

**City of Winnipeg
Water and Waste Department**

2012 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : October 31, 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	3.1	3.4	3.7	3.0	NS	4.5	4.5	4.3	3.7	3.9	3.9
Dissolved Oxygen	mg/L	15.1	15.1	15.1	15.0	NS	14.6	14.5	14.3	14.7	14.6	15.1
Oxygen Saturation ²	%	112	113	114	111	NS	113	112	110	111	111	115
pH	units	8.39	8.56	8.41	8.58	NS	8.63	8.36	8.48	8.47	8.41	8.39
Total Solids	mg/L	932	936	952	918	NS	1300	1220	1140	1020	956	964
Total Suspended Solids	mg/L	128	144	124	122	NS	46	25	20	69	39	30
Turbidity	n.t.u.	74	72	70	72	NS	37	21	17	42	26	23
Total Organic Carbon	mg/L	15	15	16	16	NS	14	15	13	14	14	13
Chlorophyll a	ug/L	30	37	37	33	NS	39	46	38	40	46	45
Ammonia Nitrogen	mg/L N	0.006	0.009	0.018	0.014	NS	0.030	0.554	0.426	0.164	0.759	0.438
Nitrate Nitrogen	mg/L N	0.261	0.240	0.251	0.246	NS	0.597	0.616	0.679	0.464	0.561	0.541
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	<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	<2.0
Soluble Phosphorus	mg/L P	0.12	0.09	0.12	0.14	NS	0.18	0.25	0.23	0.17	0.22	0.20
Total Phosphorus	mg/L P	<0.30	<0.30	<0.30	<0.30	NS	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Escherichia Coliform ³	colonies/100 mL	23	23	23	230	NS	7	23	38	150	930	230
Fecal Coliform ³	colonies/100 mL	23	23	23	230	NS	7	23	38	150	930	230

Weather Conditions during monitoring: Winds South at 17 km/hr with 100% cloud cover. Average air temperature during survey at 3.0°C.

- Notes:
- 1) LIMS Reference No: 34272
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates 728.6 ft.
 - 5) There was no sample for the South Floodway Control location due to construction.

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

Report Compiled By: K. Wazny
Compliance Reporting Technician

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

Date Approved: 14-Nov-12