

**City of Winnipeg  
Water and Waste Department**

**2007 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : October 24, 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	7.8	7.0	6.8	7.9	9.2	8.6	8.8	8.6	9.0	9.2
Dissolved Oxygen	mg/L	12.2	12.2	12.1	12.0	11.7	11.6	11.3	11.3	11.3	11.8
Oxygen Saturation <sup>2</sup>	%	103	100	99	101	102	99	97	97	98	103
pH	units	7.91	7.97	8.30	7.80	8.15	8.19	8.24	8.31	8.21	8.13
Total Solids	mg/L	723	703	697	650	647	633	657	667	673	627
Total Suspended Solids	mg/L	65	57	75	50	76	65	54	44	41	34
Turbidity	n.t.u.	35	35	44	32	57	58	46	33	32	25
Total Organic Carbon	mg/L	8	8	8	9	10	10	10	10	9	9
Chlorophyll a	ug/L	23	23	21	23	54	61	57	51	41	44
Ammonia Nitrogen	mg/L N	<0.05	<0.05	0.15	<0.05	<0.05	0.13	0.07	0.17	0.48	0.62
Nitrate Nitrogen	mg/L N	0.34	0.26	0.35	0.25	0.57	0.44	0.43	0.41	0.50	0.60
Total Kheldahl Nitrogen	mg/L N	3	2	3	2	3	3	3	2	3	3
Total Nitrogen <sup>2</sup>	mg/L N	3	2	3	2	4	3	3	2	4	4
Phosphate	mg/L N	0.17	0.17	0.16	0.14	0.12	0.14	0.16	0.18	0.21	0.23
Total Phosphorus	mg/L P	0.4	<0.3	0.4	<0.3	0.3	0.3	<0.3	<0.3	0.4	0.4
Eshcerichia Coliform <sup>3</sup>	col./100 mL	36	23	430	36	23	150	92	930	150	930
Fecal Coliform <sup>3</sup>	col./100 mL	36	36	430	36	36	150	150	930	930	930

Weather Conditions during monitoring: Winds S at 30 km/hr with 20 % cloud cover. Average air temperature of 30 Celcius. Precipitation: nil.

Notes: 1) LIMS Reference No: 18494  
 2) Calculated values  
 3) Analyzed by contract laboratory.  
 All other parameters analysed by the Analytical Services Branch of Environmental Standards Division.

File No: 040-14-09-03-00