

**City of Winnipeg
Water and Waste Department**

2012 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : August 8, 2012		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	SOUTH PERIMETER BRIDGE	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	°C	23.4	23.6	23.2	22.4	22.8	24.8	24.5	23.2	22.7	22.7	22.4
Dissolved Oxygen	mg/L	8.5	8.5	8.4	8.2	9.4	10.3	10.1	8.9	8.4	8.6	8.6
Oxygen Saturation ²	%	101	101	100	96	110	126	122	105	98	101	100
pH	units	8.58	8.59	8.60	8.59	8.80	8.92	8.84	8.82	8.66	8.65	8.59
Total Solids	mg/L	996	1020	1000	1010	724	672	730	730	858	834	880
Total Suspended Solids	mg/L	117	119	111	111	45	24	36	46	49	31	28
Turbidity	n.t.u.	55	53	61	66	37	25	33	40	32	23	26
Total Organic Carbon	mg/L	15	15	15	14	11	10	10	10	13	15	15
Chlorophyll a	ug/L	28	40	28	21	26	25	45	39	29	35	33
Ammonia Nitrogen	mg/L N	<0.003	0.022	<0.003	0.069	<0.003	0.048	0.298	0.113	0.036	0.207	0.197
Nitrate Nitrogen	mg/L N	0.462	0.469	0.478	0.506	0.234	0.105	0.164	0.136	0.353	0.377	0.498
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.13	0.14	0.14	0.14	0.10	0.08	0.13	0.10	0.13	0.16	0.18
Total Phosphorus	mg/L P	0.30	<0.30	0.30	0.40	<0.30	0.30	0.40	0.40	0.40	0.40	0.40
Escherichia Coliform ³	colonies/100 mL	43	93	93	43	4	23	29	9	93	150	150
Fecal Coliform ³	colonies/100 mL	43	93	93	43	9	23	230	43	230	430	930

Weather Conditions during monitoring: Winds SW at 7 km/hr with 20 % cloud cover. Average air temperature during survey at 22.5°C.

- Notes:
- 1) LIMS Reference No: 33511
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates 727.6ft.

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