

**City of Winnipeg
Water and Waste Department**

2007 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : November 21, 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	0.6	0.5	0.3	5.0	1.0	0.6	0.7	0.5	0.7	0.7
Dissolved Oxygen	mg/L	15.9	15.7	15.6	13.4	15.4	15.3	15.0	15.0	15.3	15.6
Oxygen Saturation ²	%	110	109	107	105	108	106	104	104	106	109
pH	units	8.74	8.72	8.71	8.60	8.76	8.62	8.69	8.71	8.59	8.54
Total Solids	mg/L	770	803	783	810	533	550	540	607	573	567
Total Suspended Solids	mg/L	51	70	113	102	46	58	53	45	34	35
Turbidity	n.t.u.	25	30	48	51	32	42	38	34	25	27
Total Organic Carbon	mg/L	10	10	10	12	13	15	13	11	14	13
Chlorophyll a	ug/L	70	52	75	47	65	59	54	56	58	51
Ammonia Nitrogen	mg/L N	0.10	0.07	0.14	0.06	0.06	0.14	0.13	0.17	0.46	0.69
Nitrate Nitrogen	mg/L N	0.32	0.37	0.30	0.51	<0.03	<0.03	0.04	0.11	0.16	0.20
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	0.11	0.12	0.10	0.11	0.08	0.10	0.10	0.10	0.14	0.15
Total Phosphorus	mg/L P	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Eshcerichia Coliform ³	col./100 mL	4	11	23	<2	7	9	23	14	23	230
Fecal Coliform ³	col./100 mL	43	93	92	<2	7	430	150	430	92	230

Weather Conditions during monitoring: Winds NE at 15 km/hr with 80 % cloud cover. Average air temperature of 15 Celcius. Precipitation: snow.

Notes: 1) LIMS Reference No: 18706
 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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