

TransAlta Utilities Corporation

AIR QUALITY MONITORING **November 2016** **Monthly Report**

Prepared by:

West Central Airshed Society
Drayton Valley, Alberta



Calibration Data Summary (Page 2)

November 22, 2016 - Station 959

NO Flow Rate (LPM)	Dilution Flow Rate (LPM)	Calculated Concentration C _c (ppb)	Raw Count Output R _c	Indicated Concentration C _i (ppb)	Correction Factor C _c /C _i		
0.08100	3.999	238.2	23831.1	238.2	1.000		
0.04100	4.030	120.9	12104.9	120.9	1.000		
0.02070	4.032	61.3	6161.2	61.5	0.997		
0.00000	4.000	0.0	0.1	-0.2			
NO Calibration					Average Correction Factor:	0.999	
0.08100	3.999	238.2	23866.3	238.1	1.001		
0.04100	4.030	120.9	12152.5	121.1	0.998		
0.02070	4.032	61.3	6174.1	61.4	0.998		
0.00000	4.000	0.0	2.1	-0.2			
NO _x Calibration					Average Correction Factor:	0.999	
Reference Concentration NO (ppb)	Raw Count Output NO	Calculated Concentration NO (ppb)	Calculated Concentration NO ₂ , C _c (ppb)	Raw Count Output R _c	Indicated Concentration C _i (ppb)	Correction Factor C _c /C _i	Converter Efficiency C _i /C _c
238.9	2466.4	24.5	214.4	21477.0	214.7	0.999	1.001
238.9	11769.7	117.5	121.4	12098.0	120.9	1.004	0.996
238.9	16291.4	162.8	76.2	7626.7	76.3	0.999	1.001
			0.0	5.3	0.1		
					Average Correction Factor:	1.000	
NO ₂ Gas Phase Titration					Average Converter Efficiency: 1.000		
Parameter	Correction Factor (Previous)	Correction Factor: (Current)	Percent Change of Correction Factor				
NO	0.995	1.000	0.5				
NO ₂	1.001	0.999	-0.2				
NO _x	0.995	1.001	0.6				

