

**City of Winnipeg  
Water and Waste Department**

**2011 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : November 15, 2011		Assiniboine River Sampling Locations				Red River Sampling Locations					
Parameter	Unit	HEADINGLY BRIDGE	WEST PERIMETER BRIDGE	ASSINIBOINE PARK FOOT BRIDGE	MAIN STREET BRIDGE	ST.ADOLPHE PIERRE DELORME BRIDGE	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	1.8	NS	1.8	1.6	2.7	2.9	3.1	2.4	2.3	2.6
Dissolved Oxygen	mg/L	15.4	NS	15.4	15.4	15.8	15.5	15.1	15.0	15.1	15.9
Oxygen Saturation <sup>2</sup>	%	110	NS	110	110	116	115	112	109	110	117
pH	units	8.34	NS	8.33	8.34	8.47	8.43	8.41	8.36	8.33	8.28
Total Solids	mg/L	948	NS	984	940	548	624	564	708	700	664
Total Suspended Solids	mg/L	119	NS	117	122	32	29	26	63	51	60
Turbidity	n.t.u.	66.5	NS	63.0	65.0	19.4	19.4	18.2	38.8	31.8	38.9
Total Organic Carbon	mg/L	19	NS	14	15	14	15	18	15	15	13
Chlorophyll a	ug/L	31	NS	45	33	25	32	34	36	11	38
Ammonia Nitrogen	mg/L N	0.023	NS	<0.003	<0.003	0.011	0.189	0.190	0.050	0.336	0.364
Nitrate Nitrogen	mg/L N	0.420	NS	0.405	0.408	0.109	0.101	0.126	0.244	0.238	0.268
Total Kjeldahl Nitrogen	mg/L N	<2.0	NS	<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	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.12	NS	0.12	0.11	0.06	0.08	0.09	0.10	0.13	0.13
Total Phosphorus	mg/L P	<0.30	NS	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Escherichia Coliform <sup>3</sup>	colonies/100 mL	11	NS	11	43	<3	43	23	43	150	150
Fecal Coliform <sup>3</sup>	colonies/100 mL	23	NS	21	43	<3	43	23	43	430	150

Weather Conditions during monitoring: Winds WNW at 18 km/hr with 88 % cloud cover. Average air temperature during survey at -2 C

- Notes:
- 1) LIMS Reference No: 31270
  - 2) Calculated values
  - 3) Analyzed by contract laboratory.
  - 4) Red River elevation at South Floodway Control Gates: 730.4ft.
  - 5) There are no samples at the West Perimeter Bridge due to construction.

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