

**City of Winnipeg
Water and Waste Department**

2012 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : September 5, 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	19.5	20.4	20.0	19.7	20.1	23.7	20.8	21.3	20.6	20.1	20.1
Dissolved Oxygen	mg/L	9.7	9.6	9.2	8.9	8.3	8.0	7.9	8.2	8.4	8.0	8.8
Oxygen Saturation ²	%	106	107	102	97	92	95	89	93	94	89	98
pH	units	8.69	8.66	8.65	8.64	8.76	8.38	8.66	8.64	8.65	8.47	8.47
Total Solids	mg/L	890	900	920	866	730	704	670	630	782	784	752
Total Suspended Solids	mg/L	95	97	91	64	53	46	40	34	23	28	36
Turbidity	n.t.u.	53	61	60	43	49	46	33	30	18	22	27
Total Organic Carbon	mg/L	64	16	17	15	12	12	11	12	14	14	13
Chlorophyll a	ug/L	58	64	69	51	16	17	36	33	46	48	52
Ammonia Nitrogen	mg/L N	0.010	<0.003	<0.003	<0.003	<0.003	0.005	0.355	0.364	0.057	0.636	0.313
Nitrate Nitrogen	mg/L N	<0.003	<0.003	<0.003	0.003	0.008	0.011	0.054	0.112	0.040	0.086	0.252
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	0.05	0.05	0.05	0.06	0.08	0.09	0.15	0.16	0.09	0.19	0.13
Total Phosphorus	mg/L P	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Escherichia Coliform ³	colonies/100 mL	23	23	23	23	7	15	23	43	43	15	21
Fecal Coliform ³	colonies/100 mL	23	23	23	23	7	43	23	43	43	43	93

Weather Conditions during monitoring: Winds WNW at 23 km/hr with 40% cloud cover. Average air temperature during survey at 17.0°C.

- Notes:
- 1) LIMS Reference No: 33775
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates 734.1 ft.

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Date Approved: 21-Sep-12

File No: 040-14-09-03-00