

City of Winnipeg
Water and Waste Department

2012 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : August 22, 2012		Assiniboine River Sampling Locations				Red River Sampling Locations						
Parameter	Unit	HEADINGLY BRIDGE	WEST PERIMETER BRIDGE	ASSINIBOINE PARK FOOT BRIDGE	MAIN STREET BRIDGE	SOUTH FLOODWAY CONTROL ⁴	SOUTH PERIMETER BRIDGE	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	22.7	22.5	22.0	21.3	22.3	22.7	22.6	21.5	21.9	21.0	20.8
Dissolved Oxygen	mg/L	10.5	10.9	9.9	9.3	9.0	9.4	8.6	8.0	9.5	9.2	8.9
Oxygen Saturation ²	%	123	127	115	106	104	110	101	91	110	104	100
pH	units	7.58	8.70	8.78	8.74	8.62	8.66	8.43	8.36	8.64	8.46	8.20
Total Solids	mg/L	1010	1030	1020	982	632	624	626	564	822	824	814
Total Suspended Solids	mg/L	105	99	120	101	54	46	49	46	45	32	40
Turbidity	n.t.u.	53	28	31	63	26	29	26	22	25	19	24
Total Organic Carbon	mg/L	16	15	15	15	11	11	11	10	14	12	13
Chlorophyll a	ug/L	114	96	89	82	15	30	23	18	76	59	38
Ammonia Nitrogen	mg/L N	<0.003	<0.003	0.005	0.013	<0.003	<0.003	0.434	0.343	0.077	0.460	0.220
Nitrate Nitrogen	mg/L N	<0.003	0.003	<0.003	<0.003	0.218	0.261	0.346	0.536	0.257	0.421	0.652
Total Kjeldahl Nitrogen	mg/L N	3.0	3.0	3.0	3.0	2.0	<2.0	3.0	3.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	3.0	3.0	3.0	3.0	2.2	<2.0	3.3	3.5	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.07	0.06	0.07	0.07	0.11	0.12	0.17	0.18	0.10	0.16	0.16
Total Phosphorus	mg/L P	0.30	<0.30	<0.30	0.30	<0.30	<0.30	0.30	0.40	<0.30	<0.30	<0.30
Escherichia Coliform ³	colonies/100 mL	43	23	21	230	4	4	15	9	93	230	93
Fecal Coliform ³	colonies/100 mL	43	23	93	230	9	4	43	14	230	230	93

Weather Conditions during monitoring: Winds SE at 15 km/hr with 35% cloud cover. Average air temperature during survey at 24.3°C.

Notes: 1) LIMS Reference No: 33648
 2) Calculated values
 3) Analyzed by contract laboratory.
 4) Red River elevation at South Floodway Control Gates 734.0 ft.

Report Compiled By: K. Wazny
 Compliance Reporting Technician

Approved in LIMS By: S. Fletcher
 Supervisor of Analytical Services

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