

**City of Winnipeg  
Water and Waste Department**

**2007 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : August 8, 2007		Assiniboine River Sampling Locations				Red River Sampling Locations					
Parameter	Unit	ASSINIBOINE PARK FOOT BRIDGE	HEADINGLY BRIDGE	MAIN STREET BRIDGE	WEST PERIMETER BRIDGE	SOUTH FLOODWAY <sup>4</sup> CONTROL	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	22.4	22.5	22.2	22.2	23.1	23.3	23.5	23.0	22.8	23.0
Dissolved Oxygen	mg/L	8.6	8.8	8.4	8.7	7.6	7.6	7.5	8.0	8.2	8.6
Oxygen Saturation <sup>2</sup>	%	100	103	97	101	90	90	89	94	96	101
pH	units	8.65	8.65	8.63	8.64	8.34	8.30	8.30	8.48	8.45	8.54
Total Solids	mg/L	817	790	770	823	727	191	637	727	697	643
Total Suspended Solids	mg/L	201	199	183	191	115	46	36	71	69	53
Turbidity	n.t.u.	107	85	92	91	76	33	28	45	44	40
Total Organic Carbon	mg/L	12	12	14	12	14	14	14	13	13	14
Chlorophyll a	ug/L	96	91	14	77	8	56	14	54	51	75
Ammonia Nitrogen	mg/L N	0.07	0.06	0.06	0.06	<0.05	<0.05	<0.05	0.19	0.53	0.51
Nitrate Nitrogen	mg/L N	0.42	0.41	0.37	0.43	0.48	0.50	0.56	0.48	0.53	0.56
Total Kheldahl Nitrogen	mg/L N	<2	<2	<2	<2	<2	<2	<2	<2	<2	2
Total Nitrogen <sup>2</sup>	mg/L N	<2	<2	<2	<2	<2	<2	<2	<2	<2	3
Phosphate	mg/L N	0.17	0.18	0.16	0.15	0.25	0.27	0.26	0.19	0.20	0.22
Total Phosphorus	mg/L P	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Eshcerichia Coliform <sup>3</sup>	col./100 mL	240	49	16,000	17	17	31	23	49	23	22
Fecal Coliform <sup>3</sup>	col./100 mL	240	49	160,000	33	17	46	79	130	33	79

Weather Conditions during monitoring: Winds S at 37 km/hr with 85 % cloud cover. Average air temperature of 37 Celcius. Precipitation: light drizzle.

Notes: 1) LIMS Reference No: 17834  
 2) Calculated values  
 3) Analyzed by contract laboratory.  
 All other parameters analysed by the Analytical Services Branch of Environmental Standards Division.

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