

**City of Winnipeg
Water and Waste Department**

2007 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : November 6, 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 ⁴ CONTROL	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	3.4	2.3	3.0	3.2	4.8	5.5	5.1	4.8	6.0	5.3
Dissolved Oxygen	mg/L	14.3	14.3	14.6	14.1	13.0	12.6	12.8	13.2	12.8	13.5
Oxygen Saturation ²	%	107	104	108	105	101	100	100	103	103	106
pH	units	8.74	8.72	8.74	8.70	8.54	8.52	8.47	8.57	8.57	8.41
Total Solids	mg/L	720	753	703	707	570	583	580	603	587	577
Total Suspended Solids	mg/L	42	69	53	57	68	80	74	74	54	66
Turbidity	n.t.u.	22	37	28	30	49	56	53	50	36	43
Total Organic Carbon	mg/L	9	9	9	9	11	11	11	10	10	11
Chlorophyll a	ug/L	54	50	50	52	16	18	18	21	23	26
Ammonia Nitrogen	mg/L N	0.08	0.06	0.14	0.06	0.07	0.10	0.16	0.13	0.52	0.61
Nitrate Nitrogen	mg/L N	0.12	0.12	0.15	0.12	0.45	0.39	0.35	0.30	0.31	0.34
Total Kheldahl Nitrogen	mg/L N	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Nitrogen ²	mg/L N	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Phosphate	mg/L N	0.14	0.12	0.13	0.13	0.11	0.11	0.11	0.11	0.16	0.17
Total Phosphorus	mg/L P	<0.3	0.3	<0.3	0.4	<0.3	0.3	<0.3	<0.3	<0.3	0.4
Eshcerichia Coliform ³	col./100 mL	9	15	92	<2	9	230	23	230	36	230
Fecal Coliform ³	col./100 mL	36	92	230	15	9	230	92	230	36	230

Weather Conditions during monitoring: Winds SW at 7 km/hr with 100 % cloud cover. Average air temperature of 7 Celcius. Precipitation: nil.

Notes: 1) LIMS Reference No: 18551
 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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