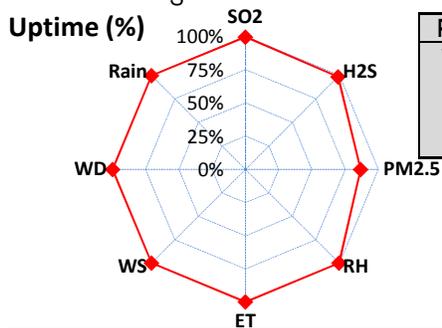
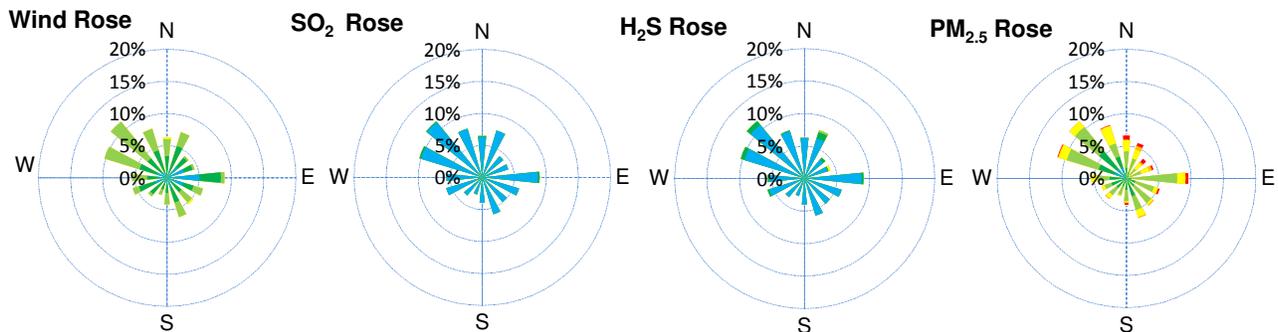
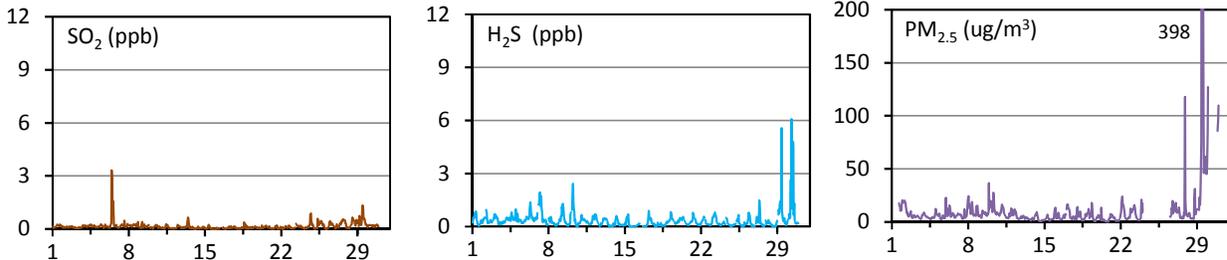


# WYAMZ Kindersley Station - June 2015 Summary Report

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	0.2	99.6%	0.5	Jun-6	48	0	3.3	Jun-06 10:00	172	0
H <sub>2</sub> S	ppb	0.4	98.5%	1.3	Jun-30	3.6	0	6.1	Jun-30 07:00	11	0
PM <sub>2.5</sub>	ug/m3	10	86.6%	81	Jun-29	28	1	398	Jun-29 10:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



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, with the exception of 1 24-hour PM<sub>2.5</sub> exceedance event, attributed to wildfire smoke in the region. Please refer to the exceedance summary table for details.
- \*All compliance parameters are above 90% operational, with the exception of the PM<sub>2.5</sub> analyzer. It was not operational June 1 and 24-26 due to an operational error following power failures. The analyzer was also not operational on June 30, as high concentrations of PM<sub>2.5</sub> associated with wildfire smoke caused the analyzer to malfunction.
- \*There are 10 hours of H<sub>2</sub>S data, and 2-3 hours for all other parameters flagged as "power failure" intermittently throughout the month due to power disruptions. The H<sub>2</sub>S analyzer is slower to recover following power issues.
- \*Routine quarterly calibrations were completed on June 16.

## Exceedance Summary (24-Hour Average)

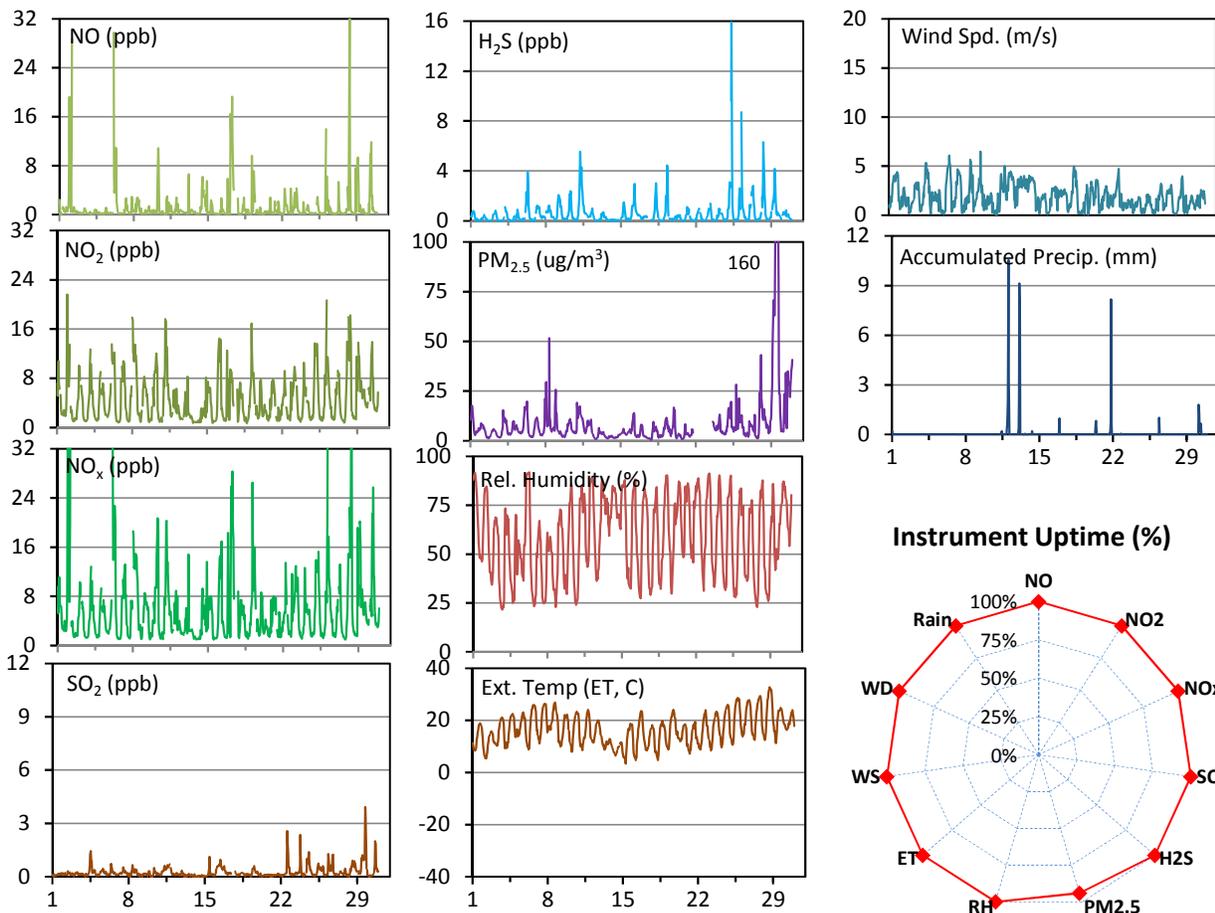
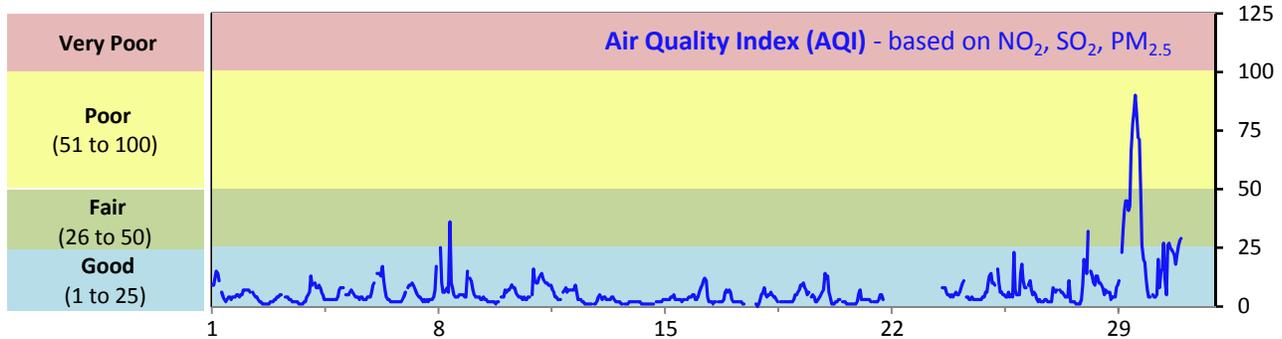
Pollutant	Conc. ppb	Exceedance Date mmm-dd	WS m/s	WD deg	Rain mm	ET C	SO <sub>2</sub> ppb	H <sub>2</sub> S ppb	PM <sub>2.5</sub> ug/m3
PM <sub>2.5</sub>	81	Jun-29	1.9	144	0.1	19.5	0.5	0.8	81



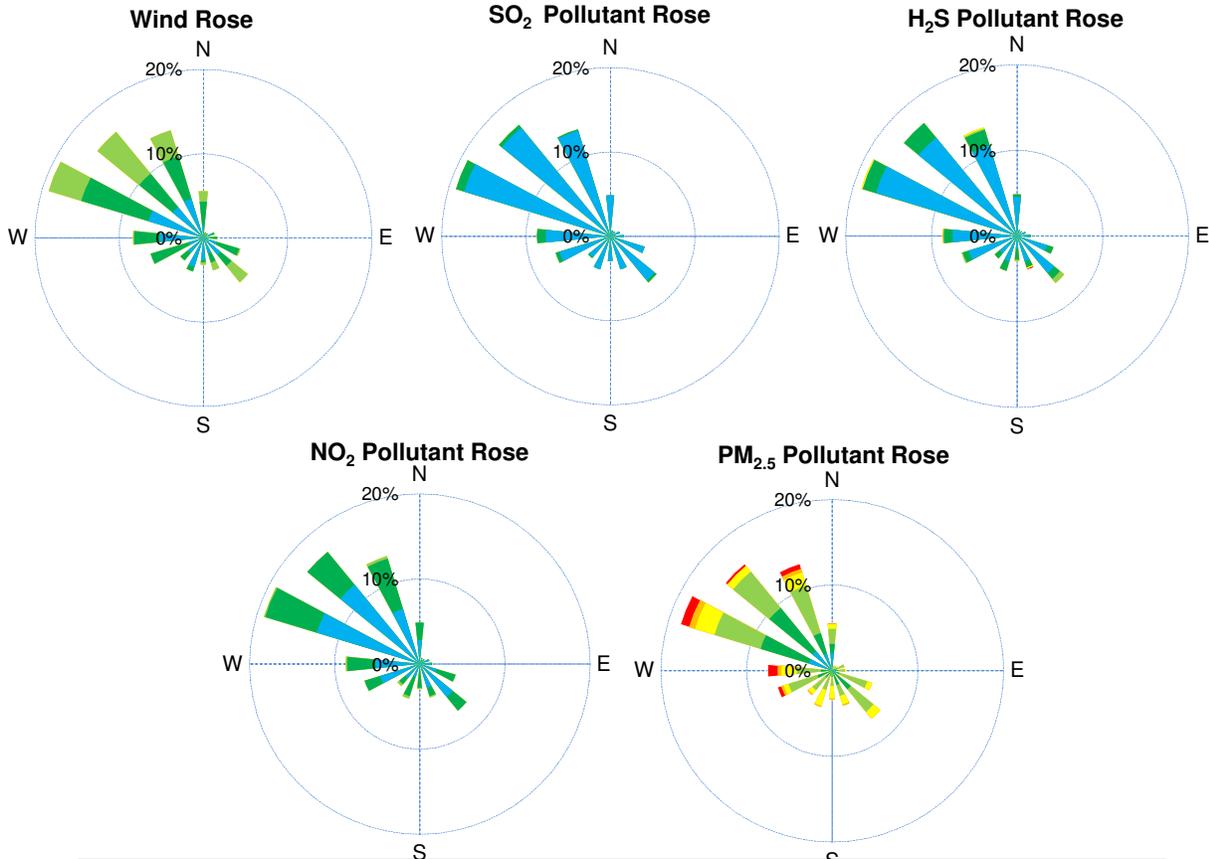
# WYAMZ Maidstone Station - June 2015 Summary Report

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	
NO	ppb	1.3	99.9%	3.5	Jun-28	-	-	32.0	Jun-28 08:00	-	-
NO <sub>2</sub>	ppb	4.6	99.9%	7.4	Jun-28	106	0	21.6	Jun-01 22:00	159	0
NO <sub>x</sub>	ppb	5.9	99.9%	10.9	Jun-28	-	-	50.2	Jun-28 08:00	-	-
SO <sub>2</sub>	ppb	0.3	100.0%	0.9	Jun-29	48	0	3.9	Jun-29 17:00	172	0
H <sub>2</sub> S	ppb	0.6	100.0%	1.9	Jun-25	3.6	0	15.9	Jun-25 07:00	11	1
PM <sub>2.5</sub>	ug/m3	9	93.9%	66	Jun-29	28	1	160	Jun-29 12:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



# WYAMZ Maidstone Station - June 2015 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, with the exception of one 1-hour H<sub>2</sub>S and one 24-hour PM<sub>2.5</sub> exceedance event (attributed to wildfire smoke in the region). Please refer to the exceedance summary table for details.
- \*All compliance parameters were greater than 90% operational this month.
- \*1 hour of NO/NO<sub>2</sub>/NO<sub>x</sub> and PM<sub>2.5</sub> data is flagged as "power failure" on June 21 due to a power disruption. All analyzers were affected; NO/NO<sub>2</sub>/NO<sub>x</sub> was slower to recover. The PM<sub>2.5</sub> analyzer malfunctioned following this disruption, 42 hours are flagged as "analyzer failure".
- \*Routine quarterly calibrations were completed on June 17.

## Exceedance Summary

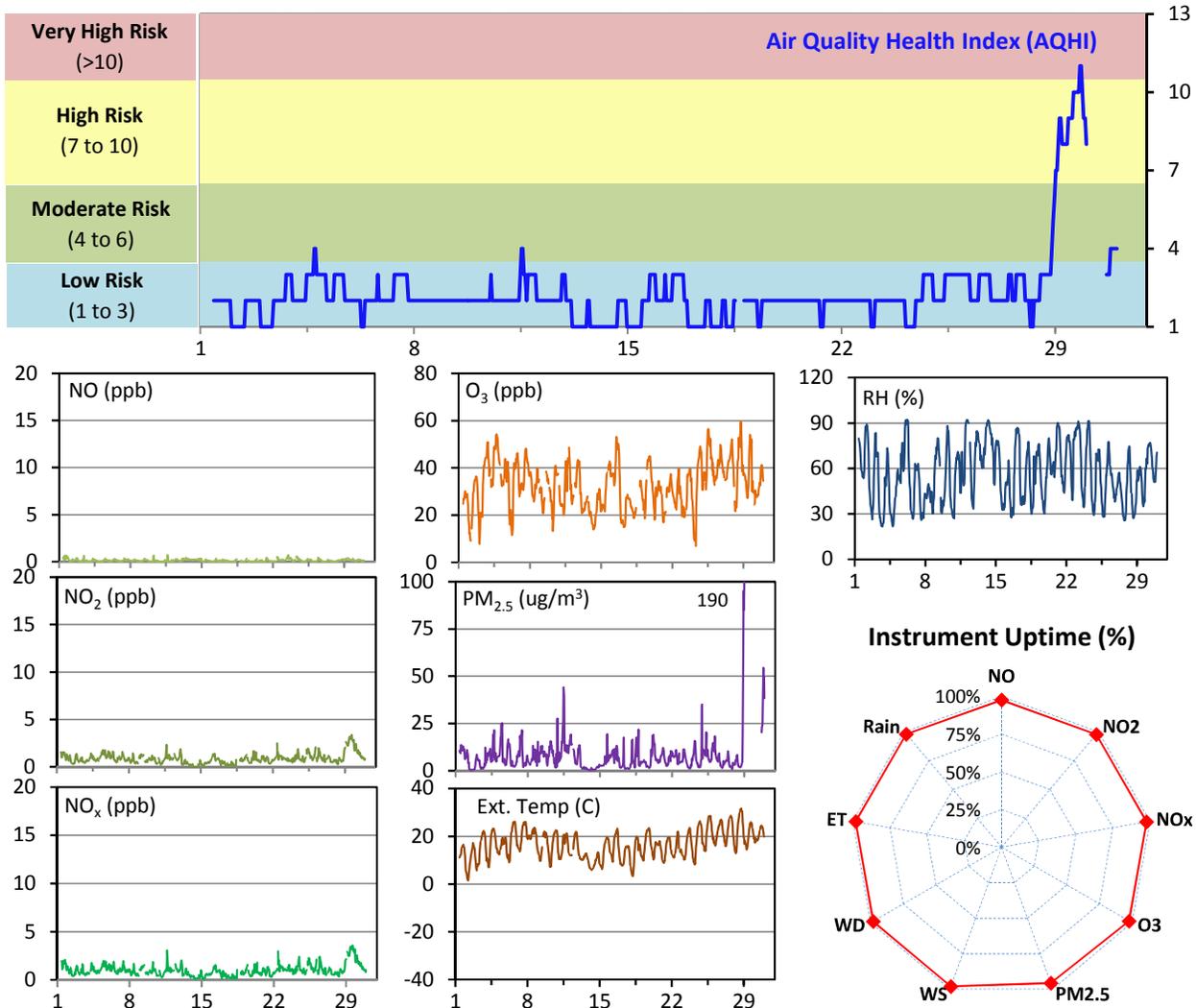
1-hour Exceedance Information			Summary of Other Parameters During Exceedance								
Pollutant	Conc. ppb	Exceedance Time mmm-dd hh:mm	WS m/s	WD deg	AQI -	Rain mm	ET C	SO <sub>2</sub> ppb	NO <sub>2</sub> ppb	H <sub>2</sub> S ppb	PM <sub>2.5</sub> ug/m <sup>3</sup>
H <sub>2</sub> S	15.9	Jun-25 07:00	0.7	153	10	0.0	13.5	0	8	15.9	12
24-hour Exceedance Information			WS	WD	AQI	Rain	ET	SO <sub>2</sub>	NO <sub>2</sub>	H <sub>2</sub> S	PM <sub>2.5</sub>
PM <sub>2.5</sub>	66	Jun-29	1.1	293	42	0.0	19.8	1	6	1.1	66



# WYAMZ Meadow Lake Station - June 2015 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	0.1	97.7%	0.3	Jun-23	-	-	0.7	Jun-11 15:00	-	-
NO <sub>2</sub>	ppb	0.9	97.7%	2.6	Jun-29	106	0	3.4	Jun-29 15:00	159	0
NO <sub>x</sub>	ppb	1.0	97.7%	2.9	Jun-29	-	-	3.6	Jun-29 15:00	-	-
O <sub>3</sub>	ppb	33	97.7%	44	Jun-25	-	-	59	Jun-28 17:00	82	0
PM <sub>2.5</sub>	ug/m3	12	95.7%	142	Jun-29	28	1	190	Jun-29 19:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

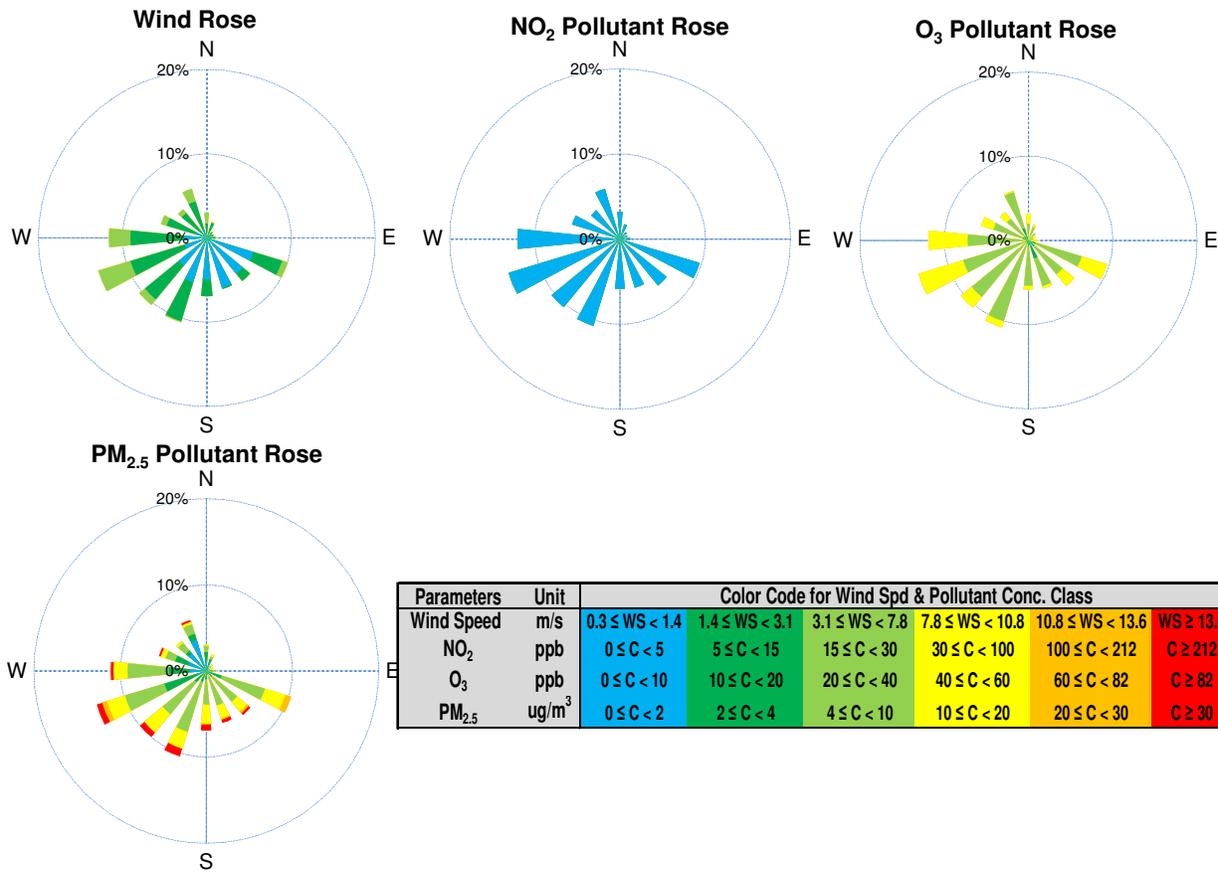


## Monthly Update

- \*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, with the exception of one 24-hour PM<sub>2.5</sub> exceedance event. Please refer to the exceedance summary table for details.
- \*All compliance parameters were greater than 90% operational.
- \*There are 9 hours of data for all parameters flagged as "power failure" on June 1, and an additional 5-7 hours flagged as "power failure" intermittently throughout the month due to power disruptions.
- \*There are 17 hours of PM<sub>2.5</sub> data on June 29-30 flagged as "analyzer failure". High PM<sub>2.5</sub> concentrations associated with wildfire smoke caused the analyzer to malfunction.
- \*Routine quarterly calibrations were completed on June 18.



# WYAMZ Meadow Lake Station - June 2015 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 <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
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

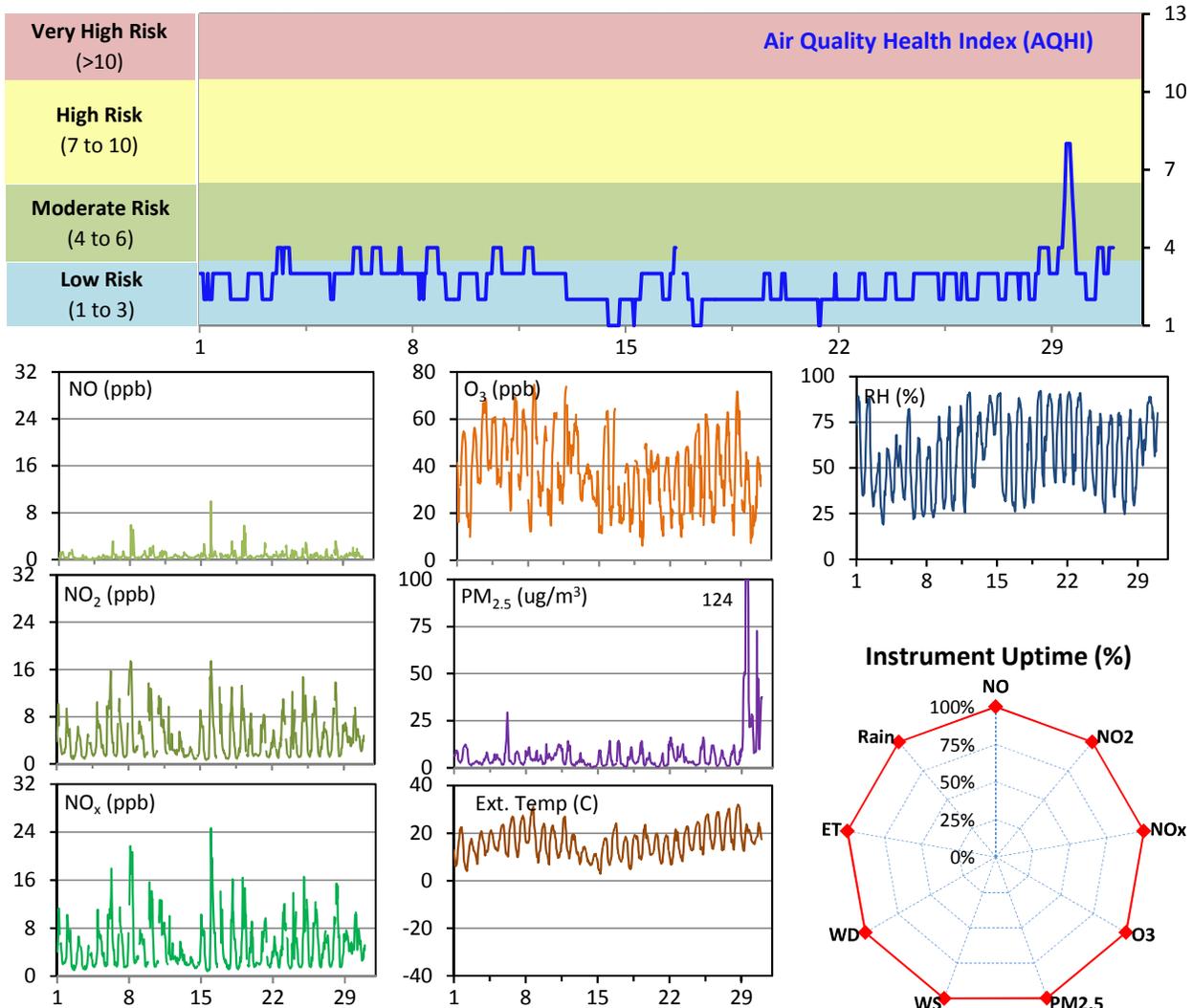
Exceedance Summary (24-Hour Average)											
Pollutant	Conc. ppb	Exceedance Date mmm-dd	WS m/s	WD deg	AQHI -	Rain mm	NO ppb	NO <sub>2</sub> ppb	NO <sub>x</sub> ppb	O <sub>3</sub> ppb	PM <sub>2.5</sub> ug/m <sup>3</sup>
PM <sub>2.5</sub>	142	Jun-29	0.9	223	9	0.0	0	3	3	38	142



# WYAMZ Unity Station - June 2015 Summary Report

Pollutants		Month Records		24-Hour Records				1-Hour Records			
				Maximum		SAAQS Objective	Exceed Days	Maximum		SAAQS Objective	Exceed Hours
				Conc.	Time			Conc.	Time		
Name	Conc. Unit	Avg. Conc.	Uptime	Conc.	Time	Objective	Days	Conc.	Time	Objective	Hours
NO	ppb	0.7	100.0%	1.4	Jun-19	-	-	10.0	Jun-15 23:00	-	-
NO <sub>2</sub>	ppb	4.3	100.0%	7.6	Jun-8	106	0	17.4	Jun-08 05:00	159	0
NO <sub>x</sub>	ppb	4.9	100.0%	9.0	Jun-8	-	-	24.7	Jun-15 23:00	-	-
O <sub>3</sub>	ppb	38	100.0%	52	Jun-3	-	-	75	Jun-08 14:00	82	0
PM <sub>2.5</sub>	ug/m3	7	99.9%	54	Jun-29	28	1	124	Jun-29 10:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards

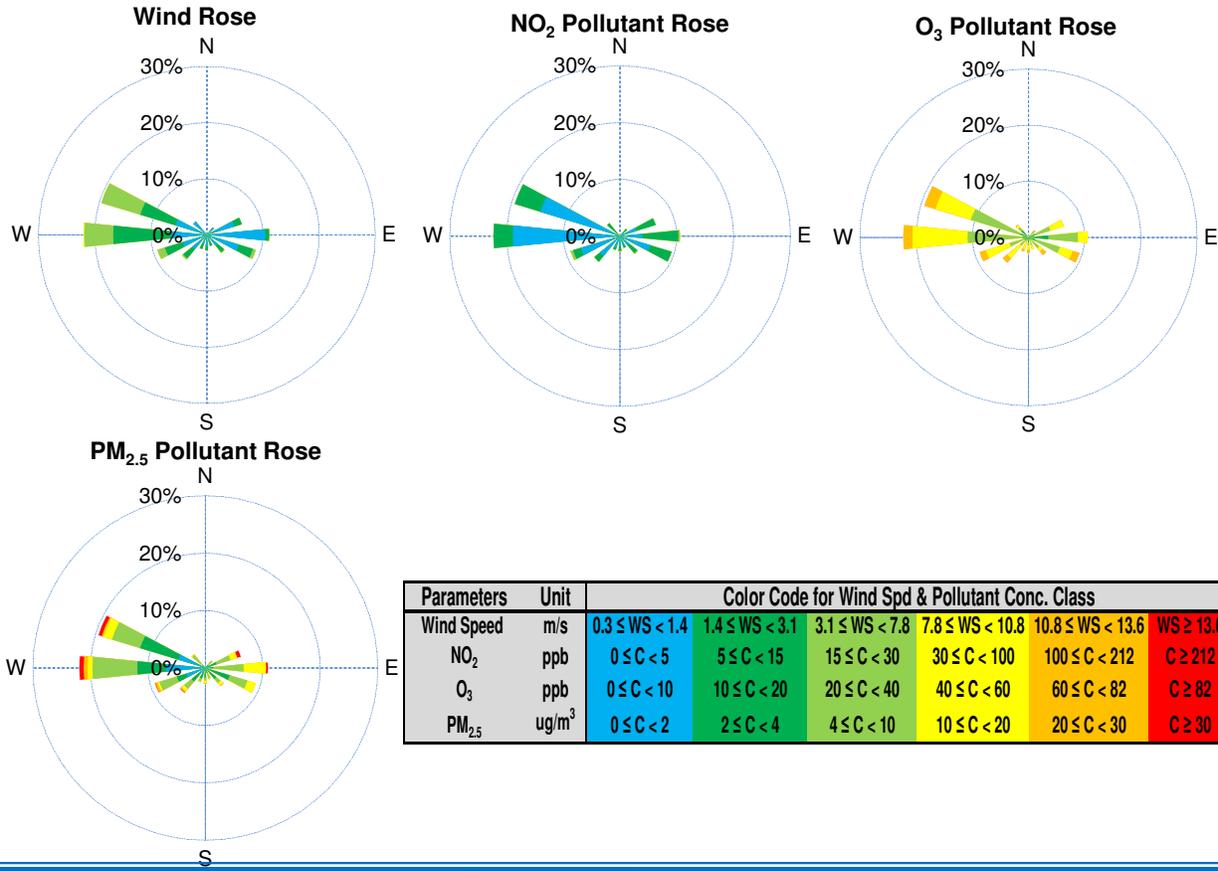


## Monthly Update

- \*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, with the exception of one 24-hour PM<sub>2.5</sub> exceedance event attributed to wildfire smoke in the region. Please refer to the exceedance summary table for details.
- \*All compliance parameters are greater than 90% operational.
- \*1 hour of PM<sub>2.5</sub> data is flagged as "analyzer failure" on June 17 due to abnormal data readings.
- \*Routine quarterly calibrations were completed on June 16.



# WYAMZ Unity Station - June 2015 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 <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
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

Exceedance Summary											
Pollutant	Conc.	Exceedance Date mmm-dd	WS m/s	WD deg	AQHI -	Rain mm	NO ppb	NO <sub>2</sub> ppb	NO <sub>x</sub> ppb	O <sub>3</sub> ppb	PM <sub>2.5</sub> ug/m <sup>3</sup>
PM <sub>2.5</sub>	54	Jun-29	0.9	181	5	0.0	1	5	6	29	54

