

City of Winnipeg
Water and Waste Department

2011 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : October 26, 2011		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	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	°C	6.5	NS	6.4	6.1	NS	8.6	7.4	6.7	6.9	7.1
Dissolved Oxygen	mg/L	13.0	NS	13.0	13.2	NS	13.8	14.0	13.5	13.2	13.7
Oxygen Saturation ²	%	106	NS	105	106	NS	118	116	110	108	113
pH	units	8.44	NS	8.46	8.45	NS	8.63	8.72	8.57	8.50	8.65
Total Solids	mg/L	908	NS	976	972	NS	768	728	832	800	828
Total Suspended Solids	mg/L	182	NS	176	170	NS	45	42	100	88	71
Turbidity	n.t.u.	98	NS	95	101	NS	31	29	64	55	49
Total Organic Carbon	mg/L	17	NS	17	17	NS	15	17	17	16	16
Chlorophyll a	ug/L	18	NS	22	13	NS	56	10	27	33	2
Ammonia Nitrogen	mg/L N	0.016	NS	0.019	0.048	NS	0.029	0.010	0.015	0.225	0.604
Nitrate Nitrogen	mg/L N	0.531	NS	0.558	0.536	NS	<0.003	<0.003	0.292	0.287	0.342
Total Kjeldahl Nitrogen	mg/L N	<2.0	NS	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	NS	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.17	NS	0.17	0.17	NS	0.12	0.09	0.13	0.21	0.18
Total Phosphorus	mg/L P	0.40	NS	0.50	0.50	NS	0.40	0.30	0.40	0.40	0.50
Escherichia Coliform ³	colonies/100 mL	43	NS	93	75	NS	93	43	93	150	93
Fecal Coliform ³	colonies/100 mL	43	NS	93	75	NS	93	43	93	150	93

Weather Conditions during monitoring: Winds WNW at 11 km/hr with 78 % cloud cover. Average air temperature during survey at 3.6 C

- Notes:
- 1) LIMS Reference No: 31120
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 731.1ft.
 - 5) There are no samples at the West Perimeter Bridge or the South Floodway Control Gates due to construction.

Report Compiled By: H.Demchenko
Compliance Reporting Technician

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

Date Approved: 3-Nov-11

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