

**City of Winnipeg  
Water and Waste Department**

**2011 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : August 31, 2011		Assiniboine River Sampling Locations				Red River Sampling Locations					
Parameter	Unit	HEADINGLY BRIDGE	WEST PERIMETER BRIDGE	ASSINIBOINE PARK FOOT BRIDGE	MAIN STREET BRIDGE	SOUTH FLOODWAY CONTROL <sup>4</sup>	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	21.6	NS	21.7	21.4	NS	22.4	22.1	21.8	21.7	21.9
Dissolved Oxygen	mg/L	8.0	NS	8.2	8.1	NS	7.6	7.5	7.7	7.8	8.4
Oxygen Saturation <sup>2</sup>	%	92	NS	94	92	NS	88	87	88	89	97
pH	units	8.23	NS	8.26	8.27	NS	8.12	8.13	8.27	8.28	8.23
Total Solids	mg/L	908	NS	924	936	NS	992	952	980	936	972
Total Suspended Solids	mg/L	176	NS	184	188	NS	274	260	248	234	234
Turbidity	n.t.u.	107	NS	101	109	NS	174	160	141	151	150
Total Organic Carbon	mg/L	18	NS	17	18	NS	14	13	15	15	15
Chlorophyll a	ug/L	21	NS	14	4	NS	2	1	2	1	1
Ammonia Nitrogen	mg/L N	<0.003	NS	<0.003	<0.003	NS	0.014	0.037	0.036	0.047	0.094
Nitrate Nitrogen	mg/L N	0.211	NS	0.214	0.216	NS	0.368	0.382	0.272	0.330	0.390
Total Kjeldahl Nitrogen	mg/L N	<2.0	NS	<2.0	<2.0	NS	<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	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.30	NS	0.30	0.29	NS	0.27	0.28	0.31	0.29	0.31
Total Phosphorus	mg/L P	0.60	NS	0.60	0.50	NS	0.60	0.60	0.60	0.60	0.60
Escherichia Coliform <sup>3</sup>	colonies/100 mL	43	NS	23	93	NS	43	75	93	43	43
Fecal Coliform <sup>3</sup>	colonies/100 mL	43	NS	23	93	NS	43	75	93	43	43

Weather Conditions during monitoring: Winds South at 8 km/hr with 100 % cloud cover. Average air temperature during survey at 19.3 C

- Notes:
- 1) LIMS Reference No: 30643
  - 2) Calculated values
  - 3) Analyzed by contract laboratory.
  - 4) Red River elevation at South Floodway Control Gates: 738.7ft.
  - 5) There are no samples at the West Perimeter Bridge or the South Floodway Control Gates due to construction.

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