

City of Winnipeg
Water and Waste Department

2011 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : July 20, 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	26.3	NS	26.5	26.1	NS	26.5	26.1	26.1	26.0	26.0
Dissolved Oxygen	mg/L	6.5	NS	6.8	6.8	NS	6.3	6.1	6.3	6.5	6.7
Oxygen Saturation ²	%	61	NS	64	63	NS	60	58	60	61	64
pH	units	8.16	NS	8.16	8.19	NS	8.08	8.07	8.12	8.10	8.09
Total Solids	mg/L	848	NS	840	864	NS	832	884	852	844	852
Total Suspended Solids	mg/L	178	NS	182	194	NS	170	168	162	172	172
Turbidity	n.t.u.	112	NS	106	119	NS	97.9	106	109	105	111
Total Organic Carbon	mg/L	17	NS	17	17	NS	14	14	15	15	16
Chlorophyll a	ug/L	<1	NS	4	18	NS	7	7	4	11	18
Ammonia Nitrogen	mg/L N	0.129	NS	0.024	0.025	NS	0.021	0.052	0.029	0.061	0.062
Nitrate Nitrogen	mg/L N	0.290	NS	0.288	0.294	NS	0.794	0.837	0.597	0.594	0.627
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	0.28	0.28	NS	0.20	0.20	0.24	0.24	0.24
Total Phosphorus	mg/L P	0.50	NS	0.50	0.50	NS	0.40	0.40	0.40	0.40	0.40
Escherichia Coliform ³	colonies/100 mL	23	NS	43	43	NS	150	75	43	75	38
Fecal Coliform ³	colonies/100 mL	23	NS	43	43	NS	150	150	43	150	38

Weather Conditions during monitoring: Winds SE at 11 km/hr with 100% cloud cover and 5.0 mm of precipitation. Average air temperature during survey at 26.6 °C.

- Notes:
- 1) LIMS Reference No: 30203
 - 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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