

**City of Winnipeg
Water and Waste Department**

2011 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : August 17, 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	24.2	NS	24.1	23.3	NS	24.3	22.7	23.0	23.9	22.9
Dissolved Oxygen	mg/L	6.6	NS	6.9	7.1	NS	6.7	7.1	6.9	6.7	7.2
Oxygen Saturation ²	%	80	NS	83	84	NS	81	83	81	80	84
pH	units	8.28	NS	8.32	8.34	NS	8.24	8.27	8.26	8.22	8.33
Total Solids	mg/L	980	NS	924	996	NS	876	836	860	892	912
Total Suspended Solids	mg/L	222	NS	220	224	NS	214	220	220	216	272
Turbidity	n.t.u.	131	NS	130	127	NS	138	131	131	136	138
Total Organic Carbon	mg/L	19	NS	18	20	NS	16	14	14	14	15
Chlorophyll a	ug/L	28	NS	11	14	NS	2	5	2	4	5
Ammonia Nitrogen	mg/L N	0.033	NS	0.023	0.051	NS	0.028	0.066	0.072	0.040	0.031
Nitrate Nitrogen	mg/L N	0.292	NS	0.293	0.298	NS	0.353	0.395	0.365	0.378	0.341
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	0.34	NS	0.34	0.35	NS	0.28	0.35	0.32	0.30	0.30
Total Phosphorus	mg/L P	0.80	NS	0.80	0.70	NS	0.70	0.60	0.60	0.70	0.60
Escherichia Coliform ³	colonies/100 mL	9	NS	930	430	NS	9	210	43	43	93
Fecal Coliform ³	colonies/100 mL	15	NS	930	430	NS	43	210	93	43	93

Weather Conditions during monitoring: Winds W at 29 km/hr with no cloud cover. Average air temperature during survey at 22.6°C.

- Notes:
- 1) LIMS Reference No: 30467
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 740.1 ft
 - 5) There are no samples at the West Perimeter Bridge or the South Floodway Control Gates due to construction.

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