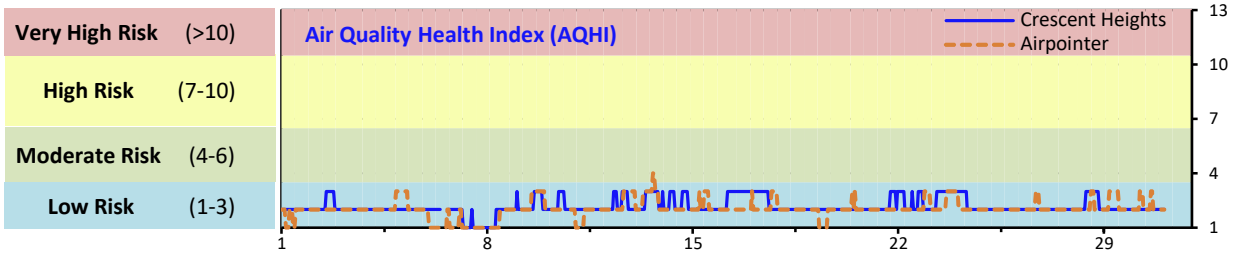
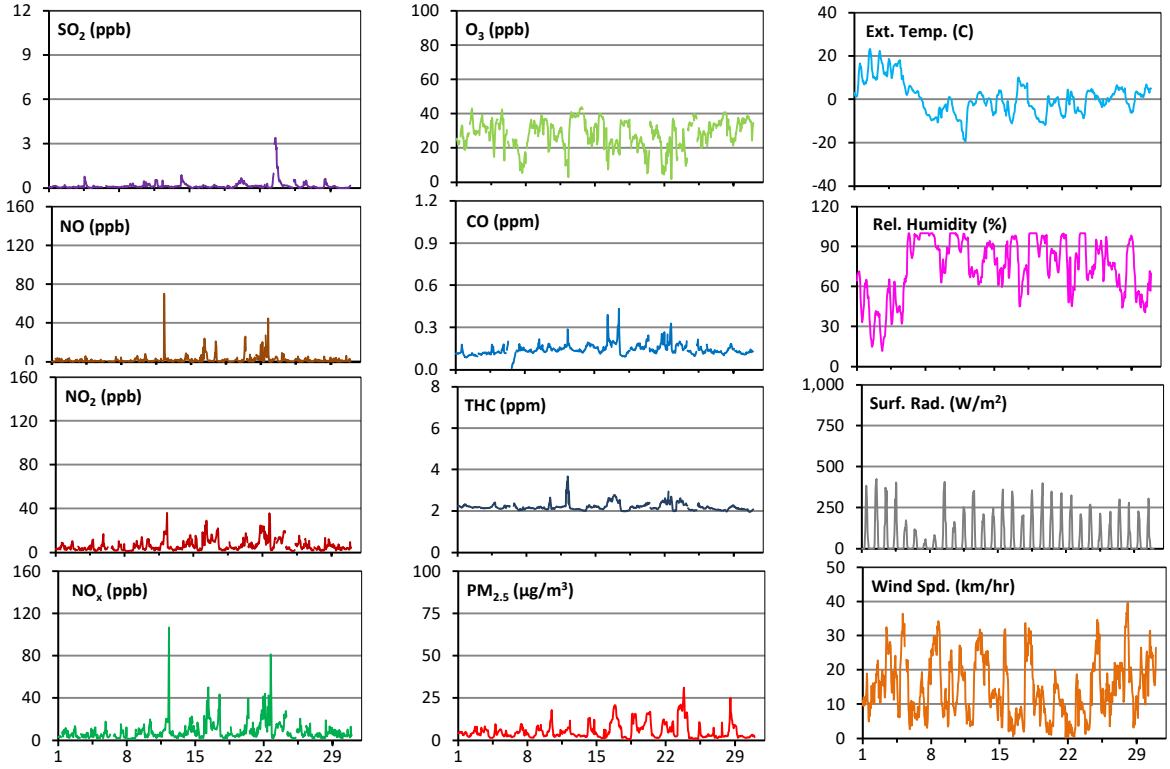
Palliser Airshed Society - November 2020 Summary Report

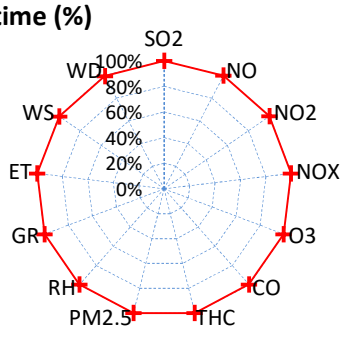
Continuous Sampling Results - Crescent Heights Station

Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc Unit	Avg. Conc.	Uptime	Maximum Conc	Maximum Time	AAAQO Objective	Exceed No.	Maximum Conc	Maximum Time	AAAQO Objective	Exceed No.
SO_2	ppb	< 1	99.9%	1.2	Nov-23	48	0	3.4	Nov-23 13:00	172	0
NO	ppb	1.9	99.9%	7.2	Nov-22	-	-	70.3	Nov-12 8:00	-	-
NO_2	ppb	6.2	99.9%	14.3	Nov-22	-	-	35.9	Nov-22 18:00	159	0
NO_X	ppb	8.2	99.9%	21.6	Nov-22	-	-	106.7	Nov-12 8:00	-	-
O_3	ppb	28	99.9%	40	Nov-13	-	-	44	Nov-13 16:00	76	0
CO	ppm	0.1	99.9%	0.2	Nov-16	-	-	0.4	Nov-17 12:00	13	0
THC	ppm	2.2	99.9%	2.5	Nov-16	-	-	3.7	Nov-12 5:00	-	-
$PM_{2.5}$	µg/m³	5	99.9%	16	Nov-23	29	0	31	Nov-23 21:00	80	0

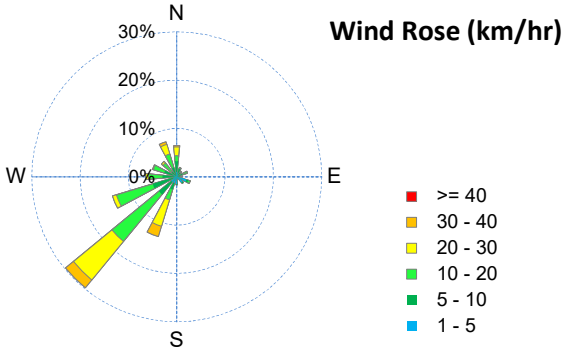




Instrument Uptime (%)

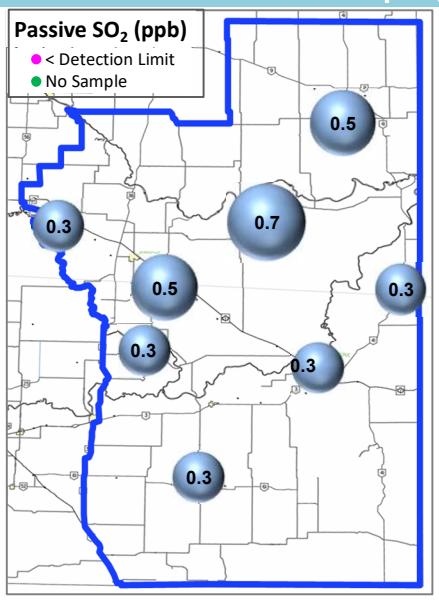


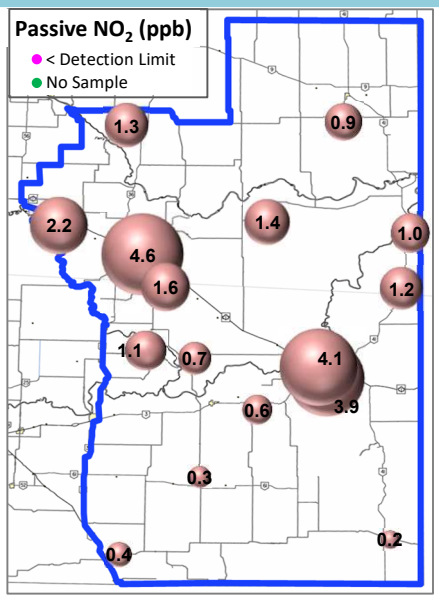
Wind Rose (km/hr)



Palliser Airshed Society - November 2020 Summary Report

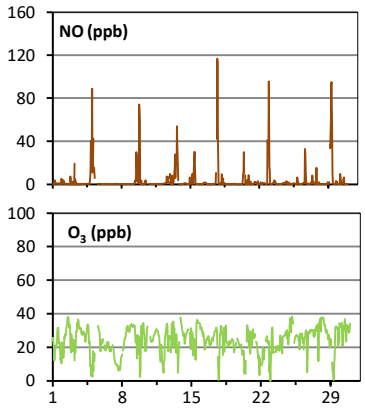
Passive Sampling Results

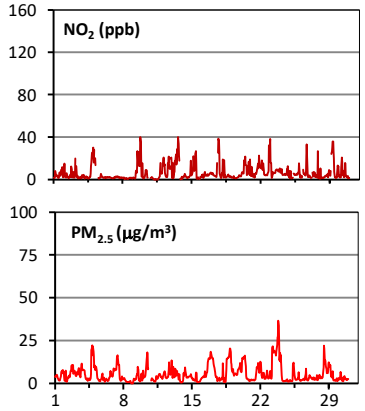


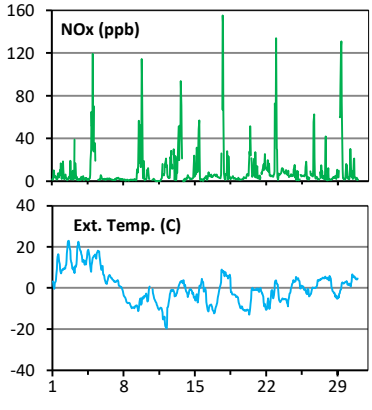


Continuous Sampling Results - Medicine Hat Trap Club

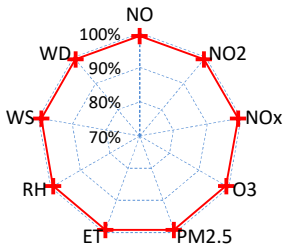
Pollutants		Month Records		24-Hour Records				1-Hour Records			
Name	Conc Unit	Avg. Conc.	Uptime	Maximum Conc	Maximum Time	AAAQO Objective	Exceed No.	Maximum Conc	Maximum Time	AAAQO Objective	Exceed No.
NO	ppb	3.5	99.2%	16.8	Nov-29	-	-	116.8	Nov-17 18:00	-	-
NO_2	ppb	6.2	99.2%	14	Nov-13	-	-	40.1	Nov-09 20:00	159	0
NOx	ppb	9.7	99.2%	29	Nov-29	-	-	155.3	Nov-17 18:00	-	-
O_3	ppb	24	99.2%	31	Nov-28	-	-	38	Nov-25 4:00	76	0
$PM_{2.5}$	ug/m3	6	99.2%	18	Nov-23	29	0	37	Nov-23 21:00	80	0

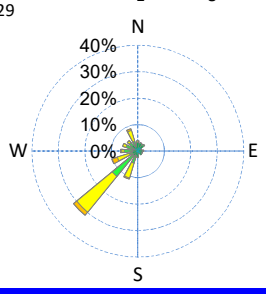






Uptime (%)





Wind Rose (km/hr)

- >= 40
- 30 - 40
- 20 - 30
- 10 - 20
- 5 - 10
- 1 - 5

Monthly Update

*All data has been validated; data may change after validation process.

*The measured ambient concentrations of all parameters are within the AAAQO with the exception of one 24-hour PM2.5 exceedance recorded at each station on Sept 19 due to wildfire smoke in the area.

*All compliance parameters had > 90% operational uptime.