

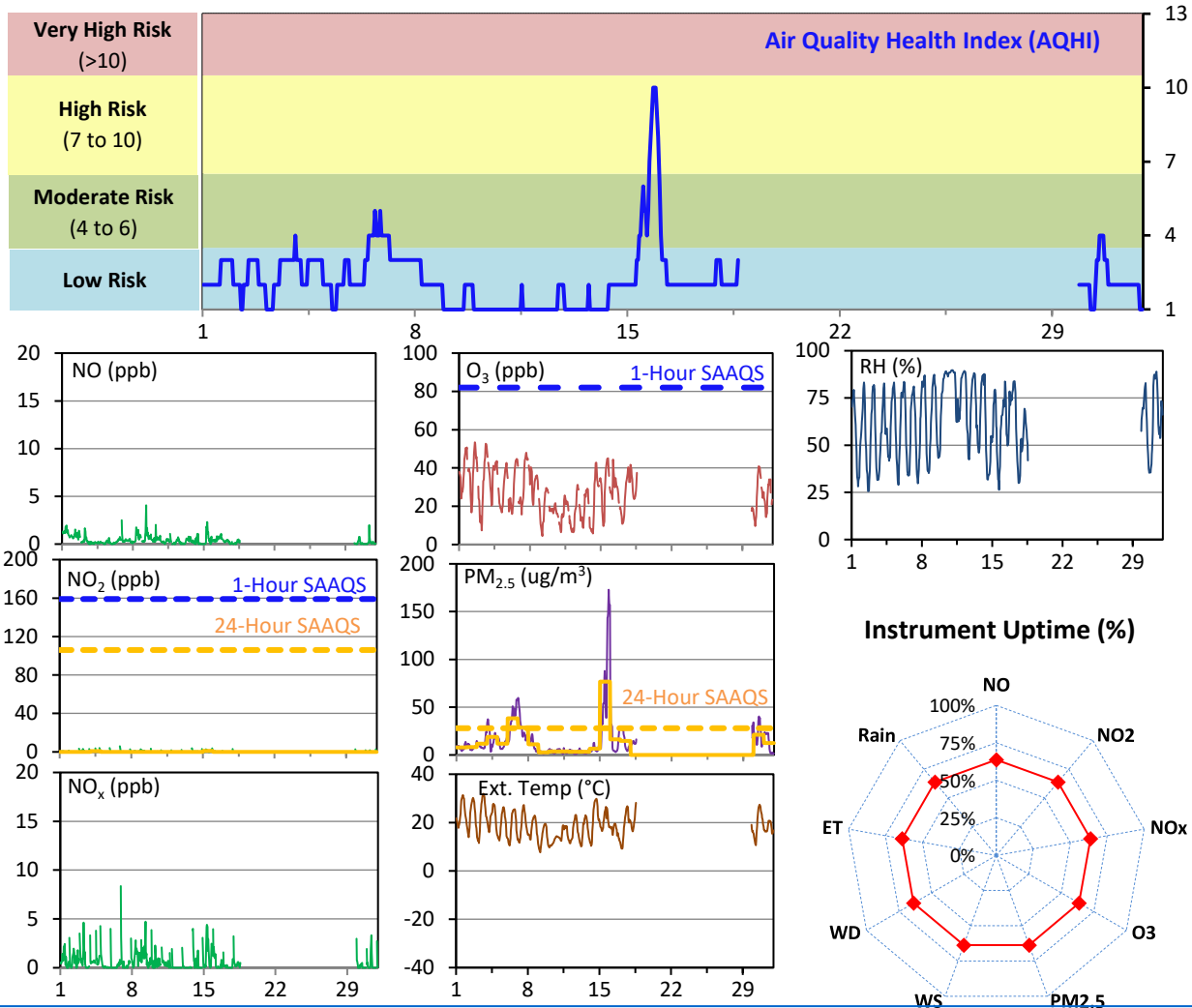
SESAA Esterhazy Station - August 2023 Summary Report

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	0.4	63.7%	1.2	Aug-1	-	-	4.1	Aug-09 07:00	-	-
NO ₂	ppb	0.4	63.7%	1.0	Aug-15	106	0	5.9	Aug-06 21:00	159	0
NO _x	ppb	0.7	63.7%	1.5	Aug-15	-	-	8.4	Aug-06 21:00	-	-
O ₃	ppb	27	63.6%	39	Aug-1	-	-	53	Aug-02 13:00	82	0
PM _{2.5}	ug/m3	16	63.7%	77	Aug-15	28	3	173	Aug-15 20:00	-	-

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.



Monthly Update

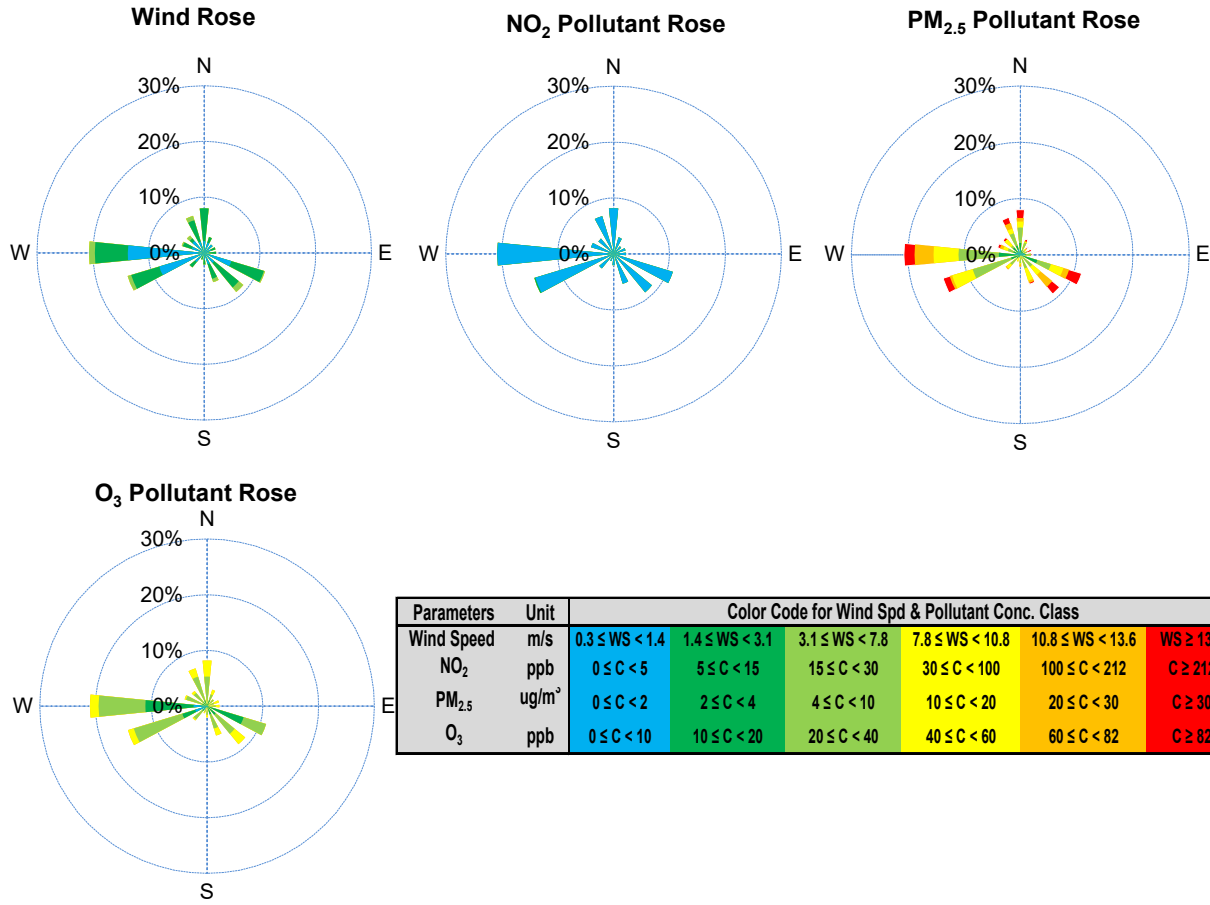
*All data has been slope, intercept, and baseline corrected. Data may change after validation process.

*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards with the exception of three 24-hour PM 2.5 exceedance associated with wildfire smoke in the area.

*All compliance parameters were below 90% operational due power failure issues.

*There are 270 hours of data for all parameters flagged as "power failure" on August 18 - 29 due to power issues at the site.

SESAA Esterhazy Station - August 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
NO ₂	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212
PM _{2.5}	ug/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30
O ₃	ppb	0 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 40	40 ≤ C < 60	60 ≤ C < 82	C ≥ 82

Exceedance Summary (24-Hour Average)												
24-hour Exceedance Information			Summary of Other Parameters During Exceedance									
Pollutant	Conc. ppb	Exceedance Date mmm-dd	WS m/s	WD deg	AQHI -	Rain mm	NO ppb	NO ₂ ppb	NO _x ppb	O ₃ ppb	PM _{2.5} ug/m ³	
PM _{2.5}	77	Aug-15	0.8	138	5	0.0	0.5	1.0	1.5	29	77	
PM _{2.5}	29	Aug-7	1.0	274	3	0.3	0.3	-	-	34	29	
PM _{2.5}	38	Aug-6	1.4	297	3	0.0	0.4	-	-	30	38	

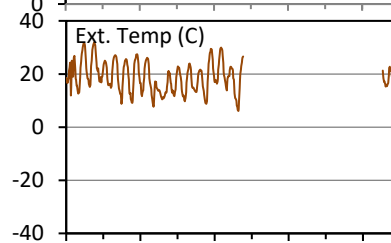
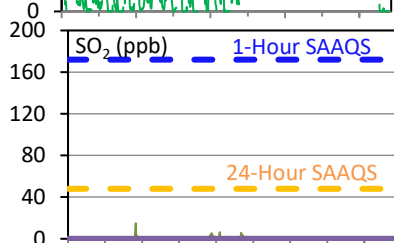
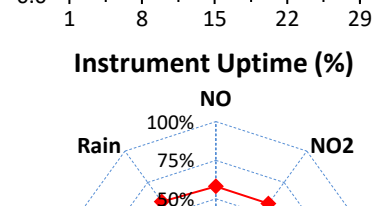
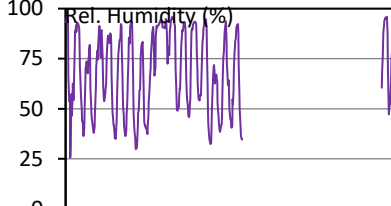
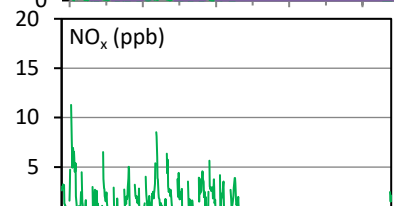
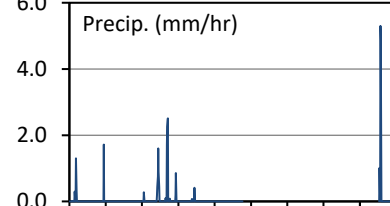
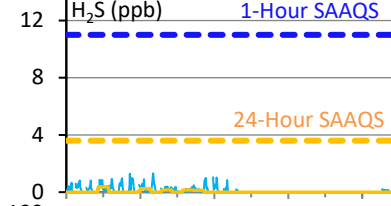
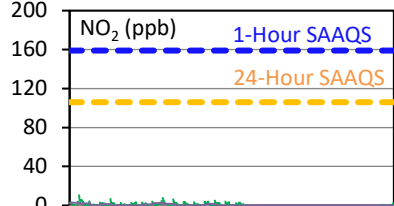
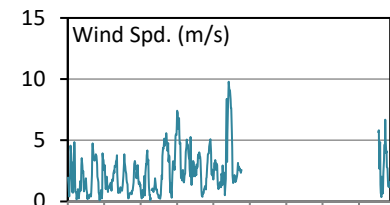
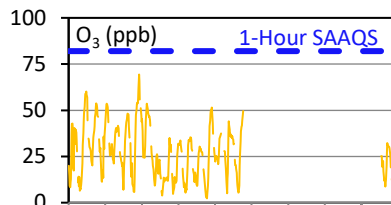
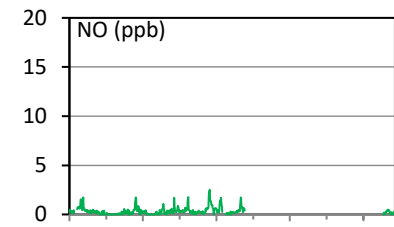
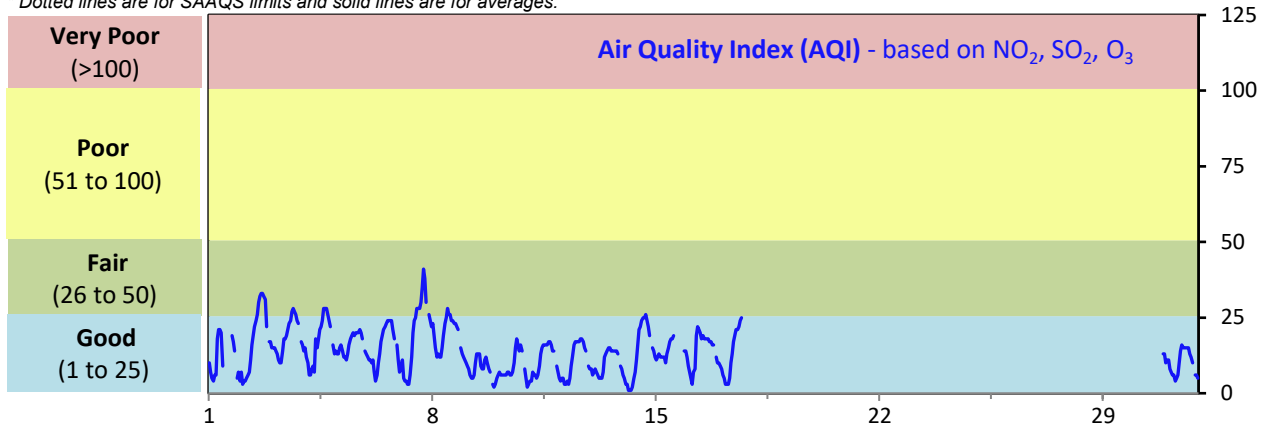
SESAA Glen Ewen Station - August 2023 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
				Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
Name	Conc. Unit	Avg. Conc.	Uptime	Conc.	Time	Standard	Days	Conc.	Time	Standard	Hours
NO	ppb	0.3	58.1%	0.9	Aug-14	-	-	2.5	Aug-14 08:00	-	-
NO ₂	ppb	1.2	58.1%	2.8	Aug-1	106	0	10.5	Aug-01 21:00	159	0
NO _x	ppb	1.5	58.1%	3.2	Aug-1	-	-	11.3	Aug-01 21:00	-	-
SO ₂	ppb	0.4	58.8%	< 0.1	#N/A	48	0	14.9	Aug-07 09:00	172	0
O ₃	ppb	27	58.8%	39	Aug-8	-	-	69	Aug-07 17:00	82	0
H ₂ S	ppb	0.2	58.8%	0.4	Aug-4	3.6	0	1.3	Aug-09 05:00	11	0

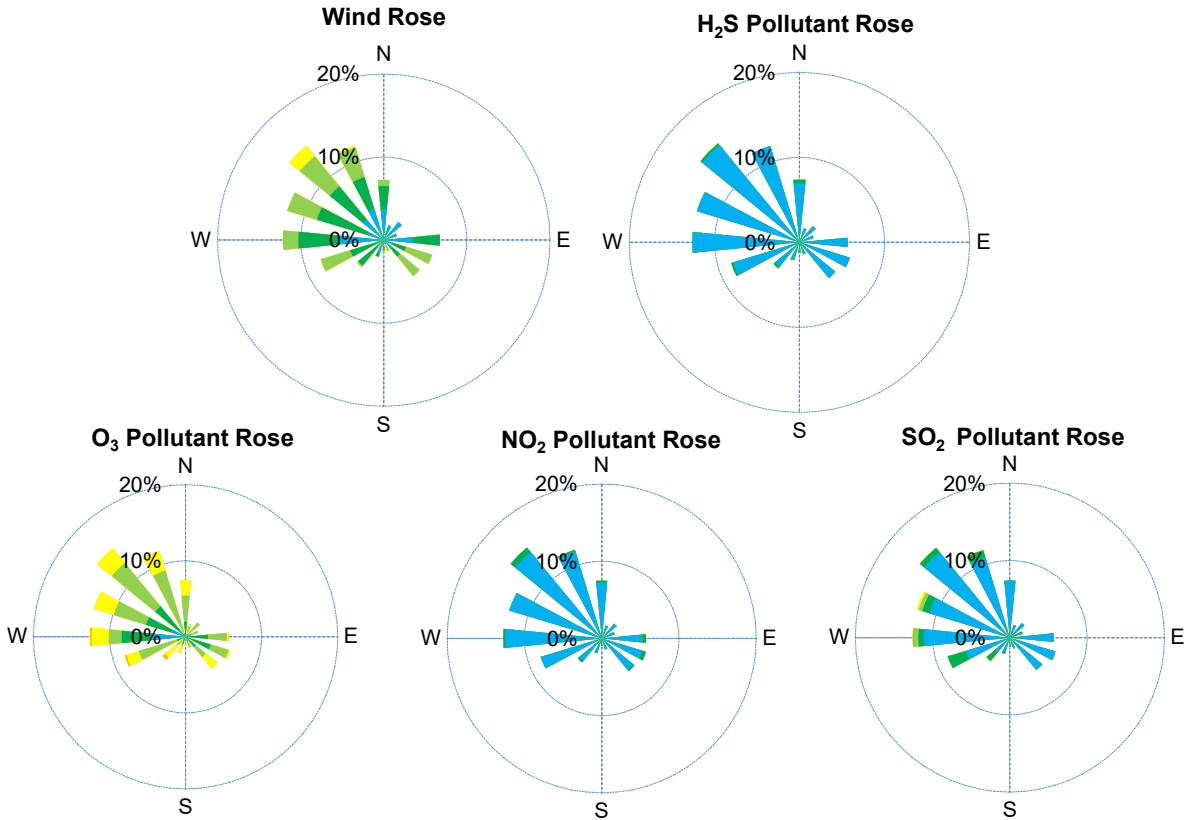
SAAQS: Saskatchewan Ambient Air Quality Standards

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

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



SESAA Glen Ewen Station - August 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 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	
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	

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 with the exception of five 1-hour H₂S exceedance.
- *All compliance parameters were less than 90% operational.
- *315 hours of data for compliance parameters is flagged as "power failure" on August 17 - 30 due to power interruptions on site.
- *316 hours of data for meteorological parameters is flagged as "power failure" on August 17 - 30 due to power interruptions on site.

Exceedance Summary

1-hour Exceedance Information			Summary of Other Parameters During Exceedance							
Pollutant	Conc. ppb	Exceedance Time mmm-dd hh:mm	WS m/s	WD deg	AQI -	Rain mm	SO ₂ ppb	NO ₂ ppb	O ₃ ppb	H ₂ S ppb
H ₂ S	29.7	Aug-04 03:00	0.4	280	9	0.0	0.1	7.0	19	29.7
H ₂ S	46.0	Aug-07 04:00	0.4	298	7	0.0	0.3	9.0	13	46.0
H ₂ S	25.0	Aug-07 03:00	0.4	255	9	0.0	0.3	10.1	17	25.0
H ₂ S	11.1	Aug-07 06:00	0.2	244	5	0.0	0.6	8.6	10	11.1
H ₂ S	11.2	Aug-12 05:00	0.4	301	9	0.0	0.0	3.3	19	11.2

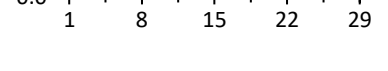
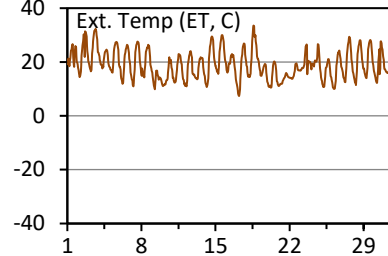
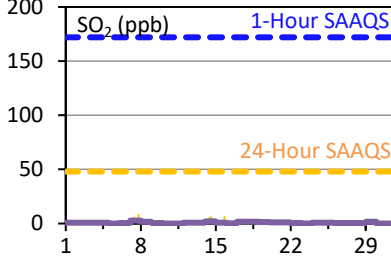
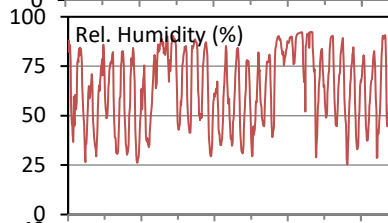
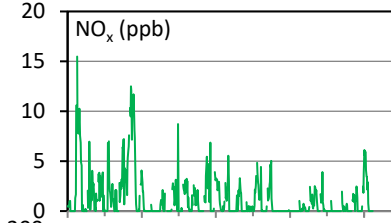
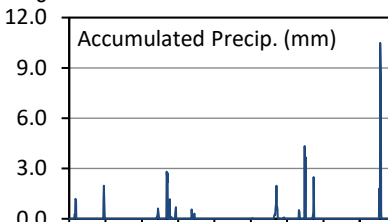
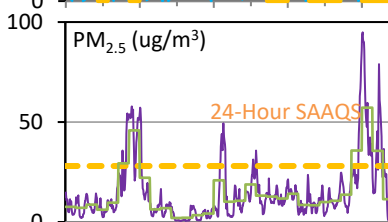
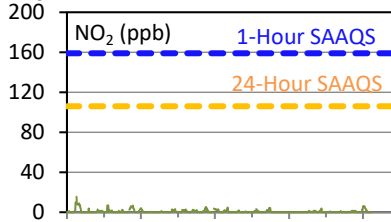
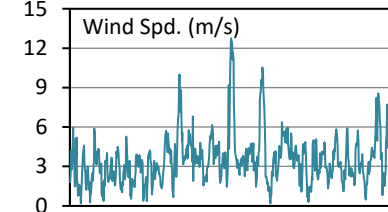
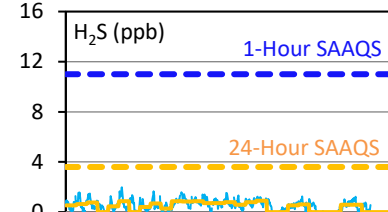
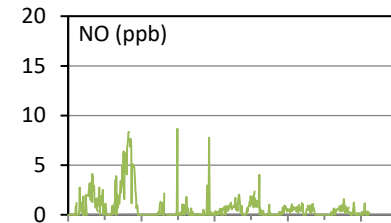
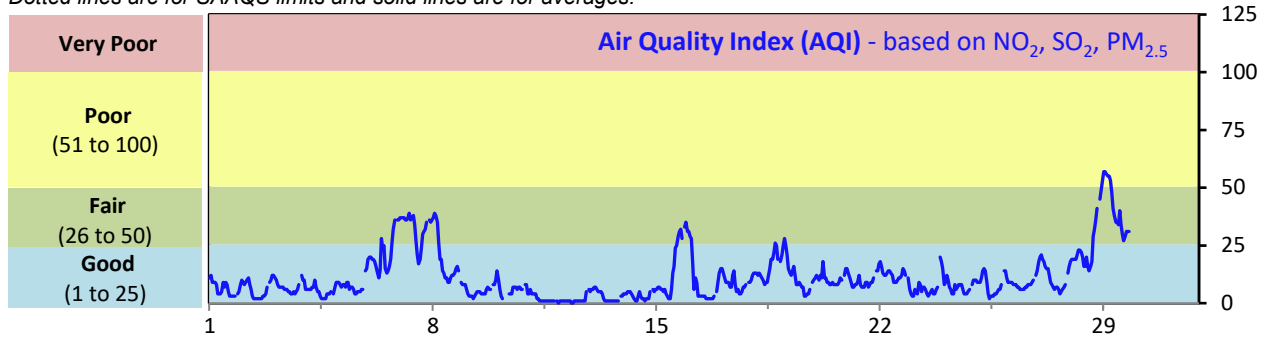
SESAA Oxbow Station - August 2023 Summary Report

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	0.7	92.5%	5.4	Aug-6	-	-	8.7	Aug-11 10:00	-	-
NO ₂	ppb	0.8	92.5%	0.4	Aug-24	106	0	15.5	Aug-01 21:00	159	0
NO _x	ppb	1.3	92.5%	5.2	Aug-6	-	-	15.5	Aug-01 21:00	-	-
SO ₂	ppb	0.9	93.0%	2.7	Aug-7	48	0	8.0	Aug-07 19:00	172	0
H ₂ S	ppb	0.6	93.0%	0.9	Aug-19	3.6	0	2	Aug-06 07:00	11	0
PM _{2.5}	ug/m3	15	100.0%	57	Aug-29	28	5	95	Aug-29 01:00	-	-

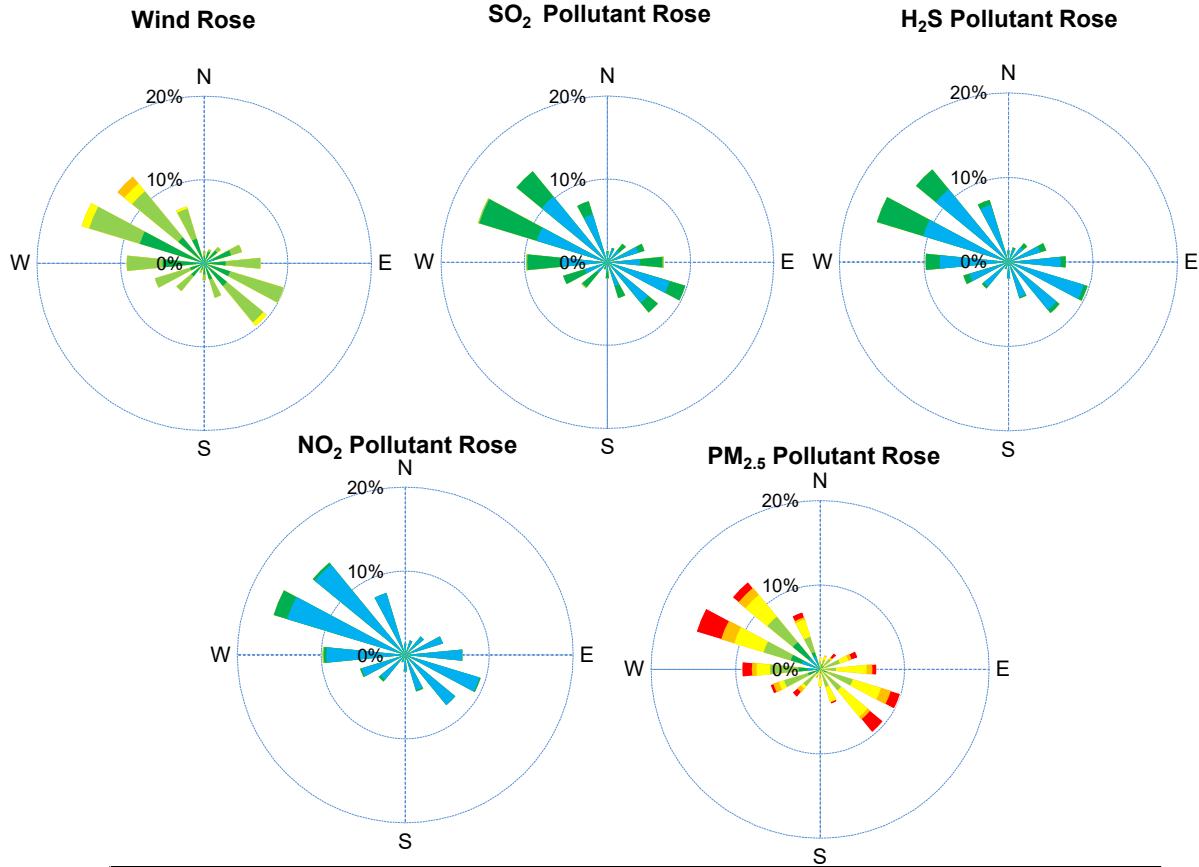
SAAQS: Saskatchewan Ambient Air Quality Standards

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



SESAA Oxbow Station - August 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 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}	ug/m ³	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 with the exception of five 24-hour PM_{2.5} exceedance attributed to wildfire smoke in the area.
- *All compliance parameters had greater than 90% operational uptime.
- *52 hours of data flagged as "analyzer failure" for SO₂ and H₂S due to analyzer malfunction.
- *56 hours of data flagged as "analyzer failure" for NO, NO₂ and NO_x due to analyzer malfunction.

Exceedance Summary

24-hour Exceedance Information			Summary of Other Parameters During Exceedance								
Pollutant	24-hr Avg Conc.	Exceedance Date mmm-dd	WS m/s	WD deg	AQI -	Rain mm	ET C	SO ₂ ppb	NO ₂ ppb	H ₂ S ppb	PM _{2.5} ug/m ³
PM _{2.5}	29	Aug-6	2.4	317	22	0.0	19.8	0.5	-	0.9	29
PM _{2.5}	46	Aug-7	2.9	265	32	0.0	19.9	2.7	-	-	46
PM _{2.5}	36	Aug-28	3.2	304	25	0.0	20.0	0.6	-	0.6	36
PM _{2.5}	57	Aug-29	2.5	186	41	0.0	20.8	1.5	-	-	57
PM _{2.5}	36	Aug-30	5.5	124	-	0.5	19.2	-	-	-	36

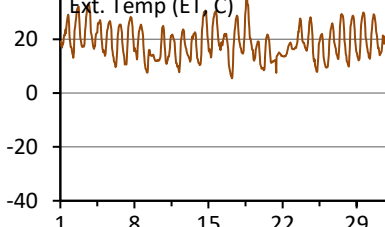
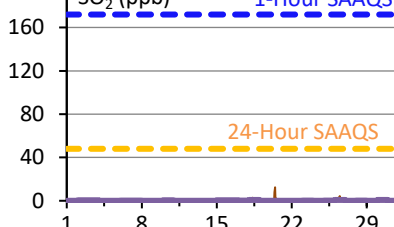
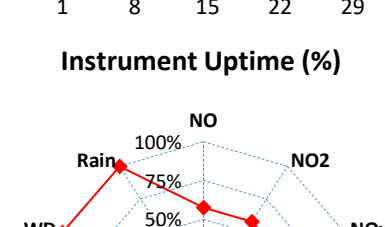
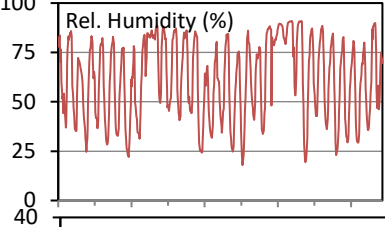
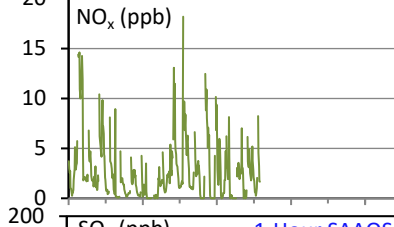
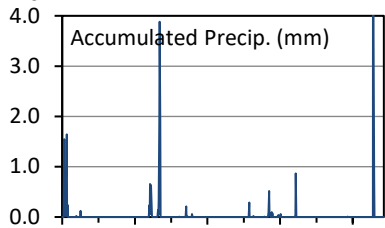
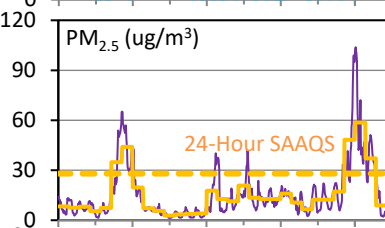
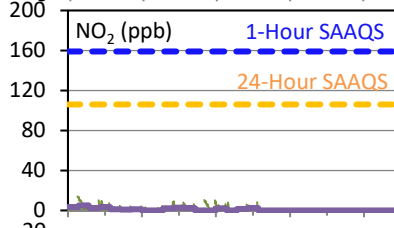
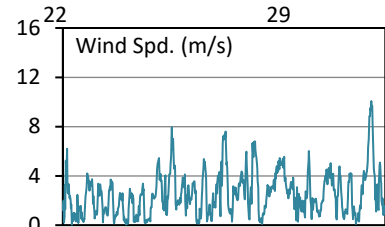
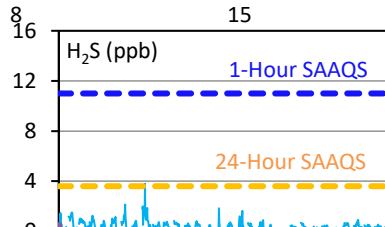
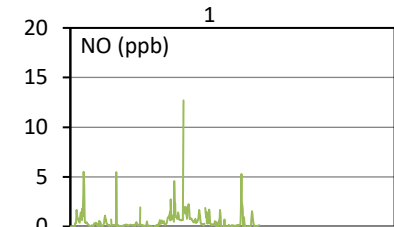
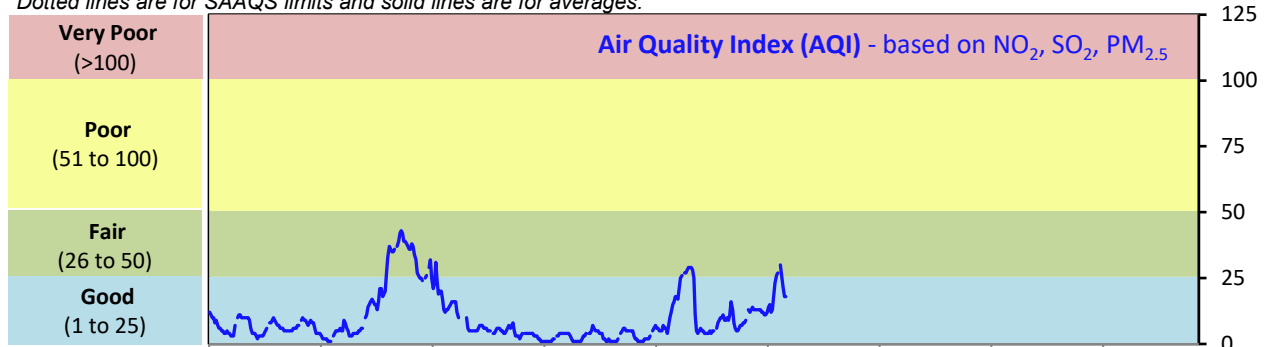
SESAA Stoughton Station - August 2023 Summary Report

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	0.5	57.7%	1.5	Aug-11	-	-	12.7	Aug-11 19:00	-	-
NO ₂	ppb	2.2	57.7%	5.0	Aug-2	106	0	14.0	Aug-01 21:00	159	0
NO _x	ppb	2.7	57.7%	6.0	Aug-2	-	-	18.2	Aug-11 19:00	-	-
SO ₂	ppb	0.3	100.0%	0.8	Aug-30	48	0	12.5	Aug-20 10:00	172	0
H ₂ S	ppb	0.3	100.0%	0.9	Aug-9	3.6	0	3.8	Aug-09 03:00	11	0
PM _{2.5}	ug/m3	16	100.0%	59	Aug-29	28	5	104	Aug-29 01:00	-	-

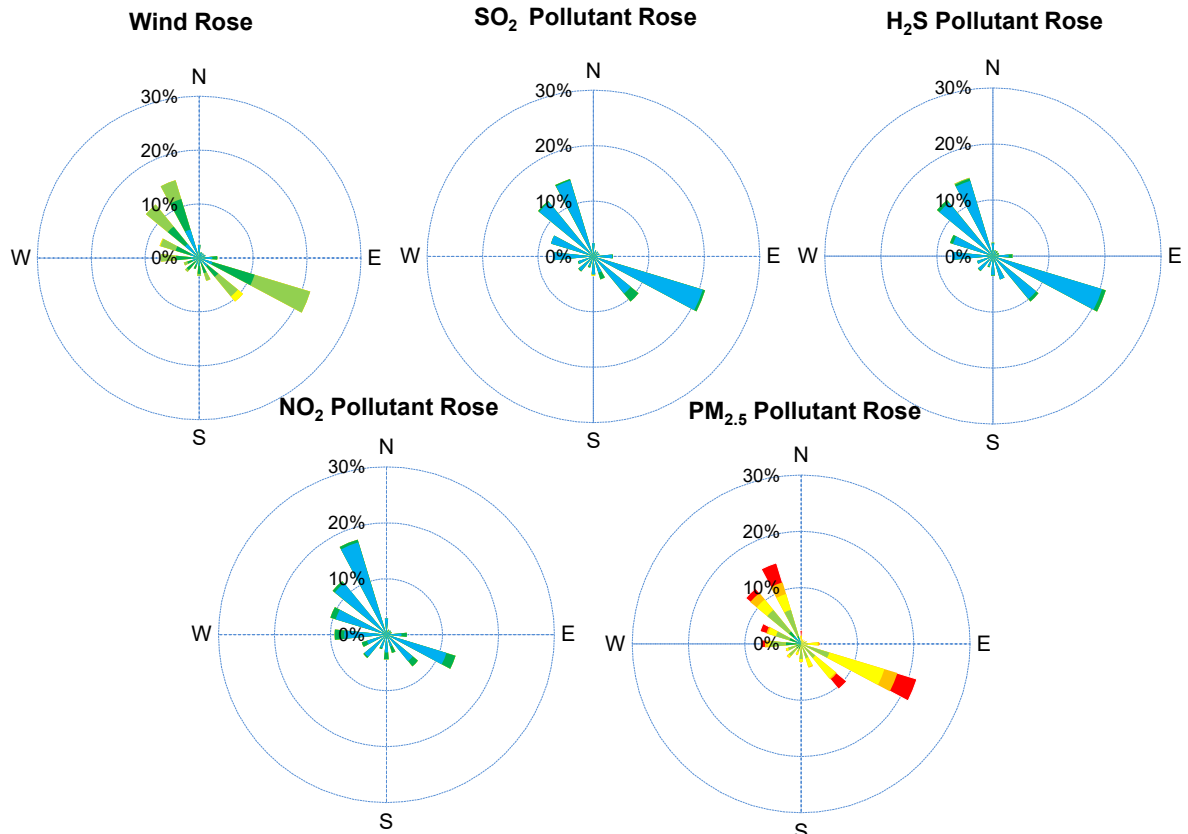
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* Dotted lines are for SAAQS limits and solid lines are for averages.



SESAA Stoughton Station - August 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 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}	ug/m ³	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 with the exception of five 24-hour PM_{2.5} exceedances associated with wildfire smoke in the area.

*All compliance parameters were greater than 90% operational, except for NO, NO₂ and NO_x due to analyzer failure.

*315 hours of data flagged as "analyzer failure" for NO/NO₂/NO_x on August 19 - 31 due to analyzer issues.

Exceedance Summary (24-Hour Average)											
24-hour Exceedance Information			Summary of Other Parameters During Exceedance								
Pollutant (unit)	24-hr Avg Conc.	Exceedance Date mmm-dd	WS m/s	WD deg	AQI -	Rain mm	ET C	SO ₂ ppb	NO ₂ ppb	H ₂ S ppb	PM _{2.5} ug/m ³
PM _{2.5}	35	Aug-6	1.4	321	25	0.0	18.0	0.3	0.9	0.5	35
PM _{2.5}	44	Aug-7	1.3	249	33	0.0	20.0	0.2	1.1	0.5	44
PM _{2.5}	48	Aug-28	2.1	313	-	0.0	19.6	0.2	-	0.3	48
PM _{2.5}	59	Aug-29	1.7	132	-	0.0	21.1	-	-	0.4	59
PM _{2.5}	37	Aug-30	6.5	126	-	0.7	21.1	0.8	-	0.3	37

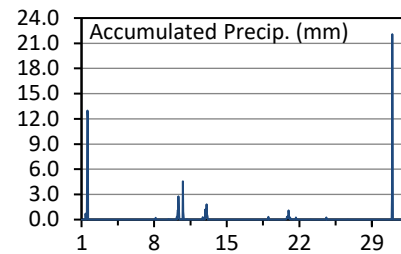
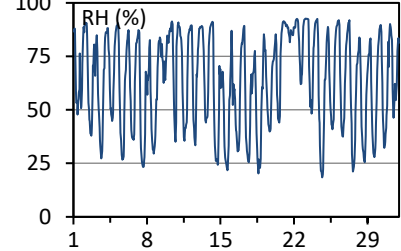
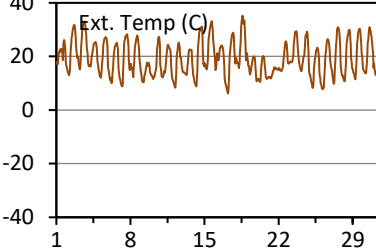
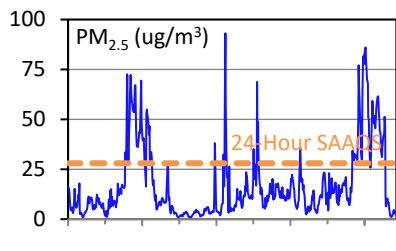
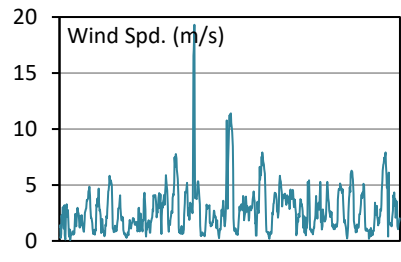
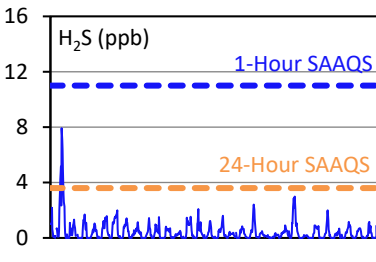
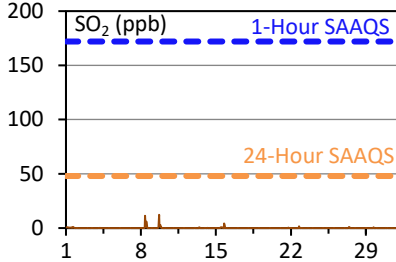
SESAA Torquay Station - August 2023 Summary Report

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 ₂	ppb	0.1	100.0%	0.4	Aug-1	48	0	12.2	Aug-09 16:00	172	0
H ₂ S	ppb	0.5	100.0%	1.0	Aug-1	3.6	0	7.9	Aug-02 01:00	11	0
PM _{2.5}	ug/m ³	17	100.0%	55	Aug-29	28	6	93	Aug-15 20:00	-	-

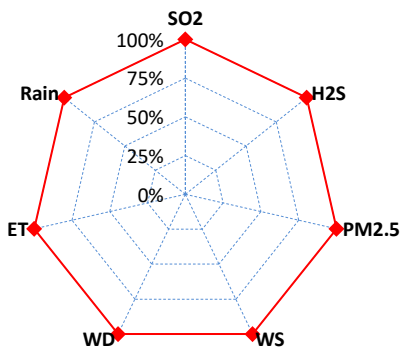
SAAQS: Saskatchewan Ambient Air Quality Standards

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

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



Instrument Uptime (%)



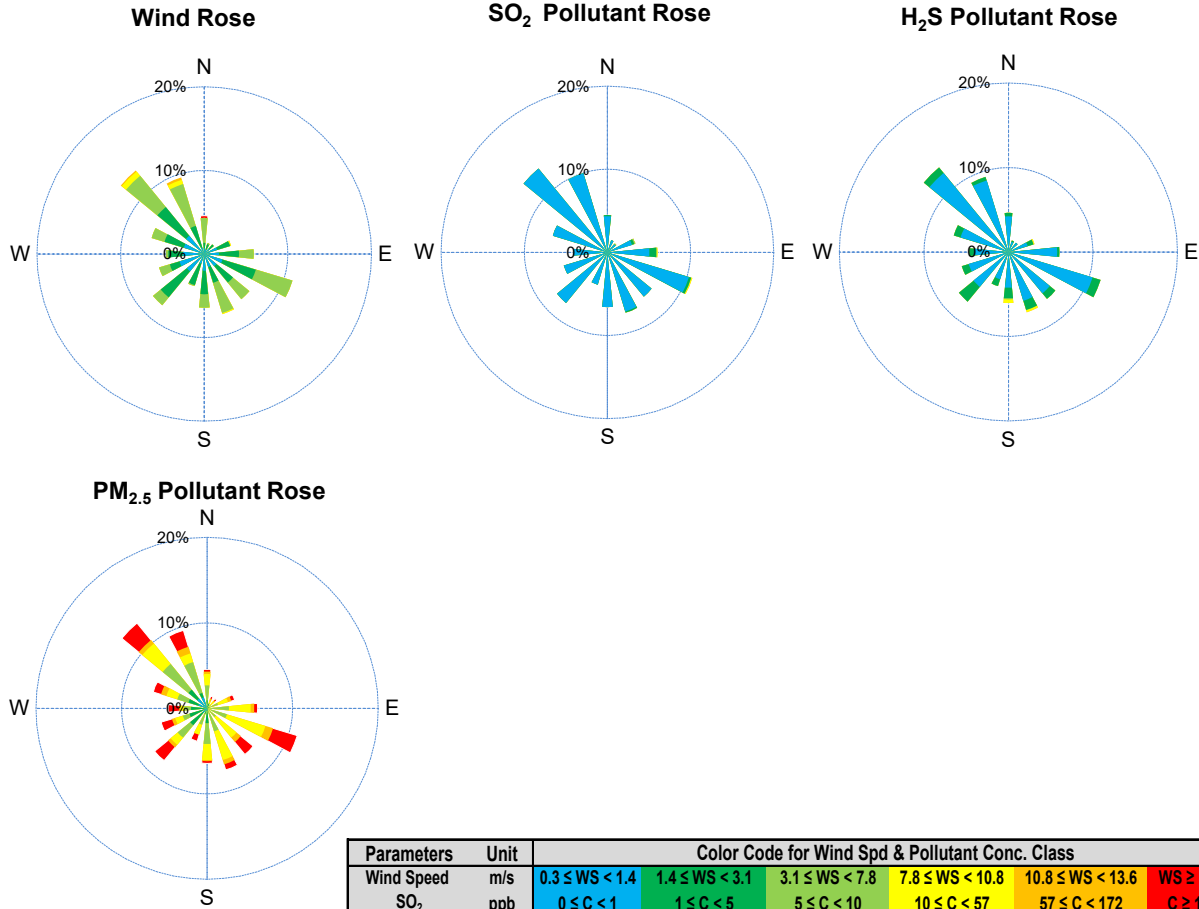
Monthly Update

*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 with the exception of six 24-hour PM_{2.5} exceedances attributed to wildfire smoke in the area.

*All compliance parameters had greater than 90% operational uptime.

SESAA Torquay Station - August 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 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
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}	ug/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30

Exceedance Summary (24-Hour Average)									
24-hour Exceedance Information			Summary of Other Parameters During Exceedance						
Pollutant	Conc. ppb	Exceedance Date mmm-dd	WS m/s	WD deg	AQHI -	Rain mm	SO ₂ ppb	H ₂ S ppb	PM _{2.5} ug/m ³
PM _{2.5}	37	Aug-6	1.8098	310.62	-	0	-	0.682	36.7651
PM _{2.5}	50	Aug-7	1.2777	234.96	-	0	-	0.677	50.4644
PM _{2.5}	37	Aug-8	1.8435	170.95	-	0.0088	-	0.479	36.691
PM _{2.5}	49	Aug-28	2.4855	314.33	-	0	-	0.171	48.6852
PM _{2.5}	55	Aug-29	1.3372	172.23	-	0	-	-	55.1835
PM _{2.5}	46	Aug-30	4.5294	136.35	-	1.0329	-	-	45.5335

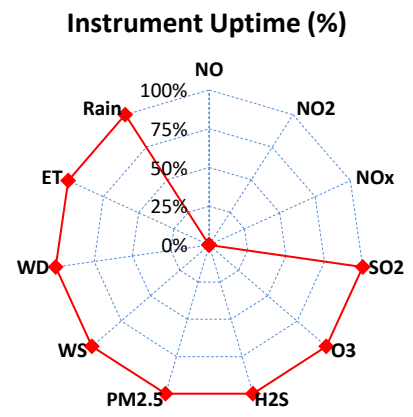
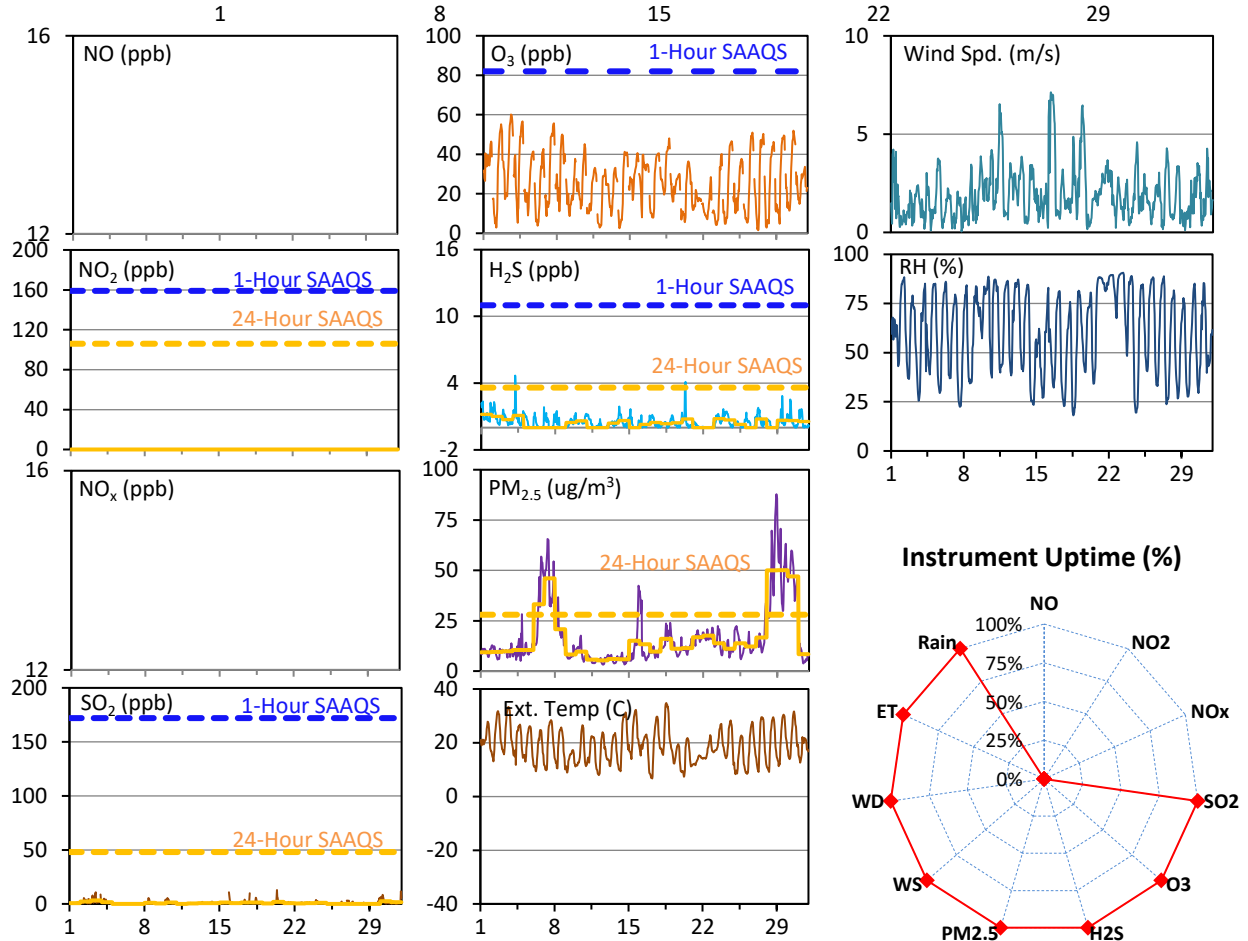
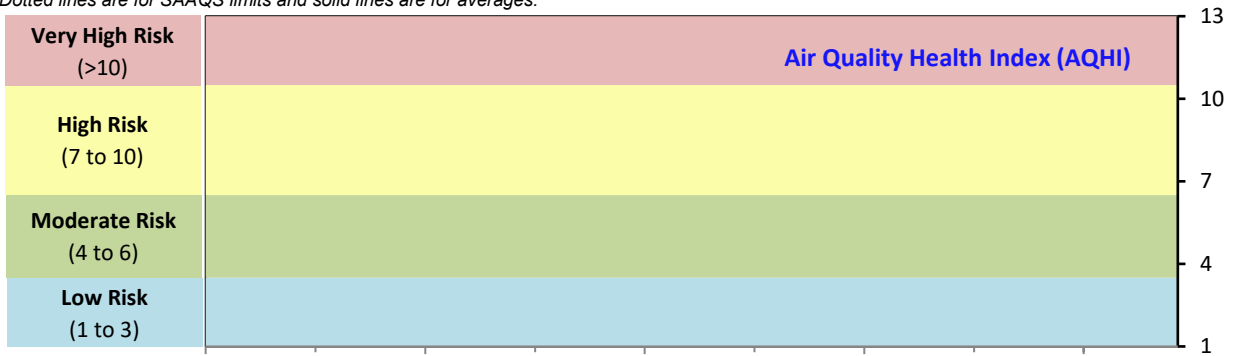
SESAA Weyburn Station - August 2023 Summary Report

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%	< 0.1	#N/A	-	-	< 0.1	-	-	-
NO ₂	ppb	-	0.0%	< 0.1	#N/A	106	0	< 0.1	-	159	0
NO _x	ppb	-	0.0%	< 0.1	#N/A	-	-	< 0.1	-	-	-
SO ₂	ppb	0.9	100.0%	3.2	Aug-3	48	0	12.9	Aug-20 08:00	172	0
O ₃	ppb	26	100.0%	38	Aug-3	-	-	60	Aug-03 15:00	82	0
H ₂ S	ppb	0.5	100.0%	1.2	Aug-1	3.6	0	4.7	Aug-04 05:00	11	0
PM _{2.5}	ug/m3	17	100.0%	50	Aug-29	28	5	88	Aug-28 22:00	-	-

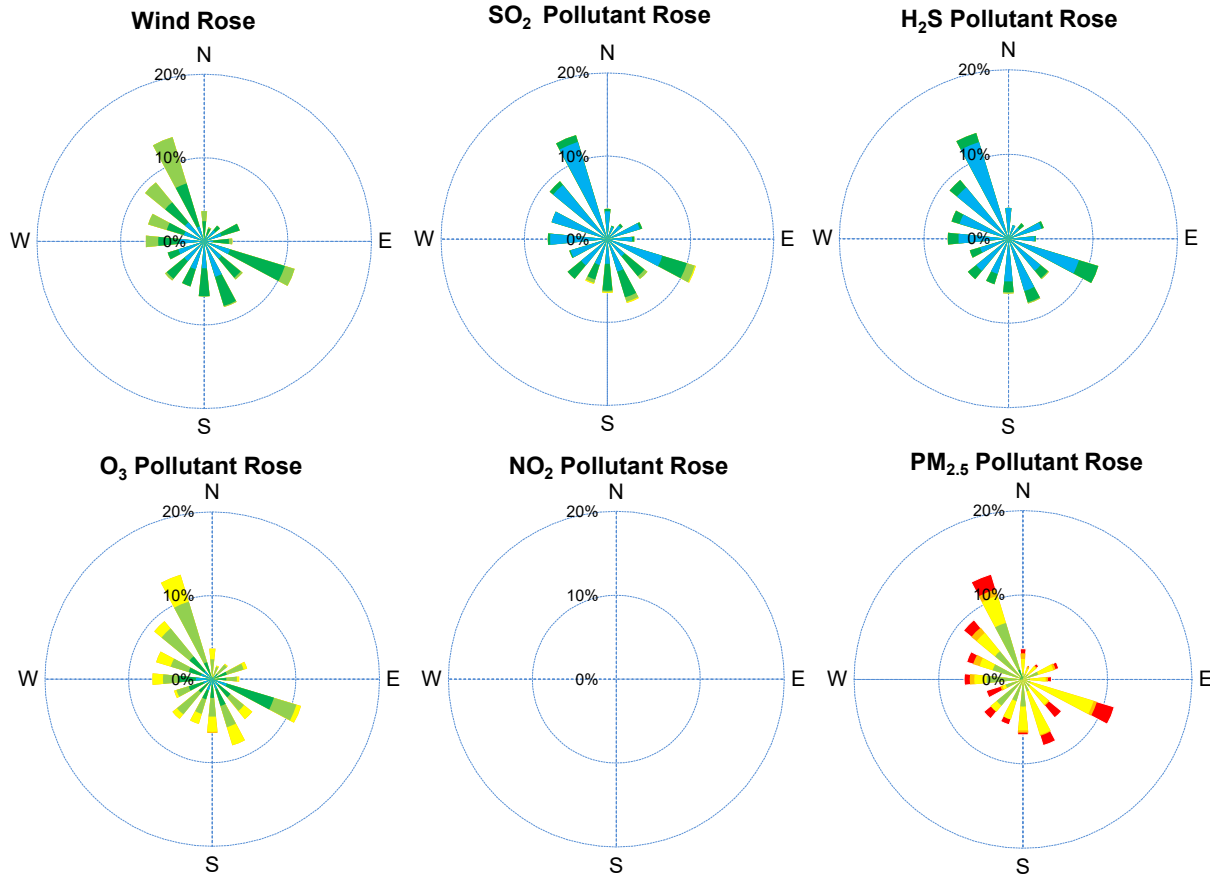
SAAQS: Saskatchewan Ambient Air Quality Standards

* 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 - August 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 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	
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}	ug/m ³	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 with the exception of five 24-hour PM_{2.5} exceedance associated with wildfire smoke in the area.

*All compliance parameters were greater than 90% operational with the exception of NO, NO₂ and NO_x.

*744 hours of data for NO, NO₂ and NO_x is flagged as "analyzer failure" the analyzer was removed from service on June 3.

Exceedance Summary (24-Hour Average)

24-hour Exceedance Information			Summary of Other Parameters During Exceedance								
Pollutant	Conc. ppb	Exceedance Date mmm-dd	WS m/s	WD deg	AQHI -	Rain mm	SO ₂ ppb	NO ₂ ppb	O ₃ ppb	H ₂ S ppb	PM _{2.5} ug/m ³
PM _{2.5}	33	Aug-6	1.2379	300.26	-	0.0013	-	-	21.45	-	33.184
PM _{2.5}	46	Aug-7	1.0216	219.18	-	0.0029	-	-	33.62	-	46.1128
PM _{2.5}	50	Aug-28	1.7108	301.17	-	0.0008	-	-	24.16	-	50.0469
PM _{2.5}	50	Aug-29	0.9543	162.7	-	0	-	-	28.75	0.665	50.1118
PM _{2.5}	47	Aug-30	2.1178	141.38	-	0.0029	2.56	-	30.16	0.633	47.0483

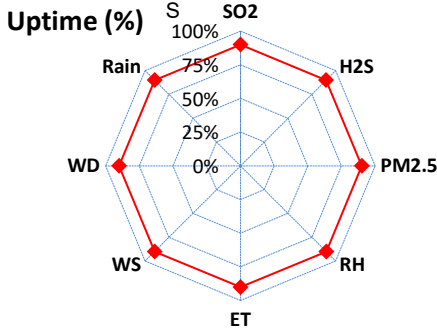
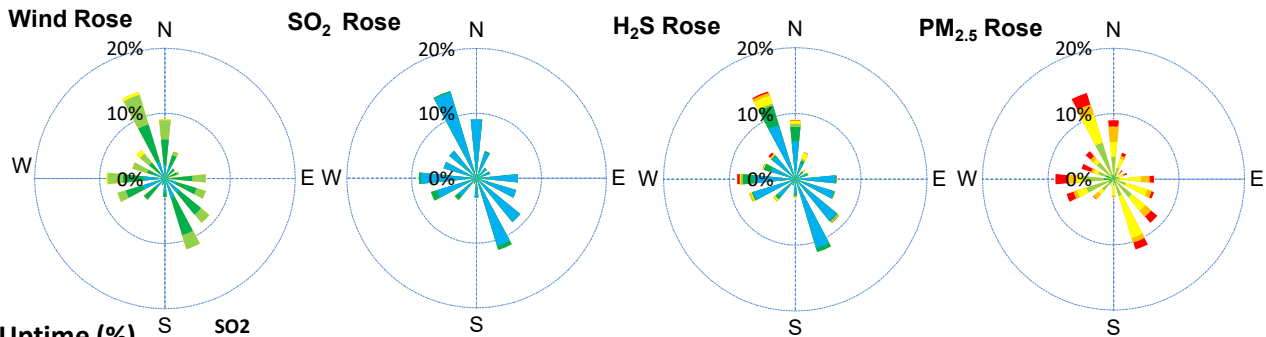
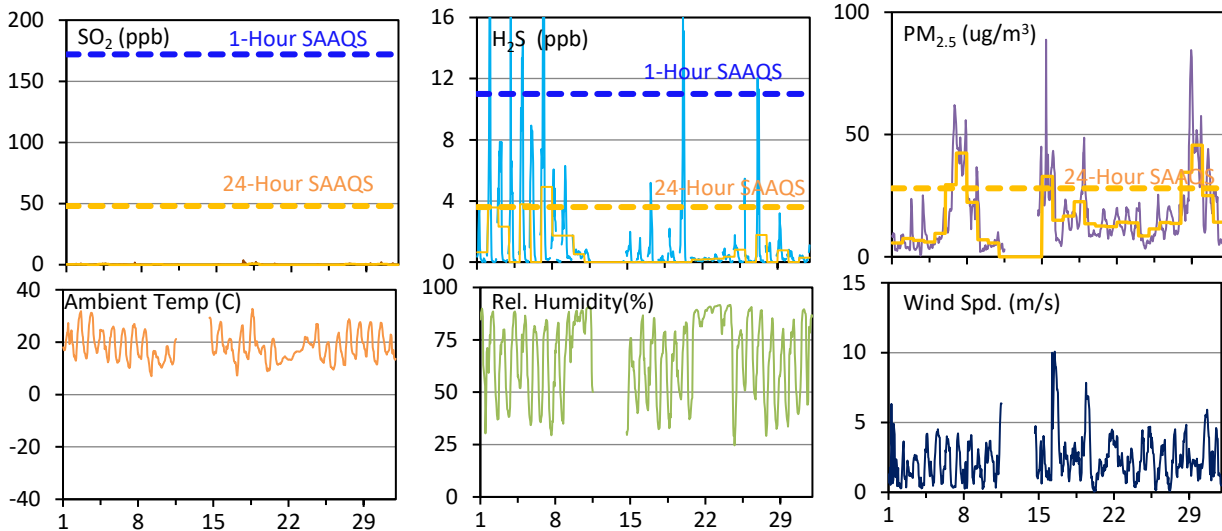
SESAA Wauchope Station - August 2023 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Objective	Exceed Days	Maximum		SAAQS Objective	Exceed Hours
				Conc.	Time			Conc.	Time		
SO ₂	ppb	0.2	89.9%	0.7	Aug-18	48	0	3.7	Aug-17 12:00	172	0
H ₂ S	ppb	1.3	89.9%	4.9	Aug-7	3.6	2	35.3	Aug-07 05:00	11	14
PM _{2.5}	ug/m ³	17	90.1%	46	Aug-29	28	5	89	Aug-15 09:00	-	-

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.



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 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}	ug/m ³	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30

SESAA Wauchope Station - June 2023 Summary Report

Exceedance Summary (1-Hour Average)									
1-hour Exceedance Information			Summary of Other Parameters During Exceedance						
Pollutant	Conc. ppb	Exceedance Time mmm-dd hh:mm	WS m/s	WD deg	Rain mm	ET C	SO ₂ ppb	H ₂ S ppb	PM _{2.5} ug/m3
H2S	13.0	Aug-02 03:00	0.3	317	0.0	13.4	0.1	13.0	6
H2S	17.8	Aug-02 04:00	0.3	292	0.0	12.9	0.1	17.8	6
H2S	18.4	Aug-02 05:00	1.0	339	0.0	13.9	0.2	18.4	6
H2S	21.2	Aug-04 03:00	0.3	94	0.0	15.8	0.0	21.2	9
H2S	13.3	Aug-05 04:00	1.0	274	0.0	12.3	0.0	13.3	7
H2S	12.7	Aug-05 05:00	0.7	333	0.0	13.0	0.1	12.7	7
H2S	14.5	Aug-05 06:00	1.3	357	0.0	13.5	0.1	14.5	7
H2S	18.9	Aug-07 03:00	0.4	314	0.0	10.4	0.0	18.9	44
H2S	17.1	Aug-07 04:00	0.4	276	0.0	10.1	0.0	17.1	44
H2S	35.3	Aug-07 05:00	0.4	280	0.0	10.5	0.0	35.3	44
H2S	16.4	Aug-20 04:00	0.4	15	0.0	9.2	0.0	16.4	9
H2S	15.1	Aug-20 06:00	0.2	182	0.0	9.7	0.0	15.1	9
H2S	12.0	Aug-27 03:00	0.2	53	0.0	11.3	0.2	12.0	17
H2S	11.3	Aug-27 06:00	0.3	136	0.0	11.3	0.3	11.3	14

Exceedance Summary (24-Hour Average)									
24-hour Exceedance Information			Summary of Other Parameters During Exceedance						
Pollutant	Conc. ppb	Exceedance Date mmm-dd	WS m/s	WD deg	Rain mm	ET C	SO ₂ ppb	H ₂ S ppb	PM _{2.5} ug/m3
PM2.5	30	Aug-6	2.1	293	0.0	18.3	0.1	-	30
PM2.5	42.0	Aug-7	1.8	271	0.0	19.2	-	4.9	42
PM2.5	33.0	Aug-15	2.0	149	0.0	21.0	-	-	33
PM2.5	35.0	Aug-28	2.8	302	0.0	21	0.3	-	35
PM2.5	46.0	Aug-29	1.9	166	0.0	21	0.3	0.8	46
H2S	3.8	Aug-5	2.4	328	0.0	19	0.1	3.8	10
H2S	4.9	Aug-7	1.8	271	0.0	19	-	4.9	42

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 with the exception of five 24-hour PM 2.5 exceedance associated with wildfire smoke in the area. Two 24-hour H2S exceedances and fourteen 1-hour H2S exceedances were also recorded.

*All compliance parameters were greater than 90% operational, except for SO2 and H2S due to power failure issues.

*74 hours of data for all parameters is flagged as "power failure" due to power issues on site.