

Table 3

Manitoba Ambient Air Quality Data - 1995 Annual Pollutant Summary –
Continuous Monitoring

POLLUTANT Conc. Units	STATION NUMBER & LOCATION	ANNUAL MEAN	MAXIMUM DATA VALUES		# OF SAMPLES ABOVE M.D.L.		# OF SAMPLES ABOVE M.A.L.		# OF SAMPLES ABOVE M.T.L.	
			1-HR	24-HR	1-HR	24-HR	1-HR	24-HR	1-HR	24-HR
CARBON MONOXIDE (CO) ppm	9118 WINNIPEG, SCOTIA & JEFFERSON	0.41	5.2	3.6 ^A	0	0 ^A	0	0 ^A	--	0 ^A
	9119 WINNIPEG, 65 ELLEN STREET	0.73	7.9	4.8 ^A	0	0 ^A	0	0 ^A	--	0 ^A
NITROGEN DIOXIDE (NO ₂) pphm	5131 BRANDON, ASSIN. COMMUN. COLLEGE	1.04	13	3.8	--	--	0	0	0	--
	9118 WINNIPEG, SCOTIA & JEFFERSON	1.26	7.5	5.7	--	--	0	0	0	--
	9119 WINNIPEG, 65 ELLEN STREET	1.83	9.1	5.1	--	--	0	0	0	--
NITRIC OXIDE (NO) pphm	5131 BRANDON, ASSIN. COMMUN. COLLEGE	0.49	9.3	2.6	--	--	--	--	--	--
	9118 WINNIPEG, SCOTIA & JEFFERSON	0.71	34.9	12.4	--	--	--	--	--	--
	9119 WINNIPEG, 65 ELLEN STREET	1.37	51.6	15.5	--	--	--	--	--	--
NITROGEN OXIDES (NO _X) pphm	5131 BRANDON, ASSIN. COMMUN. COLLEGE	1.51	16.4	5.3	--	--	--	--	--	--
	9118 WINNIPEG, SCOTIA & JEFFERSON	1.88	41.6	15.3	--	--	--	--	--	--
	9119 WINNIPEG, 65 ELLEN STREET	3.18	57.8	20.6	--	--	--	--	--	--
SULPHUR DIOXIDE (SO ₂) ppm	7251 FLIN FLON, 143 MAIN STREET	0.02	1.95	0.36	258	667	99	300	--	32
	7271 FLIN FLON, AQUA CENTRE	0	0.47	0.08	46	23	6	0	--	0
	7281 FLIN FLON, HBM&S STAFFHOUSE	0.01	0.67	0.27	177	411	33	123	--	0
	7291 CREIGHTON, SASK. CITY HALL	0	0.72	0.08	42	41	8	0	--	0
	7301 FLIN FLON, HAPNOT COLLEGIATE	0	0.59	0.08	15	20	3	0	--	0
	7351 THOMPSON, WATER TREATMENT PLANT	0	0.09	0.01	0	0	0	0	--	0
OXIDANTS OZONE (O ₃) pphm	5131 BRANDON, ASSIN. COMMUN. COLLEGE	2.6	7.4	4.9	179	~	0	~	0	--
	9118 WINNIPEG, SCOTIA & JEFFERSON	1.8	7	4.8	148	~	0	~	0	--
	9119 WINNIPEG, 65 ELLEN STREET	1.7	6.9	5.2	106	~	0	~	0	--
AMMONIA (NH ₃) ppm	5131 BRANDON, ASSIN. COMMUN. COLLEGE	0.01	4	0.8	--	--	3	--	--	--
SOILING INDEX (COH) COH Units	9118 WINNIPEG, SCOTIA & JEFFERSON	0	3	0.3	--	0	--	0	--	--
	9119 WINNIPEG, 65 ELLEN STREET	0.1	3.6	0.7	--	29	--	0	--	--

Δ averaged over 8 hours * denotes company supplied data -- no guideline or objective
 ~ numerous exceedences of the 24 hour MDL and MAL which are currently under review

Table 4a

Manitoba Ambient Air Quality Data - 1995 Annual Pollutant Summary –
Particulate Matter Monitoring (PM₁₀)

POLLUTANT	STATION NUMBER & LOCATION	ANNUAL ARITH/ GEO MEAN	MAXIMUM DATA VALUES 24/1-HR	# OF SAMPLES ABOVE M.D.L.		# OF SAMPLES ABOVE M.A.L.		# OF SAMPLES ABOVE M.T.L.	
				1-HR	24-HR	1-HR	24-HR	1-HR	24-HR
INHALABLE PARTICULATE (PM ₁₀)	7251 ¹	FLIN FLON, 143 MAIN STREET	43 / 34	221 / -	--	--	--	--	--
	7284 ¹	FLIN FLON, RUTH BETTS							
	7285 ¹	FLIN FLON, CENTOBA/SEWAGE PLANT	17.8 / -	89.0 / 248.8	--	--	--	--	
	9118 ⁴	WINNIPEG, SCOTIA & JEFFERSON							
	9119 ⁴	WINNIPEG, 65 ELLEN STREET							
9119 ¹	WINNIPEG, 65 ELLEN STREET	20.9 / 18.0	49 / -	--	--	--	--		
LEAD (Pb)	7251 ¹	FLIN FLON, 143 MAIN STREET	0.47 / 0.17	3.27 / -	--	--	--	0	--
	7284 ¹	FLIN FLON, RUTH BETTS							
SULFATES (SO ₄ ²⁻)	7251 ¹	FLIN FLON, 143 MAIN STREET	3.56 / 2.49	26.97 / -	--	--	--	--	--
	7284 ¹	FLIN FLON, RUTH BETTS							
	7285 ¹	FLIN FLON, CENTOBA/SEWAGE PLANT							
NITRATES (NO ₃ ⁻)	7251 ¹	FLIN FLON, 143 MAIN STREET	0.13 / 0.08	1.22 / -	--	--	--	--	--
	7284 ¹	FLIN FLON, RUTH BETTS							
	7285 ¹	FLIN FLON, CENTOBA/SEWAGE PLANT							
ARSENIC (As)	7251 ¹	FLIN FLON, 143 MAIN STREET	0.064 / 0.024	0.604 / -	--	--	--	--	--
	7284 ¹	FLIN FLON, RUTH BETTS							
	7285 ¹	FLIN FLON, CENTOBA/SEWAGE PLANT							

Notes:

All Concentration units for the above Table 4a are in ug/m³.^a - ARITHMETIC MEAN^g - GEOMETRIC MEAN

-- no guideline or objective

1 - 24 Hour sample collected every six days according to NAPS schedule

2 - 24 Hour sample collected every three days, synchronized with the NAPS schedule

3 - 3 additional samples collected every NAPS cycle

4 - real-time continuous monitoring

Table 4b Manitoba Ambient Air Quality Data - 1995 Annual Pollutant Summary – Particulate Matter Monitoring (TSP)

POLLUTANT	STATION NUMBER & LOCATION	ANNUAL ARITH/ GEO MEAN	MAXIMUM DATA VALUES 24-HR	# OF SAMPLES ABOVE M.D.L.		# OF SAMPLES ABOVE M.A.L.		# OF SAMPLES ABOVE M.T.L.	
				1-HR	24-HR	1-HR	24-HR	1-HR	24-HR
TOTAL SUSPENDED PARTICULATE (TSP)	7251 ² FLIN FLON, 143 MAIN STREET	62 / 44	367 / -	--	--	--	14	--	0
	7284 ¹ FLIN FLON, RUTH BETTS	38 / 24	176 / -	--	--	--	4	--	0
	7285 ¹ FLIN FLON, CENTOBA/SEWAGE PLANT	27 - 18	140 / -	--	--	--	1	--	0
	9118 ¹ WINNIPEG, 299 SCOTIA STREET	33 / 28	114 / -	--	--	--	0	--	0
	9119 ^{1,3} WINNIPEG, 65 ELLEN STREET	50 / 41	202 / -	--	--	--	14	--	0
9201 ¹ BRANDON, 1104 PRINCESS AVENUE	36 / 31	96 / -	--	--	--	0	--	0	
LEAD (Pb)	7251 ² FLIN FLON, 143 MAIN STREET	0.47 / 0.15	4.92 / -	--	--	--	0	--	--
	7284 ¹ FLIN FLON, RUTH BETTS	0.16 / 0.06	1.13 / -	--	--	--	0	--	--
	7285 ¹ FLIN FLON, CENTOBA/SEWAGE PLANT	0.11 / 0.04	1.75 / -	--	--	--	0	--	--
	9118 ¹ WINNIPEG, 299 SCOTIA STREET	0.03 / 0.03	0.04 / -	--	--	--	0	--	--
	9119 ¹ WINNIPEG, 65 ELLEN STREET	0.04 / 0.04	0.13 / -	--	--	--	0	--	--
9201 ¹ BRANDON, 1104 PRINCESS AVENUE	0.03 / 0.03	0.04 / -	--	--	--	0	--	--	
SULFATES (SO4=)	7251 ² FLIN FLON, 143 MAIN STREET	4.80 / 3.19	34.34 / -	--	--	--	--	--	--
	9118 ¹ WINNIPEG, 299 SCOTIA STREET	1.88 / 1.59	6.02 / -	--	--	--	--	--	--
	9119 ¹ WINNIPEG, 65 ELLEN STREET	1.97 / 1.70	6.53 / -	--	--	--	--	--	--
	9201 ¹ BRANDON, 1104 PRINCESS AVENUE	1.61 / 1.40	4.12 / -	--	--	--	--	--	--
NITRATES (NO3-)	7251 ² FLIN FLON, 143 MAIN STREET	0.17 / 0.08	1.93 / -	--	--	--	--	--	--
	9118 ¹ WINNIPEG, 299 SCOTIA STREET	0.87 / 0.37	11.13 / -	--	--	--	--	--	--
	9119 ¹ WINNIPEG, 65 ELLEN STREET	1.10 / 0.55	13.19 / -	--	--	--	--	--	--
	9201 ¹ BRANDON, 1104 PRINCESS AVENUE	1.09 / 0.54	8.63 / -	--	--	--	--	--	--
ARSENIC (As)	7251 ² FLIN FLON, 143 MAIN STREET	0.073 / 0.022	0.727 / -	--	--	--	--	--	--
	7284 ¹ FLIN FLON, RUTH BETTS	0.022 / 0.014	0.148 / -	--	--	--	--	--	--
	7285 ¹ FLIN FLON, CENTOBA/SEWAGE PLANT	0.015 / 0.014	0.120 / -	--	--	--	--	--	--
CADMIUM (Cd)	7251 ² FLIN FLON, 143 MAIN STREET	0.090 / 0.019	1.103 / -	--	--	--	--	--	--
	7284 ¹ FLIN FLON, RUTH BETTS	0.025 / 0.009	0.247 / -	--	--	--	--	--	--
	7285 ¹ FLIN FLON, CENTOBA/SEWAGE PLANT	0.018 / 0.006	0.427 / -	--	--	--	--	--	--
COPPER (Cu)	7251 ² FLIN FLON, 143 MAIN STREET	1.047 / 0.493	7.008 / -	--	--	--	--	--	--
	7284 ¹ FLIN FLON, RUTH BETTS	0.686 / 0.524	3.181 / -	--	--	--	--	--	--
	7285 ¹ FLIN FLON, CENTOBA/SEWAGE PLANT	0.796 / 0.452	3.160 / -	--	--	--	--	--	--
ZINC (Zn)	7251 ² FLIN FLON, 143 MAIN STREET	1.94 / 0.79	15.50 / -	--	--	--	--	--	--
	7284 ¹ FLIN FLON, RUTH BETTS	0.62 / 0.27	8.85 / -	--	--	--	--	--	--
	7285 ¹ FLIN FLON, CENTOBA/SEWAGE PLANT	0.34 / 0.13	4.29 / -	--	--	--	--	--	--

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 3 - 3 additional samples collected every NAPS cycle 4 - real-time continuous monitoring