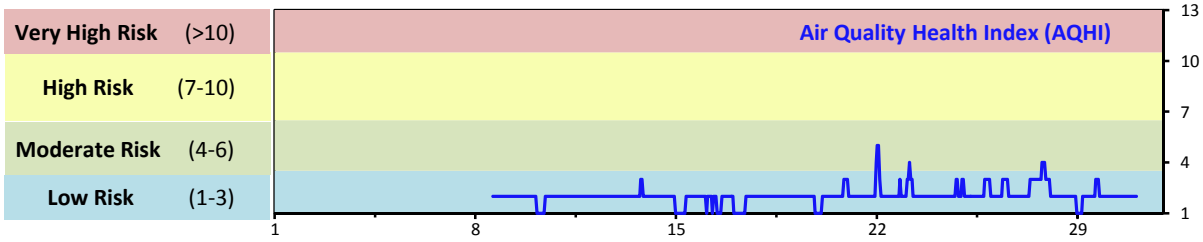
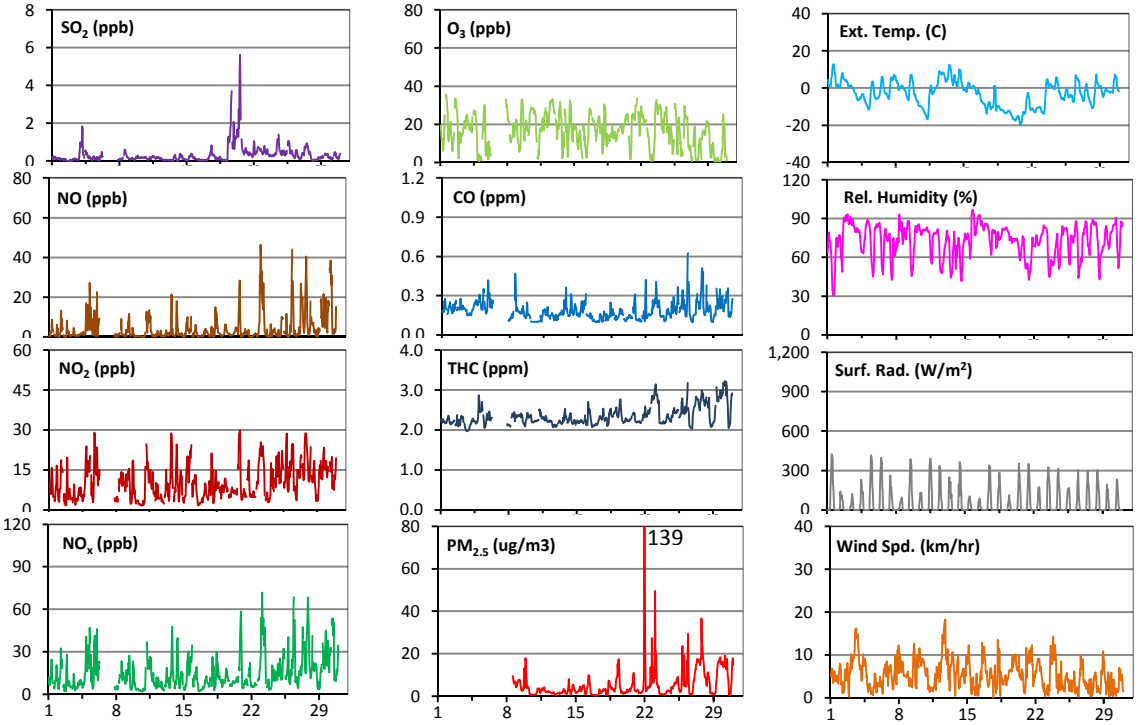
Palliser Airshed Society - November 2013 Summary Report

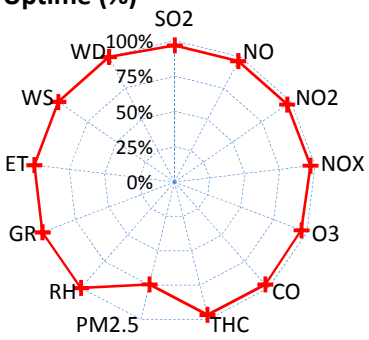
Continuous Sampling Results - Crescent Heights Station

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	0.3	96.7%	1.7	Nov-20	48	0	5.6	Nov-20 14:00	172	0
NO	ppb	4.2	96.7%	13.4	Nov-30	-	-	46.4	Nov-23 3:00	-	-
NO_2	ppb	10.2	96.7%	18.8	Nov-27	-	-	30	Nov-20 23:00	159	0
NO_X	ppb	14.5	96.7%	31.3	Nov-27	-	-	71.7	Nov-23 3:00	-	-
O_3	ppb	17	95.8%	28	Nov-12	-	-	36	Nov-01 15:00	82	0
CO	ppm	0.2	96.7%	0.3	Nov-27	-	-	0.6	Nov-26 10:00	13	0
THC	ppm	2.4	96.7%	2.7	Nov-30	-	-	3.2	Nov-30 6:00	-	-
$PM_{2.5}$	µg/m³	6	74.4%	17	Nov-27	30	0	139	Nov-22 0:00	-	-

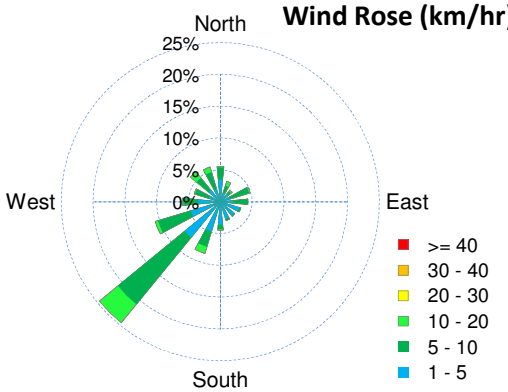




Instrument Uptime (%)



Wind Rose (km/hr)



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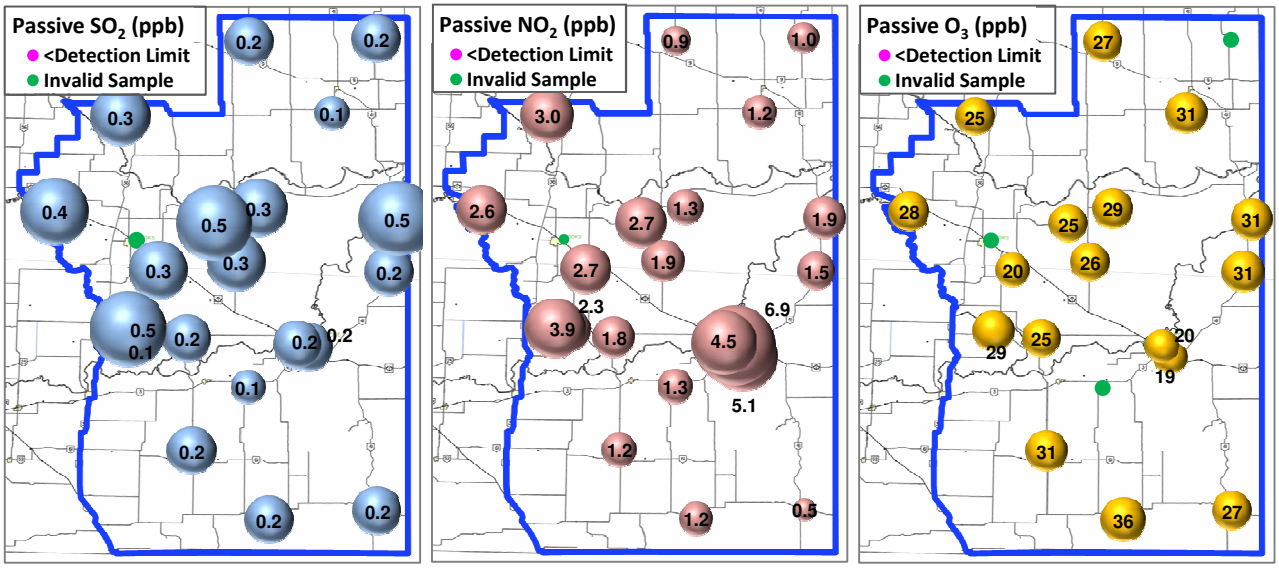
Passive Sampling Results



Monthly Update

* All data has been slope, intercept, and baseline corrected. Data may change after validation process.
* The measured ambient concentrations of all parameters are within the AAAQO for the month of November 2013.
* All compliance parameters are above 90% operational for the month of November 2013, with the exception of the PM2.5 analyzer. ESRD reference number: 275548.
* Operational issues for the month of November include the PM2.5 analyzer malfunctioning. It was not operational Nov 1-7, it was replaced with a SHARP PM2.5 analyzer on Nov 8. 24 hours of data for all pollutant parameters is flagged as maintenance on Nov 6-7. Station HVAC repairs were taking place, and analyzers were left in maintenance mode to prevent any analyzer malfunctions.
* High PM2.5 readings on Nov 22 are associated with the landfill fire in Medicine Hat.
* O3 passive sample failures occured for sites 4, 11, 14, 20, and 22. The NO2/SO2 passive filter was damaged at site 11.