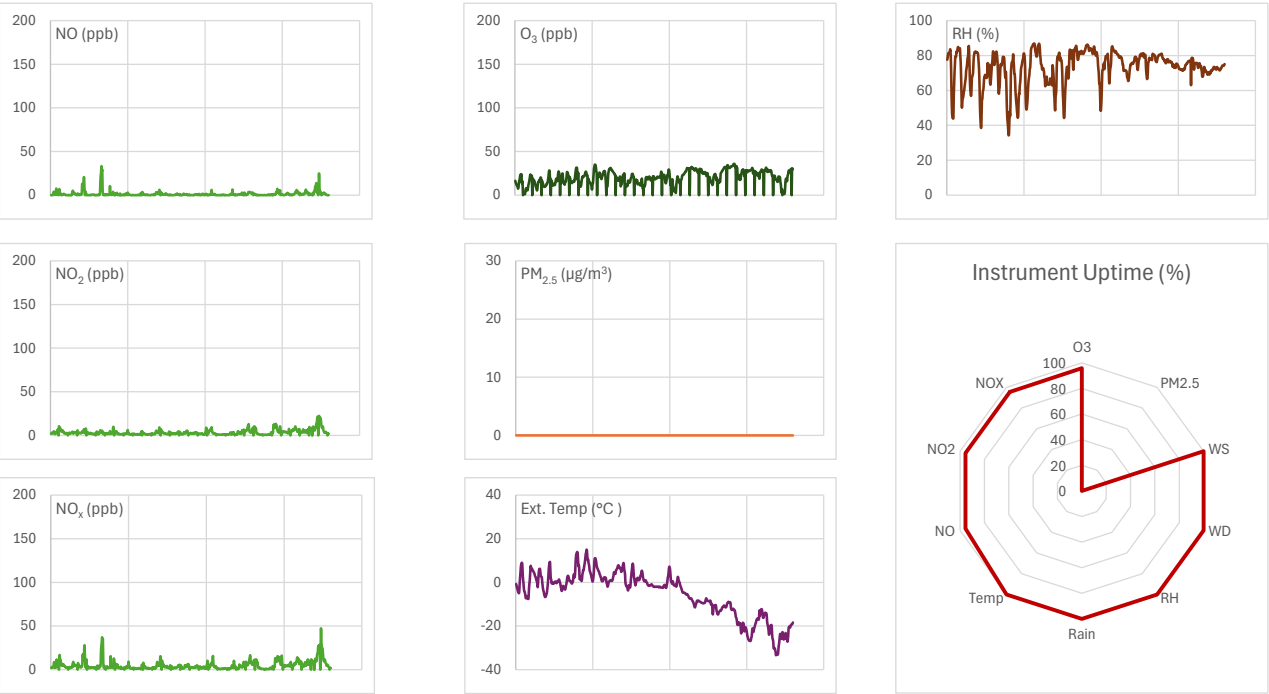
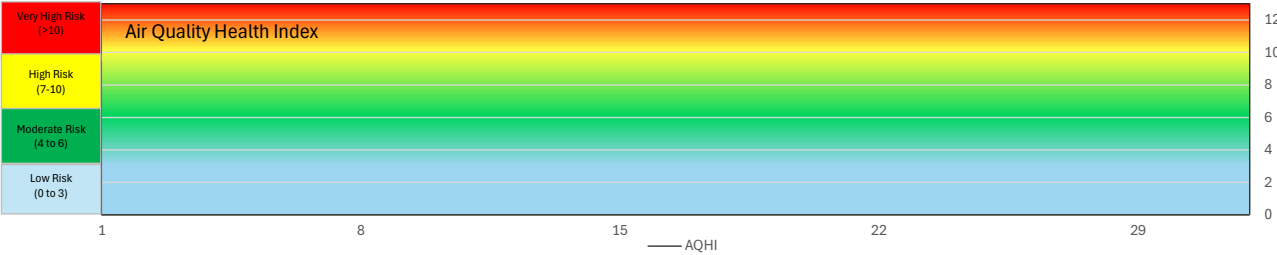


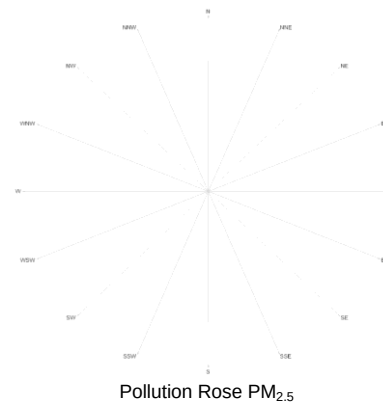
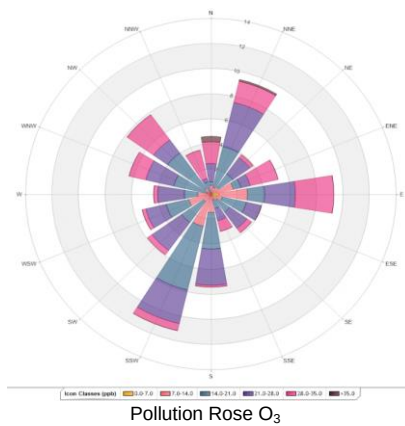
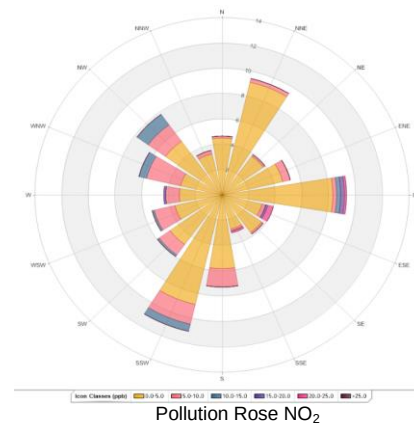
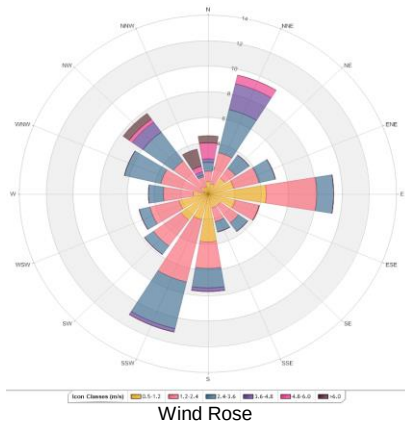
WYAMZ Clavet Station - November 2024 Summary Report											
Pollutants		Month Records		24 Hour Records				1 Hour Records			
Name	Unit	Average Concentration	Uptime	Maximum		SAAQS Objective*	Exceed Days	Maximum		SAAQS Objective	Exceed Hours
				Conc.	Date			Conc.	Date and Time		
NO	ppb	1.4	95.6%	7.21	6-Nov	-	-	33.3	11/6/2024 12:00 PM	-	-
NO ₂	ppb	3.6	95.6%	12.12	29-Nov	106	0	22.4	11/29/2024 11:00 PM	159	0
NO _x	ppb	5	95.6%	17.91	29-Nov	-	-	47.3	11/29/2024 11:00 PM	-	-
O ₃	ppb	20.7	95.8%	34.64	24-Nov	124 (8 hours)	0	35.9	24/11/2024 16:00	82	0
PM _{2.5}	µg/m ³	No Data	0.0%	0.00	-	28	0	No Data	-	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Exceedance Summary										
24-hour Exceedance Information			Summary of other Parameters during Exceedance							
Pollutant	Date	Conc.	WS	WD	Precip.	NO	NO ₂	NO _x	O ₃	PM _{2.5}

WYAMZ Clavet Station - November 2024 Summary Report



Parameters	Unit	Color Code for Wind Speed and Pollutant Conc. Class						
Wind Speed	m/s	0.5 - 1.2	1.2 - 2.4	2.4 - 3.6	3.6 - 4.8	4.8 - 6.0	> 6.0	
NO ₂	ppb	0.0-C-5.0	5.0-C-10.0	10.0-C-15.0	15.0-C-20.0	20.0-C-25.0	> 25	
O ₃	ppb	0.0-C-7.0	7.0-C-14.0	14.0-C-21.0	21.0-C-28.0	28.0-C-35.0	> 35	
PM _{2.5}	µg/m ³	N/A	N/A	N/A	N/A	N/A	N/A	

Monthly Update

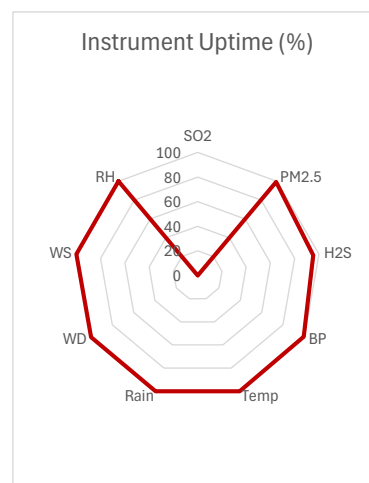
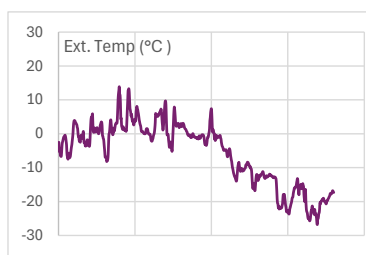
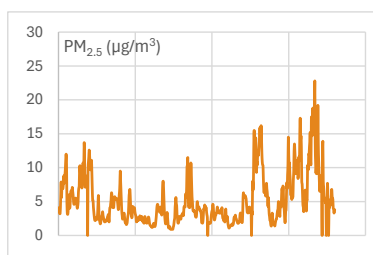
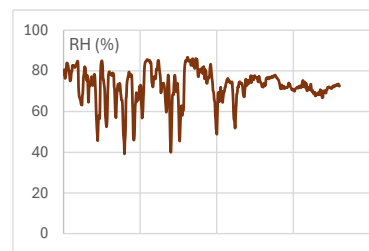
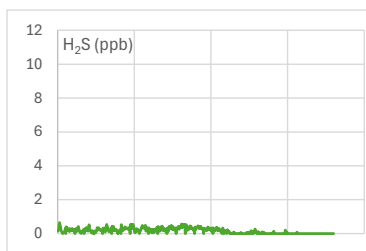
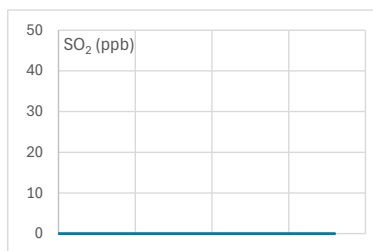
- * All data has been zero drift and baseline corrected, if any. Data may change after final validation process.
- * All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- * All compliance parameters were more than 90% operational for the month, except for PM_{2.5}. Monitor was removed on October 24, 2024 for repair.
- * NO_x span failures at Clavet were observed when ambient temperatures dropped to high negatives, suggesting seasonal effects significantly impact performance. Spans normalized as temperatures rose to positive ranges, reinforcing this conclusion. Data during these failures were flagged but not invalidated.



WYAMZ Kerrobert Station - November 2024 Summary Report

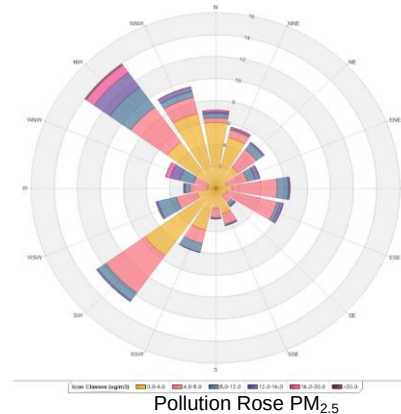
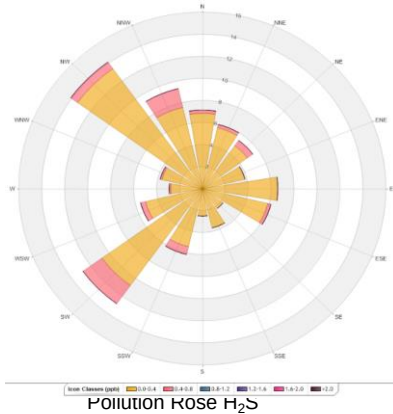
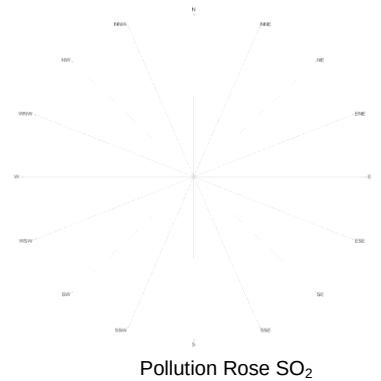
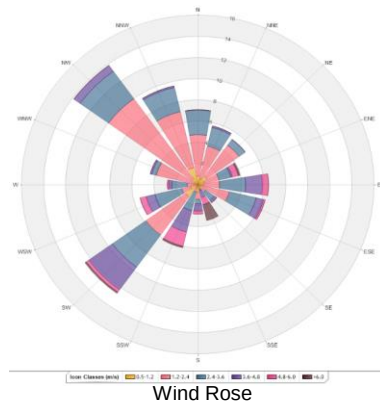
Pollutants		Month Records		24 Hour Records				1 Hour Records			
Name	Unit	Average Concentration	Uptime	Maximum		SAAQS Objective	Exceed Days	Maximum		SAAQS Objective	Exceed Hours
				Conc.	Date			Conc.	Date and Time		
SO ₂	ppb	No Data	0.0%	0.00	-	48	0	No Data	-	172	0
H ₂ S	ppb	0.2	95.3%	0.42	14-Nov	3.6	0	0.65	01/11/2024 05:00	11	0
PM _{2.5}	µg/m ³	5.2	99.2%	14.05	28-Nov	28	0	22.8	28/11/2024 20:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Exceedance Summary								
24-hour Exceedance Information			Summary of other Parameters during Exceedance					
Pollutant	Date	Conc.	WS	WD	Precip.	SO ₂	H ₂ S	PM _{2.5}

WYAMZ Kerrobert Station - November 2024 Summary Report



Parameters	Unit	Color Code for Wind Speed and Pollutant Conc. Class						
Wind Speed	m/s	0.5 - 1.2	1.2 - 2.4	2.4 - 3.6	3.6 - 4.8	4.8 - 6.0	> 6.0	
SO ₂	ppb	N/A	N/A	N/A	N/A	N/A	N/A	
H ₂ S	ppb	0.0-C-0.4	0.4-C-0.8	0.8-C-1.2	1.2-C-1.6	1.6-C-2.0	C > 2.0	
PM _{2.5}	µg/m ³	0.0-C-4.0	4.0-C-8.0	8.0-C-12.0	12.0-C-16.0	16.0-C-20.0	C > 20.0	

Monthly Update

- * All data has been zero drift, and baseline corrected, if any. Data may change after final validation process.
- * All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- * All compliance parameters were more than 90% operational for the month with the exception of SO₂ analyzer.
- * 720 hours of data flagged as "analyzer malfunctioning" for SO₂ analyzer due to missing and flatlined data.

WYAMZ Maidstone Station - November 2024 Summary Report

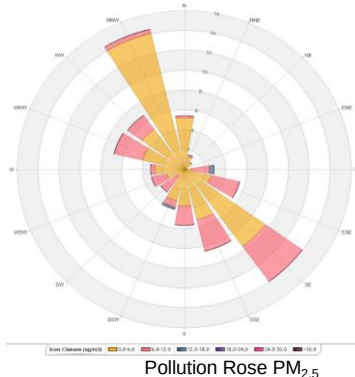
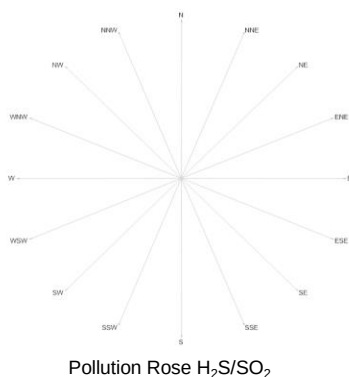
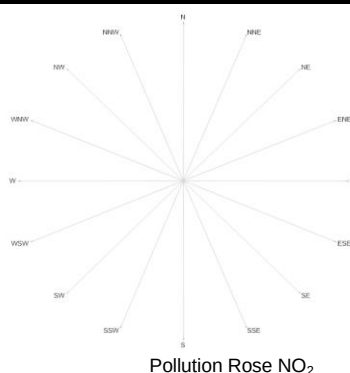
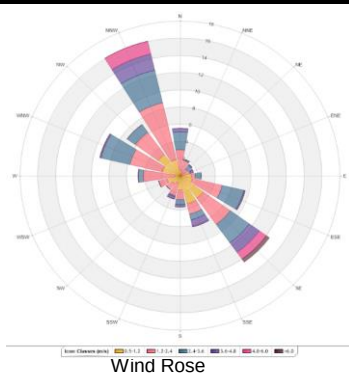
Pollutants		Month Records		24 Hour Records				1 Hour Records			
Name	Unit	Average Concentration	Uptime	Maximum		SAAQS Objective	Exceed Days	Maximum		SAAQS Objective	Exceed Hours
				Conc.	Date			Conc.	Date and Time		
NO	ppb	No Data	0.0%	0.00	-	-	-	No Data	-	-	-
NO ₂	ppb	No Data	0.0%	0.00	-	106	0	No Data	-	159	0
NO _x	ppb	No Data	0.0%	0.00	-	-	-	No Data	-	-	-
SO ₂	ppb	No Data	0.0%	0.00	-	48	0	No Data	-	172	0
H ₂ S	ppb	No Data	0.0%	0.00	-	3.6	0	No Data	-	11	0
PM _{2.5}	µg/m ³	4.8	64.0%	9.23	2-Nov	28	0	37.9	07/11/2024 20:00	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Exceedance Summary										
24-hour Exceedance Information			Summary of other Parameters during Exceedance							
Pollutant	Date	Conc.	WS	WD	Precip.	NO	NO ₂	NO _x	SO ₂	PM _{2.5}

WYAMZ Maidstone Station - November 2024 Summary Report



Parameters	Unit	Color Code for Wind Speed and Pollutant Conc. Class						
Wind Speed	m/s	0.5 - 1.2	1.2 - 2.4	2.4 - 3.6	3.6 - 4.8	4.8 - 6.0	WS > 6.0	
NO ₂	ppb	N/A	N/A	N/A	N/A	N/A	N/A	
SO ₂	ppb	N/A	N/A	N/A	N/A	N/A	N/A	
H ₂ S	ppb	N/A	N/A	N/A	N/A	N/A	N/A	
PM _{2.5}	µg/m ³	0.0-C-6.0	6.0-C-12.0	12.0-C-18.0	18.0-C-24.0	24.0-C-30.0	C > 30.0	

Monthly Update

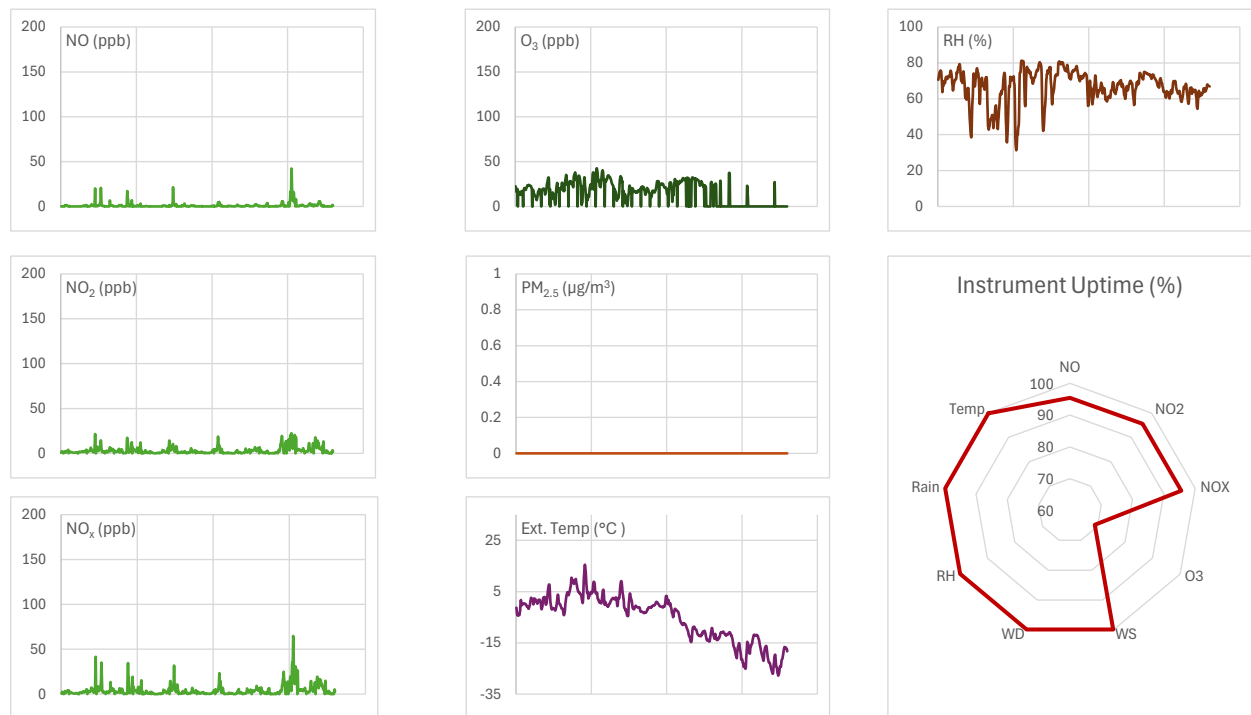
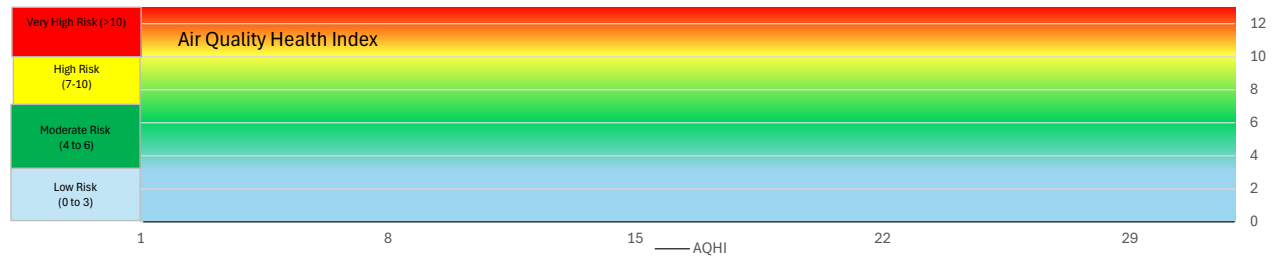
- * All data has been zero drift, and baseline corrected, if any. Data may change after final validation process.
- * All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- * All compliance gas parameters were less than 90% operational for the month.
- * H₂S/ SO₂ analyzer was removed for repair in spring 2024 and is scheduled to be reinstalled in December 2024.
- * 720 hours of data flagged as "analyzer malfunctioning" for NO₂ analyzer due to missing and flatlined data.
- * 259 hours of data flagged as "analyzer malfunctioning" for PM_{2.5} due to missing and flatlined data.



WYAMZ Meadow Lake Station - November 2024 Summary Report

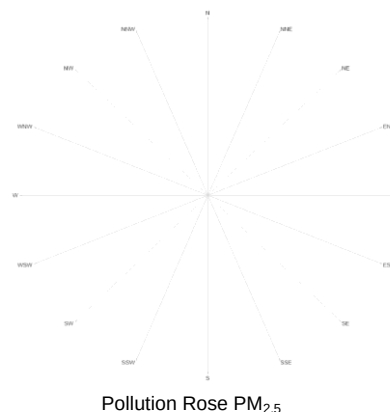
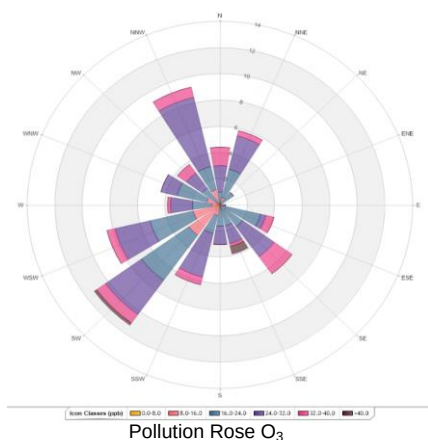
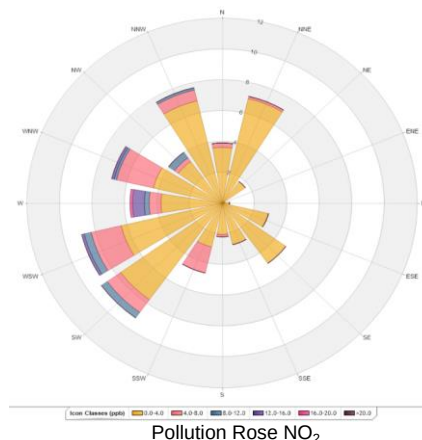
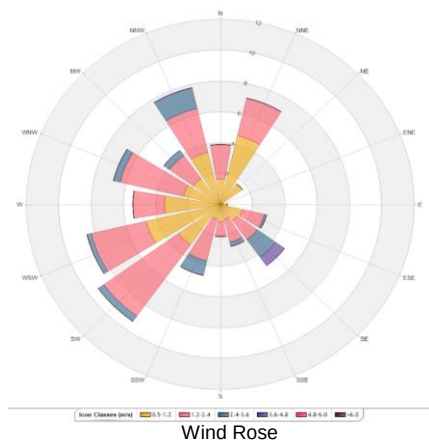
Pollutants		Month Records		24 Hour Records				1 Hour Records			
Name	Unit	Average Concentration	Uptime	Maximum		SAAQS Objective*	Exceed Days	Maximum		SAAQS Objective	Exceed Hours
				Conc.	Date			Conc.	Date and Time		
NO	ppb	1.1	95.4%	9.43	26-Nov	-	-	42.3	26/11/2024 10:00	-	-
NO ₂	ppb	3.2	95.6%	12.90	26-Nov	106	0	22.5	26/11/2024 10:00	159	0
NO _x	ppb	4.3	95.6%	22.35	26-Nov	-	-	64.8	26/11/2024 10:00	-	-
O ₃	ppb	21.9	69.0%	37.25	24-Nov	124 (8 hours)	0	42.6	09/11/2024 24:00	82	0
PM _{2.5}	µg/m ³	No Data	0.0%	0.00	-	28	0	No Data	-	-	-

SAAQS: Saskatchewan Ambient Air Quality Standards



Exceedance Summary									
24-hour Exceedance Information			Summary of other Parameters during Exceedance						
Pollutant	Date	Conc.	WS	WD	Precip.	NO	NO ₂	NO _x	O ₃ PM _{2.5}

WYAMZ Meadow Lake Station - November 2024 Summary Report



Parameters	Unit	Color Code for Wind Speed and Pollutant Conc. Class						
Wind Speed	m/s	0.5 - 1.2	1.2 - 2.4	2.4 - 3.6	3.6 - 4.8	4.8 - 6.0	WS > 6.0	
NO ₂	ppb	0.0-C-4.0	4.0-C-8.0	8.0-C-12.0	12.0-C-16.0	16.0-C-20.0	C > 20	
O ₃	ppb	0.0-C-8.0	8.0-C-16.0	16.0-C-24.0	24.0-C-32.0	32.0-C-40.0	C > 40	
PM _{2.5}	µg/m ³	N/A	N/A	N/A	N/A	N/A	N/A	

Monthly Update

- * All data has been zero drift, and baseline corrected, if any. Data may change after final validation process.
- * All compliance parameters were within the Saskatchewan Ambient Air Quality Standards.
- * All compliance parameters were less than 90% operational for the month except for NO_x.
- * 720 hours of data flagged as "analyzer malfunctioning" for PM_{2.5} analyzer due to missing and flatlined data.
- * 223 hours of data flagged as "analyzer malfunctioning" for O₃ analyzer due to missing and flatlined data.