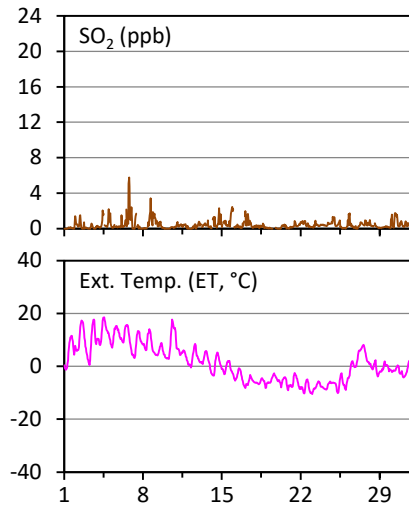


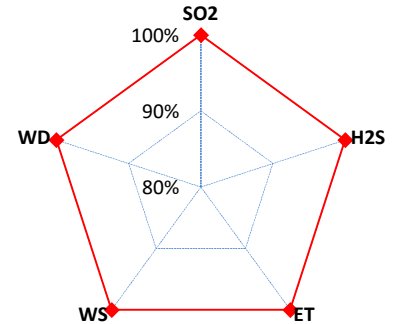
# Husky Oil Operations Limited West Station - October 2020 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		AAAQO / SAAQS	Exceed Days	Maximum		AAAQO / SAAQS	Exceed Hours
				Conc.	Time			Conc.	Time		
SO <sub>2</sub>	ppb	0.4	100.0%	1.4	Oct-6	48 / 48	0 / 0	5.8	Oct-06 19:00	172 / 172	0 / 0
H <sub>2</sub> S	ppb	1.0	100.0%	0.8	Oct-8	3 / 3.6	0 / 0	5.0	Oct-08 04:00	10 / 11.0	0 / 0

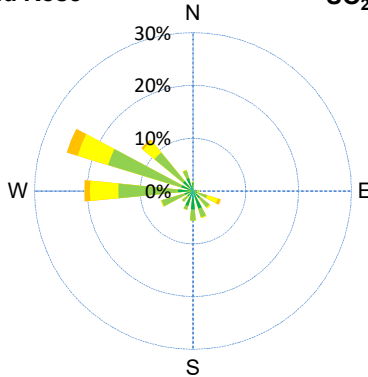
AAAQO: Alberta Ambient Air Quality Objectives; SAAQS: Saskatchewan Ambient Air Quality Standards.



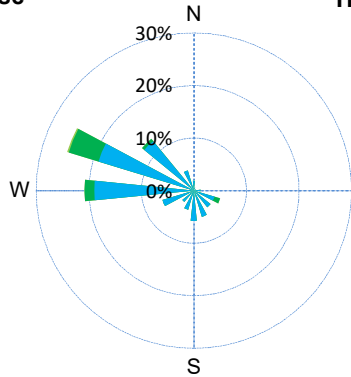
Uptime (%)



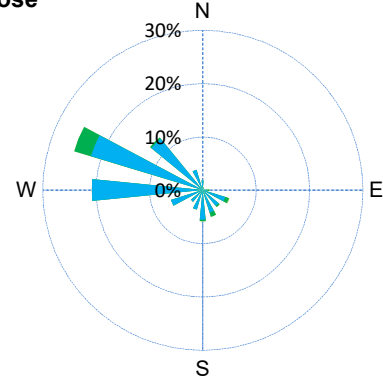
Wind Rose



SO<sub>2</sub> Rose



H<sub>2</sub>S Rose



Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	km/hr	1 ≤ WS < 5	5 ≤ WS < 10	10 ≤ WS < 20	20 ≤ WS < 30	30 ≤ WS < 40	WS ≥ 40
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 < 11	C ≥ 11

## Monthly Update

\*Air monitoring data has been validated. Data may change after validation process.

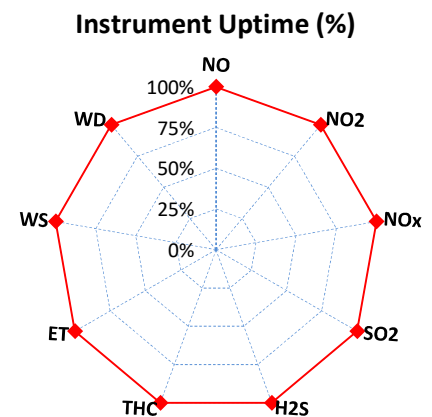
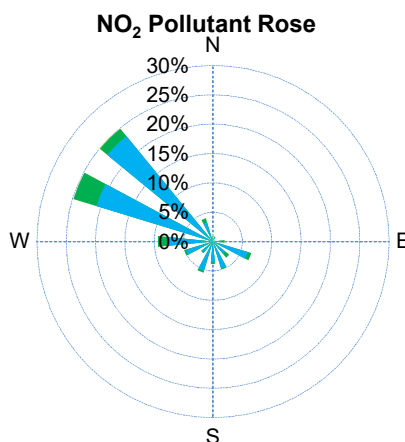
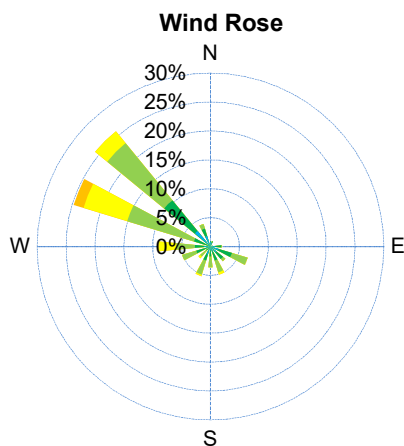
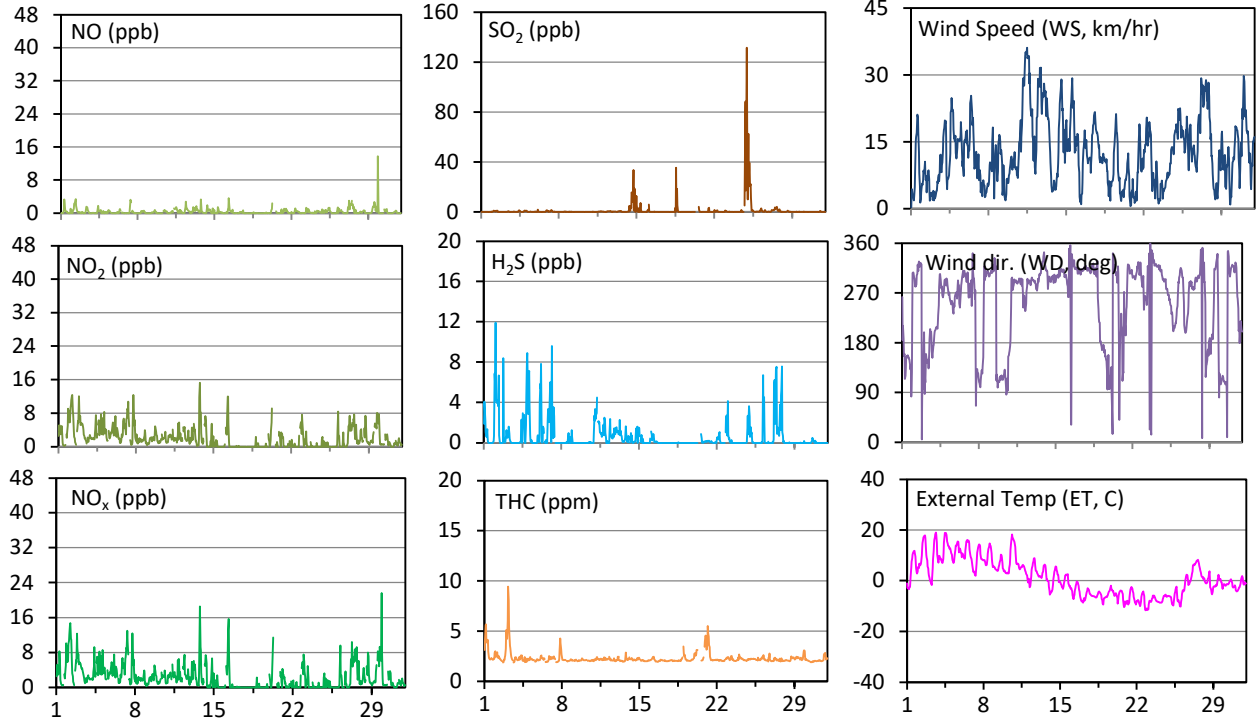
\*All compliance parameters were within the Alberta Ambient Air Quality Objectives and the Saskatchewan Ambient Air Quality Standards.

\*All compliance parameters were 100% operational. There are no operational issues to report.

# Husky Oil Operations Limited East Station - October 2020 Summary Report

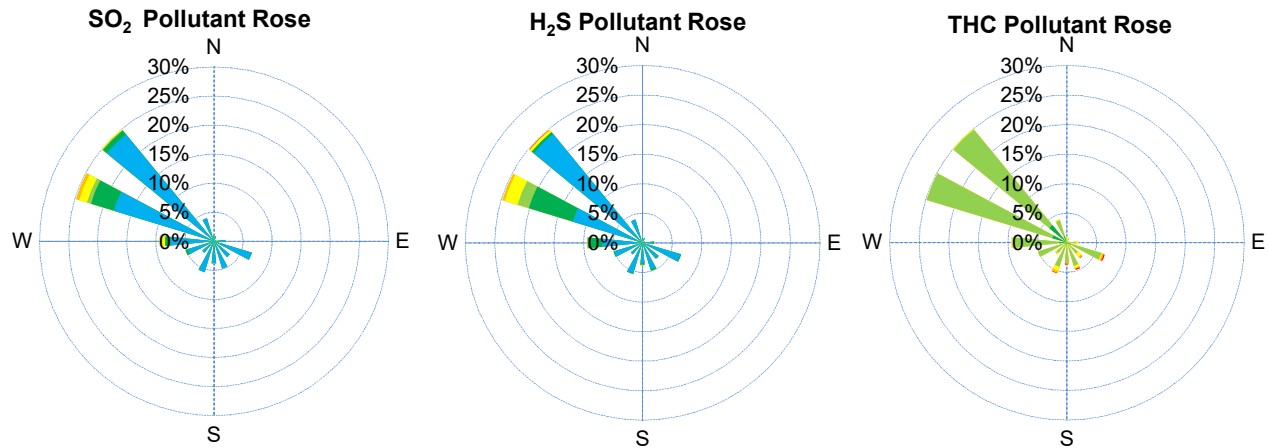
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Uptime	Maximum		SAAQS Standards	Exceed Days	Maximum		SAAQS Standards	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.4	100.0%	1.3	Oct-29	-	-	13.8	Oct-29 22:00	-	-
NO <sub>2</sub>	ppb	2.1	100.0%	6.4	Oct-2	106	0	15.3	Oct-13 19:00	159	0
NO <sub>x</sub>	ppb	2.4	100.0%	7.2	Oct-2	-	-	21.6	Oct-29 22:00	-	-
SO <sub>2</sub>	ppb	1.4	100.0%	19.0	Oct-24	48	0	131.6	Oct-24 23:00	172	0
H <sub>2</sub> S	ppb	0.7	100.0%	2.9	Oct-27	3.6	0	11.9	Oct-02 02:00	11.0	1
THC	ppm	2.3	100.0%	3.5	Oct-3	-	-	9.4	Oct-03 04:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	km/hr	1 ≤ WS < 5	5 ≤ WS < 10	10 ≤ WS < 20	20 ≤ WS < 30	30 ≤ WS < 40	WS ≥ 40
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 < 11	C ≥ 11
THC	ppm	0 ≤ C < 1	1 ≤ C < 2	2 ≤ C < 3	3 ≤ C < 4	4 ≤ C < 5	C ≥ 5

## Husky Oil Operations Limited East Station - October 2020 Summary Report



### Monthly Update

\*Air monitoring data has been validated. Data may change after validation process.

\*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards with the exception of one 1-hour H<sub>2</sub>S exceedance. Refer to the Exceedance Summary Table for details.

\*All compliance parameters were 100% operational. There are no operational issues to report.

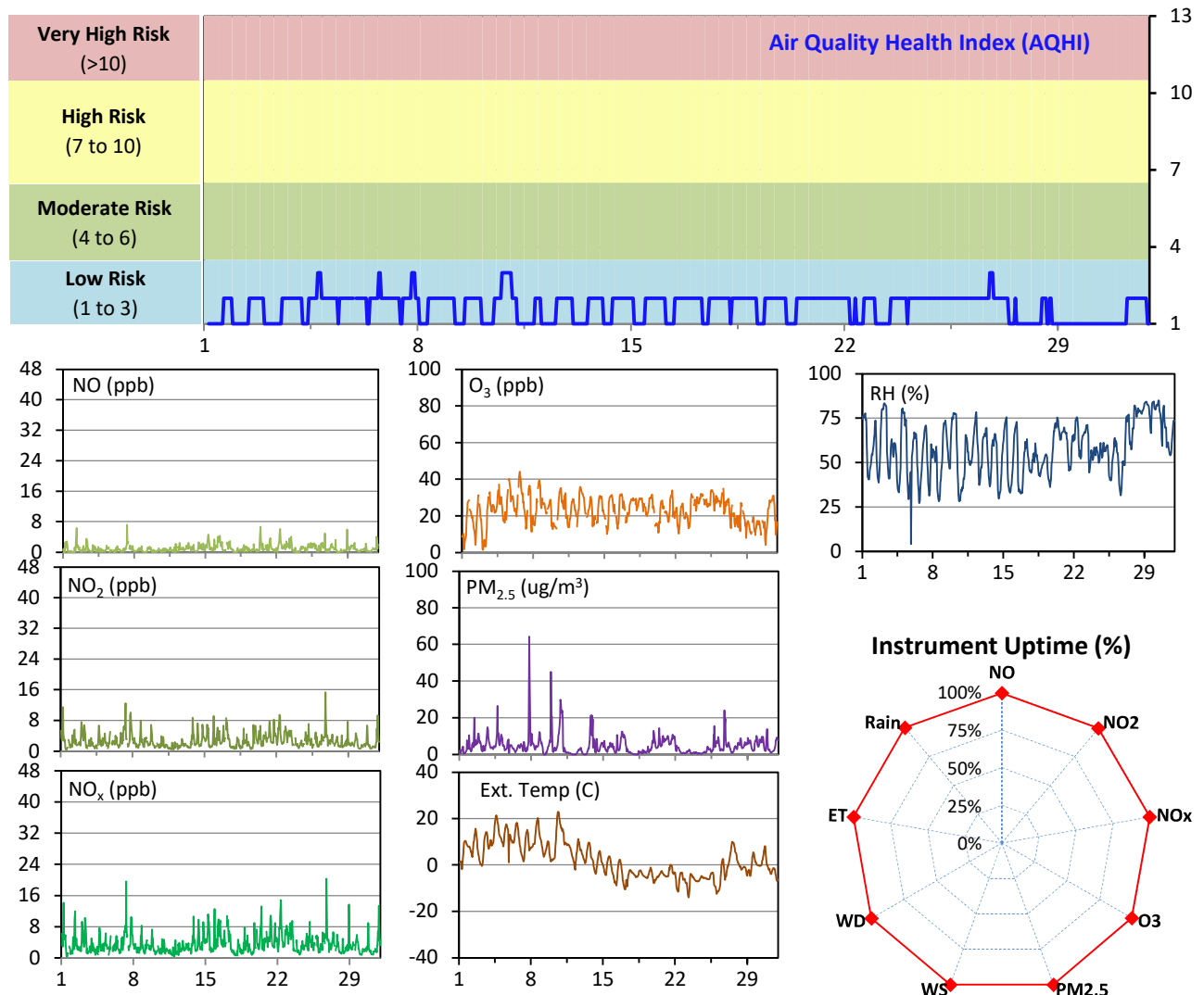
### Exceedance Summary

1-hour Exceedance Information			Summary of Other Parameters During Exceedance						
Pollutant	Conc. ppb	Exceedance Time mmm-dd hh:mm	WS km/hr	WD deg	ET C	SO <sub>2</sub> ppb	H <sub>2</sub> S ppb	NO <sub>2</sub> ppb	THC ppm
H <sub>2</sub> S	11.9	Oct-02 02:00	5.3	305.8	5.3	0.2	11.9	6.6	2.5

## WYAMZ Clavet Station - October 2020 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		
NO	ppb	1.0	99.6%	1.9	Oct-22	-	-	7.2	Oct-07 07:00	-	-
NO <sub>2</sub>	ppb	2.6	99.6%	4.8	Oct-7	106	0	15.4	Oct-26 18:00	159	0
NO <sub>x</sub>	ppb	3.6	99.6%	6.3	Oct-7	-	-	20.3	Oct-26 18:00	-	-
O <sub>3</sub>	ppb	23	99.6%	31	Oct-6	-	-	44	Oct-06 16:00	82	0
PM <sub>2.5</sub>	ug/m3	5	100.0%	10	Oct-10	28	0	64	Oct-07 19:00	-	-

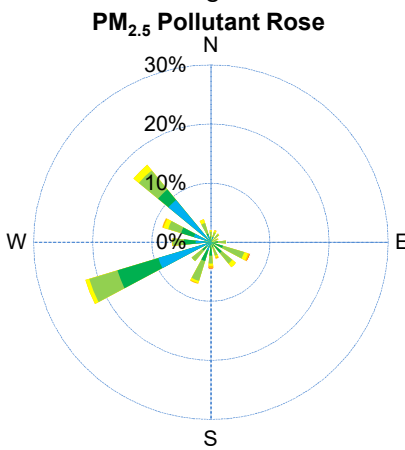
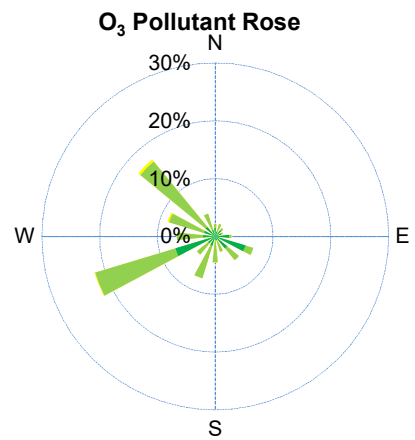
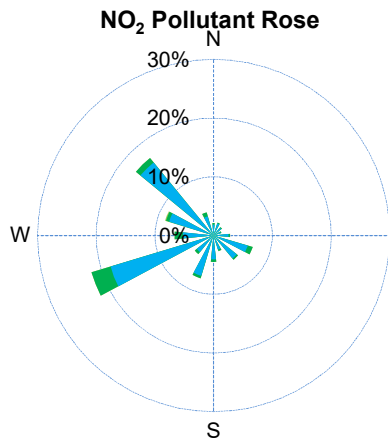
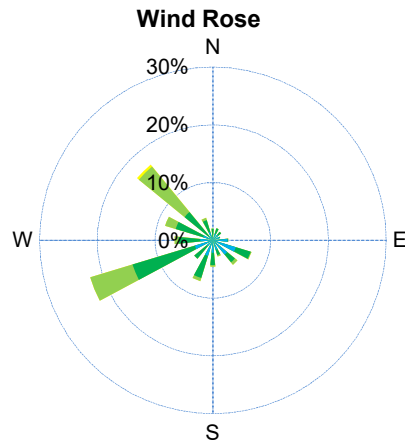
SAAQS: Saskatchewan Ambient Air Quality Standards



### 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 greater than 90% operational for the month.
- \* Eight hours of data flagged as "analyzer failure" for the O<sub>3</sub>, NO, NO<sub>2</sub> and NO<sub>x</sub> on Oct 5 due to instrumentation issues.

# WYAMZ Clavet Station - October 2020 Summary Report

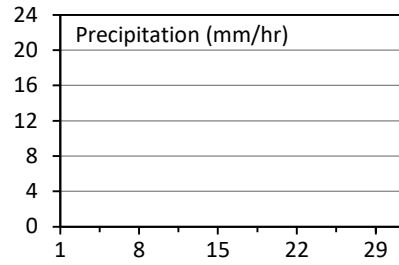
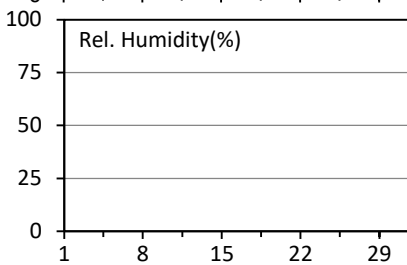
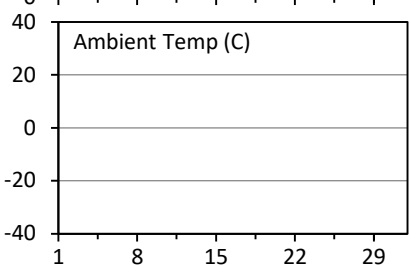
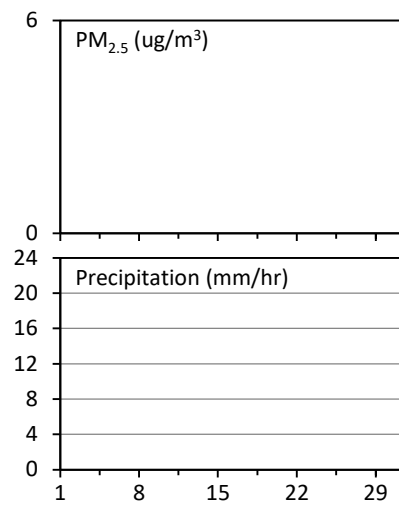
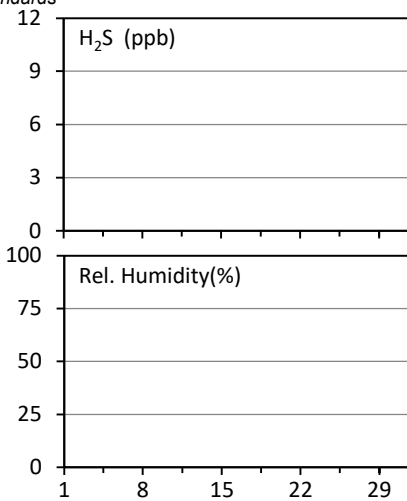
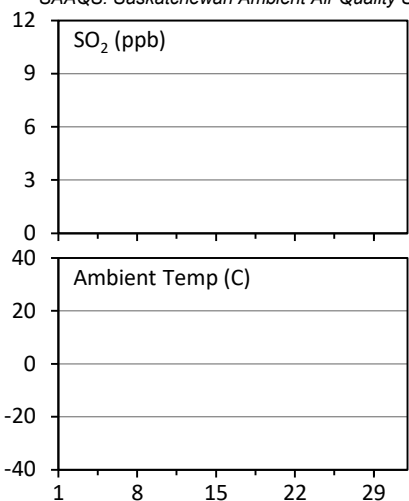


Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class					
Wind Speed	m/s	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$
NO <sub>2</sub>	ppb	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C 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

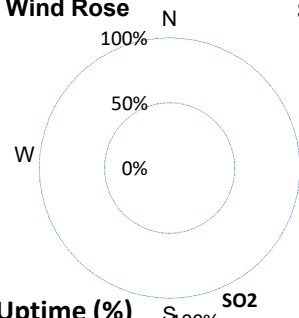
## WYAMZ Kerrobert Station - October 2020 Summary Report

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 <sub>2</sub>	ppb	-	-	-	-	48	0	-	-	172	0
H <sub>2</sub> S	ppb	-	-	-	-	3.6	0	-	-	11	0
PM <sub>2.5</sub>	ug/m3	-	-	-	-	28	0	-	-	-	-

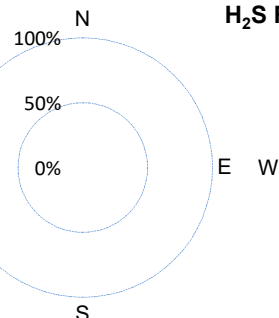
SAAQS: Saskatchewan Ambient Air Quality Standards



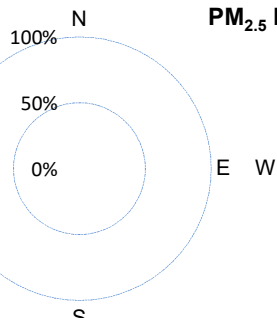
Wind Rose



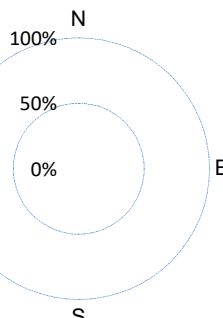
SO<sub>2</sub> Rose



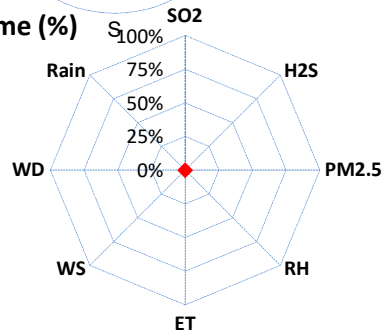
H<sub>2</sub>S Rose



PM<sub>2.5</sub> Rose



Uptime (%)



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.

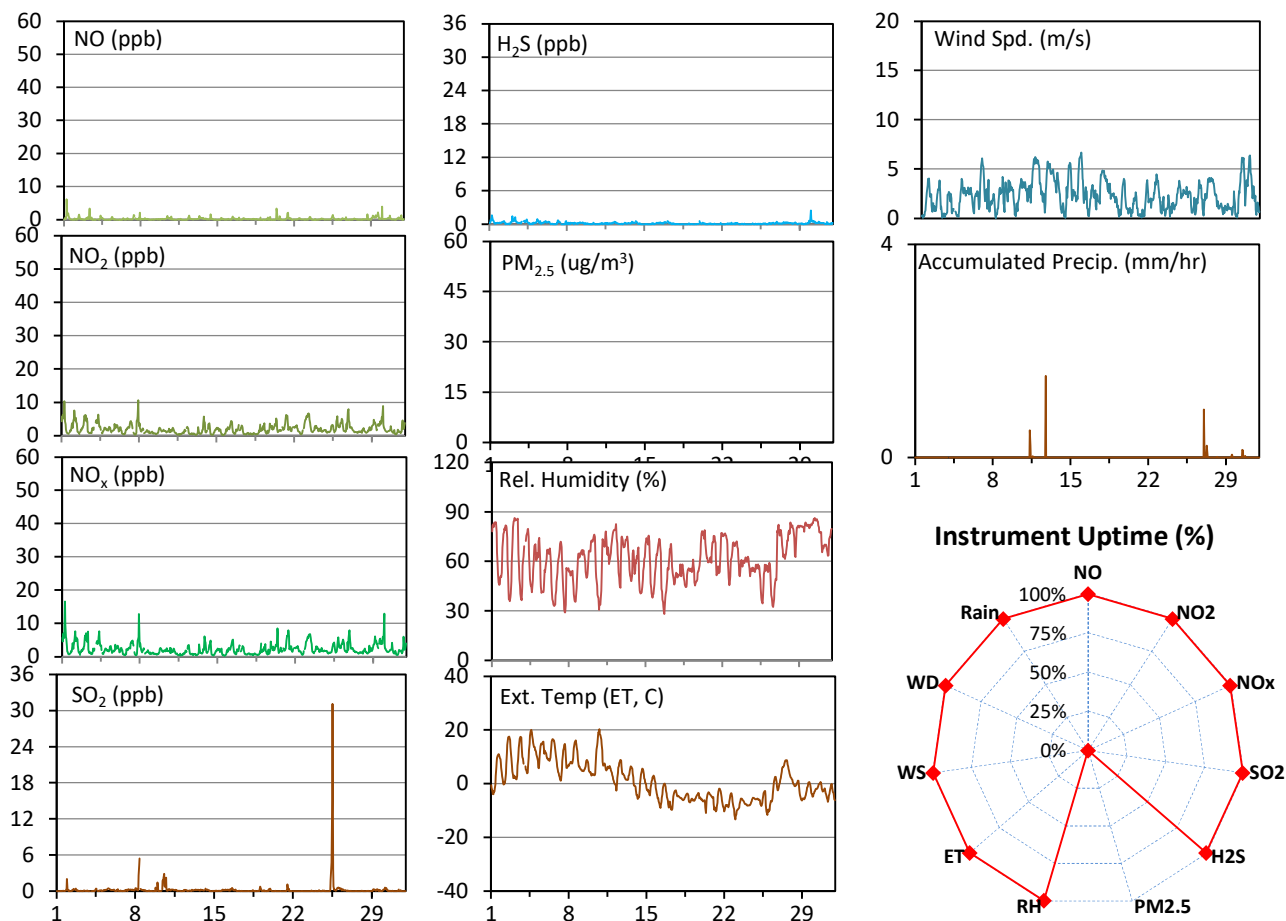
\*All compliance parameters were less than 90% operational.

\* The station is not operational.

## WYAMZ Maidstone Station - October 2020 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		
NO	ppb	0.2	99.6%	0.7	Oct-29	-	-	6.2	Oct-01 06:00	-	-
NO <sub>2</sub>	ppb	2.0	99.6%	3.7	Oct-23	106	0	10.7	Oct-07 22:00	159	0
NO <sub>x</sub>	ppb	2.3	99.6%	4.4	Oct-29	-	-	16.6	Oct-01 06:00	-	-
SO <sub>2</sub>	ppb	0.2	99.6%	0.7	Oct-8	48	0	31.1	Oct-25 12:00	172	0
H <sub>2</sub> S	ppb	0.2	99.6%	0.5	Oct-3	3.6	0	2.5	Oct-30 00:00	11	0
PM <sub>2.5</sub>	ug/m3	-	0.0%	-	-	28	-	-	-	-	-

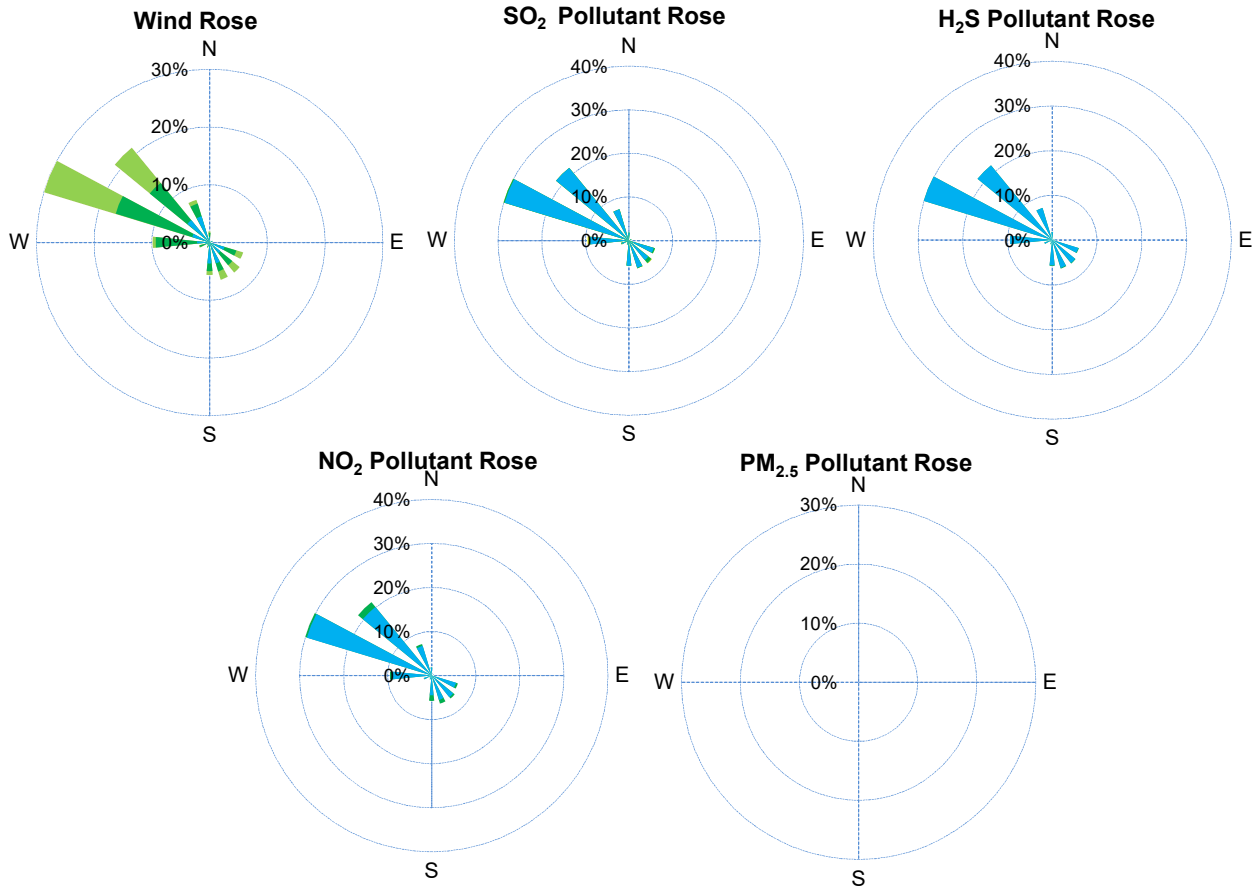
SAAQS: Saskatchewan Ambient Air Quality Standards



### 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 greater than 90% operational with the exception of PM<sub>2.5</sub>. PM<sub>2.5</sub> is not operational.
- \* 3 hours of data was flagged as "analyzer failure" for all parameters due to instrumentation issues.

# WYAMZ Maidstone Station - October 2020 Summary Report



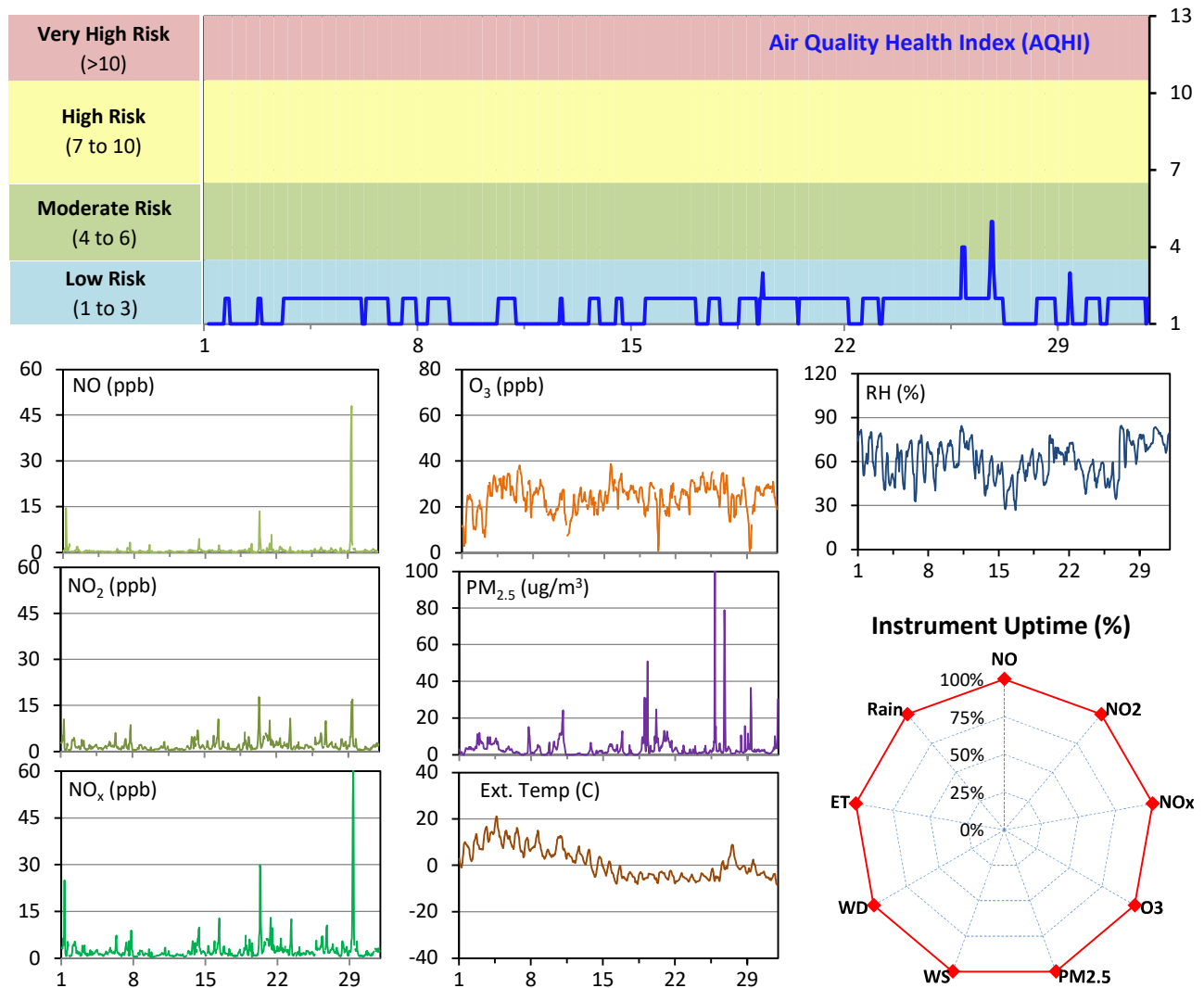
Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class						
Wind Speed	m/s	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$	
SO <sub>2</sub>	ppb	$0 \leq C < 1$	$1 \leq C < 5$	$5 \leq C < 10$	$10 \leq C < 57$	$57 \leq C < 172$	$C \geq 172$	
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	$0 \leq C < 1$	$1 \leq C < 3.6$	$3.6 \leq C < 5$	$5 \leq C < 8$	$8 \leq C < 10.8$	$C \geq 10.8$	



## WYAMZ Meadow Lake City Station - October 2020 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		
NO	ppb	0.7	100.0%	6.3	Oct-29	-	-	48.0	Oct-29 09:00	-	-
NO <sub>2</sub>	ppb	1.9	100.0%	4.6	Oct-20	106	0	17.7	Oct-20 07:00	159	0
NO <sub>x</sub>	ppb	2.6	100.0%	10.6	Oct-29	-	-	65.0	Oct-29 09:00	-	-
O <sub>3</sub>	ppb	24	100.0%	30	Oct-5	-	-	39	Oct-15 15:00	82	0
PM <sub>2.5</sub>	ug/m3	3	100.0%	9	Oct-26	28	0	104	Oct-25 20:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



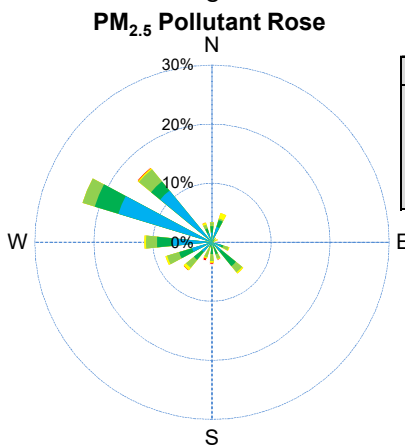
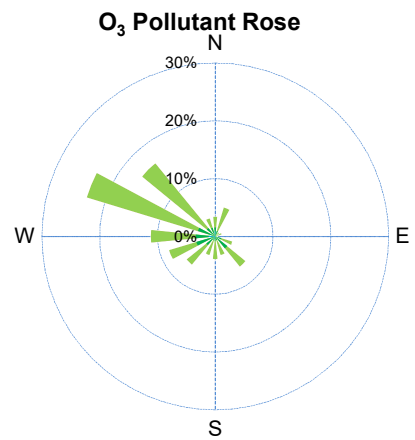
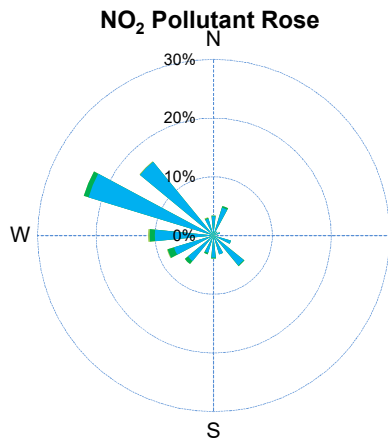
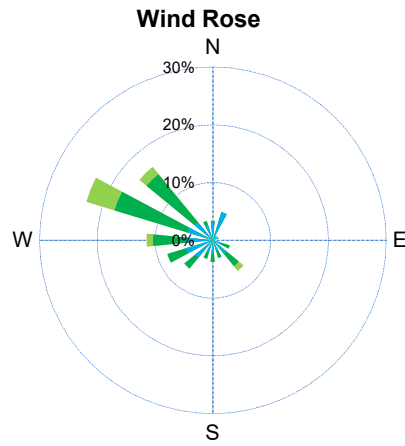
### Monthly Update

\*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 greater than 90% operational.

# WYAMZ Meadow Lake City Station - October 2020 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	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C < 212$	$C \geq 212$
O <sub>3</sub>	ppb	$0 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 40$	$40 \leq C < 60$	$60 \leq C < 82$	$C \geq 82$
PM <sub>2.5</sub>	ug/m <sup>3</sup>	$0 \leq C < 2$	$2 \leq C < 4$	$4 \leq C < 10$	$10 \leq C < 20$	$20 \leq C < 30$	$C \geq 30$