

**City of Winnipeg
Water and Waste Department**

2010 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : May 13, 2010		Assiniboine River Sampling Locations				Red River Sampling Locations					
Parameter	Unit	ASSINIBOINE PARK FOOT BRIDGE	HEADINGLY BRIDGE	MAIN STREET BRIDGE	WEST PERIMETER BRIDGE	SOUTH FLOODWAY CONTROL ⁴	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	12.5	12.3	11.3	12.7	NS	12.5	12.4	11.8	11.8	12.0
Dissolved Oxygen	mg/L	10.4	10.5	10.5	10.5	NS	9.7	9.8	9.9	10.0	10.4
Oxygen Saturation ²	%	98	98	96	99	NS	91	92	92	93	97
pH	units	8.49	8.48	8.45	8.45	NS	8.24	8.22	8.30	8.30	8.25
Total Solids	mg/L	900	912	868	888	NS	780	756	828	844	820
Total Suspended Solids	mg/L	177	183	167	183	NS	171	169	194	210	208
Turbidity	n.t.u.	8	8	8	8	NS	10	10	11	11	13
Total Organic Carbon	mg/L	11	11	12	11	NS	12	11	12	12	12
Chlorophyll a	ug/L	NR	39	37	47	NS	7	7	12	12	12
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	NS	0.049	0.050	0.043	0.065	0.084
Nitrate Nitrogen	mg/L N	0.217	0.156	0.259	0.187	NS	0.581	0.626	0.599	0.615	0.711
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	<2.0	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.11	0.10	0.11	0.10	NS	0.13	0.14	0.13	0.13	0.14
Total Phosphorus	mg/L P	0.40	0.40	0.40	0.30	NS	0.40	0.40	0.40	0.40	0.40
Escherichia Coliform ³	colonies/100 mL	2	13	49	7	NS	22	49	110	49	49
Fecal Coliform ³	colonies/100 mL	2	13	49	7	NS	22	49	140	49	70

Weather Conditions during monitoring: Winds SSE at 14 km/hr with 90% cloud cover. Average air temperature during survey at 11.5°C

- Notes:
- 1) LIMS Reference No: 26143
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: No result due to a technician error.
 - 5) There is no sample at the South Floodway Control Gates due to construction.
 - 6) There is no chlorophyll result for the Assiniboine Park Foot Bridge due to a technician error.

Report Compiled By: J. Jones
Compliance Reporting Technician

Approved in LIMS By: S. Fletcher
Supervisor of Analytical Services

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