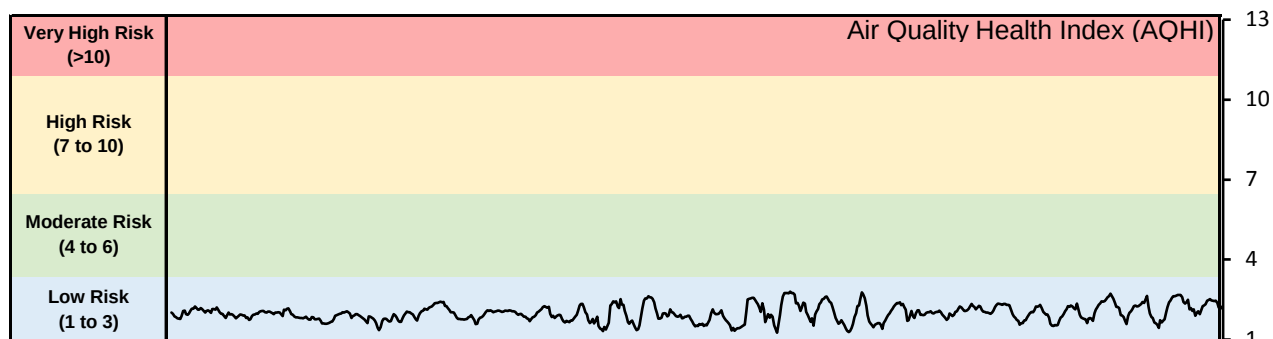


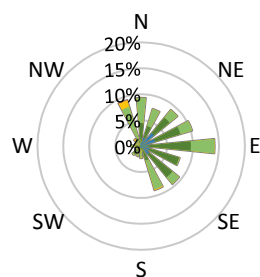
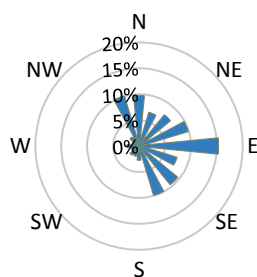
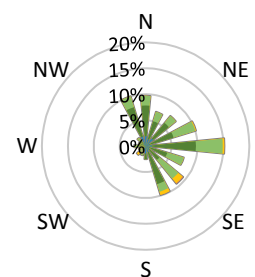
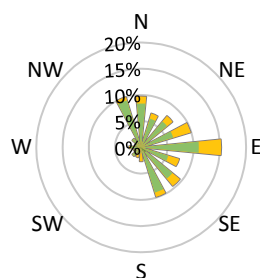
SESAA Esterhazy Station - April 2016 Summary Report

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	0.1	96%	0.2	Apr-26	-	-	1.2	Apr-13 10:00	-	-
NO ₂	ppb	0.5	96%	1.5	Apr-13	106	0	3.2	Apr-19 03:00	159	0
NO _x	ppb	0.6	96%	1.7	Apr-13	-	-	3.2	Apr-19 03:00	-	-
O ₃	ppb	33.7	96%	39.1	Apr-18	-	-	51.2	Apr-18 16:00	82	0
PM _{2.5}	µg/m ³	4.1	100%	8.0	Apr-30	28	0	20.8	Apr-13 04:00	-	-

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

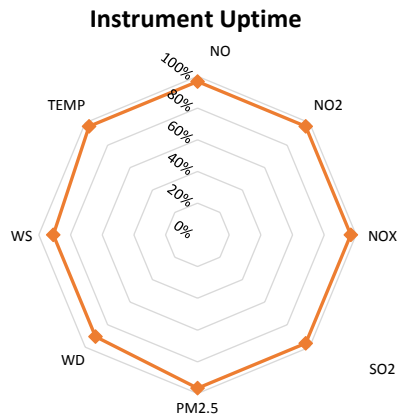
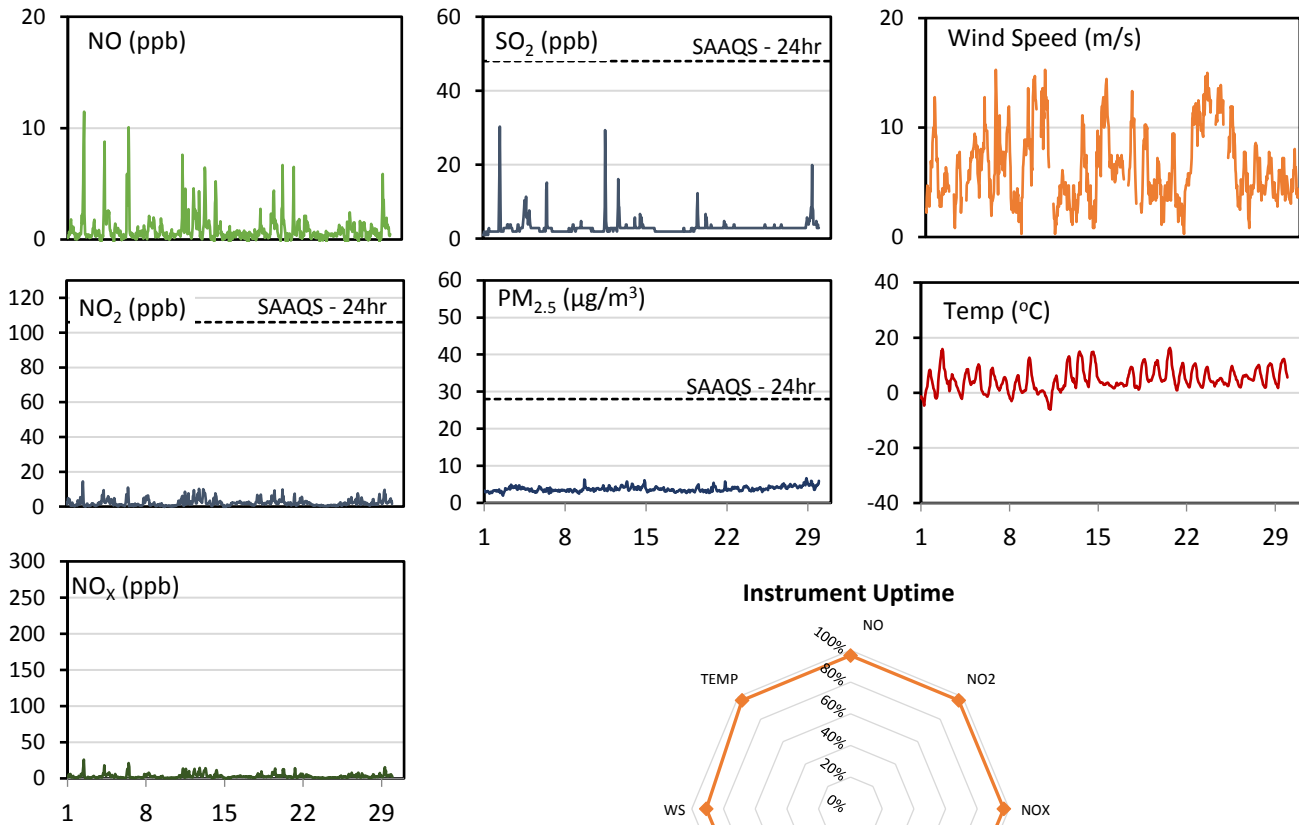
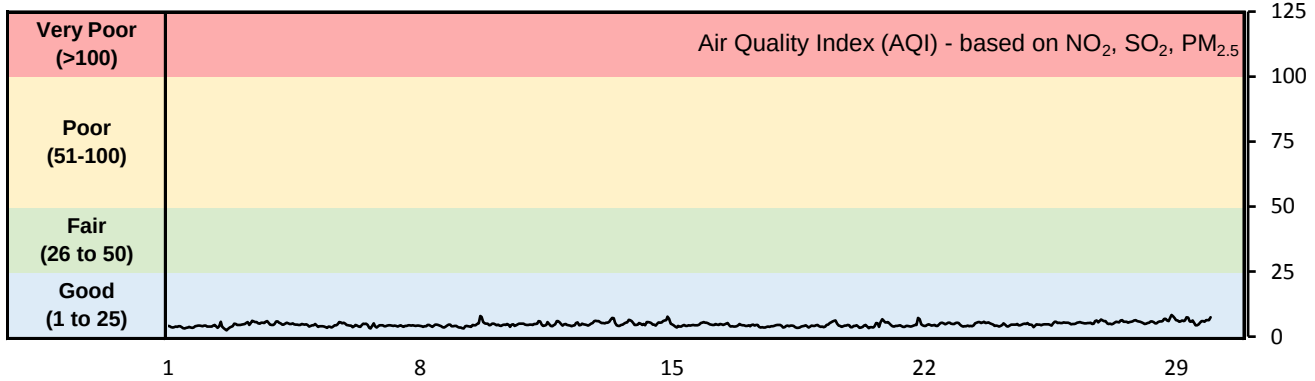
Monthly Update

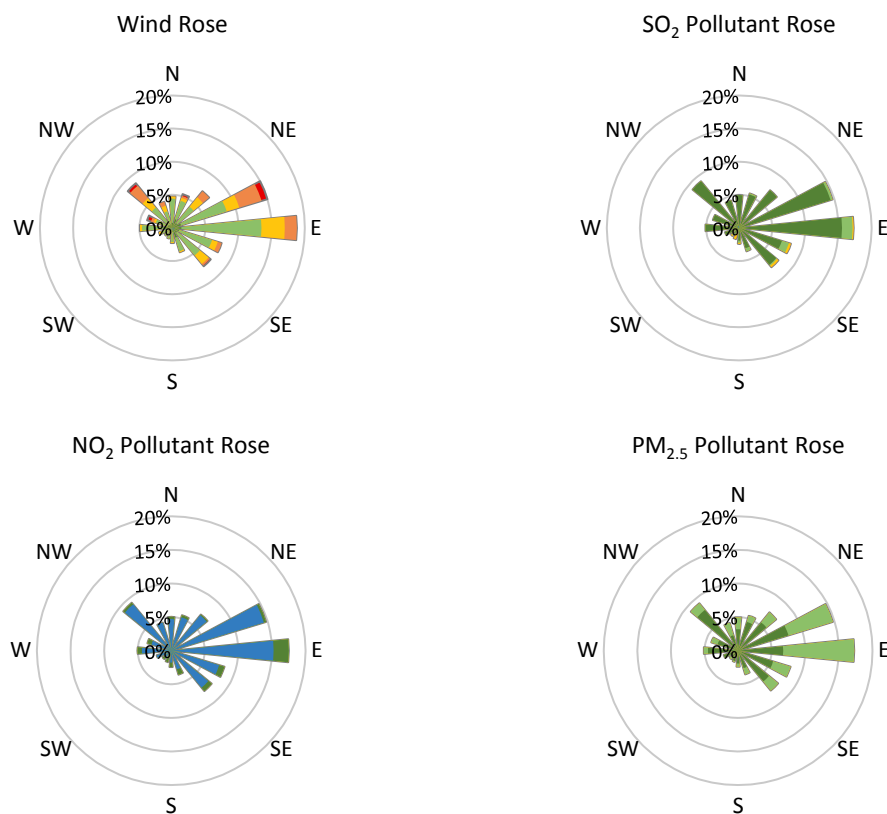
- Achieved >99% of scheduled uptime for all parameters
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity; no operational issues

SESAA Estevan Station - April 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	0.9	97%	1.8	Apr-04	-	-	11.5	Apr-02 11:00	-	-
NO ₂	ppb	2.2	97%	4.3	Apr-12	106	0	14.5	Apr-02 11:00	159	0
NO _x	ppb	3.1	97%	5.9	Apr-12	-	-	25.9	Apr-02 11:00	-	-
SO ₂	ppb	3.0	97%	5.3	Apr-29	48	0	30.3	Apr-02 11:00	172	0
PM _{2.5}	µg/m ³	3.8	97%	4.8	Apr-28	28	0	6.7	Apr-28 21:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards





Parameters	Unit	Color Code for Wind Speed and Pollution Concentration Class						
Wind Speed	m/s	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$	
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	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

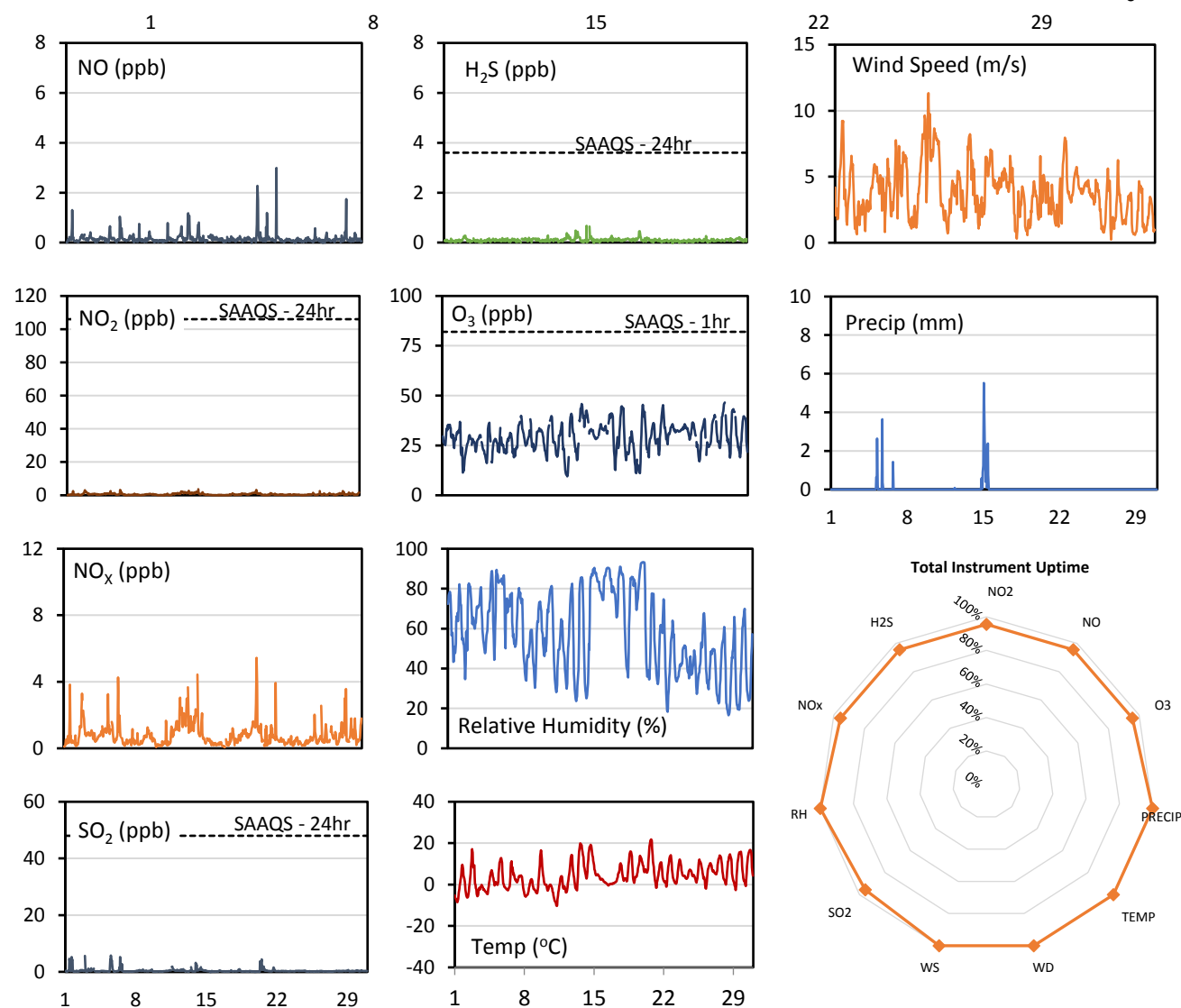
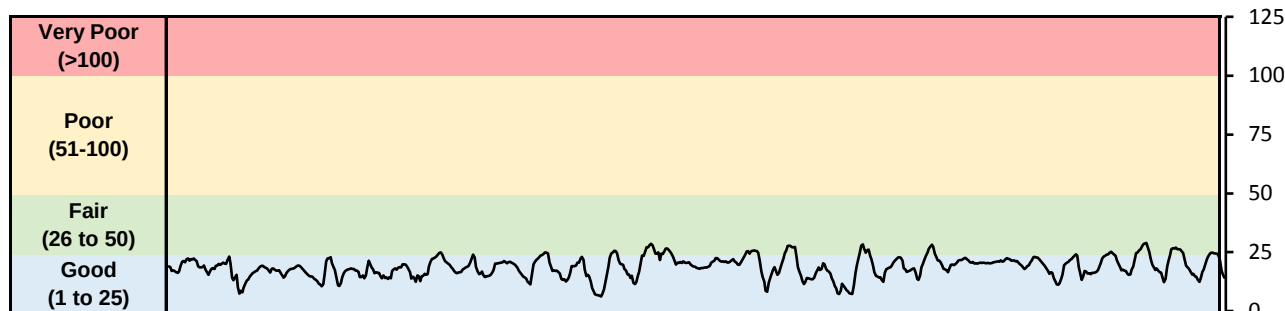
Monthly Update

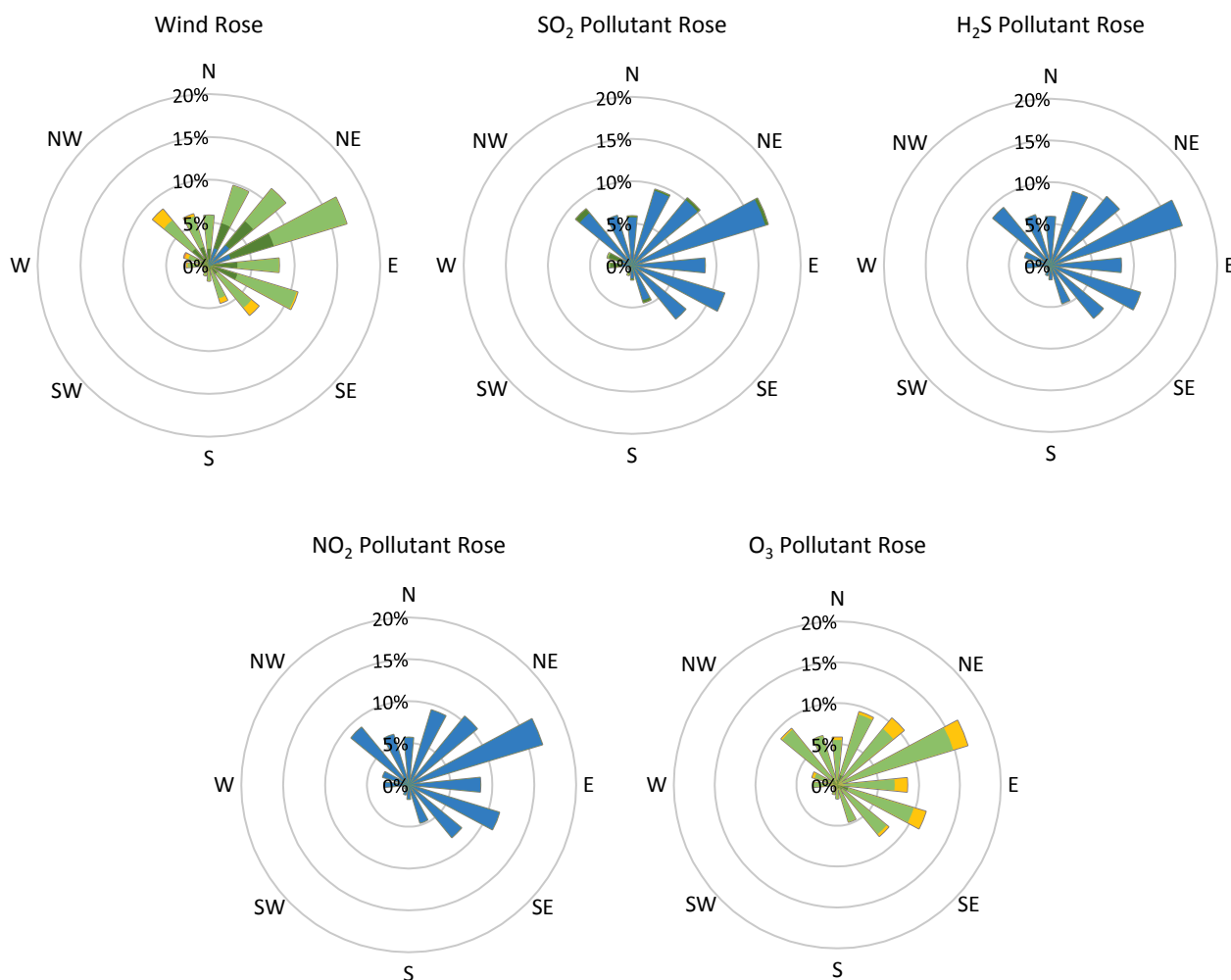
- Achieved 97% of scheduled uptime for all parameters except wind speed and direction (data discarded)
- All compliance parameters are above 90% data validity
- No operational issues except for wind speed and direction
- Wind direction and speed taken from Estevan airport

SESAA Glen Ewen Station - April 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	Apr-20	-	-	3.0	Apr-22 08:00	-	-
NO ₂	ppb	0.6	96%	1.5	Apr-13	106	0	3.6	Apr-14 11:00	159	0
NO _x	ppb	0.8	96%	1.8	Apr-13	-	-	5.4	Apr-20 10:00	-	-
SO ₂	ppb	0.4	96%	1.3	Apr-01	48	0	5.8	Apr-05 13:00	172	0
H ₂ S	ppb	0.1	96%	0.2	Apr-20	3.6	0	0.7	Apr-15 03:00	11	0
O ₃	ppb	29.4	96%	34.9	Apr-15	-	-	46.5	Apr-28 18:00	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	$0 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 40$	$40 \leq C < 60$	$60 \leq C < 82$	$C \geq 82$

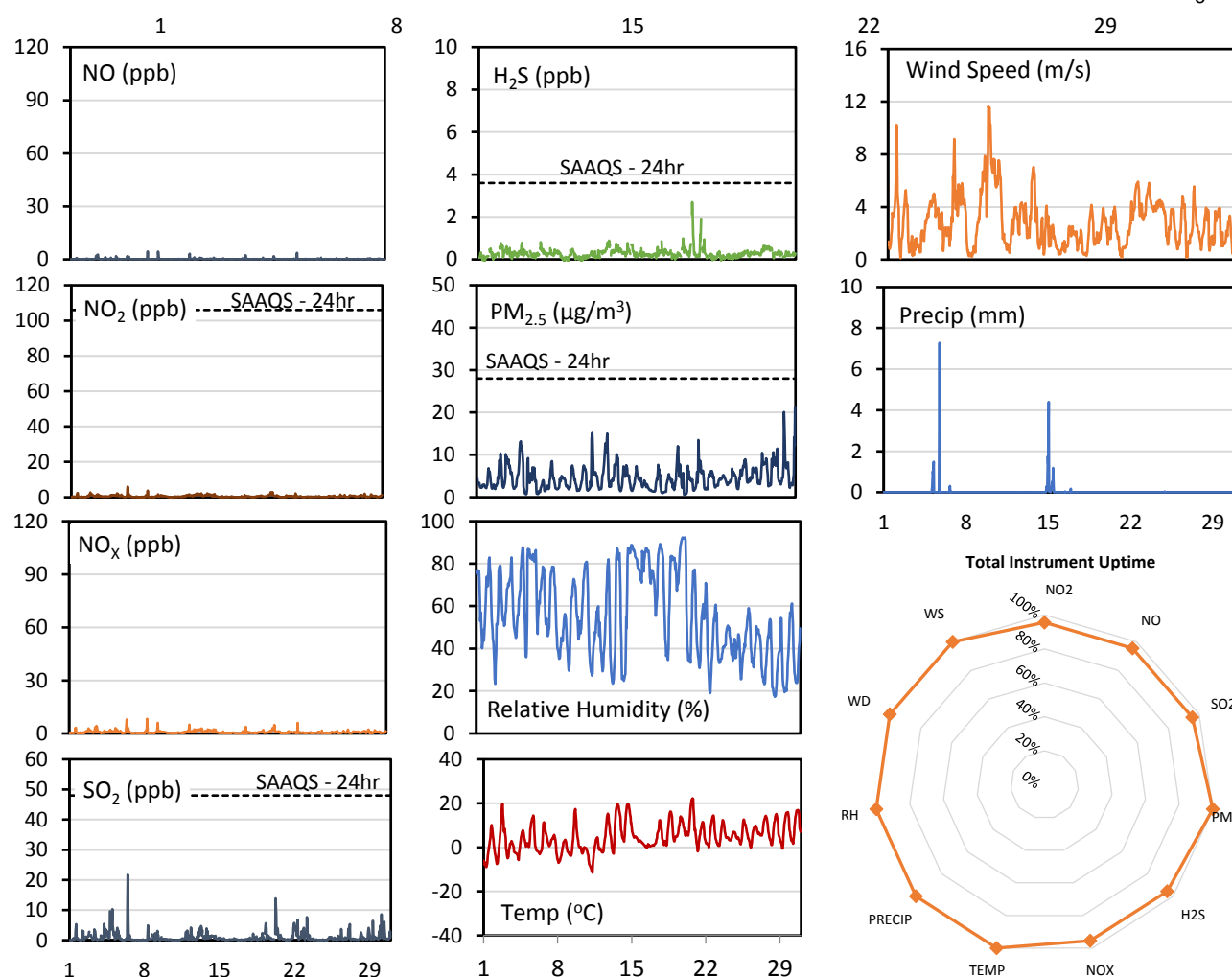
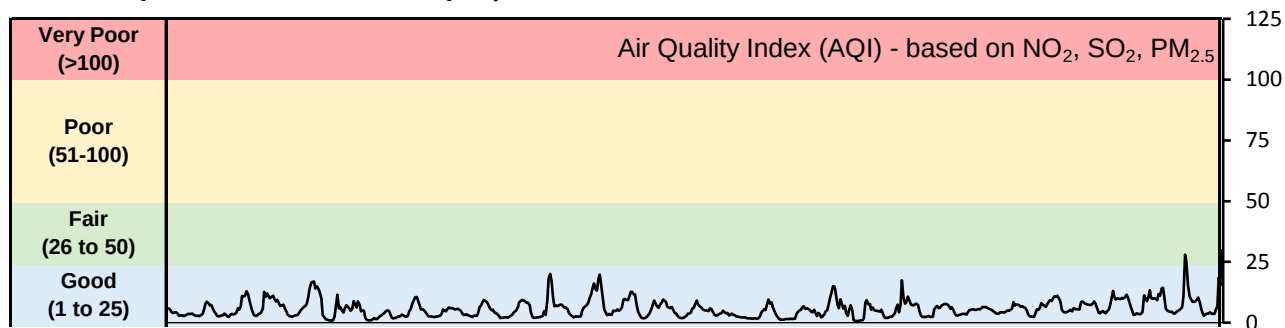
Monthly Update

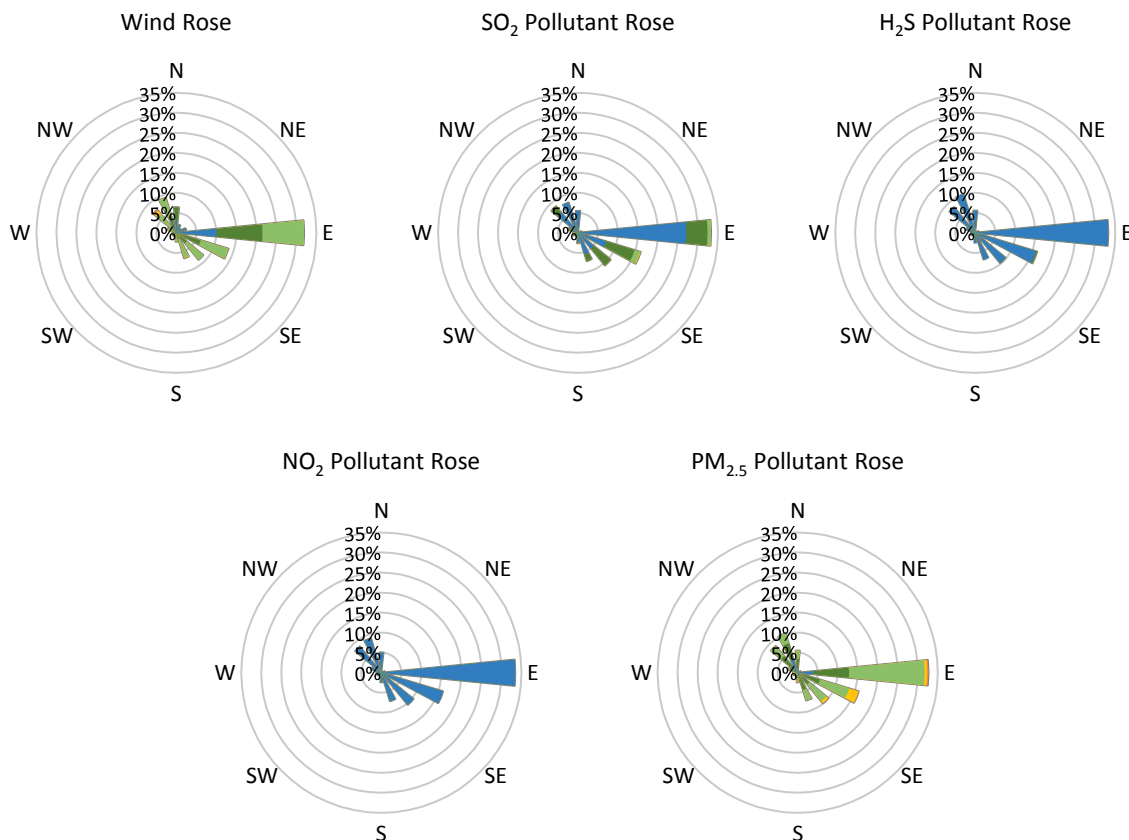
- Achieved >99% of scheduled uptime for all parameters
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- All compliance parameters are above 90% data validity; no operational issues

SESAA Oxbow Station - April 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%	0.5	Apr-03	-	-	4.5	Apr-08 09:00	-	-
NO ₂	ppb	0.6	96%	1.4	Apr-13	106	0	6.0	Apr-06 11:00	159	0
NO _x	ppb	0.7	96%	1.7	Apr-13	-	-	8.3	Apr-08 09:00	-	-
SO ₂	ppb	1.0	96%	2.5	Apr-04	48	0	21.8	Apr-06 11:00	172	0
H ₂ S	ppb	0.3	96%	0.6	Apr-21	3.6	0	2.7	Apr-21 05:00	11	0
PM _{2.5}	µg/m ³	4.6	100%	7.3	Apr-29	28	0	21.3	Apr-30 23:00	-	-

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	

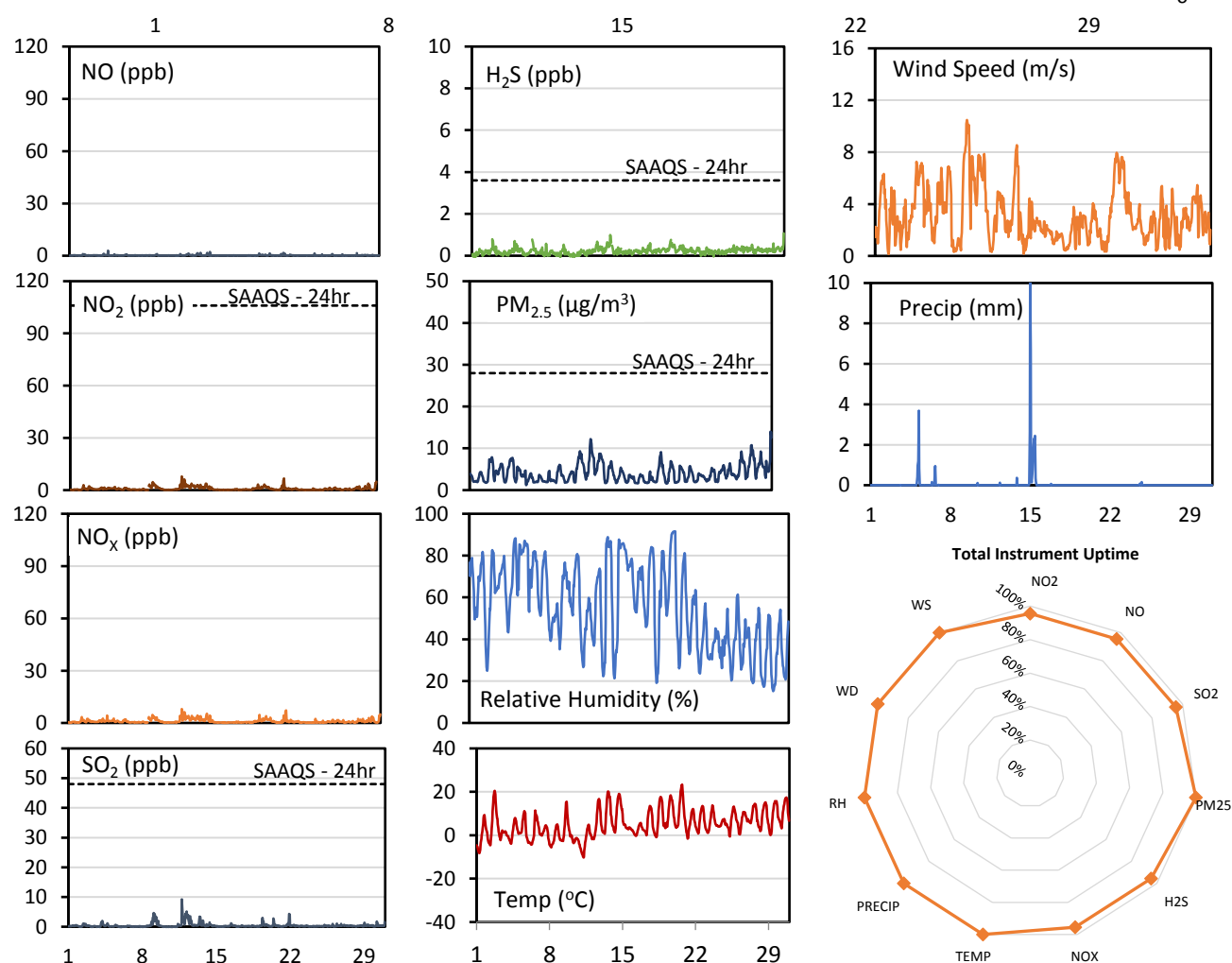
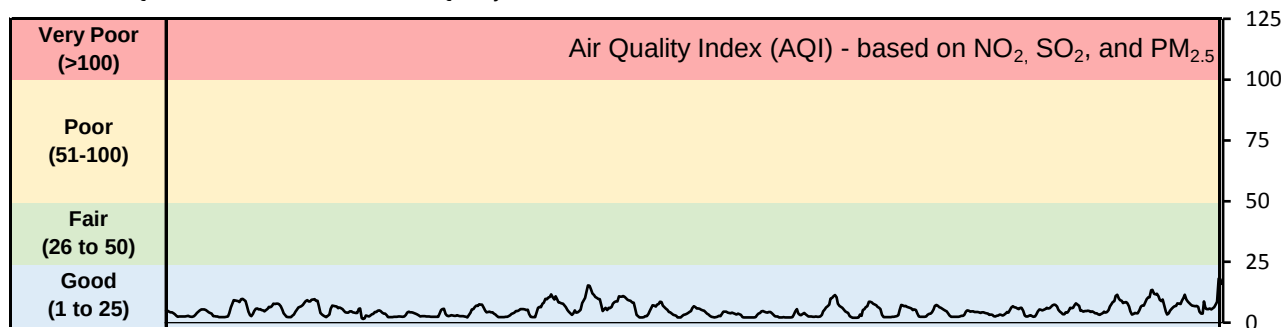
Monthly Update

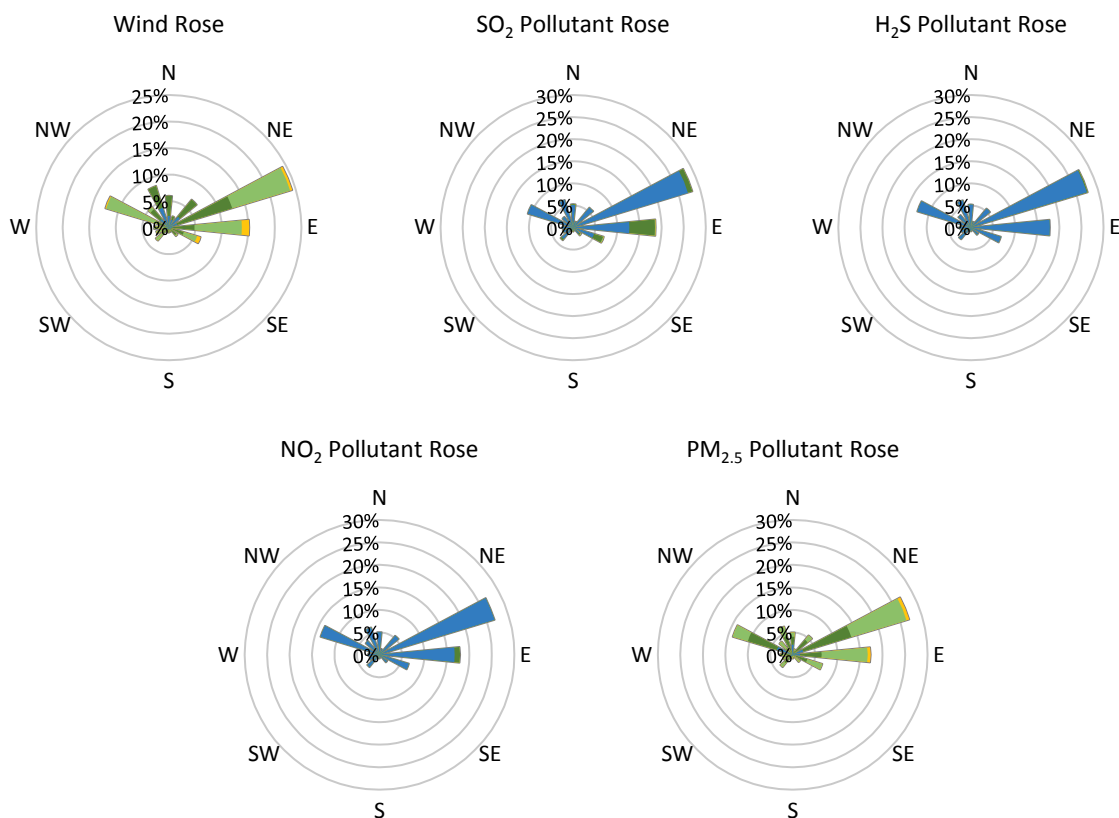
- Achieved >99% of scheduled uptime
- All compliance parameters are above 90% data validity; no operational issues
- Downtime of 4% results from routine daily internal zeroes and spans

SESAA Stoughton Station - April 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	Apr-13	-	-	2.9	Apr-04 18:00	-	-
NO ₂	ppb	0.8	96%	2.9	Apr-12	106	0	7.9	Apr-11 22:00	159	0
NO _x	ppb	1.0	96%	3.2	Apr-12	-	-	8.0	Apr-11 22:00	-	-
SO ₂	ppb	0.5	96%	2.0	Apr-12	48	0	9.2	Apr-11 18:00	172	0
H ₂ S	ppb	0.2	96%	0.4	Apr-20	3.6	0	1.1	Apr-30 23:00	11	0
PM _{2.5}	µg/m ³	4.1	100%	7.3	Apr-13	28	0	14.0	Apr-30 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}	$\mu\text{g}/\text{m}^3$	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

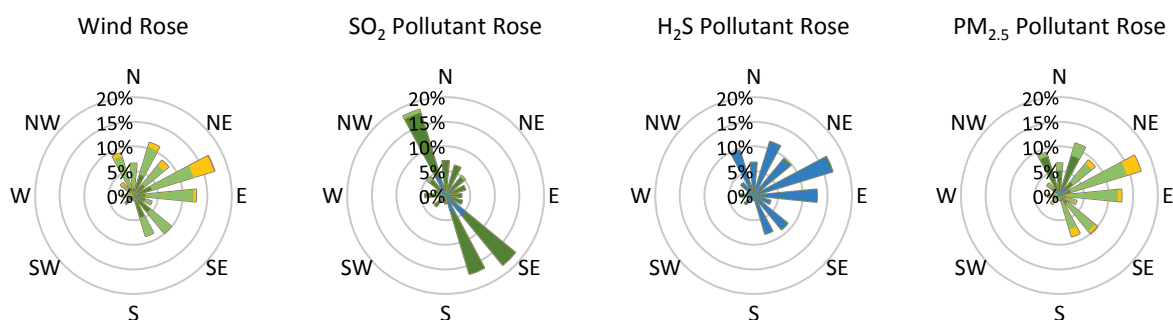
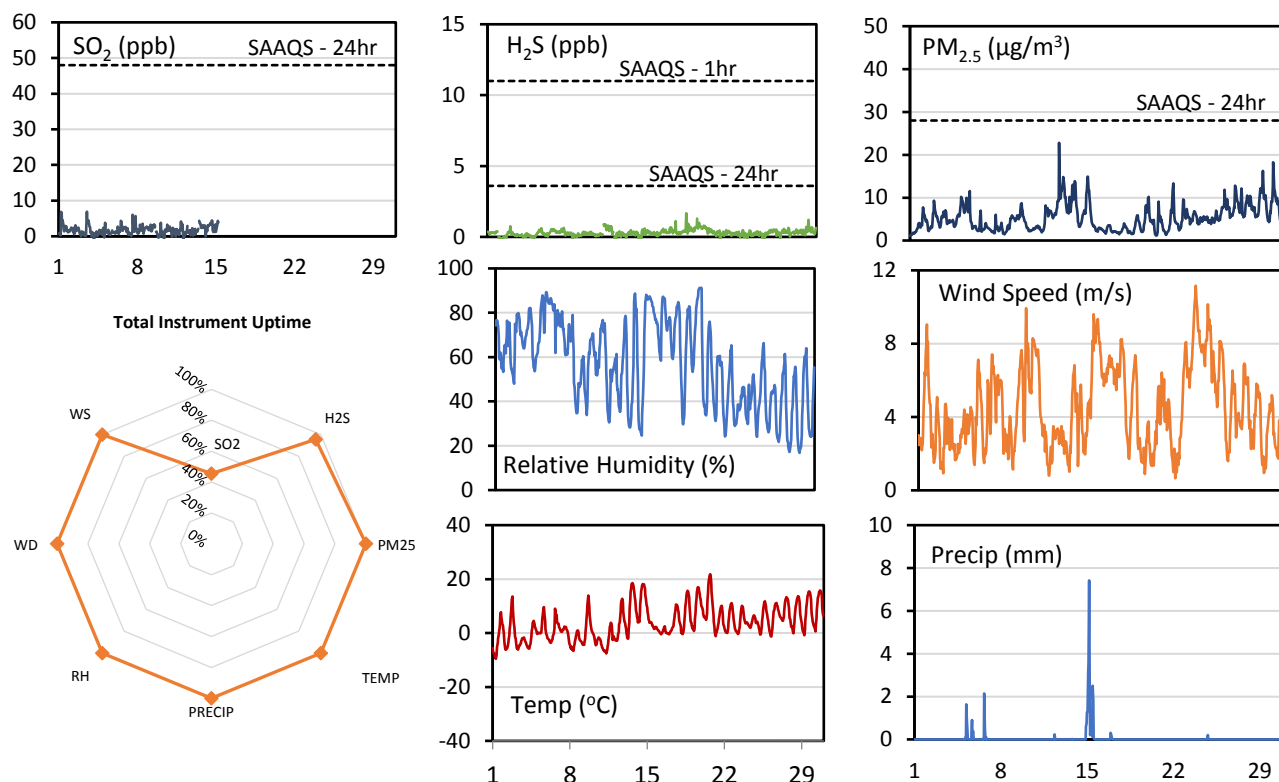
Monthly Update

- Achieved >99% of scheduled uptime for all parameters
- Downtime of 4% due to routine daily internal zeroes and spans
- All compliance parameters are above 90% validity

SESAA Wauchope Station - April 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	1.8	45%	3.0	Apr-15	48	0	6.9	Apr-03 12:00	172	0
H ₂ S	ppb	0.3	96%	0.7	Apr-20	3.6	0	1.7	Apr-19 03:00	11	0
PM _{2.5}	µg/m ³	5.4	100%	9.9	Apr-13	28	0	22.8	Apr-12 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 ≤ 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

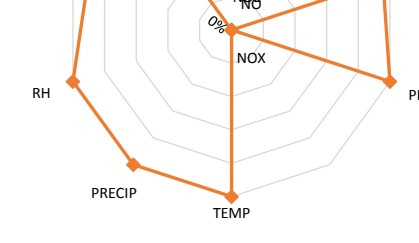
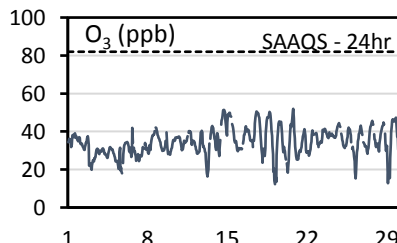
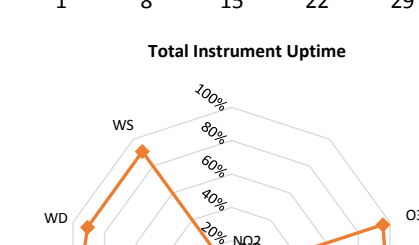
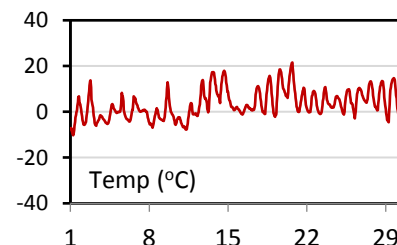
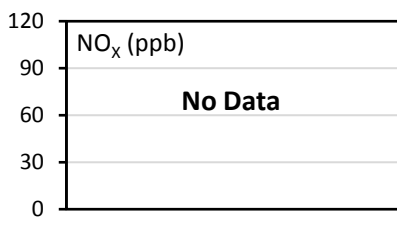
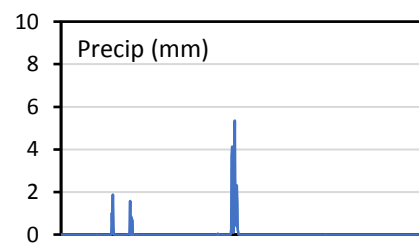
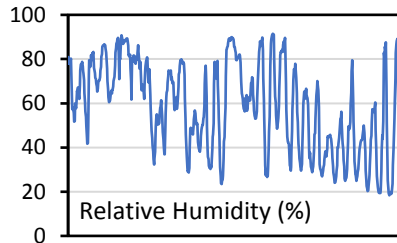
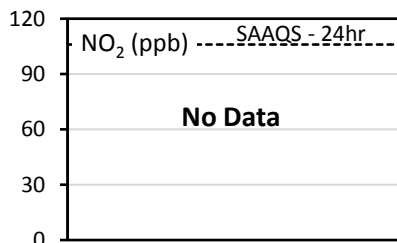
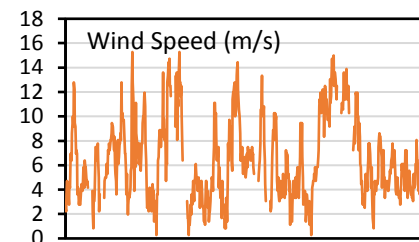
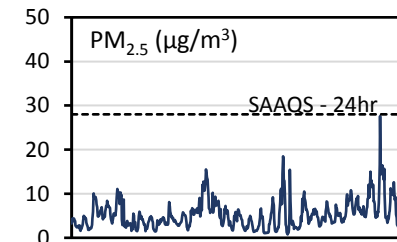
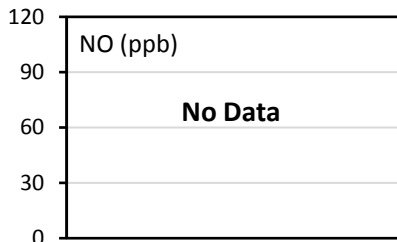
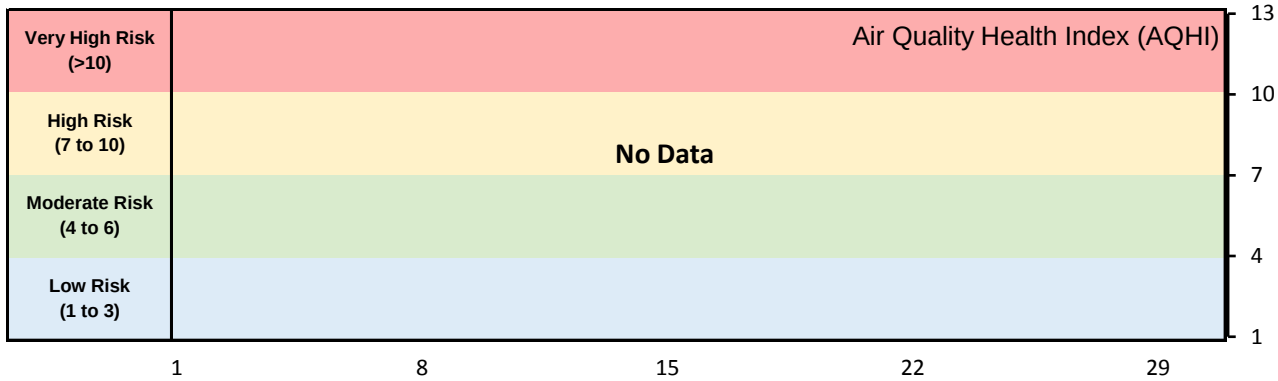
Monthly Update

- Achieved 100% of scheduled uptime for H₂S and PM_{2.5}; 47% for SO₂
- Downtime of 4% results from routine daily Internal Zeroes and Spans
- Downtime for SO₂ resulting from instrument maintenance

SESAA Wawota Station - April 2016 Summary Report

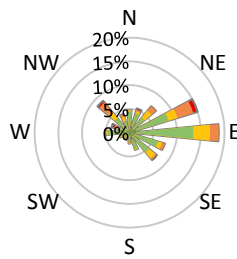
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	NoData	0%	0.0	NoData	-	-	0.0	NoData	-	-
NO ₂	ppb	NoData	0%	0.0	NoData	106	0	0.0	NoData	159	0
NO _x	ppb	NoData	0%	0.0	NoData	-	-	0.0	NoData	-	-
O ₃	ppb	34.4	96%	41.7	Apr-17	-	-	52.0	Apr-20 19:00	82	0
PM _{2.5}	µg/m ³	5.3	100%	10.1	Apr-28	28	0	27.6	Apr-28 22:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

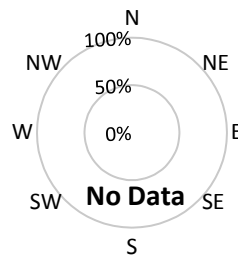


SESAA Wawota Station - April 2016 Summary Report

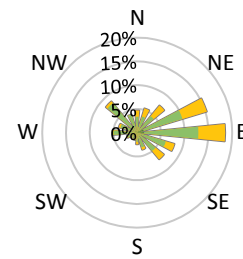
Wind Rose



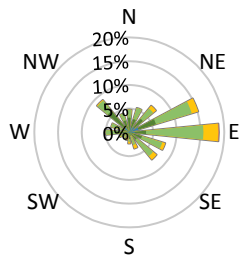
NO₂ Pollutant Rose



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	

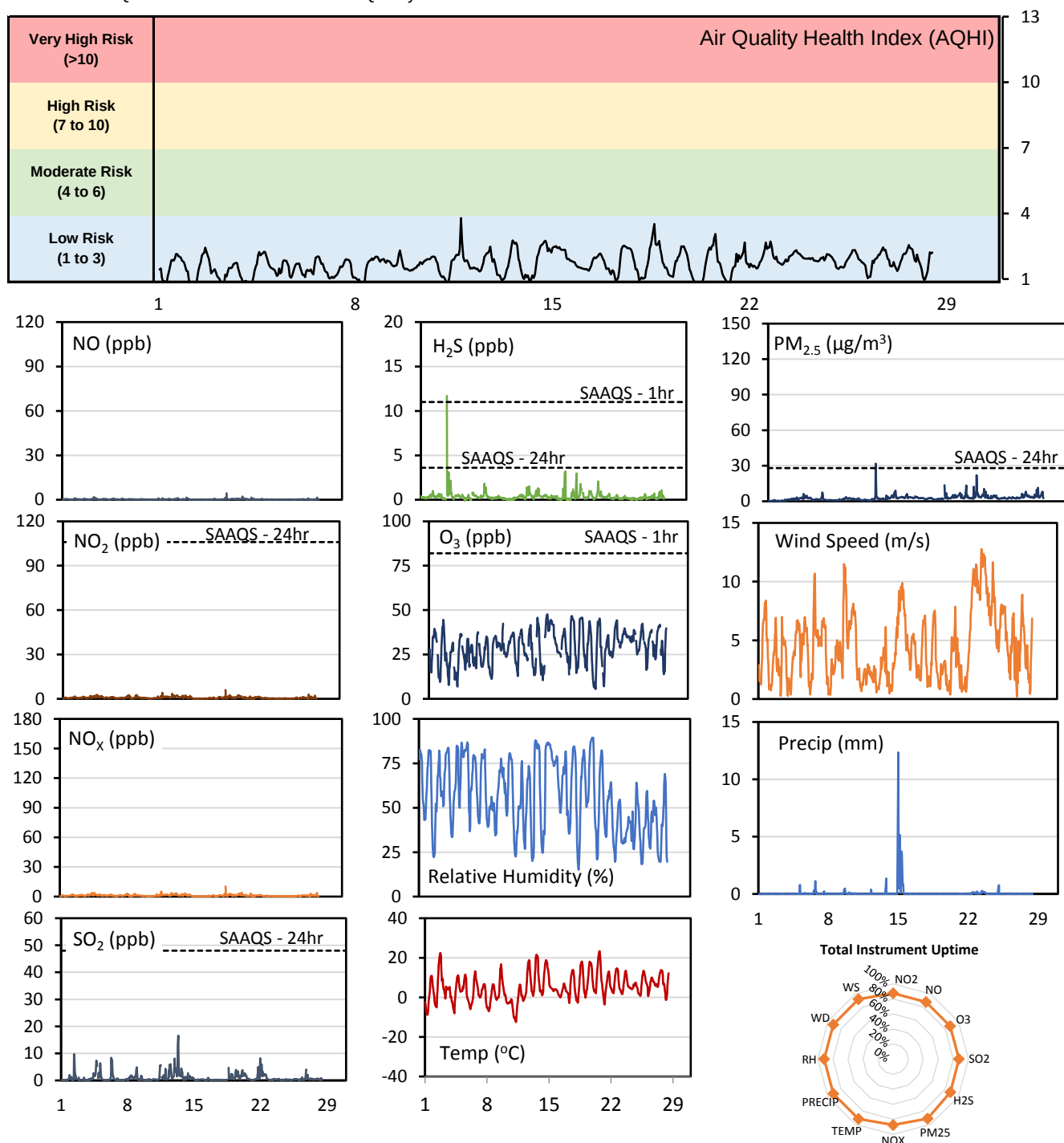
Monthly Update

- Achieved >99%% of scheduled uptime for O₃ and PM_{2.5}
- Downtime of 4% due to routine daily internal zeroes and spans
- NO/NO₂/NO_x data invalidated due to calibration failure
- Wind Direction and Wind Speed taken from Estevan airport

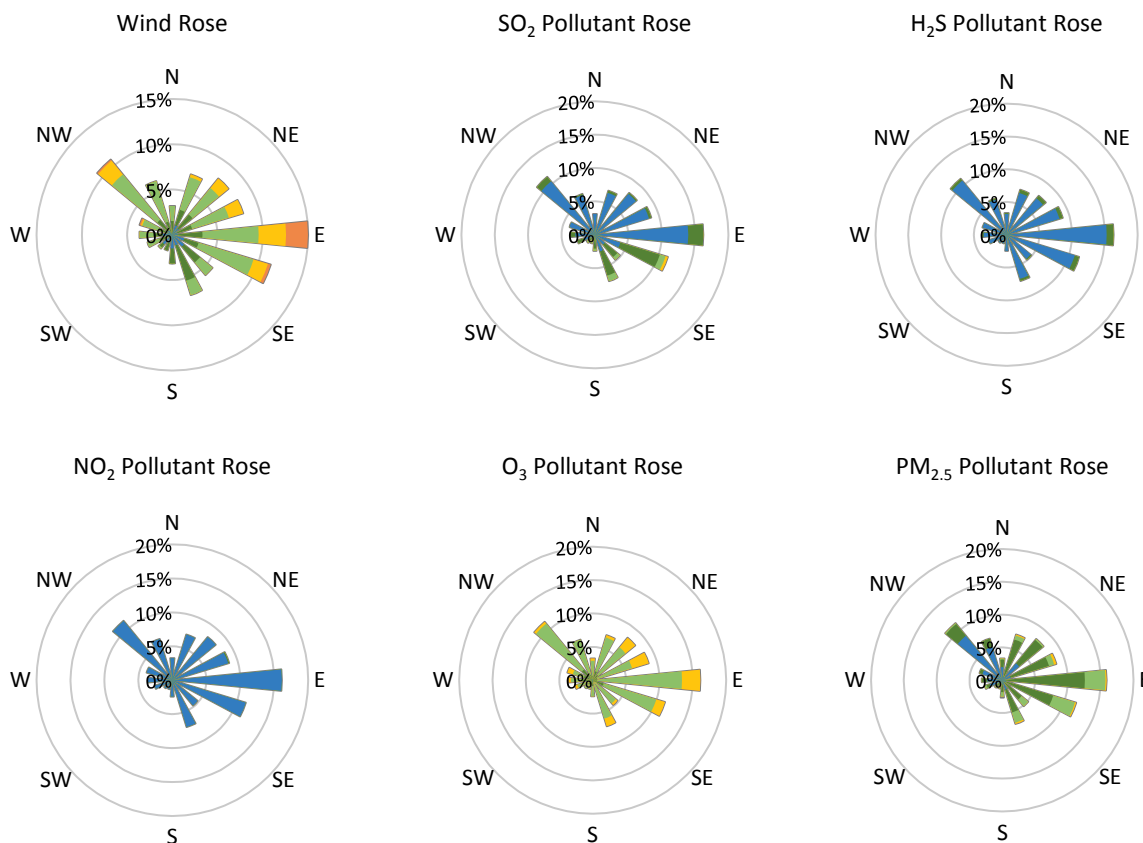
SESAA Weyburn Station - April 2016 Summary Report

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	0.3	88%	0.5	Apr-18	-	-	4.4	Apr-18 15:00	-	-
NO ₂	ppb	0.8	88%	1.5	Apr-13	106	0	6.0	Apr-18 15:00	159	0
NO _x	ppb	1.0	88%	1.9	Apr-04	-	-	10.3	Apr-18 15:00	-	-
SO ₂	ppb	1.0	88%	3.6	Apr-13	48	0	16.6	Apr-13 08:00	172	0
H ₂ S	ppb	0.4	88%	0.8	Apr-03	3.6	0	11.7	Apr-03 22:00	11	1
O ₃	ppb	28.9	88%	36.5	Apr-15	-	-	47.6	Apr-14 17:00	82	0
PM _{2.5}	µg/m ³	2.8	92%	4.9	Apr-21	28	0	31.8	Apr-11 18:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



SESAA Weyburn Station - April 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 >91% of scheduled uptime for all parameters
- Downtime of 4% due to routine daily Internal Zeroes and Spans
- Remaining downtime due to repairs on air conditioner unit at end of month
- 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
Apr-03 22:00	1.1	1.6	0.3	0.5	17.8	1.9	11.7	1.4	0.5	136.8	0.6