

**City of Winnipeg
Water and Waste Department**

2010 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : July 22, 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	24.0	23.8	23.2	NS	NS	24.6	24.4	23.7	23.6	23.6
Dissolved Oxygen	mg/L	7.4	7.2	7.4	NS	NS	7.0	6.7	6.9	6.7	7.4
Oxygen Saturation ²	%	89	86	87	NS	NS	85	81	82	80	88
pH	units	8.22	8.21	8.25	NS	NS	8.18	8.14	8.19	8.15	8.16
Total Solids	mg/L	980	968	1110	NS	NS	828	804	964	940	952
Total Suspended Solids	mg/L	248	240	320	NS	NS	236	252	258	268	246
Turbidity	n.t.u.	148	135	177	NS	NS	167	188	171	165	164
Total Organic Carbon	mg/L	15	15	14	NS	NS	13	13	14	14	14
Chlorophyll a	ug/L	2	5	5	NS	NS	5	5	4	21	5
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	NS	NS	<0.003	<0.003	<0.003	<0.003	<0.003
Nitrate Nitrogen	mg/L N	0.225	0.255	0.236	NS	NS	0.469	0.529	0.395	0.432	0.476
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	<2.0	NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	<2.0	<2.0	NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.18	0.19	0.18	NS	NS	0.18	0.18	0.18	0.19	0.20
Total Phosphorus	mg/L P	0.50	0.50	0.60	NS	NS	0.50	0.60	0.60	0.60	0.60
Escherichia Coliform ³	colonies/100 mL	15	93	43	NS	NS	230	75	210	230	430
Fecal Coliform ³	colonies/100 mL	15	93	43	NS	NS	230	75	210	230	430

Weather Conditions during monitoring: Winds S at 9 km/hr with 5% cloud cover. Average air temperature during survey at 23.5°C

- Notes:
- 1) LIMS Reference No: 26822
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 735.2 ft
 - 5) There are no samples at the West Perimeter Bridge or the South Floodway Control Gates due to construction.

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