

**City of Winnipeg  
Water and Waste Department**

**2008 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : June 12, 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	15.0	15.1	15.2	14.9	17.1	17.3	17.2	15.9	15.9	16.2
Dissolved Oxygen	mg/L	9.1	9.0	8.8	9.1	8.6	8.5	8.4	8.5	8.3	9.1
Oxygen Saturation <sup>2</sup>	%	91	90	88	90	90	89	88	86	84	93
pH	units	8.59	8.58	8.59	8.60	8.51	8.48	8.40	8.43	8.34	8.41
Total Solids	mg/L	714	706	634	691	777	743	749	663	643	666
Total Suspended Solids	mg/L	139	152	116	139	305	270	264	190	166	158
Turbidity	n.t.u.	77	41	61	50	192	166	171	149	93	93
Total Organic Carbon	mg/L	13	14	13	13	12	11	13	14	13	10
Chlorophyll a	ug/L	45	47	45	54	63	66	68	52	54	73
Ammonia Nitrogen	mg/L N	0.019	12.81	0.039	0.003	0.016	0.300	13.95	0.037	0.231	0.151
Nitrate Nitrogen	mg/L N	0.331	0.292	0.361	0.263	0.761	1.159	1.094	1.220	1.211	0.832
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	0.10	0.08	0.10	0.08	0.06	0.08	0.07	0.08	0.12	0.11
Total Phosphorus	mg/L P	<0.30	<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	3600	36	9200	360	230	920	1500	9200	2300	3600
Fecal Coliform <sup>3</sup>	colonies/100 mL	3600	36	9200	360	230	920	1500	9200	2300	3600

Weather Conditions during monitoring: Winds S at 33 km/hr with 73 % cloud cover and 14.5 mm of precipitation. Average air temperature during survey at 14.8 °C

- Notes:
- 1) LIMS Reference No: 20248
  - 2) Calculated values
  - 3) Analyzed by contract laboratory.
  - 4) Red River elevation at South Floodway Control Gates: 734.3 ft

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