

**City of Winnipeg
Water and Waste Department**

2008 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : October 16, 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	8.6	7.6	7.2	7.6	NS	8.5	8.2	8.2	8.5	9.5
Dissolved Oxygen	mg/L	11.9	11.9	11.8	11.9	NS	11.0	11.1	11.0	11.2	12.4
Oxygen Saturation ²	%	102	99	98	99	NS	94	94	93	96	109
pH	units	8.30	8.32	8.33	8.27	NS	8.43	8.35	8.35	8.19	8.13
Total Solids	mg/L	724	696	640	768	NS	656	552	584	528	640
Total Suspended Solids	mg/L	186	186	88	210	NS	180	134	75	65	56
Turbidity	n.t.u.	116	105	56	128	NS	105	108	58	53	42
Total Organic Carbon	mg/L	14	10	9	9	NS	11	11	12	11	11
Chlorophyll a	ug/L	9	14	7	9	NS	47	47	37	42	58
Ammonia Nitrogen	mg/L N	0.177	0.134	0.147	0.146	NS	0.056	0.059	0.059	0.186	0.164
Nitrate Nitrogen	mg/L N	0.611	0.657	0.650	0.675	NS	0.507	0.399	0.321	0.344	0.229
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	0.18	0.15	0.20	0.15	NS	0.25	0.27	0.27	0.27	0.23
Total Phosphorus	mg/L P	0.30	<0.30	<0.30	0.30	NS	0.40	0.40	0.40	0.30	0.30
Escherichia Coliform ³	colonies/100 mL	300	90	300	80	NS	130	26	70	500	170
Fecal Coliform ³	colonies/100 mL	300	140	300	80	NS	170	70	170	500	170

Weather Conditions during monitoring: Winds W at 8 km/hr with 25% cloud cover. Average air temperature during survey at 8°C

- Notes:
- 1) LIMS Reference No: 21390
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 733.6 ft
There is no result for the South Floodway Control because the road accessing the sample location was closed.

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Date Approved: 28-Oct-08

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