

**City of Winnipeg  
Water and Waste Department**

**2008 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : October 30, 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 <sup>4</sup>	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	6.0	5.0	4.7	5.4	6.9	6.8	6.5	6.3	6.5	7.4
Dissolved Oxygen	mg/L	13.6	13.5	13.3	13.5	12.2	11.8	11.7	11.7	12.1	12.8
Oxygen Saturation <sup>2</sup>	%	109	106	103	107	100	97	95	95	98	106
pH	units	8.44	8.33	8.33	8.42	8.09	7.99	7.96	8.07	7.82	7.79
Total Solids	mg/L	580	600	496	500	596	620	564	596	604	544
Total Suspended Solids	mg/L	44	44	25	47	110	124	124	120	148	162
Turbidity	n.t.u.	29	32	18	33	96	101	109	98	113	11
Total Organic Carbon	mg/L	10	10	11	10	12	13	13	12	14	13
Chlorophyll a	ug/L	8	7	7	6	4	5	4	7	4	4
Ammonia Nitrogen	mg/L N	0.023	0.008	0.019	0.023	0.017	0.035	0.067	0.062	0.115	0.166
Nitrate Nitrogen	mg/L N	0.688	0.584	0.645	0.652	0.471	0.460	0.463	0.482	0.514	0.556
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 <sup>2</sup>	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	0.15	0.13	0.14	0.14	0.16	0.17	0.18	0.17	0.19	0.20
Total Phosphorus	mg/L P	0.50	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	0.30
Escherichia Coliform <sup>3</sup>	colonies/100 mL	33	13	79	2	21	25	220	110	230	170
Fecal Coliform <sup>3</sup>	colonies/100 mL	49	13	130	23	26	25	790	170	230	170

Weather Conditions during monitoring: Winds W at 25 km/hr with 7% cloud cover. Average air temperature during survey at 12°C

- Notes:
- 1) LIMS Reference No: 21522
  - 2) Calculated values
  - 3) Analyzed by contract laboratory.
  - 4) Red River elevation at South Floodway Control Gates: 733.5 ft

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Date Approved: 14-Nov-08

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