

**City of Winnipeg**  
**Water and Waste Department**

**2011 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : September 28, 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	15.7	NS	15.8	14.9	NS	15.3	14.8	14.7	15.0	14.8
Dissolved Oxygen	mg/L	9.6	NS	9.8	9.8	NS	10.0	9.8	9.7	9.9	10.8
Oxygen Saturation <sup>2</sup>	%	97	NS	99	97	NS	100	97	96	99	107
pH	units	8.29	NS	8.32	8.31	NS	8.24	8.23	8.26	8.18	8.02
Total Solids	mg/L	1120	NS	1040	1070	NS	784	720	864	824	796
Total Suspended Solids	mg/L	324	NS	288	320	NS	70	56	124	118	84
Turbidity	n.t.u.	149	NS	149	159	NS	47	38	74	63	51
Total Organic Carbon	mg/L	16	NS	15	15	NS	12	12	13	13	13
Chlorophyll a	ug/L	25	NS	26	23	NS	16	12	19	18	14
Ammonia Nitrogen	mg/L N	0.061	NS	0.368	0.041	NS	0.114	0.141	0.072	0.172	0.212
Nitrate Nitrogen	mg/L N	0.321	NS	0.345	0.354	NS	1.230	1.320	0.755	0.461	0.495
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	2.2	2.3	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.21	NS	0.25	0.22	NS	0.20	0.21	0.22	0.23	0.28
Total Phosphorus	mg/L P	0.70	NS	0.80	0.70	NS	0.50	0.50	0.50	0.60	0.50
Escherichia Coliform <sup>3</sup>	colonies/100 mL	23	NS	93	93	NS	230	75	930	430	430
Fecal Coliform <sup>3</sup>	colonies/100 mL	23	NS	93	93	NS	230	75	930	430	430

Weather Conditions during monitoring: Winds West at 11 km/hr with 35 % cloud cover. Average air temperature during survey at 17 C

- Notes:
- 1) LIMS Reference No: 30894
  - 2) Calculated values
  - 3) Analyzed by contract laboratory.
  - 4) Red River elevation at South Floodway Control Gates: 734ft.
  - 5) There are no samples at the West Perimeter Bridge or the South Floodway Control Gates due to construction.

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