

**City of Winnipeg
Water and Waste Department**

2007 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : May 3, 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	14.6	14.4	14.3	14.8	16.1	15.9	15.7	15.2	14.3	14.6
Dissolved Oxygen	mg/L	10.3	10.3	10.3	10.2	9.0	9.0	8.7	9.4	9.6	10.1
Oxygen Saturation ²	%	102	101	101	101	92	91	88	94	94	100
pH	units	8.3	8.2	8.3	8.3	8.1	8.1	8.1	8.2	8.1	8.1
Total Solids	mg/L	751	751	751	751	751	751	751	751	751	751
Total Suspended Solids	mg/L	423	196	200	209	QC Fail	424	500	404	400	386
Turbidity	n.t.u.	na	na	na	na	na	na	na	na	na	na
Total Organic Carbon	mg/L	na	na	na	na	na	na	na	na	na	na
Chlorophyll a	ug/L	14	18	14	16	14	11	28	14	QC Fail	9
Ammonia Nitrogen	mg/L N	0.06	0.10	0.07	0.08	0.06	0.08	0.18	0.20	0.12	0.16
Nitrate Nitrogen	mg/L N	0.60	<0.03	0.60	<0.03	0.71	0.82	<0.03	<0.03	0.84	0.83
Total Kheldahl Nitrogen	mg/L N	0.7	0.1	0.7	0.1	0.8	0.90	0.18	0.20	0.96	0.99
Total Nitrogen ²	mg/L N	1.26	0.10	1.27	0.08	1.48	1.72	0.18	0.20	1.80	1.82
Phosphate	mg/L N	0.12	0.11	0.11	0.11	0.08	0.09	0.11	0.11	0.11	0.12
Total Phosphorus	mg/L P	0.4	0.3	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.5
Eshcherichia Coliform ³	col./100 mL	49	95	110	33	8	14	7	170	49	220
Fecal Coliform ³	col./100 mL	49	95	110	33	8	14	7	0	49	220

- Notes:
- 1) LIMS Reference No: 16930
 - 2) Calculated values
 - 3) Analyzed by contract laboratory and results reported as geometric means from duplicate samples.
All other parameters analysed by the Analytical Services Branch of Environmental Standards Division.
 - 4) Red River elevation north of South Floodway Control Gates: 225.07 feet

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