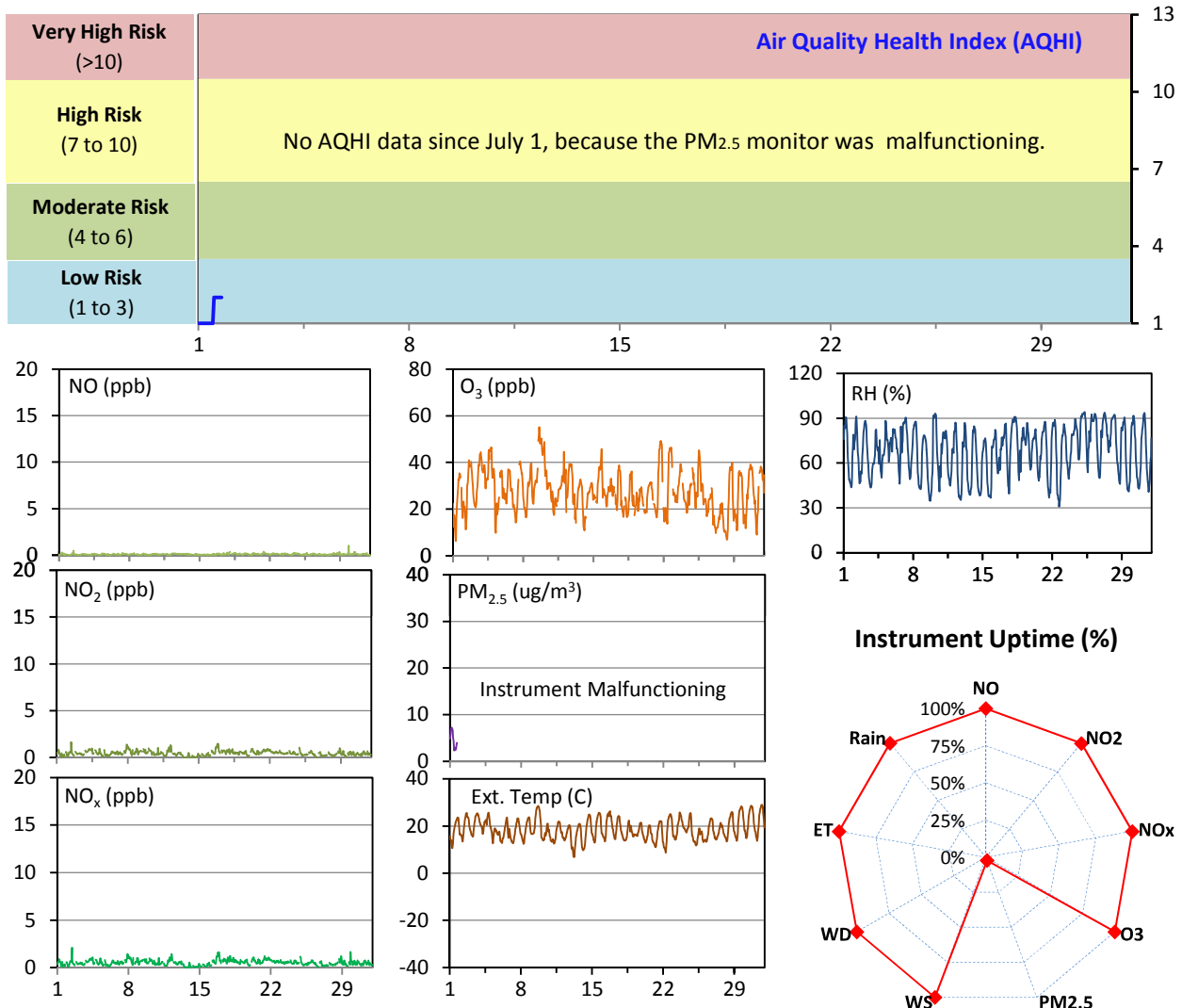


WYAMZ Meadow Lake Station - July 2014 Summary Report

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	99.9%	0.2	Jul-21	-	-	1.0	Jul-29 20:00	-	-
NO ₂	ppb	0.4	99.9%	0.7	Jul-16	-	-	1.7	Jul-02 10:00	212	0
NO _x	ppb	0.5	99.9%	0.8	Jul-21	-	-	2.1	Jul-02 10:00	-	-
O ₃	ppb	28	100.0%	40	Jul-9	-	-	55	Jul-09 14:00	82	0
PM _{2.5}	ug/m3	-	2.3%	-	-	30	-	-	-	-	-

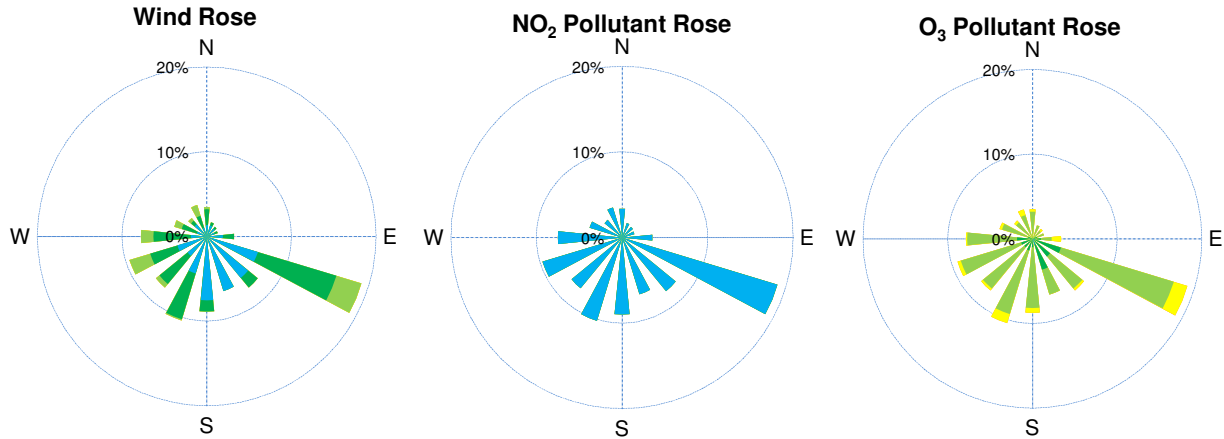
SAAQS: Saskatchewan Ambient Air Quality Standards



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 the PM_{2.5} analyzer.
- *Operational issues include: The PM_{2.5} analyzer was malfunctioning from July 1-31. AMEC Technicians will repair the analyzer in September.

WYAMZ Meadow Lake Station - July 2014 Summary Report

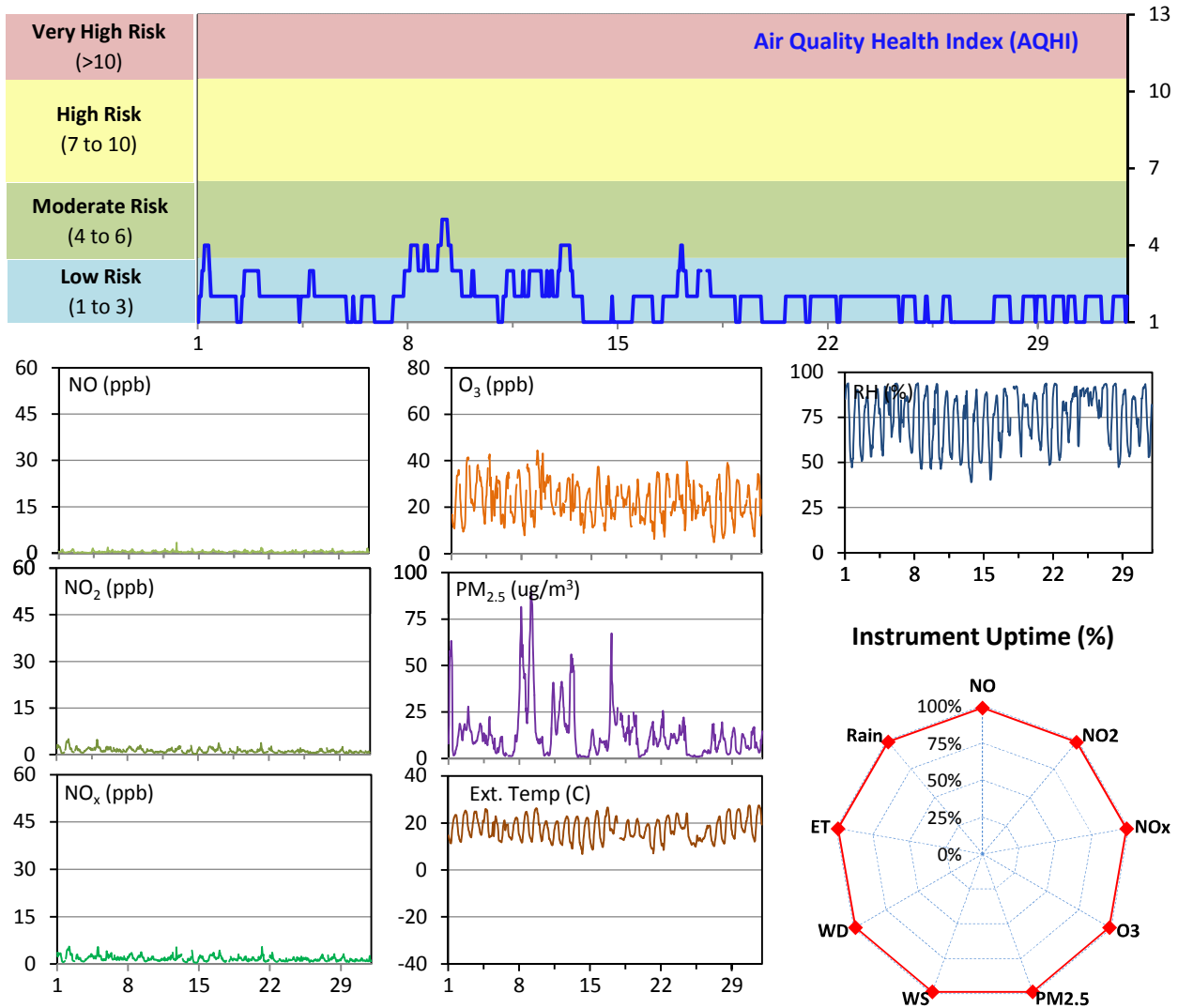


Parameters	Unit	Color Code for Wind Spd & Pollutant Conc. Class						
Wind Speed	m/s	$0.3 \leq WS < 1.4$	$1.4 \leq WS < 3.1$	$3.1 \leq WS < 7.8$	$7.8 \leq WS < 10.8$	$10.8 \leq WS < 13.6$	$WS \geq 13.6$	
NO ₂	ppb	$0 \leq C < 5$	$5 \leq C < 15$	$15 \leq C < 30$	$30 \leq C < 100$	$100 \leq C < 212$	$C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

WYAMZ Unity Station - July 2014 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		
NO	ppb	0.4	98.6%	0.6	Jul-12	-	-	3.4	Jul-12 18:00	-	-
NO ₂	ppb	1.3	98.6%	2.4	Jul-2	-	-	5.0	Jul-02 04:00	212	0
NO _x	ppb	1.7	98.6%	2.9	Jul-2	-	-	5.6	Jul-02 04:00	-	-
O ₃	ppb	23	98.7%	32	Jul-10	-	-	45	Jul-09 14:00	82	0
PM _{2.5}	ug/m3	13	98.8%	45	Jul-8	30	2	90	Jul-09 03:00	-	-

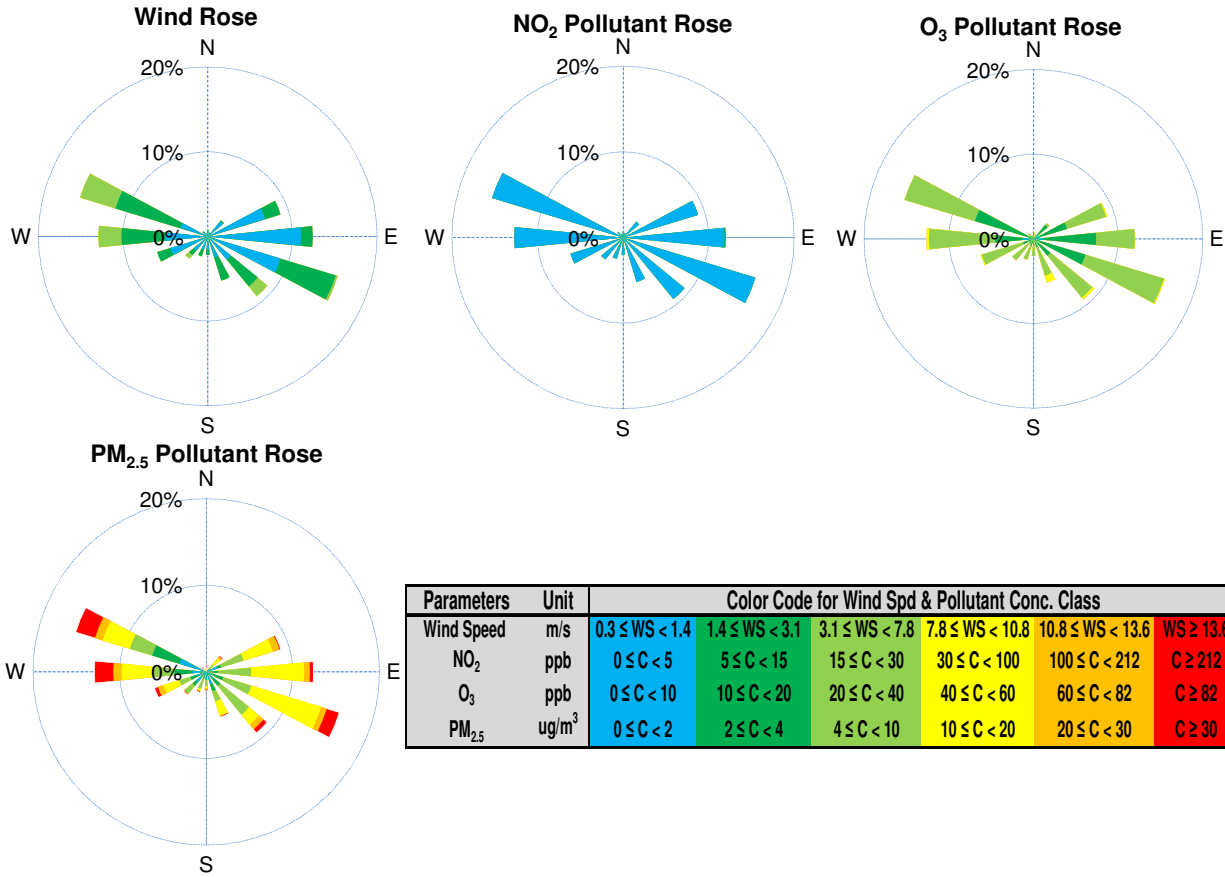
SAAQS: Saskatchewan Ambient Air Quality Standards



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 two 24-hour PM_{2.5} exceedance events, please see exceedance summary table for details.
- *All compliance parameters are above 90% operational.
- *Operational issues include intermittent power failures throughout the month. 10 hours of NO/NO₂/NO_x, and 9 hours of data for all other parameters is flagged as "power failure".

WYAMZ Unity Station - July 2014 Summary Report

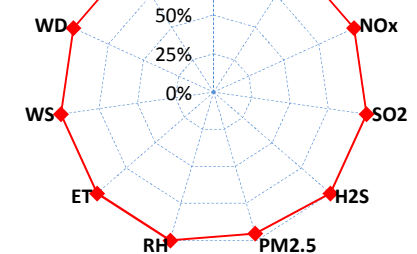
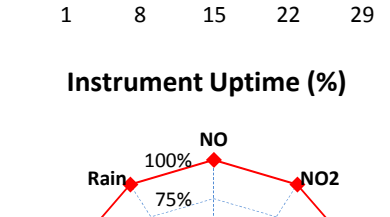
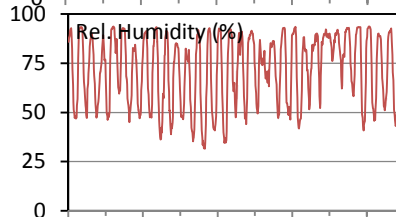
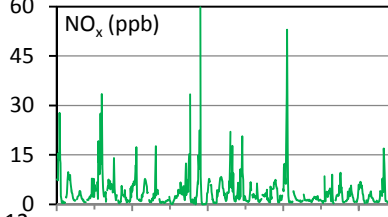
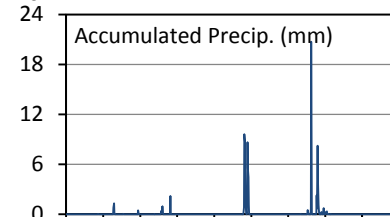
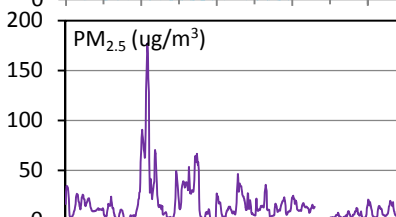
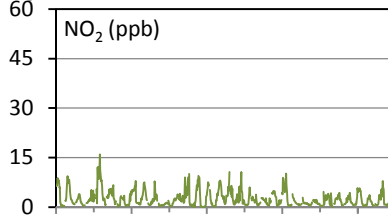
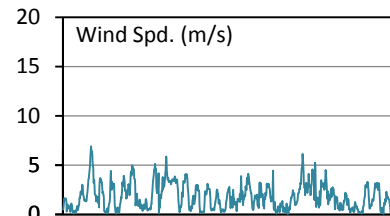
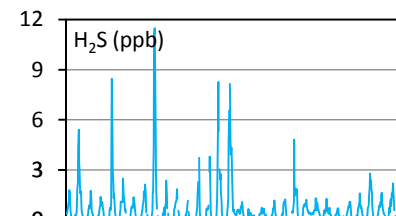
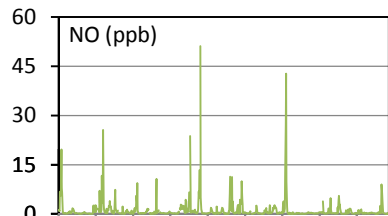
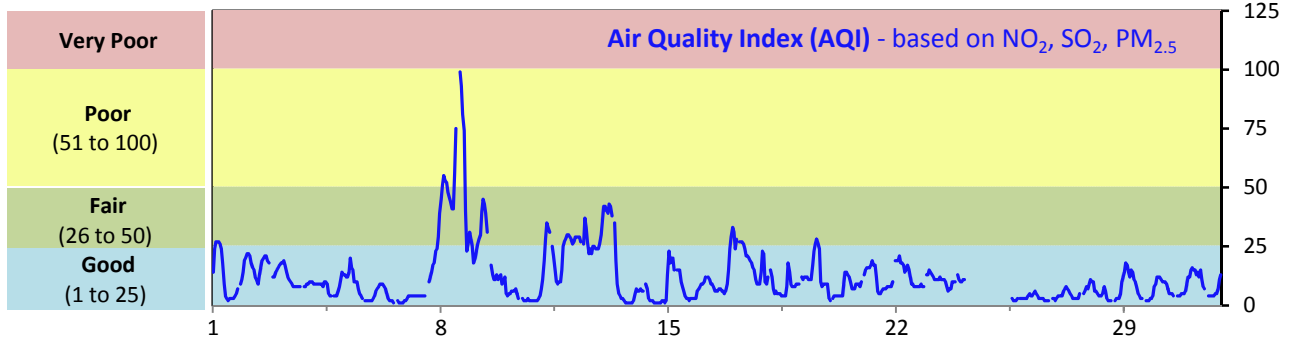


Exceedance Summary (24-Hour Average)											
24-hour Exceedance Information			Summary of Other Parameters During Exceedance								
Pollutant	Conc. ppb	Exceedance Date mmm-dd	WS m/s	WD deg	AQHI -	Rain mm	NO ppb	NO ₂ ppb	NO _x ppb	O ₃ ppb	PM _{2.5} ug/m ³
PM _{2.5}	45	Jul-8	1.0	225	3	0.0	0	2	2	22	45
PM _{2.5}	40	Jul-9	1.5	130	3	0.0	0	2	2	26	40

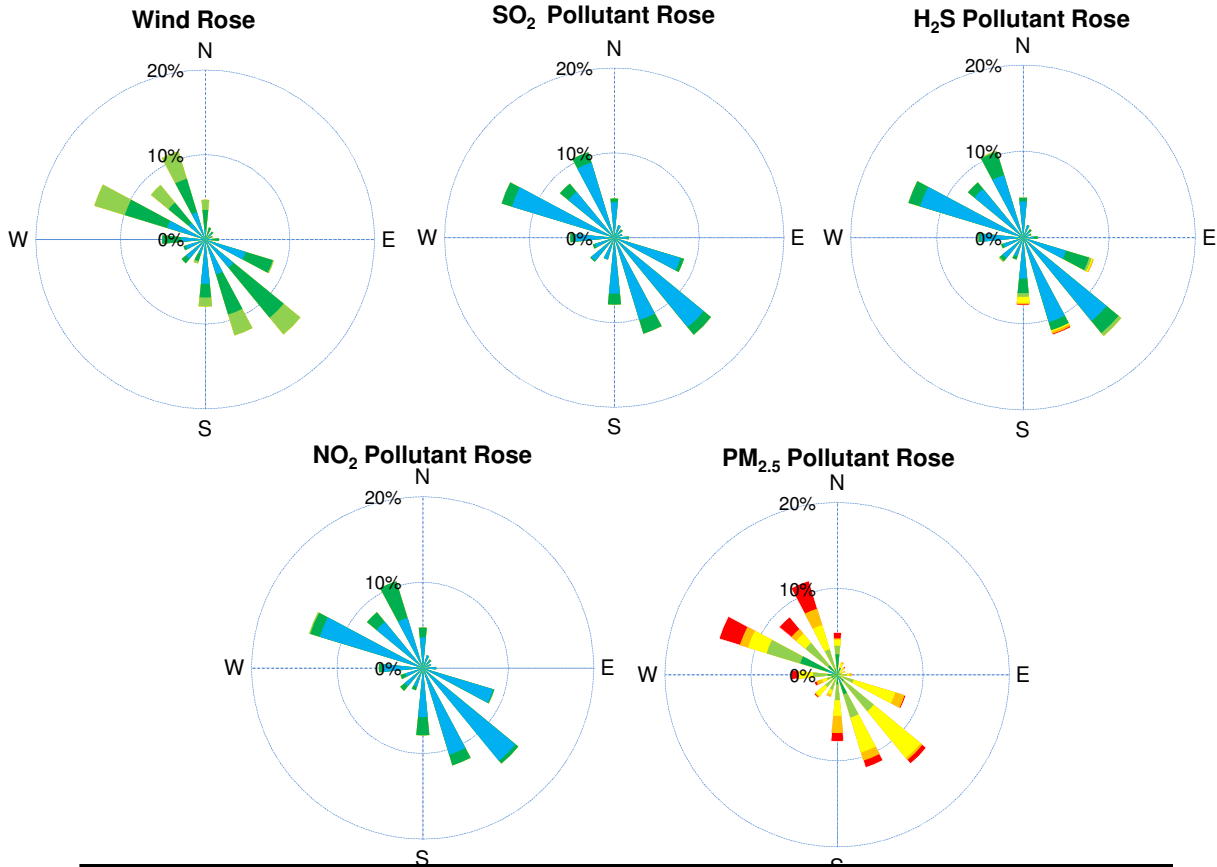
WYAMZ Maidstone Station - July 2014 Summary Report

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	1.1	100.0%	4.6	Jul-22	-	-	51.2	Jul-14 07:00	-	-
NO ₂	ppb	2.6	100.0%	5.0	Jul-5	-	-	16.0	Jul-05 01:00	212	0
NO _x	ppb	3.7	100.0%	8.4	Jul-22	-	-	59.8	Jul-14 07:00	-	-
SO ₂	ppb	0.5	100.0%	2.1	Jul-8	57	0	2.9	Jul-08 15:00	172	0
H ₂ S	ppb	0.7	100.0%	2.3	Jul-9	3.6	0	11.5	Jul-09 05:00	10.8	2
PM _{2.5}	ug/m3	16	95.4%	89	Jul-8	30	2	177	Jul-08 14:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



WYAMZ Maidstone Station - July 2014 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 two 1-hour H₂S exceedance events and two 24-hour PM_{2.5} exceedance events. Please refer to exceedance summary tables for details.

*All compliance parameters are above 90% operational.

*Operational issues include: 34 hours of PM_{2.5} data flagged as "analyzer failure" on July 24-25 when the pump shut off. The analyzer returned to normal operations once the pump was restarted.

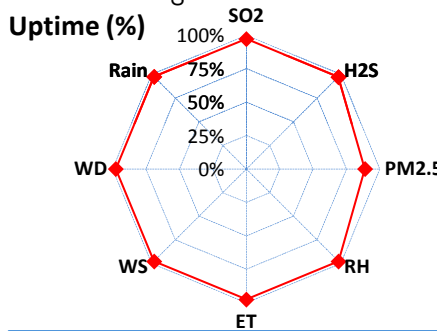
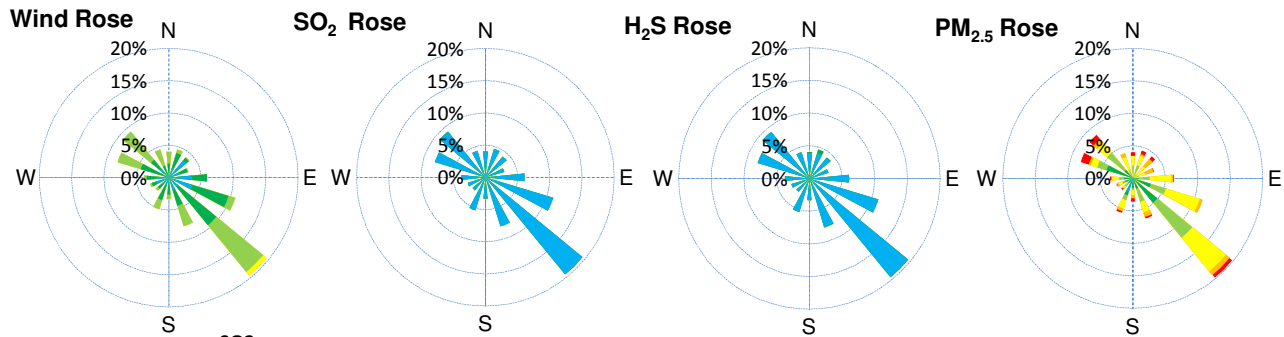
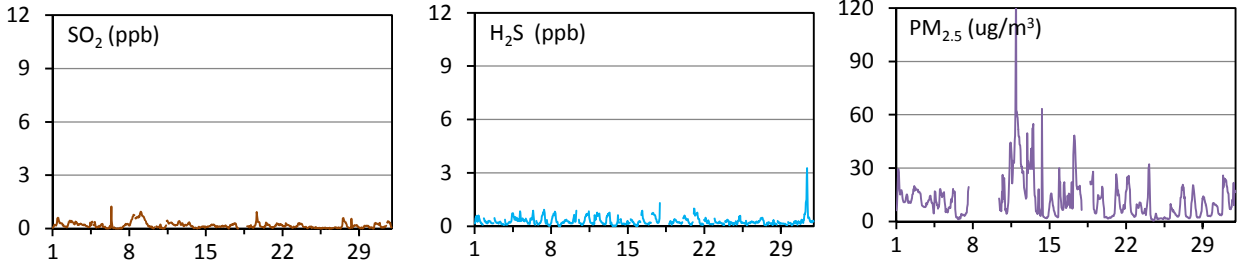
Exceedance Summary (1-Hour Average)

1-hour Exceedance Information			Summary of Other Parameters During Exceedance									
Pollutant	Conc. ppb	Exceedance Time mmm-dd hh:mm	WS m/s	WD deg	AQI -	Rain mm	ET C	SO ₂ ppb	NO ₂ ppb	H ₂ S ppb	PM _{2.5} ug/m ³	
H ₂ S	11.5	Jul-09 05:00	0.7	165	30	0.0	11.6	1	6	11.5	39	
H ₂ S	11.0	Jul-09 04:00	0.5	184	28	0.0	12.8	1	8	11.0	36	
24-hour Exceedance Information			WS	WD	AQI	Rain	ET	SO ₂	NO ₂	H ₂ S	PM _{2.5}	
PM _{2.5}	89	Jul-8	0.9	223	51	0.0	18.7	2	3	0.6	89	
PM _{2.5}	35	Jul-12	2.3	278	27	0.0	17.3	1	3	0.2	35	

WYAMZ Kindersley Station - July 2014 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	97.3%	0.6	Jul-8	57	0	1.2	Jul-06 08:00	172	0
H ₂ S	ppb	0.3	97.3%	0.7	Jul-31	3.6	0	3.3	Jul-31 09:00	10.8	0
PM _{2.5}	ug/m3	12	88.7%	34	Jul-12	30	2	137	Jul-11 22:00	-	-

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 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

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 two 24-hour PM2.5 exceedance events. Please refer to the exceedance summary table for details.
- *All compliance parameters are above 90% operational, with the exception of the PM2.5 analyzer.
- *Operational issues include: 66 hours of PM2.5 data are flagged as "analyzer failure" on July 7-10. A spider had built a web in the nephelometer. The analyzer returned to normal operations once this was removed. There are 19 hours of SO2 and H2S data, and 18 hours for all other parameters flagged as "power failure" on July 17-18, due to a power disruption.

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	34	Jul-12	2.7	252	0.0	17.7	0.3	0.4	34
PM2.5	34	Jul-11	2.7	283	0.0	15.8	0.2	0.4	34