

**City of Winnipeg  
Water and Waste Department**

**2008 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : August 3, 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 <sup>4</sup>	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	22.3	21.5	20.8	21.4	22.6	22.7	22.5	22.1	22.0	22.2
Dissolved Oxygen	mg/L	9.1	8.9	8.0	9.2	7.6	7.4	7.3	7.5	7.0	8.1
Oxygen Saturation <sup>2</sup>	%	106	102	90	105	89	87	85	87	81	94
pH	units	8.64	8.65	8.53	8.64	8.25	8.20	8.20	8.30	8.17	8.21
Total Solids	mg/L	827	833	673	817	520	523	513	583	573	583
Total Suspended Solids	mg/L	258	290	104	274	43	47	49	66	63	58
Turbidity	n.t.u.	89	148	64	110	34	37	35	42	45	41
Total Organic Carbon	mg/L	8	9	10	10	10	11	10	9	9	12
Chlorophyll a	ug/L	112	100	101	103	14	12	11	51	44	52
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	0.207	0.183	0.035	0.399	0.234
Nitrate Nitrogen	mg/L N	0.017	0.013	0.012	0.013	0.504	0.387	0.455	0.324	0.467	0.508
Total Kjeldahl Nitrogen	mg/L N	3.0	4.0	3.0	4.0	3.0	3.0	3.0	3.0	4.0	4.0
Total Nitrogen <sup>2</sup>	mg/L N	3.0	4.0	3.0	4.0	3.5	3.4	3.5	3.3	4.5	4.5
Soluble Phosphorus	mg/L P	0.05	0.03	0.05	0.03	0.13	0.16	0.15	0.20	0.17	0.18
Total Phosphorus	mg/L P	0.40	0.40	<0.30	0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Escherichia Coliform <sup>3</sup>	colonies/100 mL	50	50	300	22	13	50	23	1300	300	80
Fecal Coliform <sup>3</sup>	colonies/100 mL	50	80	300	22	13	80	23	2300	300	80

Weather Conditions during monitoring: Winds NW at 11 km/hr with 30% cloud cover. Average air temperature during survey at 19.5 °C

- Notes:
- 1) LIMS Reference No: 20780
  - 2) Calculated values
  - 3) Analyzed by contract laboratory.
  - 4) Red River elevation at South Floodway Control Gates: 734.6 ft

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