

**City of Winnipeg
Water and Waste Department**

2011 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : October 12, 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 ⁴	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	14.4	NS	14.7	13.7	NS	15.0	15.0	14.4	14.6	15.0
Dissolved Oxygen	mg/L	10.0	NS	10.1	10.1	NS	10.7	10.5	10.1	10.1	10.2
Oxygen Saturation ²	%	98	NS	100	98	NS	107	105	99	100	102
pH	units	8.40	NS	8.36	8.23	NS	8.47	8.44	8.29	8.28	7.89
Total Solids	mg/L	976	NS	960	952	NS	664	664	764	756	844
Total Suspended Solids	mg/L	202	NS	200	200	NS	18	8	53	39	16
Turbidity	n.t.u.	103	NS	100	113	NS	17	14	38	21	19
Total Organic Carbon	mg/L	20	NS	20	19	NS	16	16	17	21	18
Chlorophyll a	ug/L	25	NS	7	40	NS	16	11	4	4	32
Ammonia Nitrogen	mg/L N	0.010	NS	0.024	0.023	NS	0.211	0.219	0.210	0.282	0.179
Nitrate Nitrogen	mg/L N	0.367	NS	0.381	0.398	NS	0.205	0.233	0.333	0.323	0.362
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 ²	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	0.15	NS	0.15	0.16	NS	0.16	0.17	0.17	0.23	0.19
Total Phosphorus	mg/L P	0.50	NS	0.70	0.60	NS	0.50	0.40	0.50	0.50	0.40
Escherichia Coliform ³	colonies/100 mL	430	NS	230	150	NS	2300	430	430	230	430
Fecal Coliform ³	colonies/100 mL	430	NS	230	150	NS	2300	430	430	230	430

Weather Conditions during monitoring: Winds east at 4 km/hr with 75 % cloud cover. Average air temperature during survey at 15.1 C

- Notes:
- 1) LIMS Reference No: 31008
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 734.4ft.
 - 5) There are no samples at the West Perimeter Bridge or the South Floodway Control Gates due to construction.

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