

**City of Winnipeg
Water and Waste Department**

2011 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : August 3, 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	24.8	NS	25.0	25.8	NS	25.7	24.7	25.1	24.8	24.6
Dissolved Oxygen	mg/L	6.7	NS	6.8	6.5	NS	6.6	7.1	6.9	7.1	7.1
Oxygen Saturation ²	%	63	NS	64	61	NS	63	68	65	67	68
pH	units	8.14	NS	8.16	8.04	NS	8.05	8.16	8.09	8.09	8.16
Total Solids	mg/L	832	NS	868	816	NS	832	856	808	836	836
Total Suspended Solids	mg/L	182	NS	176	182	NS	168	174	170	176	170
Turbidity	n.t.u.	104	NS	105	104	NS	108	106	110	120	118
Total Organic Carbon	mg/L	15	NS	15	14	NS	12	12	13	13	13
Chlorophyll a	ug/L	7	NS	11	12	NS	2	4	9	7	9
Ammonia Nitrogen	mg/L N	0.027	NS	0.018	0.016	NS	0.012	0.025	0.022	0.035	0.042
Nitrate Nitrogen	mg/L N	0.226	NS	0.232	0.235	NS	0.443	0.453	0.365	0.370	0.401
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	0.28	NS	0.27	0.27	NS	0.26	0.27	0.27	0.27	0.27
Total Phosphorus	mg/L P	0.40	NS	0.50	0.50	NS	0.50	0.50	0.50	0.50	0.50
Escherichia Coliform ³	colonies/100 mL	430	NS	230	43	NS	21	750	230	230	23
Fecal Coliform ³	colonies/100 mL	430	NS	230	43	NS	230	430	230	230	75

Weather Conditions during monitoring: Winds S at 29 km/hr with 68% cloud cover and 0.6 mm of precipitation. Average air temperature during survey at 22.6°C.

- Notes:
- 1) LIMS Reference No: 30351
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: No result due to technician error.
 - 5) There are no samples at the West Perimeter Bridge or the South Floodway Control Gates due to construction.

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