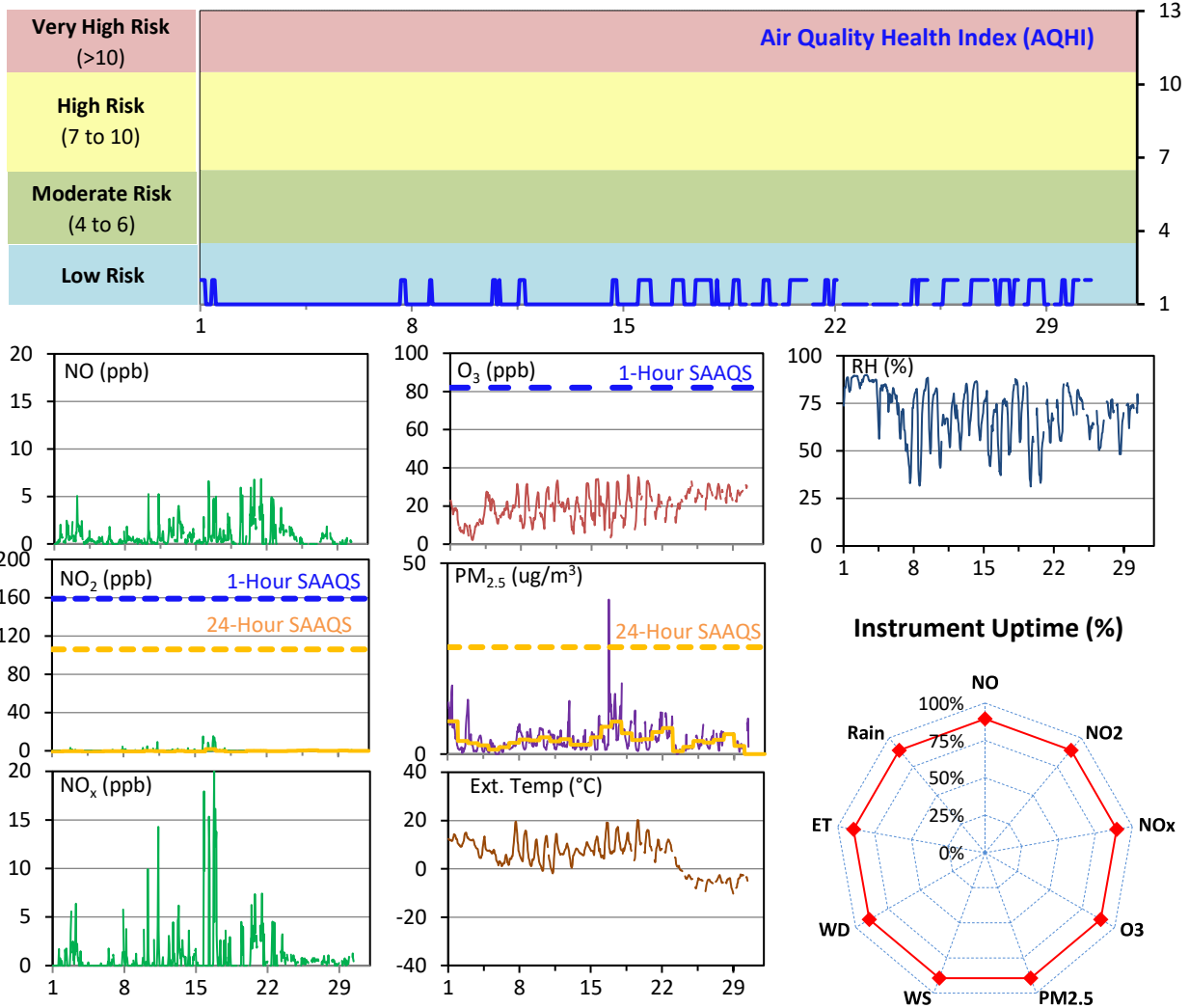


# SESAA Esterhazy Station - October 2023 Summary Report

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	0.811	89.4%	2.863	Oct-20	-	-	6.833	Oct-21 10:00	-	-
NO <sub>2</sub>	ppb	0.353	89.4%	1.819	Oct-16	106	0	15.360	Oct-16 18:00	159	0
NO <sub>x</sub>	ppb	0.912	89.4%	3.449	Oct-16	-	-	20.115	Oct-16 18:00	-	-
O <sub>3</sub>	ppb	19.849	89.4%	27.723	Oct-24	-	-	36.291	Oct-18 15:00	82	0
PM <sub>2.5</sub>	ug/m3	3.932	89.4%	8.601	Oct-1	28	0	40.476	Oct-16 18:00	-	-

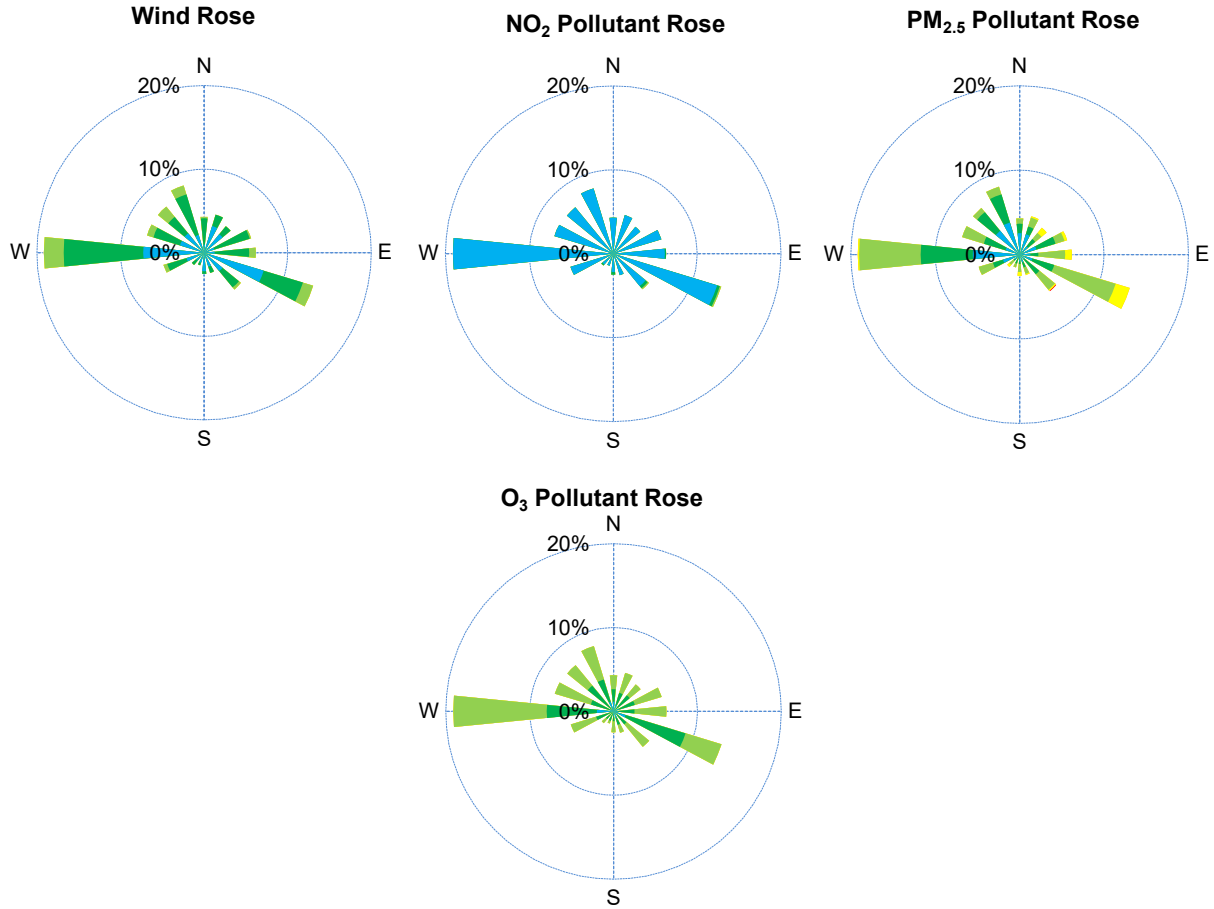
SAAQS: Saskatchewan Ambient Air Quality Standards



## Monthly Update

- \*All data has been slope, intercept, and baseline corrected. Data may change after validation process.
- \*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- \*All compliance parameters were below 90% operational.
- \*75 hours of data for all parameters is flagged as "analyzer failure" due to intermittent analyzer issues at the site. All analyzers started to fail resulting in a full station replacement.
- \*38 hours of data for all parameters is flagged as "maintenance" due to the maintenance needed to get the new station online. Station was replaced on October 30, 2023.

# SESAA Esterhazy Station - October 2023 Summary Report

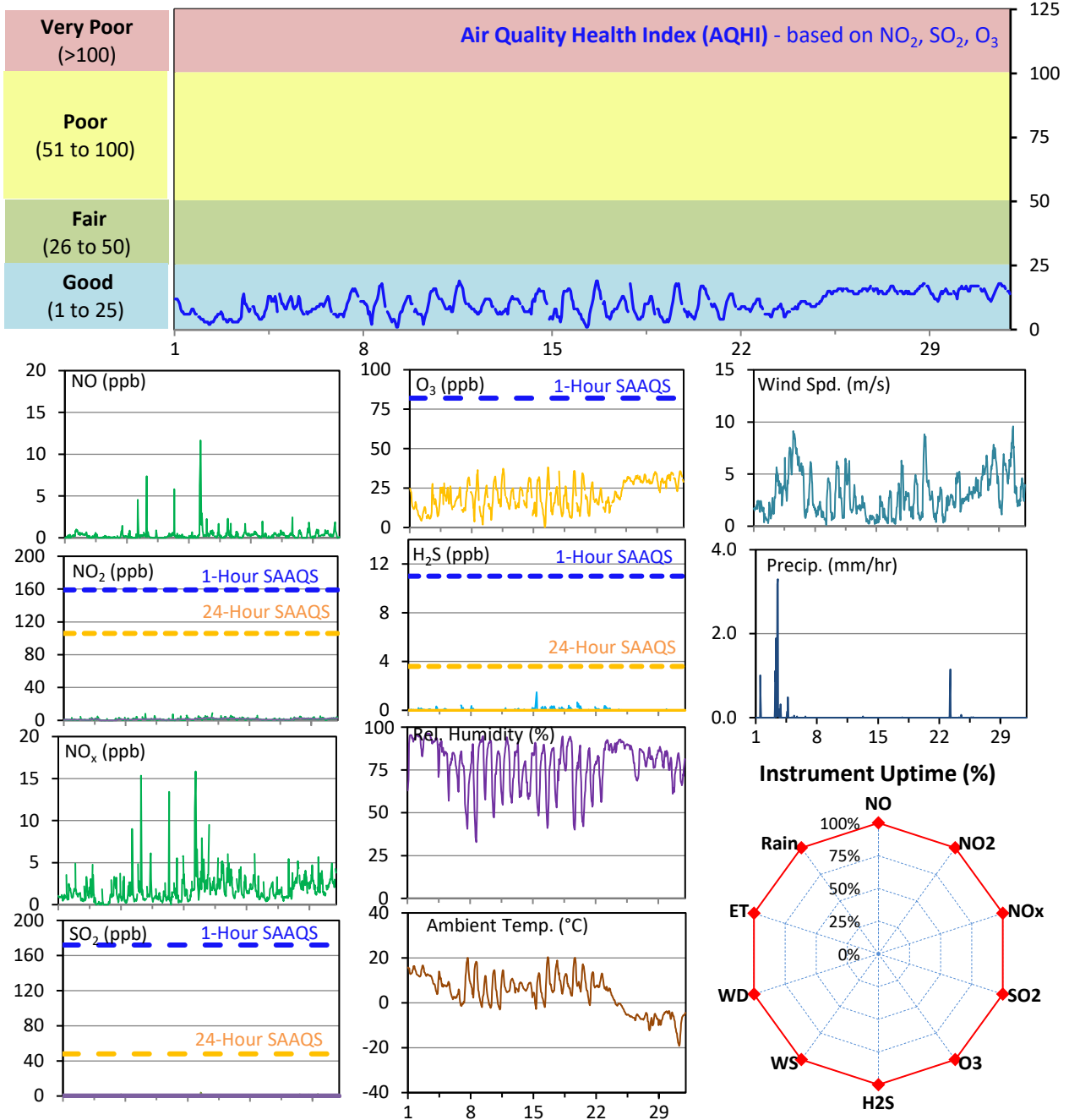


Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	m/s	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$
NO <sub>2</sub>	ppb	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C < 212$	$C \geq 212$
PM <sub>2.5</sub>	ug/m <sup>3</sup>	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$
O <sub>3</sub>	ppb	$0 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 40$	$40 \leq C < 60$	$60 \leq C < 82$	$C \geq 82$

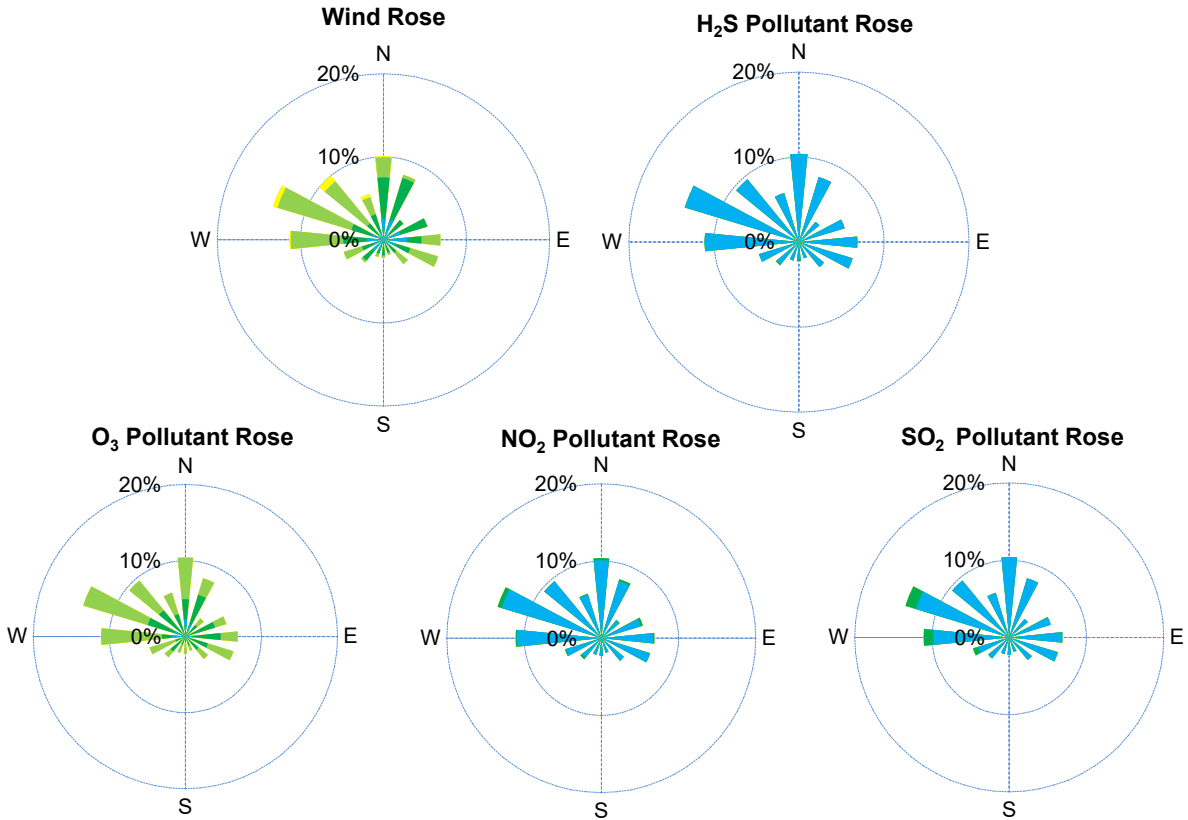
# SESAA Glen Ewen Station - October 2023 Summary Report

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	0.358	100.0%	2.086	Oct-16	-	-	11.659	Oct-16 07:00	-	-
NO <sub>2</sub>	ppb	1.476	100.0%	2.977	Oct-17	106	0	8.860	Oct-17 19:00	159	0
NO <sub>x</sub>	ppb	1.831	100.0%	4.396	Oct-16	-	-	15.859	Oct-16 07:00	-	-
SO <sub>2</sub>	ppb	0.090	100.0%	< 0.001	-	48	0	3.967	Oct-16 11:00	172	0
O <sub>3</sub>	ppb	20.475	100.0%	32.134	Oct-30	-	-	38.185	Oct-16 15:00	82	0
H <sub>2</sub> S	ppb	0.037	100.0%	< 0.001	-	3.6	0	1.485	Oct-15 08:00	11	0

SAAQS: Saskatchewan Ambient Air Quality Standards



# SESAA Glen Ewen Station - October 2023 Summary Report



Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. 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 <sub>2</sub>	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172	
NO <sub>2</sub>	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212	
O <sub>3</sub>	ppb	0 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 40	40 ≤ C < 60	60 ≤ C < 82	C ≥ 82	
H <sub>2</sub> S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8	

## Monthly Update

\*All data has been slope, intercept, and baseline corrected. Data may change after validation process.

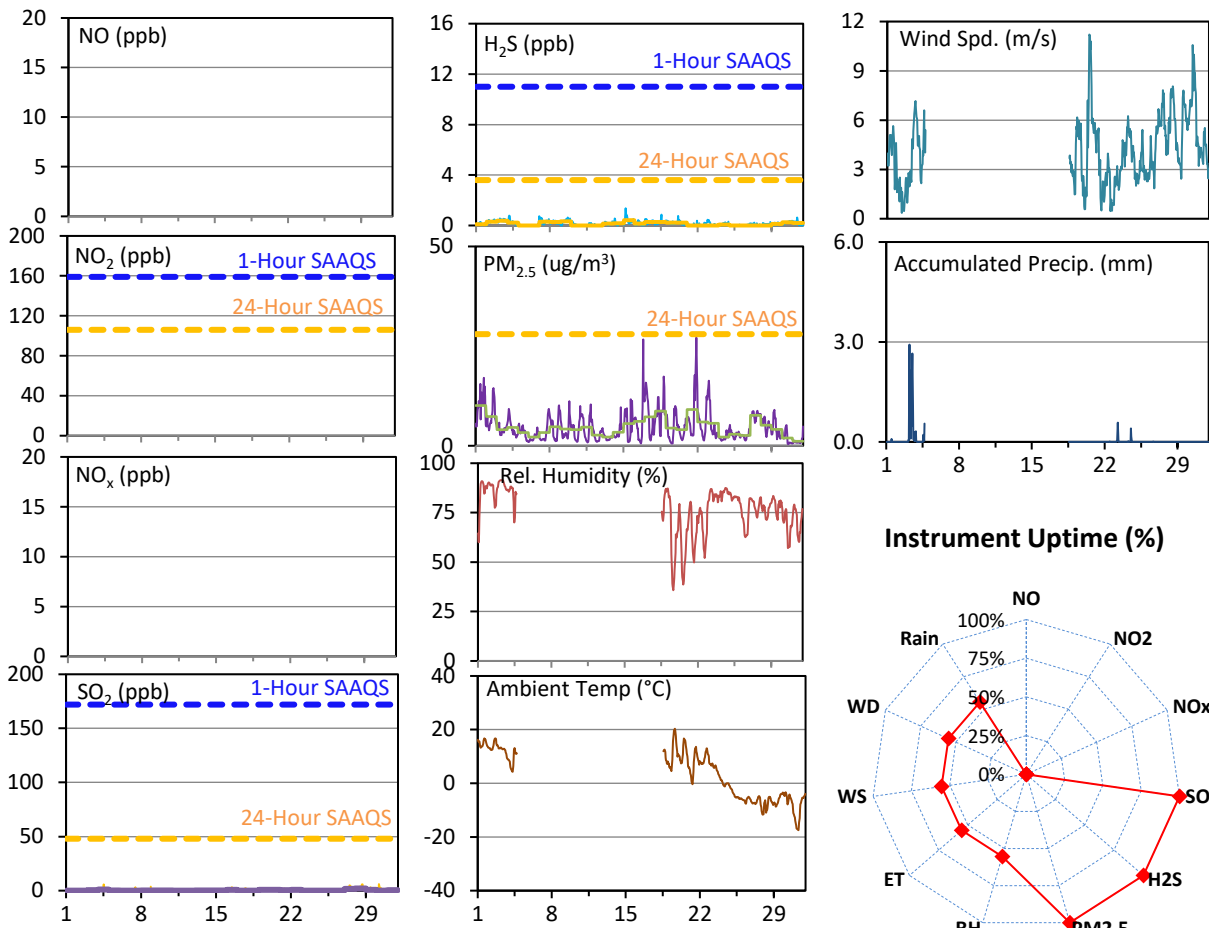
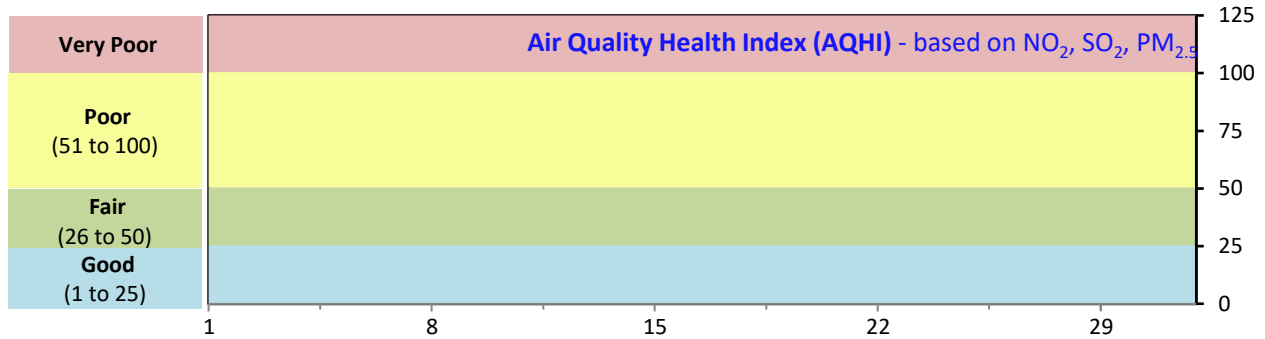
\*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.

\*All compliance parameters were more than 90% operational.

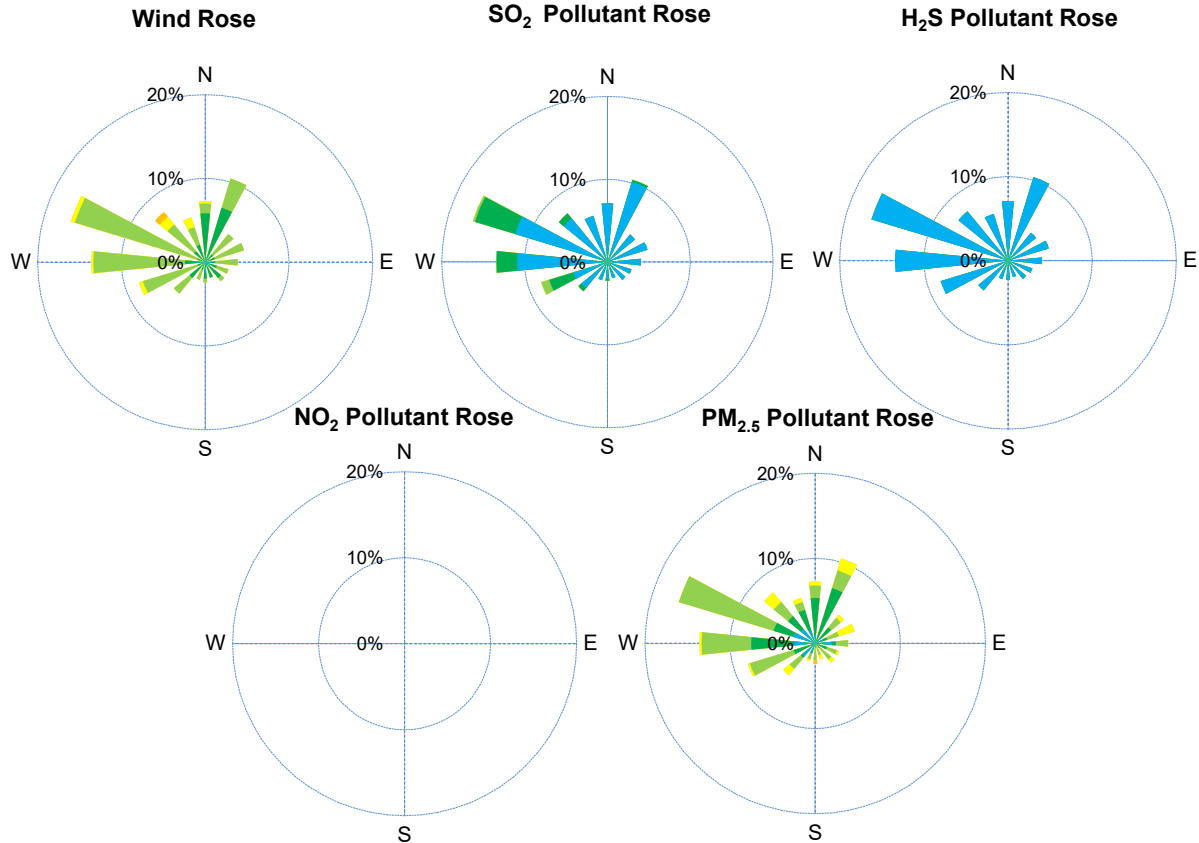
# SESAA Oxbow Station - October 2023 Summary Report

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	-	0.0%	< 0.001	-	-	-	< 0.001	-	-	-
NO <sub>2</sub>	ppb	-	0.0%	< 0.001	-	106	0	< 0.001	-	159	0
NO <sub>x</sub>	ppb	-	0.0%	< 0.001	-	-	-	< 0.001	-	-	-
SO <sub>2</sub>	ppb	0.430	100.0%	1.994	Oct-28	48	0	6.037	Oct-30 05:00	172	0
H <sub>2</sub> S	ppb	0.167	100.0%	0.420	Oct-15	3.6	0	1.366	Oct-15 04:00	11	0
PM <sub>2.5</sub>	ug/m3	4.694	100.0%	10.093	Oct-1	28	0	27.108	Oct-21 21:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



# SESAA Oxbow Station - October 2023 Summary Report



Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. 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 <sub>2</sub>	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172	
NO <sub>2</sub>	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212	
H <sub>2</sub> S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8	
PM <sub>2.5</sub>	ug/m <sup>3</sup>	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30	

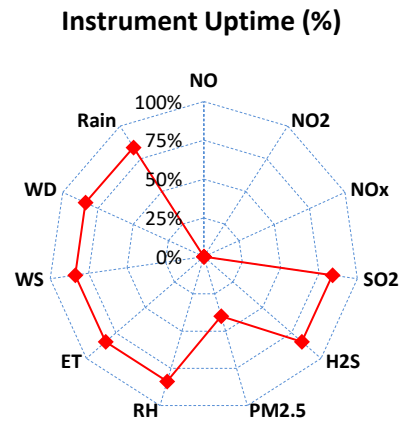
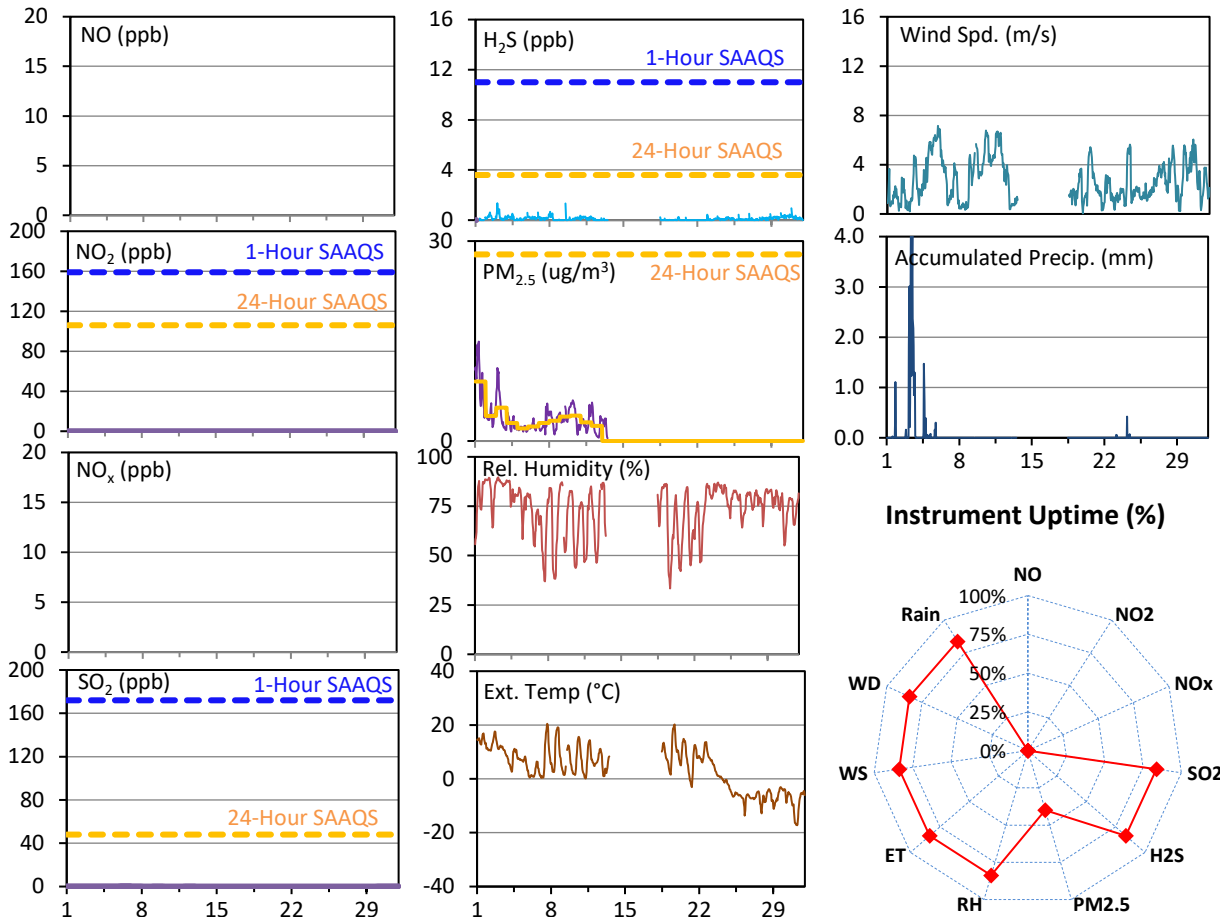
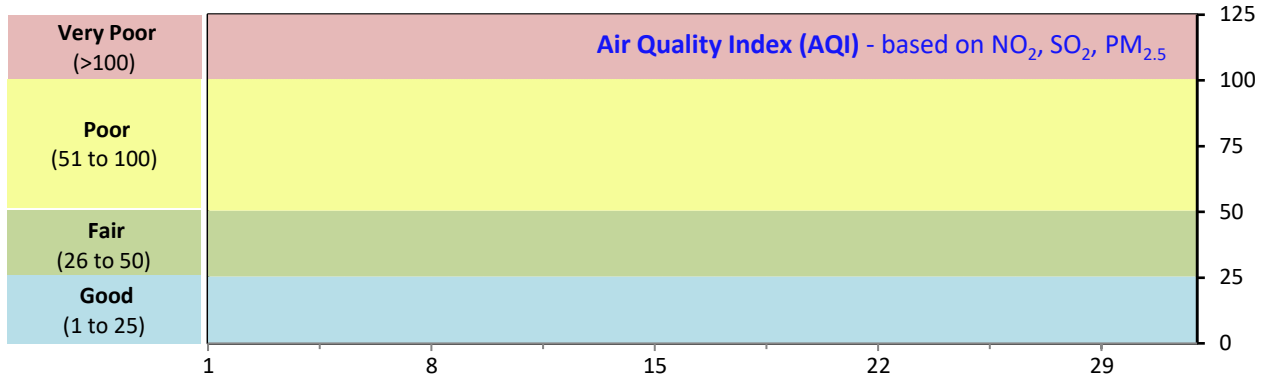
## Monthly Update

- \*All data has been slope, intercept, and baseline corrected. Data may change after validation process.
- \*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- \*All compliance parameters were greater than 90% operational, except NO/NO<sub>2</sub>/NO<sub>x</sub> and the meteorological parameters.
- \*332 hours of data flagged as "analyzer failure" for meteorological parameters due to analyzer malfunction causing flat-lined data.
- \*744 hours of data flagged as "maintenance" for NO/NO<sub>2</sub>/NO<sub>x</sub> due to analyzer malfunction. Analyzer has been shipped out for maintenance.

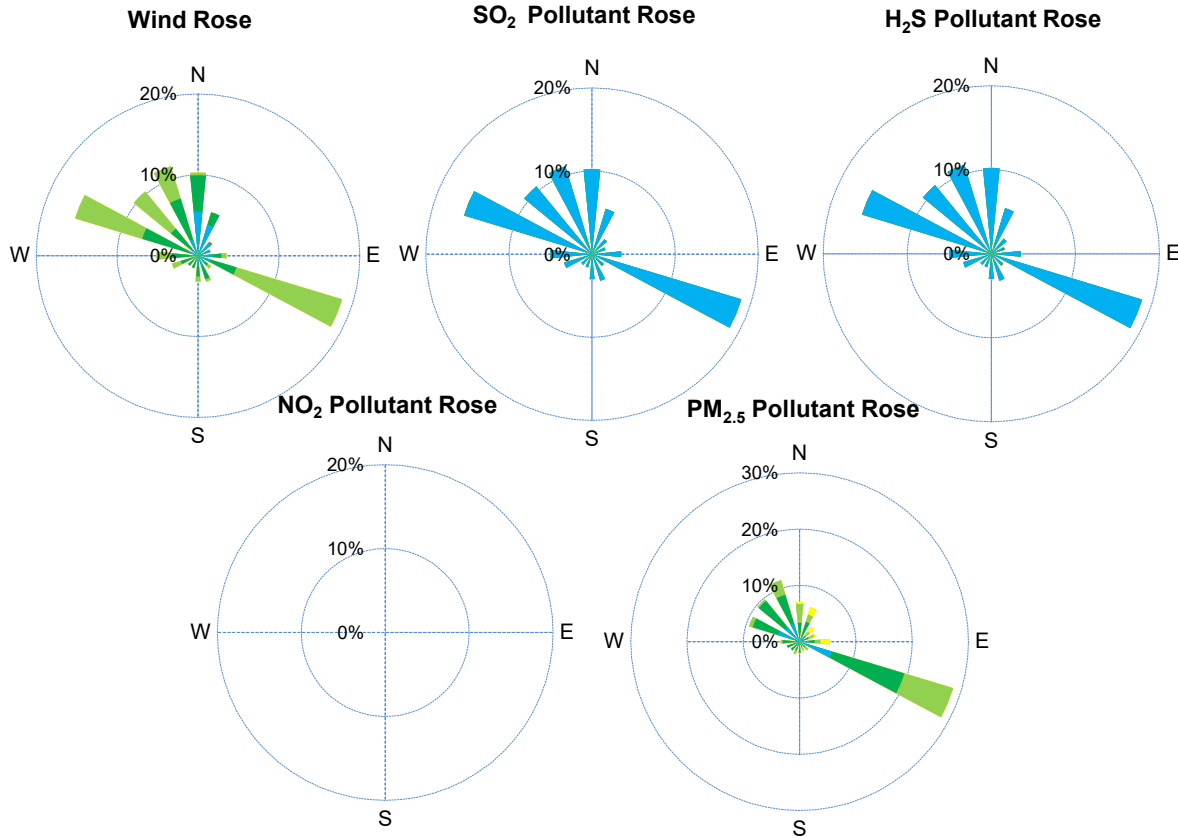
# SESAA Stoughton Station - October 2023 Summary Report

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	-	0.0%	< 0.001	-	-	-	< 0.001	-	-	-
NO <sub>2</sub>	ppb	-	0.0%	< 0.001	-	106	0	< 0.001	-	159	0
NO <sub>x</sub>	ppb	-	0.0%	< 0.001	-	-	-	< 0.001	-	-	-
SO <sub>2</sub>	ppb	0.097	83.7%	0.399	Oct-6	48	0	1.548	Oct-09 12:00	172	0
H <sub>2</sub> S	ppb	0.118	83.7%	0.332	Oct-30	3.6	0	1.350	Oct-03 01:00	11	0
PM <sub>2.5</sub>	ug/m <sup>3</sup>	3.514	40.1%	8.931	Oct-1	28	0	14.925	Oct-01 08:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



# SESAA Stoughton Station - October 2023 Summary Report



Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. 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 <sub>2</sub>	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 <sub>2</sub>	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 <sub>2</sub> 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 <sub>2.5</sub>	ug/m <sup>3</sup>	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$	

## Monthly Update

\*All data has been slope, intercept, and baseline corrected. Data may change after validation process.

\*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.

\*All compliance parameters were below 90% operational.

\*2 hours of data flagged as "power failure" due to intermittent power issues that occurred at the station.

\*744 hours of data flagged as "maintenance" for NO/NO<sub>2</sub>/NO<sub>x</sub> for all of October due to analyzer issues. Analyzer has been shipped for maintenance.

\*119 hours of data flagged as "analyzer failure" for the meteorological parameters, SO<sub>2</sub> and H<sub>2</sub>S due to no data between Oct 13 - 18.

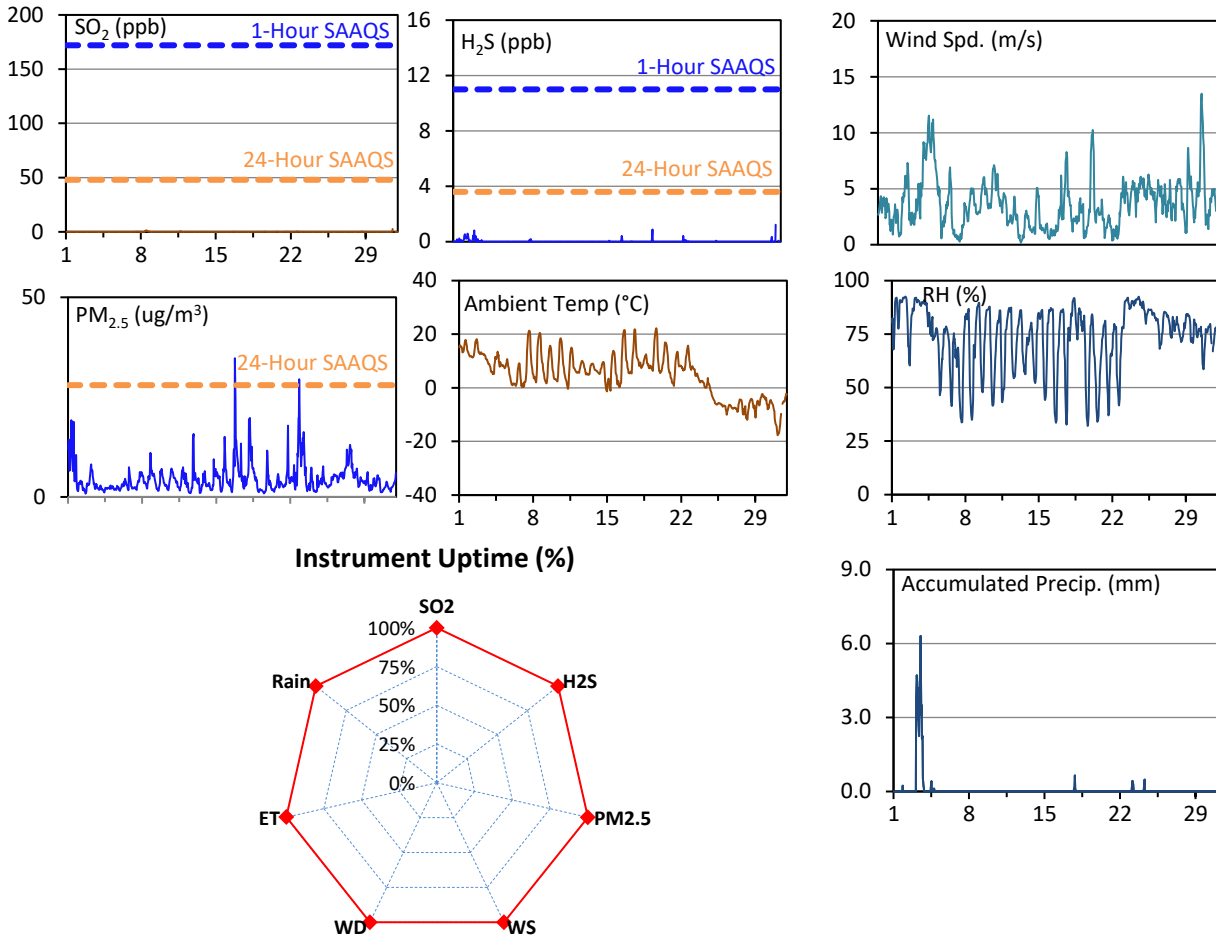
\*444 hours of data flagged as "analyzer failure" for PM<sub>2.5</sub> due to no data collection between Oct 13 - 31.



# SESAA Torquay Station - October 2023 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		
SO <sub>2</sub>	ppb	0.024	100.0%	< 0.001	#N/A	48	0	2.639	Oct-31 12:00	172	0
H <sub>2</sub> S	ppb	0.018	100.0%	0.212	Oct-2	3.6	0	1.225	Oct-31 12:00	11	0
PM <sub>2.5</sub>	ug/m3	4.504	100.0%	8.742	Oct-1	28	0	34.743	Oct-16 18:00	-	-

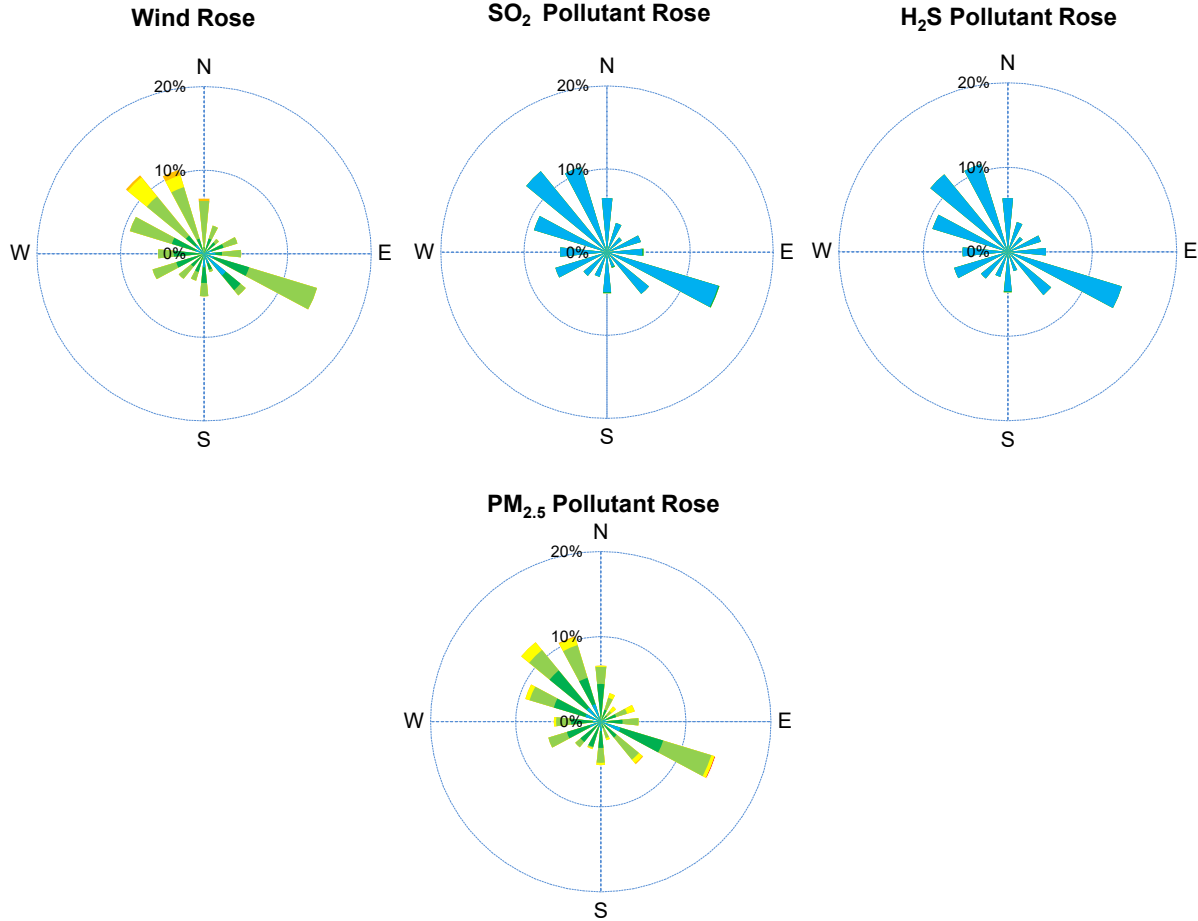
SAAQS: Saskatchewan Ambient Air Quality Standards



## Monthly Update

- \*All data has been slope, intercept, and baseline corrected. Data may change after validation process.
- \*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- \*All compliance parameters had greater than 90% operational uptime.
- \*2 hours of data for ET and RH is flagged as "analyzer failure" due to analyzer issues resulting in flat-lined data.
- \*On October 31, 2023, 5 hours of data for SO<sub>2</sub> and H<sub>2</sub>S is flagged as "calibration" due to a permeation tube replacement.

# SESAA Torquay Station - October 2023 Summary Report

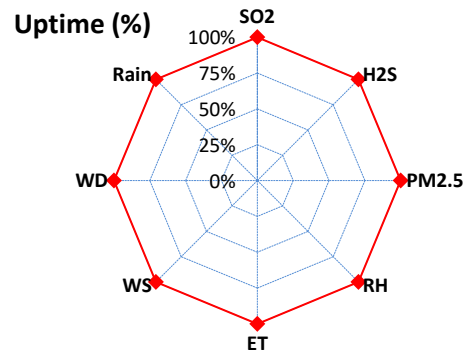
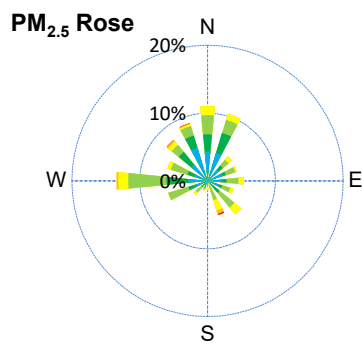
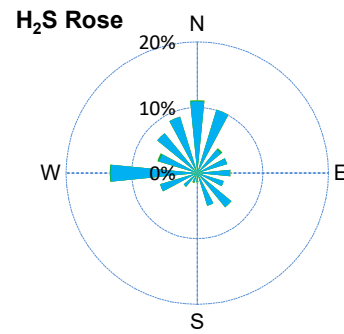
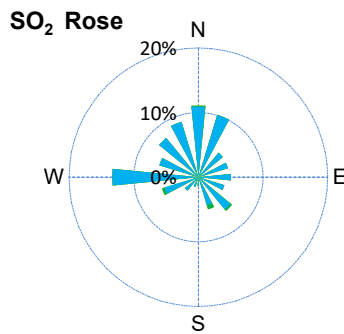
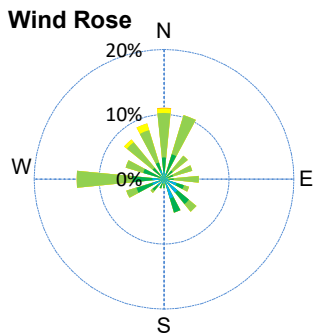
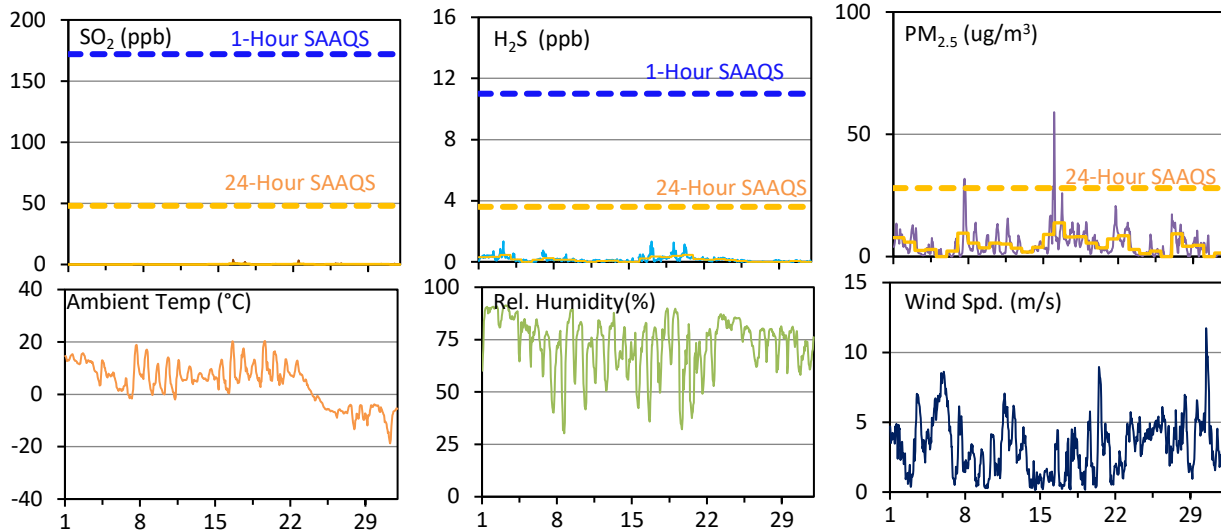


Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class						
		0.3 ≤ WS < 1.4	1.4 ≤ WS < 3.1	3.1 ≤ WS < 7.8	7.8 ≤ WS < 10.8	10.8 ≤ WS < 13.6	WS ≥ 13.6	
SO <sub>2</sub>	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172	
NO <sub>2</sub>	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212	
O <sub>3</sub>	ppb	0 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 40	40 ≤ C < 60	60 ≤ C < 82	C ≥ 82	
H <sub>2</sub> S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8	
PM <sub>2.5</sub>	ug/m <sup>3</sup>	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30	

# SESAA Wauchope Station - October 2023 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS	Exceed Days	Maximum		SAAQS	Exceed Hours
				Conc.	Time	Objective		Conc.	Time	Objective	
SO <sub>2</sub>	ppb	0.166	100.0%	0.742	Oct-16	48	0	3.890	Oct-16 09:00	172	0
H <sub>2</sub> S	ppb	0.157	100.0%	0.458	Oct-20	3.6	0	1.345	Oct-03 07:00	11	0
PM <sub>2.5</sub>	ug/m3	4.973	100.0%	13.800	Oct-16	28	0	59.049	Oct-16 00:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



**SESAA Wauchope Station - September 2023 Summary Report**

Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. 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 <sub>2</sub>	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172
H <sub>2</sub> S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8
PM <sub>2.5</sub>	ug/m <sup>3</sup>	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30

**Monthly Update**

\*All data has been slope, intercept, and baseline corrected. Data may change after validation process.  
 \*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.  
 \*All compliance parameters were greater than 90% operational.

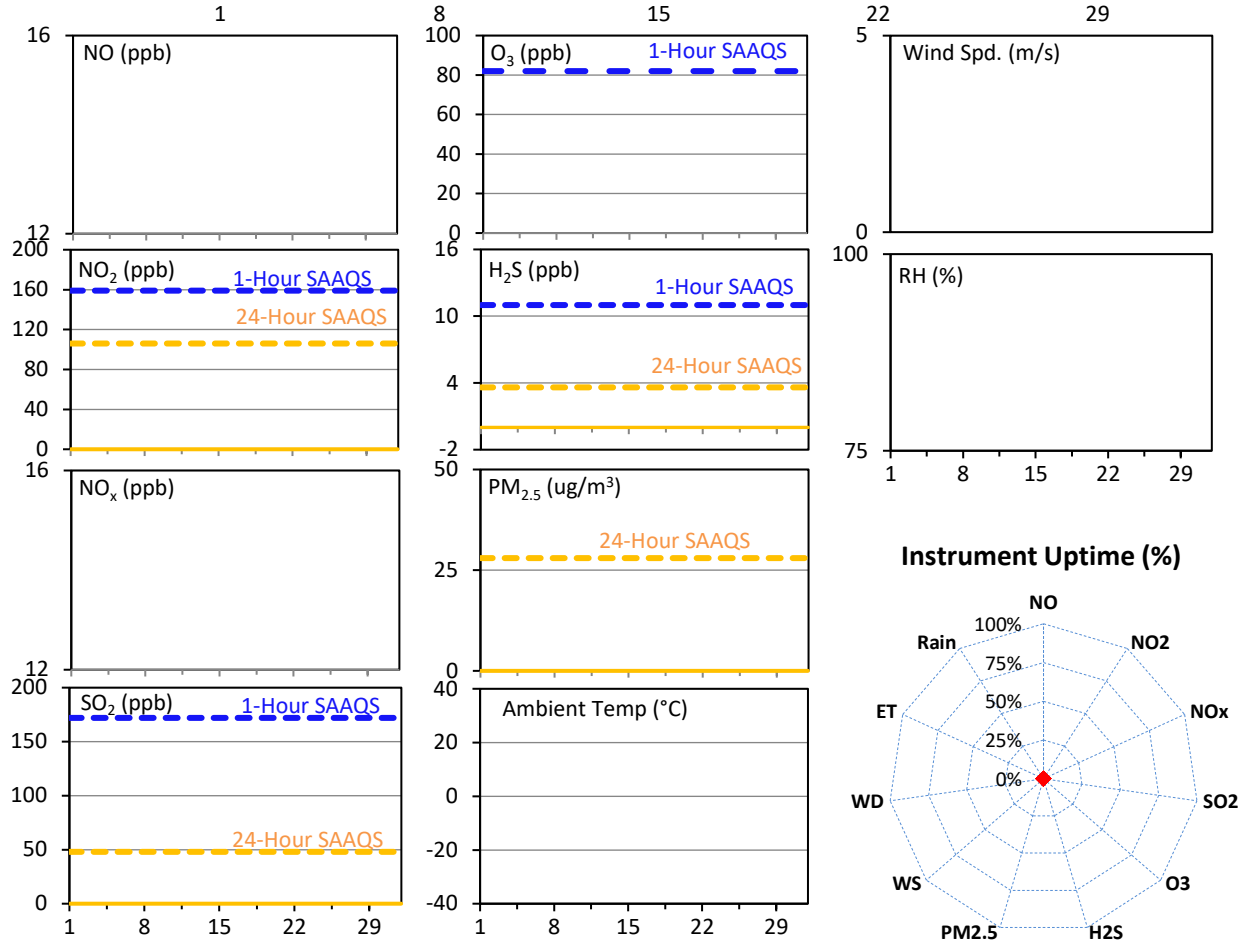
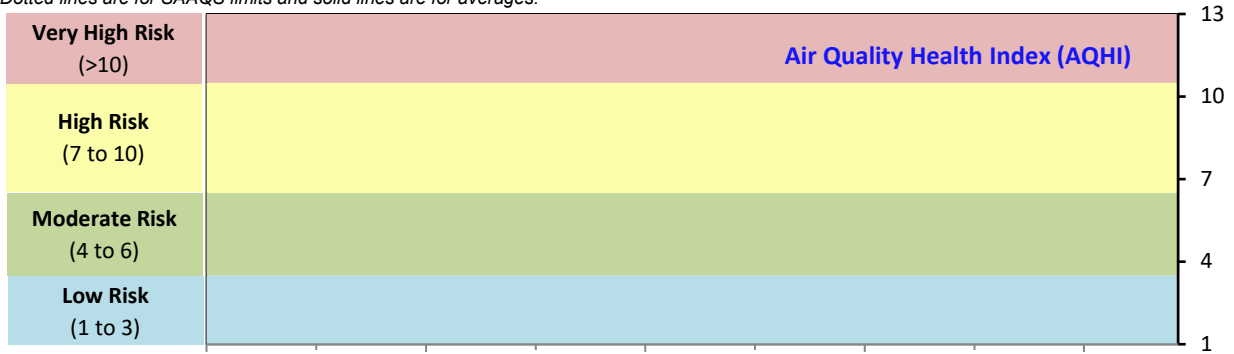
# SESAA Weyburn Station - October 2023 Summary Report

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	-	0.0%	< 0.001	#N/A	-	-	< 0.001	-	-	-
NO <sub>2</sub>	ppb	-	0.0%	< 0.001	#N/A	106	0	< 0.001	-	159	0
NO <sub>x</sub>	ppb	-	0.0%	< 0.001	#N/A	-	-	< 0.001	-	-	-
SO <sub>2</sub>	ppb	#VALUE!	0.0%	< 0.001	#N/A	48	0	< 0.001	-	172	0
O <sub>3</sub>	ppb	#VALUE!	0.0%	< 0.001	#N/A	-	-	< 0.001	-	82	0
H <sub>2</sub> S	ppb	#VALUE!	0.0%	< 0.001	#N/A	3.6	0	< 0.001	-	11	0
PM <sub>2.5</sub>	ug/m3	#VALUE!	0.0%	< 0.001	#N/A	28	0	< 0.001	-	-	-

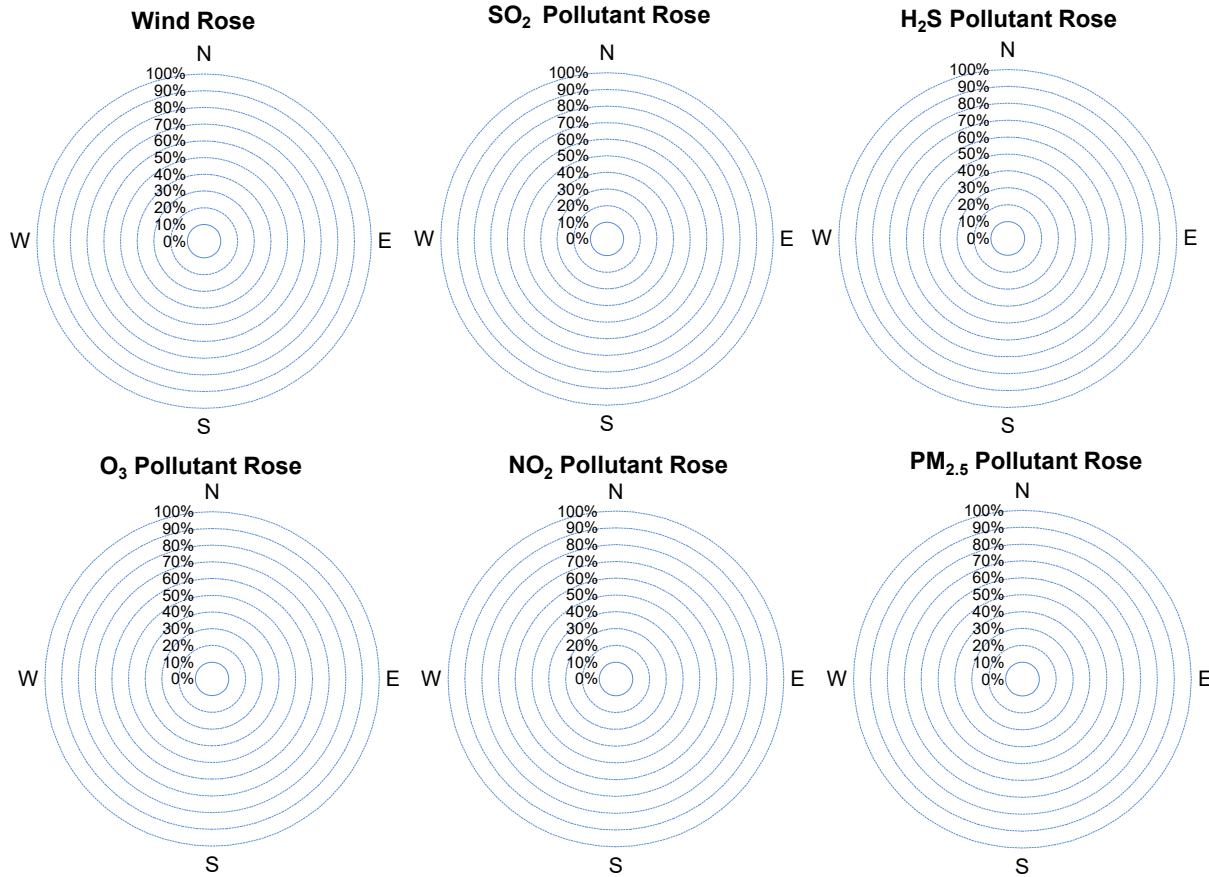
SAAQS: Saskatchewan Ambient Air Quality Standards

\* Air Quality Standard refers to Saskatchewan Ambient Air Quality Standards (SAAQS).

\* Dotted lines are for SAAQS limits and solid lines are for averages.



# SESAA Weyburn Station - October 2023 Summary Report



Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. 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 <sub>2</sub>	ppb	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172	
NO <sub>2</sub>	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212	
O <sub>3</sub>	ppb	0 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 40	40 ≤ C < 60	60 ≤ C < 82	C ≥ 82	
H <sub>2</sub> S	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8	
PM <sub>2.5</sub>	ug/m <sup>3</sup>	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30	

## Monthly Update

- \*All data has been slope, intercept, and baseline corrected. Data may change after validation process.
- \*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- \*All compliance parameters were less than 90% operational due to maintenance issues with the whole station.
- \*744 hours of data for all parameters are flagged as "maintenance" as the station was been taken out of service on September 1.
- \*Parts have been ordered for station repair.