

**City of Winnipeg
Water and Waste Department**

2014 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : September 10, 2014		Assiniboine River Sampling Locations				Red River Sampling Locations						
Parameter	Unit	HEADINGLY BRIDGE (R1)	WEST PERIMETER BRIDGE (R2)	ASSINIBOINE PARK FOOT BRIDGE (R3)	MAIN STREET BRIDGE (R4)	SOUTH FLOODWAY CONTROL ⁴ (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Temperature	° C	15.2	15.5	15.6	15.6	17.0	16.9	16.8	16.8	15.9	15.8	15.8
Dissolved Oxygen	mg/L	8.9	8.8	8.7	8.7	8.5	8.4	8.4	8.4	8.6	8.6	9.2
Oxygen Saturation ²	%	88	88	88	88	88	87	87	86	87	86	93
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
pH	units	8.44	8.36	8.34	8.40	8.39	8.39	8.39	8.36	8.39	8.38	8.25
Total Solids	mg/L	968	980	968	978	1020	1080	874	898	902	964	994
Total Suspended Solids	mg/L	170	158	170	158	232	164	110	120	124	132	150
Turbidity	n.t.u.	115	112	102	115	163	129	101	115	108	101	112
Total Organic Carbon	mg/L	22	23	24	23	19	19	17	18	19	20	21
Chlorophyll a	ug/L	11	14	11	11	4	7	<1	11	11	11	14
Ammonia Nitrogen	mg/L N	0.014	0.018	<0.003	0.024	0.010	0.082	0.047	0.075	0.026	0.074	<0.003
Nitrate Nitrogen	mg/L N	0.194	0.192	0.191	0.192	0.438	0.370	0.464	0.458	0.283	0.299	0.445
Total Kjeldahl Nitrogen	mg/L N	1.1	0.6	1.0	0.8	1.0	2.5	1.9	0.5	0.6	0.6	0.9
Total Nitrogen ²	mg/L N	1.3	0.8	1.2	1.0	1.4	2.9	2.4	1.0	0.9	0.9	1.3
Soluble Phosphorus	mg/L P	0.18	0.16	0.17	0.17	0.18	0.24	0.19	0.20	0.18	0.19	0.18
Total Phosphorus	mg/L P	0.40	0.40	0.40	0.40	0.40	0.40	0.30	0.40	0.40	0.30	0.60
Escherichia Coliform ³	MPN/100 mL	43	43	430	43	43	15	93	16	43	43	43
Fecal Coliform ³	MPN/100 mL	43	43	430	43	230	43	93	29	43	93	93

Weather Conditions during monitoring Winds NNE at 30 km/hr with 50% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 8°C

- Notes: 1) LIMS Reference No: **40386**
 2) Calculated values
 3) Analysed by contract laboratory
 4) Red River Floodway at South Floodway Control Gates

736.0 ft.

Report Compiled By: H.Demchenko
 Compliance Reporting Technician

Approved in LIMS By: C.Diduck
 Analytical Services Branch Head

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