

City of Winnipeg
Water and Waste Department

2008 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : September 4, 2008		Assiniboine River Sampling Locations				Red River Sampling Locations					
Parameter	Unit	ASSINIBOINE PARK FOOT BRIDGE	HEADINGLY BRIDGE	MAIN STREET BRIDGE	WEST PERIMETER BRIDGE	SOUTH FLOODWAY CONTROL ⁴	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	16.9	16.2	16.0	16.3	NS	18.8	18.6	17.5	17.6	18.7
Dissolved Oxygen	mg/L	9.4	9.7	8.8	9.7	NS	7.9	7.7	8.0	7.6	8.2
Oxygen Saturation ²	%	98	99	90	99	NS	85	83	84	80	88
pH	units	8.82	8.87	8.73	8.83	NS	8.30	8.10	8.43	8.15	8.03
Total Solids	mg/L	652	656	628	656	NS	492	440	516	504	512
Total Suspended Solids	mg/L	124	128	89	120	NS	58	73	54	56	64
Turbidity	n.t.u.	48	66	49	41	NS	50	37	42	47	47
Total Organic Carbon	mg/L	11	11	10	11	NS	7	10	11	13	12
Chlorophyll a	ug/L	49	54	45	56	NS	12	4	28	25	19
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	NS	0.177	<0.003	0.197	0.201	0.132
Nitrate Nitrogen	mg/L N	0.246	0.143	0.218	0.325	NS	0.525	0.583	0.431	0.679	0.721
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
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
Soluble Phosphorus	mg/L P	0.12	0.11	0.11	0.15	NS	0.23	0.16	0.22	0.19	0.21
Total Phosphorus	mg/L P	<0.30	<0.30	<0.30	0.30	NS	<0.30	<0.30	<0.30	<0.30	<0.30
Escherichia Coliform ³	colonies/100 mL	70	30	44	80	NS	80	140	900	230	30
Fecal Coliform ³	colonies/100 mL	110	30	2300	80	NS	280	500	2800	230	110

Weather Conditions during monitoring: Winds NW at 2.9 km/hr with 98% cloud cover and 2.5 mm of precipitation. Average air temperature during survey at 13°C

- Notes:
- 1) LIMS Reference No: 21054
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: Not Taken
This location was not sampled due to construction in the area.

Report Compiled By: J. Jones
Compliance Reporting Technician

Approved for Distribution By: S. Fletcher
Supervisor of Analytical Services

Date Approved: 26-Sep-08

Distribution List (E-mail)
 Bill Borlase, Manager of Wastewater Services Division
 Paul Lagasse, Wastewater Engineer, Wastewater Services Division
 Bill Watters, Field Service Operations Engineer, Wastewater Services Division
 Grant Mohr, Land Drainage Planning Engineer, Engineering Division
 Nick Szoke, Senior Wastewater Facilities Planning Engineer, Engineering Division
 Kathy Taylor, Business and Internal Communications Coordinator, Customer Services Division
 Scott Gaber, Internet Services Officer, Customer Services Division
 Kelly Kjartanson, Manager of Environmental Standards Division

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