

**City of Winnipeg
Water and Waste Department**

2008 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : May 28, 2008		Assiniboine River Sampling Locations				Red River Sampling Locations					
Parameter	Unit	ASSINIBOINE PARK FOOT BRIDGE	HEADINGLY BRIDGE	MAIN STREET BRIDGE	WEST PERIMETER BRIDGE	SOUTH FLOODWAY CONTROL ⁴	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	17.1	17.1	17.1	16.8	17.8	18.1	17.2	17.3	16.2	16.5
Dissolved Oxygen	mg/L	10.8	10.9	10.2	11.3	8.7	8.5	8.4	9.0	9.3	9.4
Oxygen Saturation ²	%	113	114	106	117	92	91	88	94	95	97
pH	units	8.75	8.75	8.75	8.76	8.39	8.39	8.34	8.40	8.39	8.39
Total Solids	mg/L	700	691	677	683	634	609	609	646	634	600
Total Suspended Solids	mg/L	96	107	64	118	86	65	76	56	64	44
Turbidity	n.t.u.	42	43	31	44	53	39	46	41	47	31
Total Organic Carbon	mg/L	9	9	9	9	11	10	11	10	10	11
Chlorophyll a	ug/L	51	56	52	65	16	19	19	25	26	33
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.004	0.072	0.124	0.056	0.326	0.234
Nitrate Nitrogen	mg/L N	0.021	0.036	0.027	0.036	0.043	0.087	0.087	0.078	0.108	0.170
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.06	0.06	0.05	0.05	0.05	0.07	0.08	0.08	0.09	0.09
Total Phosphorus	mg/L P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.32	<0.30
Escherichia Coliform ³	colonies/100 mL	36	36	360	36	23	23	36	360	360	36
Fecal Coliform ³	colonies/100 mL	36	36	360	36	23	23	360	360	360	36

Weather Conditions during monitoring: Winds SE at 18 km/hr with 80 % cloud cover. Average air temperature during survey at 19 °C

- Notes:
- 1) LIMS Reference No: 20122
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 734.6 ft

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