

**City of Winnipeg
Water and Waste Department**

2012 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : May 2, 2012		Assiniboine River Sampling Locations				Red River Sampling Locations						
Parameter	Unit	HEADINGLY BRIDGE	WEST PERIMETER BRIDGE	ASSINIBOINE PARK FOOT BRIDGE	MAIN STREET BRIDGE	ST.ADOLPHE PIERRE DELORME BRIDGE	SOUTH PERIMETER BRIDGE	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	12.9	12.9	12.9	12.1	13.3	13.2	13.0	12.1	12.1	12.0	12.0
Dissolved Oxygen	mg/L	10.8	10.9	10.9	10.8	10.1	9.9	9.8	9.6	10.1	10.5	11.1
Oxygen Saturation ²	%	103	104	104	101	97	94	93	89	94	98	103
pH	units	8.52	8.53	8.26	8.37	8.30	8.28	8.26	8.37	8.37	8.38	7.99
Total Solids	mg/L	932	972	892	940	912	936	916	868	856	860	848
Total Suspended Solids	mg/L	103	75	84	49	224	187	126	112	93	149	162
Turbidity	n.t.u.	17.4	17.6	12.6	23.2	17.7	105.0	37.5	13.1	16.5	11.1	91.0
Total Organic Carbon	mg/L	17	15	17	19	17	20	15	16	16	18	23
Chlorophyll a	ug/L	30	8	12	9	4	4	2	35	2	11	5
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	0.016	0.020	<0.003	0.079	0.088	0.088	0.143	0.182
Nitrate Nitrogen	mg/L N	0.438	0.443	0.428	0.432	2.190	2.480	2.750	2.940	1.830	1.790	1.490
Total Kjeldahl Nitrogen	mg/L N	3.0	3.0	4.0	3.0	4.0	3.0	3.0	3.0	4.0	3.0	3.0
		3.4	3.4	4.4	3.4	6.2	5.5	5.8	5.9	5.8	4.8	4.5
Total Nitrogen ²	mg/L N	3.4	3.4	4.4	3.4	6.2	5.5	5.8	5.9	5.8	4.8	4.5
Soluble Phosphorus	mg/L P	0.12	0.11	0.11	0.13	0.10	0.10	0.11	0.11	0.11	0.13	0.13
Total Phosphorus	mg/L P	0.30	0.30	<0.30	0.30	0.50	0.40	0.30	0.30	0.30	0.40	0.40
Escherichia Coliform ³	colonies/100 mL	9	9	23	23	4	9	23	23	93	93	430
Fecal Coliform ³	colonies/100 mL	9	9	23	93	4	23	23	23	93	93	430

Weather Conditions during monitoring: Winds NW at 29 km/hr with 67% cloud cover and 2.0 mm of precipitation. Average air temperature during survey at 10.7°C

- Notes:
- 1) LIMS Reference No: 32614
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 734.4ft.

Report Compiled By: K. Wazny
Compliance Reporting Technician

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

Date Approved: 14-May-12

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