

**City of Winnipeg  
Water and Waste Department**

**2008 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> :		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 <sup>4</sup>	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	23.5	23.8	23.8	23.5	22.9	22.9	22.3	22.2	22.2	22.2
Dissolved Oxygen	mg/L	7.6	8.0	7.2	7.9	6.9	6.8	6.7	6.7	6.8	7.7
Oxygen Saturation <sup>2</sup>	%	90	96	86	94	81	80	78	78	79	89
pH	units	8.59	8.67	8.51	8.65	8.00	7.98	8.00	8.07	8.08	8.08
Total Solids	mg/L	797	807	763	807	763	777	820	827	807	870
Total Suspended Solids	mg/L	172	186	93	173	174	235	258	274	284	362
Turbidity	n.t.u.	97	104	72	102	133	159	177	188	177	227
Total Organic Carbon	mg/L	9	9	9	9	11	11	10	11	11	11
Chlorophyll a	ug/L	65	66	61	63	14	14	14	14	21	32
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	0.033	0.043	0.023	0.130	0.094
Nitrate Nitrogen	mg/L N	0.025	0.031	0.026	0.020	1.044	1.068	1.097	0.977	0.987	1.023
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	3.0	<2.0	<2.0	<2.0	2.0	3.0	2.0	3.0
Total Nitrogen <sup>2</sup>	mg/L N	<2.0	<2.0	3.0	<2.0	<2.0	<2.0	3.1	4.0	3.0	4.0
Soluble Phosphorus	mg/L P	0.06	0.04	0.07	0.05	0.16	0.16	0.17	0.16	0.16	0.16
Total Phosphorus	mg/L P	<0.30	<0.30	<0.30	<0.30	<0.30	0.40	0.40	0.40	0.40	0.50
Escherichia Coliform <sup>3</sup>	colonies/100 mL	150	23	230	36	36	230	230	360	360	230
Fecal Coliform <sup>3</sup>	colonies/100 mL	150	36	230	36	36	230	230	360	360	230

Weather Conditions during monitoring: Winds SW at 9.7 km/hr with 55 % cloud cover and 0.5 mm of precipitation. Average air temperature during survey at 22.4 °C

- Notes:
- 1) LIMS Reference No: 20404
  - 2) Calculated values
  - 3) Analyzed by contract laboratory.
  - 4) Red River elevation at South Floodway Control Gates: 734.3 ft

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