

**City of Winnipeg
Water and Waste Department**

2008 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : July 10, 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	20.9	21.2	21.2	20.7	23.1	22.4	21.8	21.3	20.9	21.5
Dissolved Oxygen	mg/L	9.6	9.8	8.8	9.8	7.5	7.5	7.6	7.7	7.6	8.5
Oxygen Saturation ²	%	108	111	100	110	88	87	87	88	86	97
pH	units	8.66	8.55	8.56	8.61	8.22	8.15	8.22	8.28	8.26	8.27
Total Solids	mg/L	857	860	813	850	713	700	727	767	760	760
Total Suspended Solids	mg/L	221	224	178	226	130	86	106	102	70	64
Turbidity	n.t.u.	119	101	93	121	81	56	60	64	52	34
Total Organic Carbon	mg/L	10	9	9	10	10	11	11	10	10	11
Chlorophyll a	ug/L	91	72	87	68	18	21	18	35	44	47
Ammonia Nitrogen	mg/L N	0.007	0.026	0.007	0.006	0.015	0.064	0.124	0.018	0.169	0.067
Nitrate Nitrogen	mg/L N	0.017	0.026	0.022	0.018	0.533	0.512	0.539	0.403	0.451	0.581
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
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
Soluble Phosphorus	mg/L P	0.03	0.02	0.03	0.10	0.14	0.18	0.20	0.13	0.14	0.15
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
Escherichia Coliform ³	colonies/100 mL	92	36	360	92	36	74	230	920	360	920
Fecal Coliform ³	colonies/100 mL	92	36	360	92	36	74	230	920	360	920

Weather Conditions during monitoring: Winds E at 14 km/hr with 30 % cloud cover. Average air temperature during survey at 20 °C

- Notes:
- 1) LIMS Reference No: 20528
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 734.3 ft

Report Compiled By: J. Jones
Compliance Reporting Technician

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

Date Approved: 05-Aug-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