

**City of Winnipeg
Water and Waste Department**

2007 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : July 25, 2007		Assiniboine River Sampling Locations				Red River Sampling Locations					
Parameter	Unit	ASSINIBOINE PARK FOOT BRIDGE	HEADINGLY BRIDGE	MAIN STREET BRIDGE	WEST PERIMETER BRIDGE	SOUTH FLOODWAY ⁴ CONTROL	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	29.1	28.9	29.0	28.2	29.6	29.3	28.7	26.8	27.3	27.1
Dissolved Oxygen	mg/L	7.2	7.3	7.1	7.5	6.6	6.4	6.4	6.9	6.9	7.7
Oxygen Saturation ²	%	95	96	94	97	88	85	84	87	88	98
pH	units	8.47	8.48	8.44	8.48	8.12	8.10	8.07	8.23	8.23	8.21
Total Solids	mg/L	803	783	843	800	773	703	740	767	713	663
Total Suspended Solids	mg/L	209	189	223	190	258	195	196	200	154	82
Turbidity	n.t.u.	89	99	118	103	166	127	125	132	105	66
Total Organic Carbon	mg/L	10	9	8	9	11	13	12	11	12	11
Chlorophyll a	ug/L	54	65	51	59	9	7	9	18	21	18
Ammonia Nitrogen	mg/L N	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.06	<0.05	0.06	0.07
Nitrate Nitrogen	mg/L N	0.32	0.25	0.34	0.26	0.43	0.45	0.48	0.44	0.43	0.57
Total Kheldahl Nitrogen	mg/L N	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Nitrogen ²	mg/L N	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Phosphate	mg/L N	0.20	0.16	0.13	0.17	0.22	0.23	0.22	0.23	0.21	0.24
Total Phosphorus	mg/L P	0.3	<0.3	0.3	<0.3	0.4	0.4	0.4	0.3	0.4	0.4
Eshcerichia Coliform ³	col./100 mL	22	33	49	17	8	49	22	33	33	27
Fecal Coliform ³	col./100 mL	49	110	49	33	17	79	79	240	79	79

Weather Conditions during monitoring: Winds S at 30 km/hr with 1 % cloud cover. Average air temperature of 30 Celcius. Precipitation: nil.

Notes: 1) LIMS Reference No: 17718
 2) Calculated values
 3) Analyzed by contract laboratory.
 All other parameters analysed by the Analytical Services Branch of Environmental Standards Division.

File No: 040-14-09-03-00