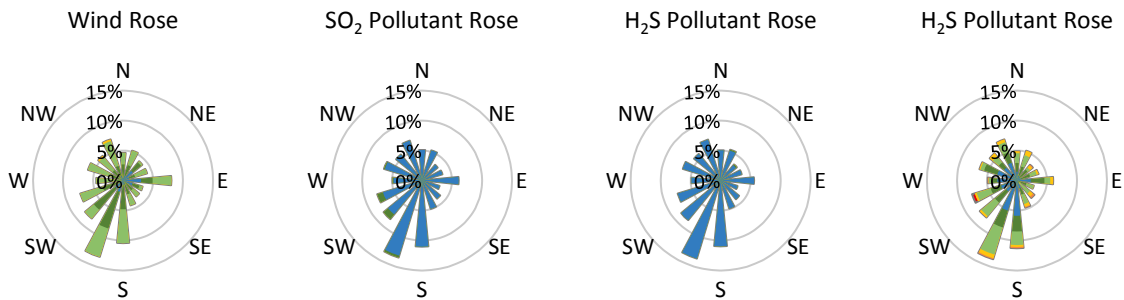
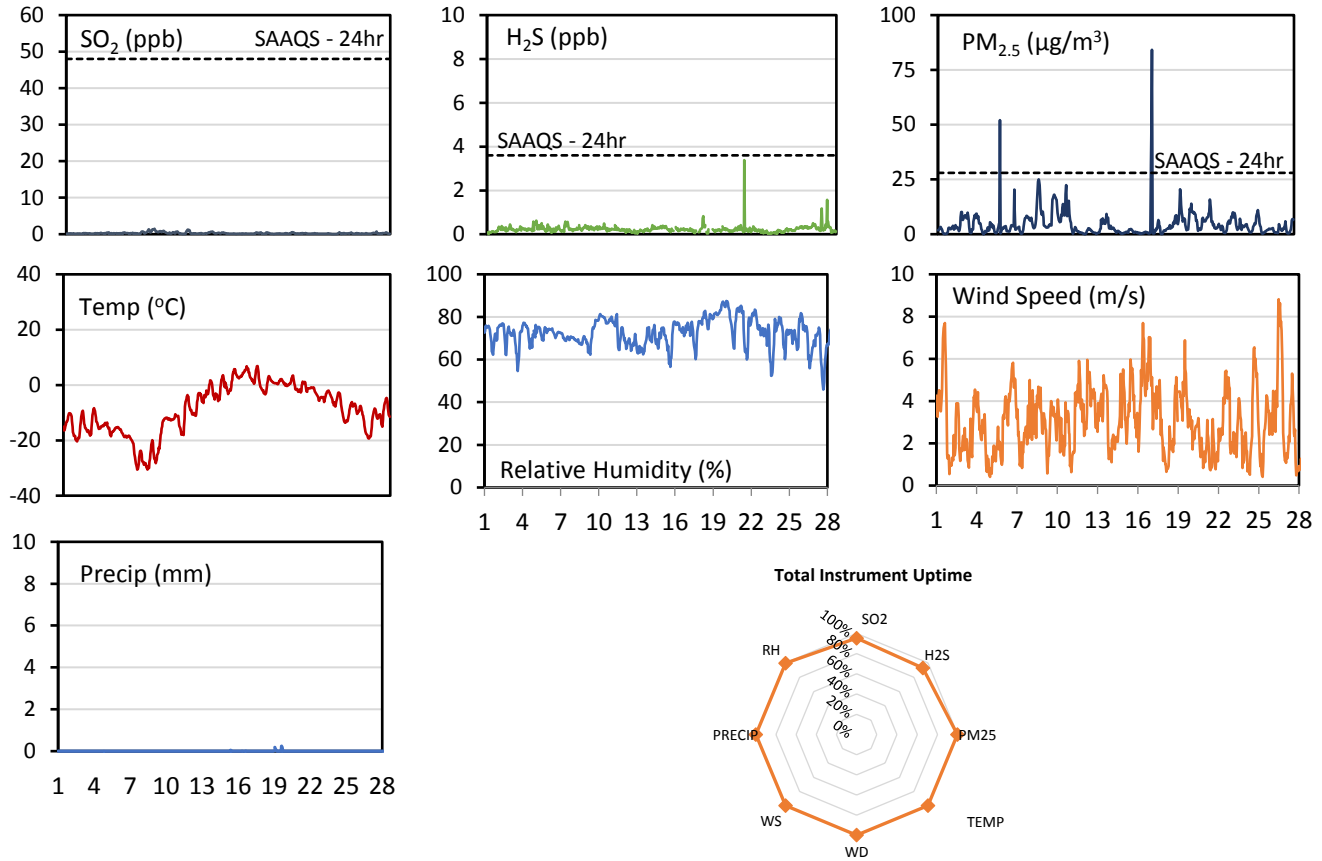


WYAMZ Kindersley Station - February 2017 Summary Report

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	0.3	95%	0.9	Feb-08	48	0	1.5	Feb-08 15:00	172	0
H ₂ S	ppb	0.2	93%	0.4	Feb-27	3.6	0	3.4	Feb-21 15:00	11	0
PM _{2.5}	µg/m ³	4.5	100%	11.8	Feb-10	28	0	84.2	Feb-17 20:00	-	-

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

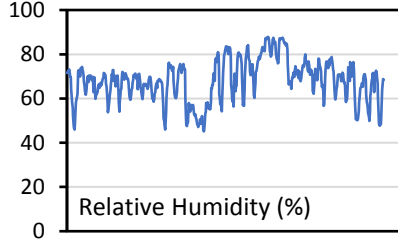
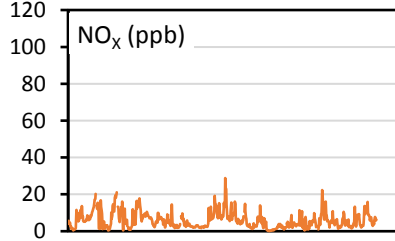
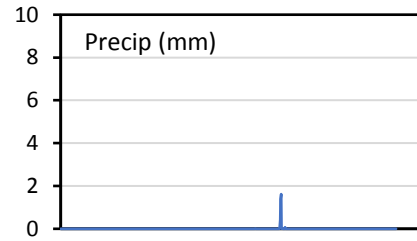
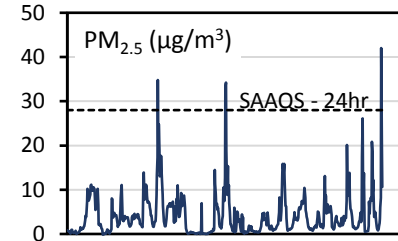
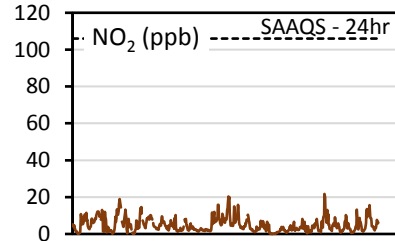
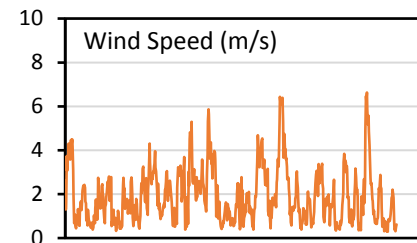
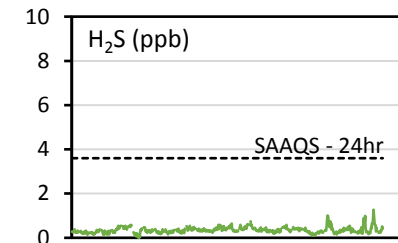
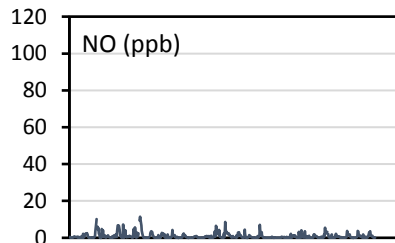
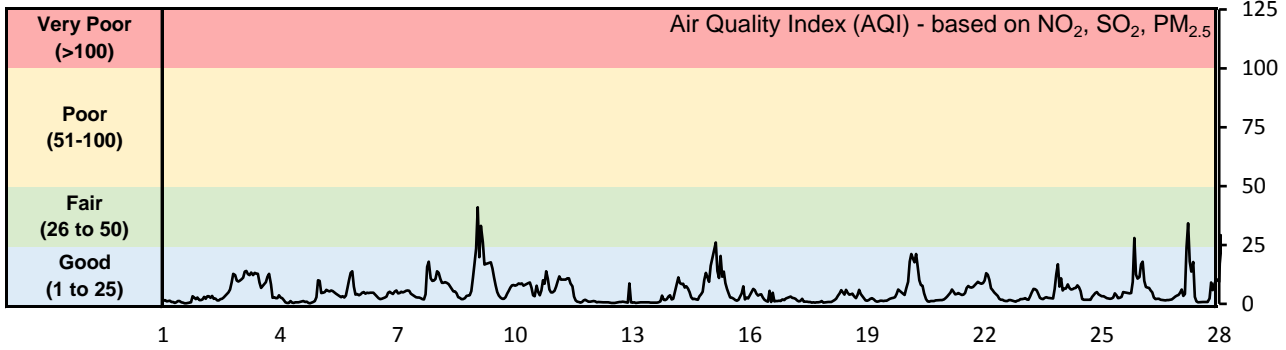
Monthly Update

- Achieved >99% of scheduled uptime for all parameters except H₂S (97.1%)
- Downtime of 4% results from routine daily Internal Zeroes and Spans

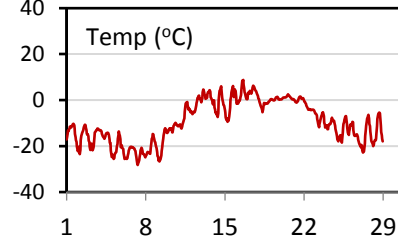
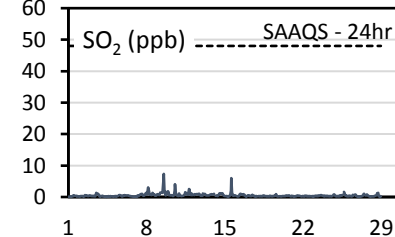
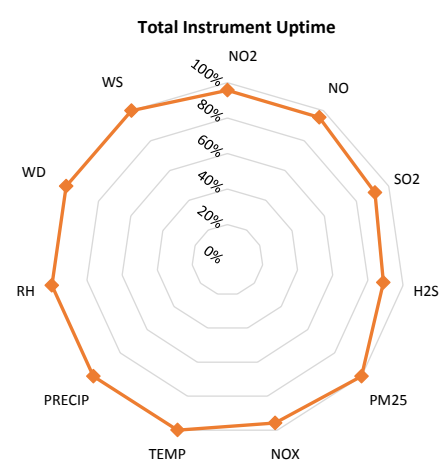
WYAMZ Maidstone Station - February 2017 Summary Report

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	1.0	96%	3.2	Feb-07	-	-	11.5	Feb-07 11:00	-	-
NO ₂	ppb	5.0	96%	10.4	Feb-05	106	0	21.7	Feb-24 01:00	159	0
NO _x	ppb	5.9	96%	12.5	Feb-05	-	-	28.8	Feb-15 06:00	-	-
SO ₂	ppb	0.5	91%	1.7	Feb-09	48	0	7.3	Feb-09 13:00	172	0
H ₂ S	ppb	0.3	89%	0.5	Feb-28	3.6	0	1.3	Feb-28 03:00	11	0
PM _{2.5}	µg/m ³	4.1	100%	10.6	Mar-01	28	0	42.0	Feb-28 21:00	-	-

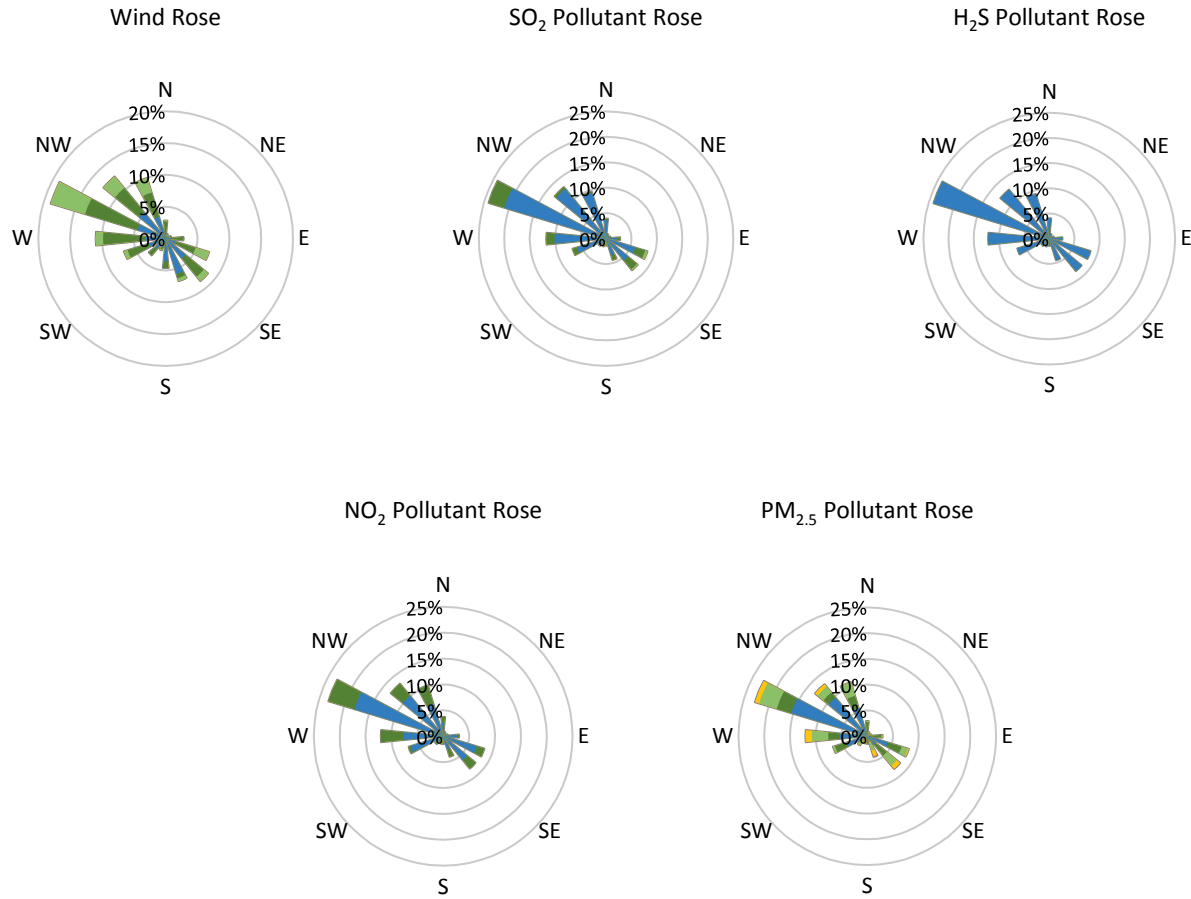
SAAQS: Saskatchewan Ambient Air Quality Standards



Total Instrument Uptime



WYAMZ Maidstone Station - February 2017 Summary Report



Parameters	Unit	Color Code for Wind Speed and Pollution Concentration 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
Wind Speed	m/s	0 ≤ C < 1	1 ≤ C < 5	5 ≤ C < 10	10 ≤ C < 57	57 ≤ C < 172	C ≥ 172
SO ₂	ppb	0 ≤ C < 5	5 ≤ C < 15	15 ≤ C < 30	30 ≤ C < 100	100 ≤ C < 212	C ≥ 212
NO ₂	ppb	0 ≤ C < 1	1 ≤ C < 3.6	3.6 ≤ C < 5	5 ≤ C < 8	8 ≤ C < 10.8	C ≥ 10.8
H ₂ S	ppb	0 ≤ C < 2	2 ≤ C < 4	4 ≤ C < 10	10 ≤ C < 20	20 ≤ C < 30	C ≥ 30
PM _{2.5}	µg/m ³						

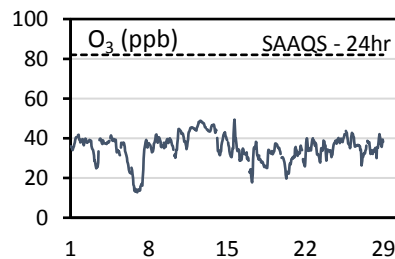
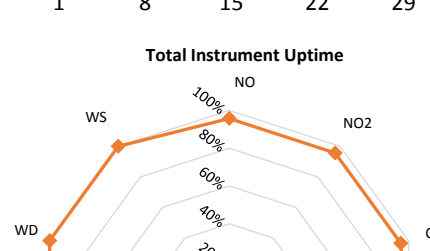
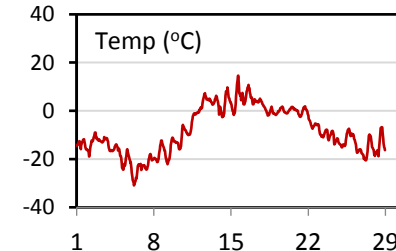
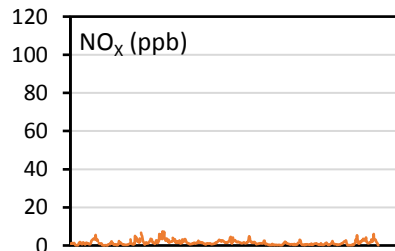
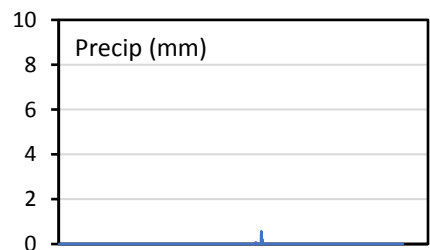
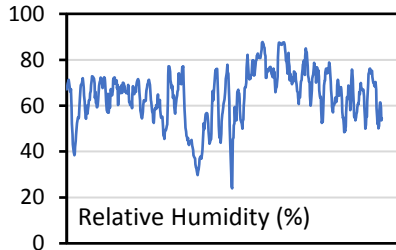
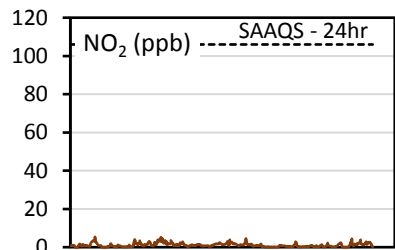
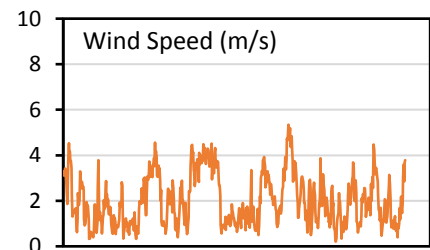
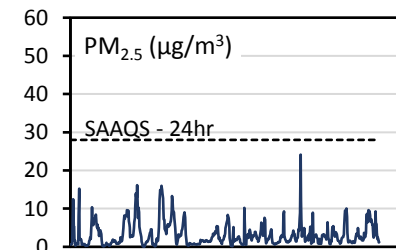
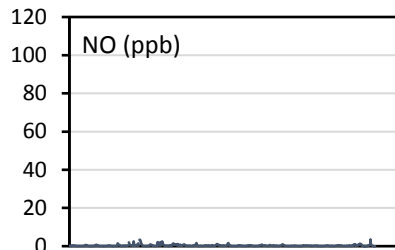
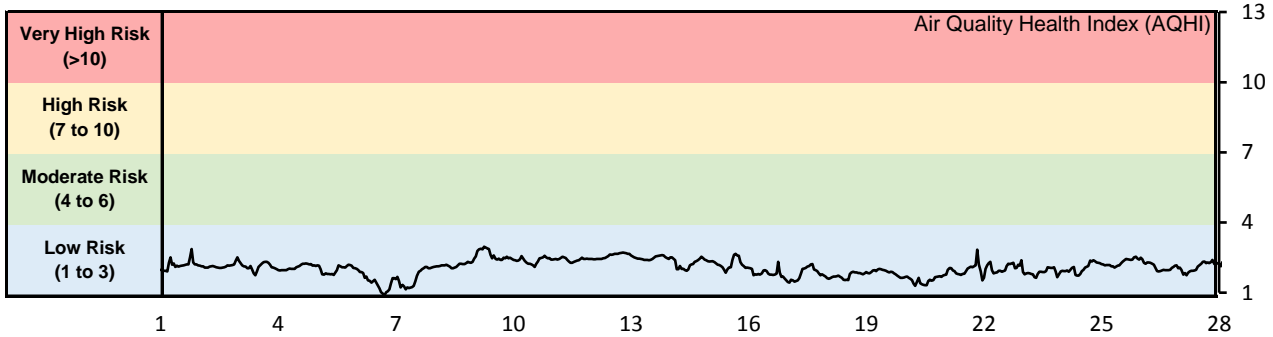
Monthly Update

- Achieved 100% of scheduled uptime for all parameters except H₂S (97%)
- NO/NO₂/NO_x downtime of 4% results from routine daily Internal Zeroes and Spans
- SO₂/H₂S downtime of 8% results from routine daily Internal Zeroes and Spans

WYAMZ Meadow Lake Station - February 2017 Summary Report

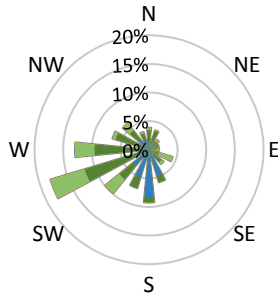
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc. Unit	Avg. Conc.	Total Uptime	Maximum		SAAQS Standard	Exceed Days	Maximum		SAAQS Standard	Exceed Hours
				Conc.	Time			Conc.	Time		
NO	ppb	0.3	96%	0.9	Feb-07	-	-	3.5	Feb-28 13:00	-	-
NO ₂	ppb	1.1	96%	3.0	Feb-09	106	0	5.4	Feb-03 07:00	159	0
NO _x	ppb	1.5	96%	3.7	Feb-09	-	-	7.4	Feb-09 09:00	-	-
O ₃	ppb	35.1	96%	46.8	Feb-12	-	-	49.4	Feb-15 16:00	82	0
PM _{2.5}	µg/m ³	3.3	100%	8.5	Feb-09	28	0	24.1	Feb-21 20:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

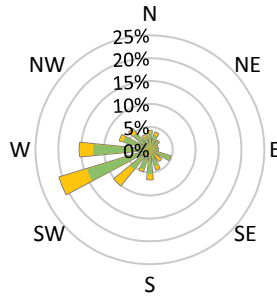


WYAMZ Meadow Lake Station - February 2017 Summary Report

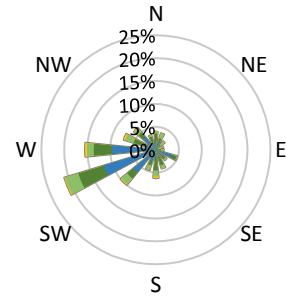
Wind Rose



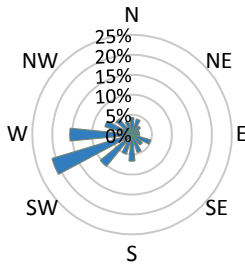
O₃ Pollutant Rose



PM_{2.5} Pollutant Rose



NO₂ Pollutant Rose



Parameters	Unit	Color Code for Wind Speed and Pollution Concentration 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	
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	

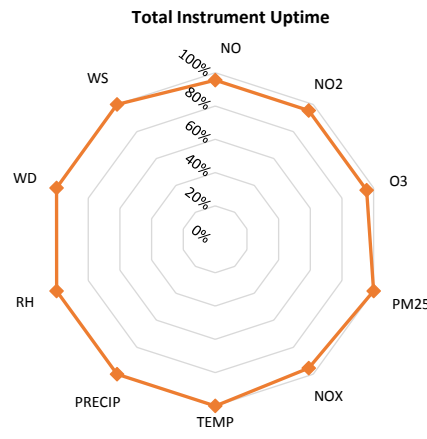
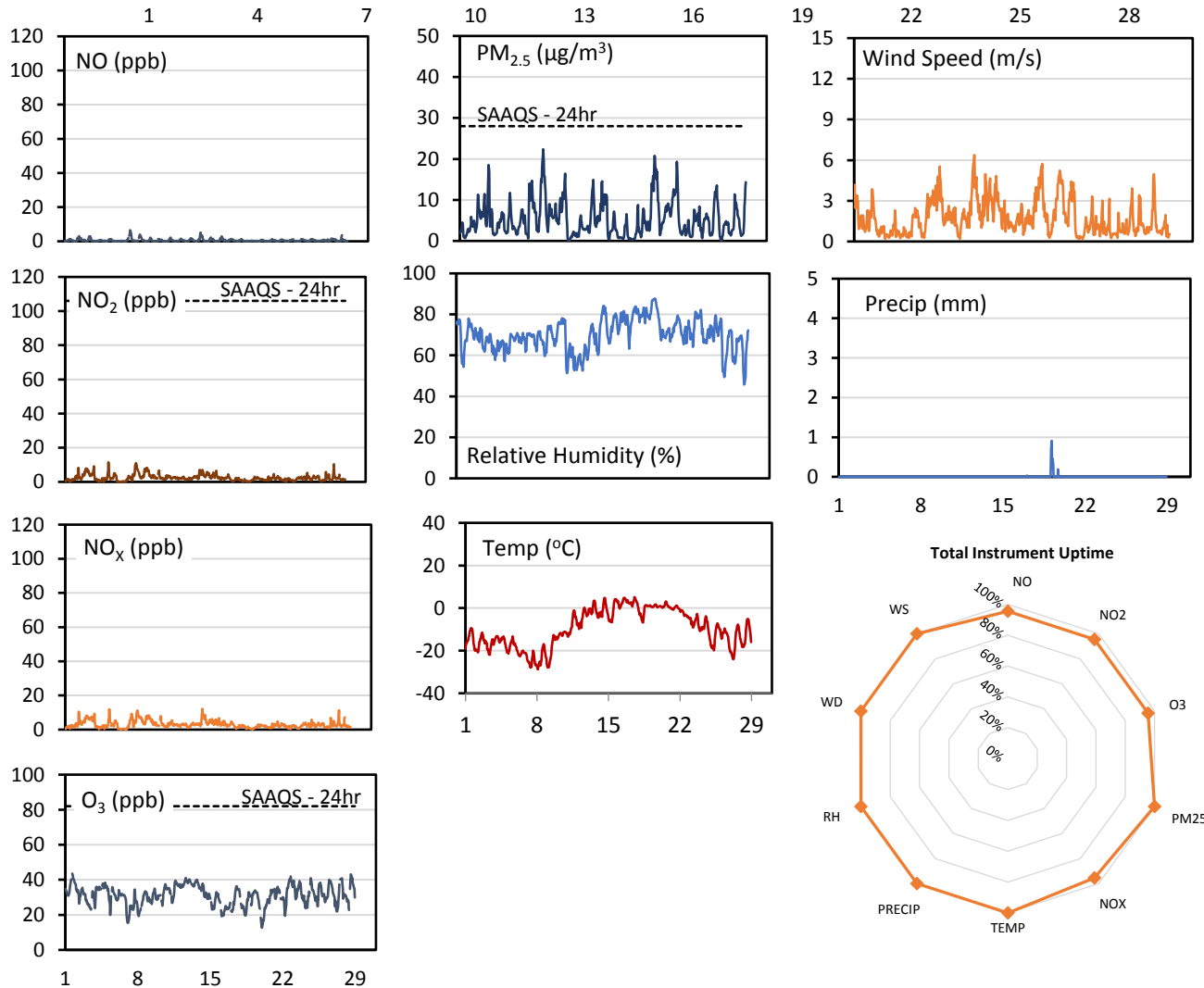
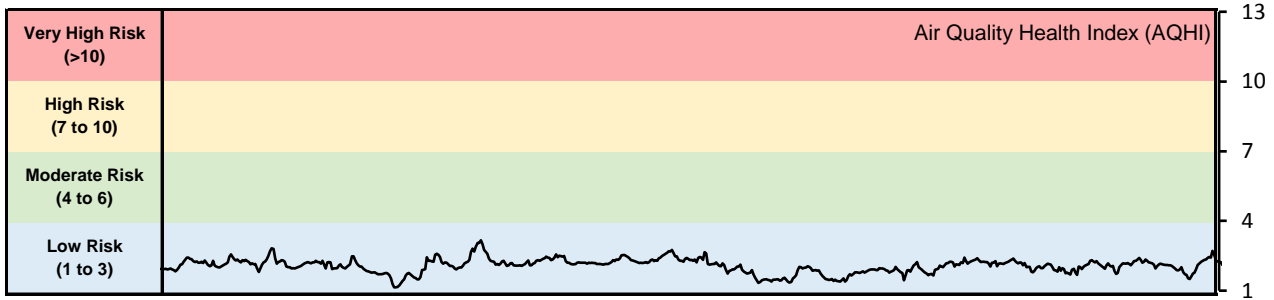
Monthly Update

- Achieved 100% of scheduled uptime for all parameters
- Downtime of 4% results from routine daily Internal Zeroes and Spans

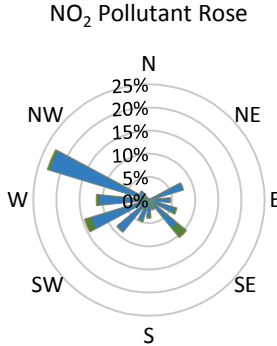
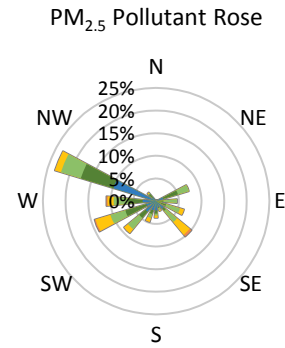
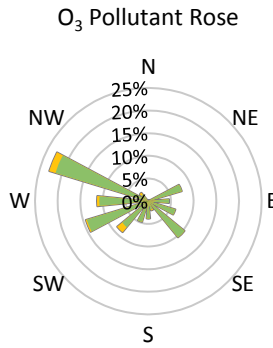
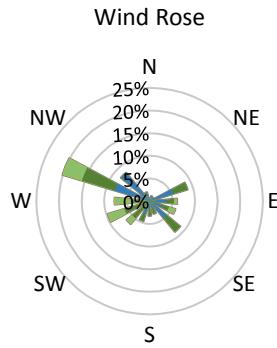
WYAMZ Unity Station - February 2017 Summary Report

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.	Total Uptime	Conc.	Time	SAAQS Standard	Exceed Days	Conc.	Time	SAAQS Standard	Exceed Hours
NO	ppb	0.6	96%	1.6	Feb-07	-	-	6.5	Feb-07 12:00	-	-
NO ₂	ppb	2.4	96%	5.5	Feb-03	106	0	11.5	Feb-05 08:00	159	0
NO _x	ppb	3.0	96%	6.6	Feb-08	-	-	12.1	Feb-14 11:00	-	-
O ₃	ppb	31.1	96%	38.0	Feb-12	-	-	43.6	Feb-01 16:00	82	0
PM _{2.5}	µg/m ³	5.3	100%	14.3	Mar-01	28	0	22.4	Feb-09 04:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



WYAMZ Unity Station - February 2017 Summary Report



Parameters	Unit	Color Code for Wind Speed and Pollution Concentration 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	
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	

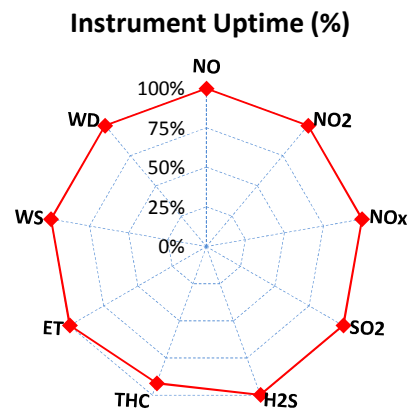
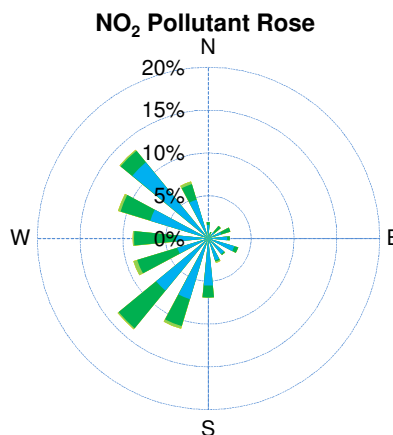
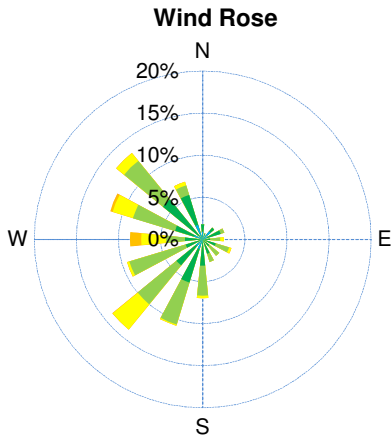
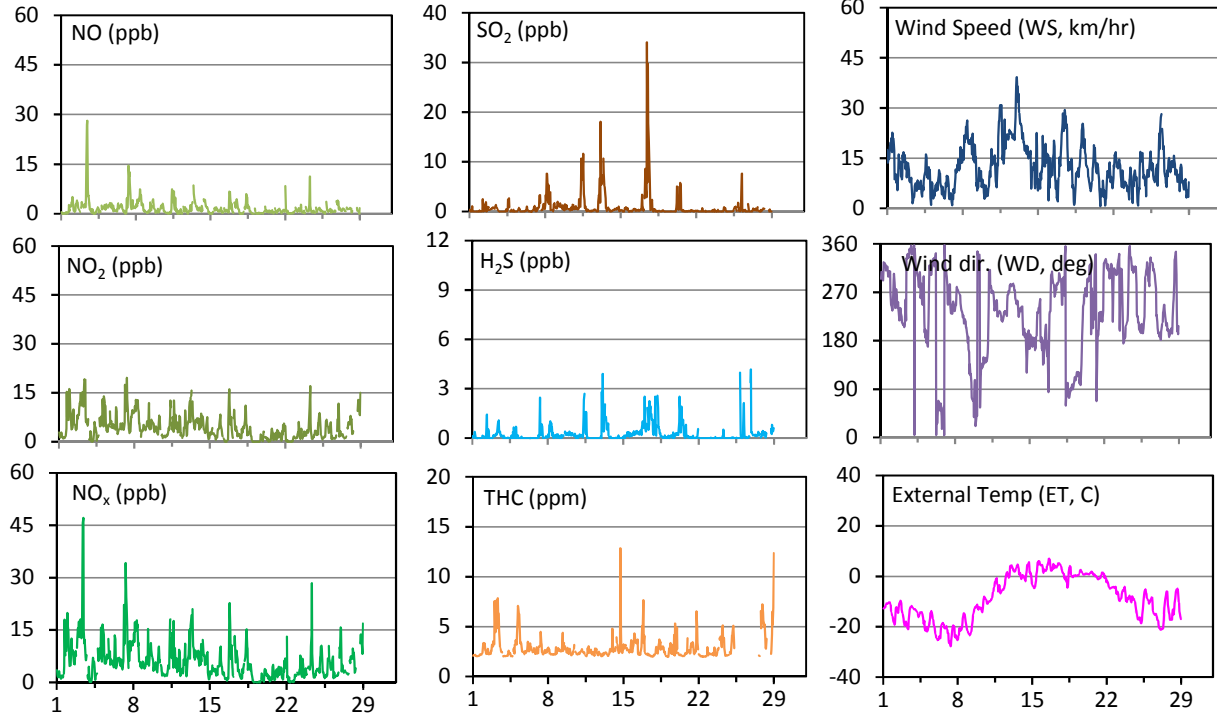
Monthly Update

- Achieved >99% of scheduled uptime for all parameters
- Downtime of 4% results from routine daily Internal Zeroes and Spans

Husky Energy East Station - February 2017 Summary Report

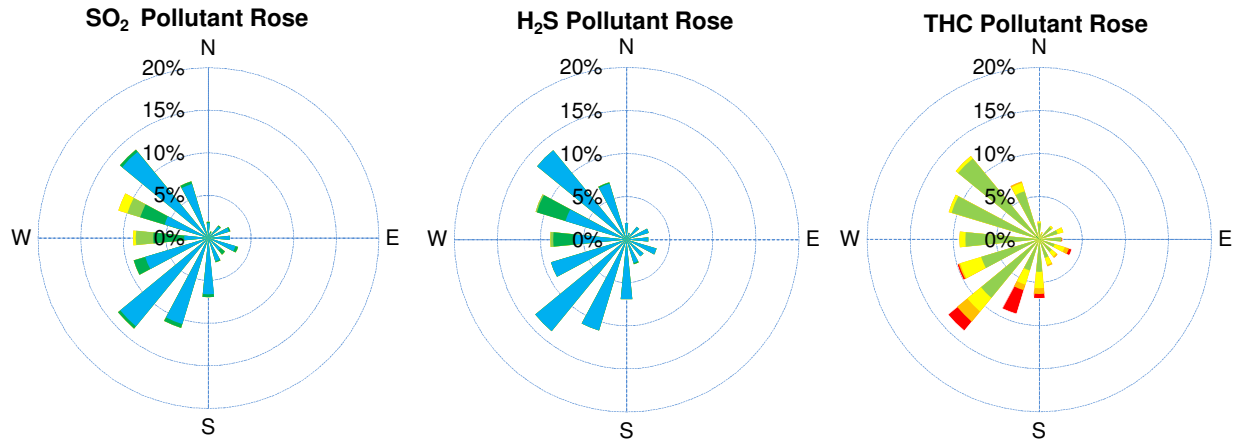
Pollutants		Month Records		24-Hour Records				1-Hour Records			
				Maximum		SAAQS Standards	Exceed Days	Maximum		SAAQS Standards	Exceed Hours
				Conc.	Time			Conc.	Time		
Name	Conc. Unit	Avg. Conc.	Uptime								
NO	ppb	1.6	99.8%	5.2	Feb-3	-	-	28.2	Feb-03 11:00	-	-
NO ₂	ppb	4.4	99.8%	9.0	Feb-3	106	0	19.6	Feb-07 08:00	159	0
NO _x	ppb	6.0	99.8%	14.1	Feb-3	-	-	47.1	Feb-03 11:00	-	-
SO ₂	ppb	0.9	99.8%	6.8	Feb-17	48	0	34.1	Feb-17 11:00	172	0
H ₂ S	ppb	0.3	99.8%	1.2	Feb-17	3.6	0	4.2	Feb-26 21:00	11.0	0
THC	ppm	2.8	92.0%	4.2	Feb-3	-	-	12.9	Feb-14 18:00	-	-

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 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 < 11	C ≥ 11
THC	ppm	0 ≤ C < 1	1 ≤ C < 2	2 ≤ C < 3	3 ≤ C < 4	4 ≤ C < 5	C ≥ 5

Husky Energy East Station - February 2017 Summary Report



Monthly Update

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

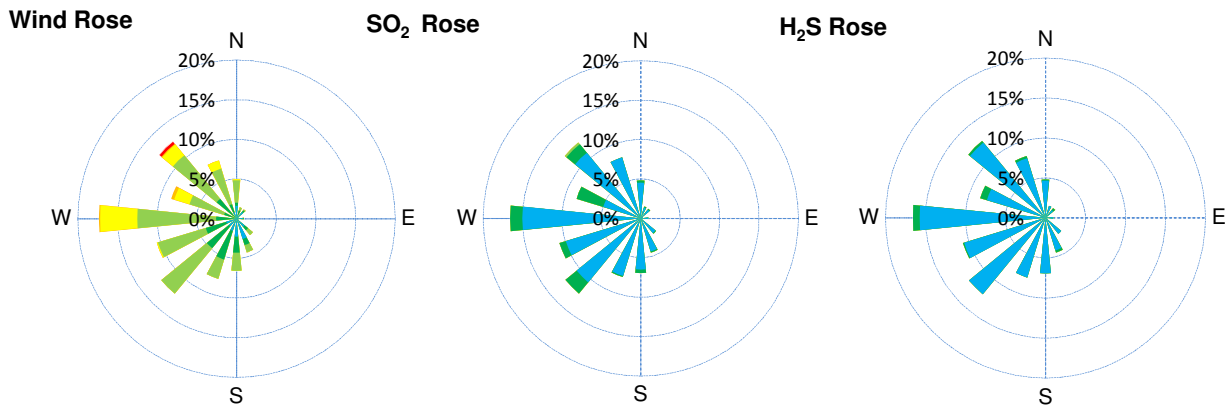
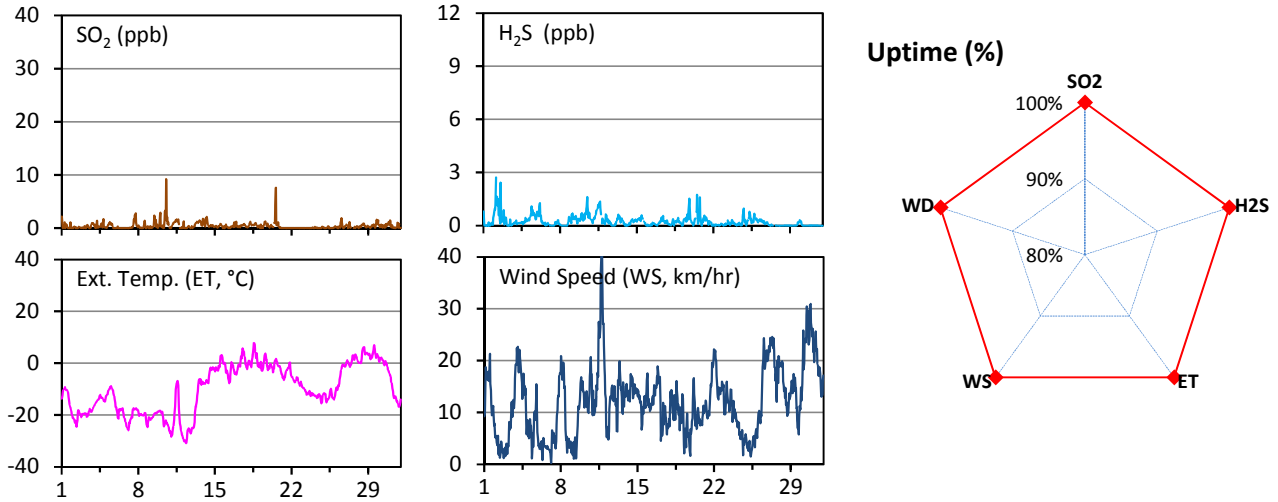
*All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.

*All compliance parameters are above 90% operational. Operational issues include 53 hours of THC data flagged as "analyzer failure". The analyzer was malfunctioning following a break-in at the station; no operational issues could be detected. One hour of data for all parameters is flagged as maintenance while the data logger and modem was reset to restore communication following the break-in.

Husky Energy West Station - February 2017 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 ₂	ppb	0.5	100.0%	1.3	Feb-19	48 / 48	0 / 0	16.1	Feb-09 21:00	172 / 172	0 / 0
H ₂ S	ppb	0.2	100.0%	1.0	Feb-16	3 / 3.6	0 / 0	3.0	Feb-19 04:00	10 / 11.0	0 / 0

AAAQO: Alberta Ambient Air Quality Objectives; 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 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 < 11	C ≥ 11

Monthly Update

*Air monitoring data has been slope, intercept, and baseline corrected. 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 are above 90% operational. There are no operational issues to report.