

**City of Winnipeg
Water and Waste Department**

2014 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : October 8, 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	8.6	8.9	8.8	8.6	9.4	9.3	9.2	9.1	8.8	8.8	8.9
Dissolved Oxygen	mg/L	10.5	10.4	10.5	10.2	10.5	10.4	10.1	10.3	10.4	10.3	10.7
Oxygen Saturation ²	%	90	90	91	90	91	90	90	89	89	89	93
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
pH	units	8.50	8.45	8.44	8.44	8.59	8.60	8.62	8.60	8.51	8.42	8.30
Total Solids	mg/L	1760	1090	1440	1780	788	776	918	668	992	898	1420
Total Suspended Solids	mg/L	304	256	258	260	97	85	58	43	195	127	176
Turbidity	n.t.u.	144	124	115	133	67	144	45	41	91	72	100
Total Organic Carbon	mg/L	29	37	23	32	19	21	18	16	29	24	27
Chlorophyll a	ug/L	4	11	5	14	12	9	12	12	11	9	11
Ammonia Nitrogen	mg/L N	0.222	0.069	0.054	<0.003	0.058	0.152	0.085	0.067	0.048	0.153	<0.003
Nitrate Nitrogen	mg/L N	0.350	0.367	0.359	0.345	0.196	0.344	0.145	0.153	0.276	0.310	0.194
Total Kjeldahl Nitrogen	mg/L N	1.3	2.0	1.2	1.3	0.6	<0.5	1.4	1.4	1.9	0.9	1.3
Total Nitrogen ²	mg/L N	1.7	2.4	1.6	1.6	0.8	0.6	1.5	1.6	2.2	1.2	1.5
Soluble Phosphorus	mg/L P	0.15	0.20	0.18	0.15	0.18	0.36	0.15	0.15	0.16	0.17	0.15
Total Phosphorus	mg/L P	0.50	0.60	0.60	0.60	0.40	0.40	0.40	0.30	0.40	0.50	0.50
Escherichia Coliform ³	MPN/100 mL	23	43	43	93	43	23	93	43	430	23	430
Fecal Coliform ³	MPN/100 mL	23	43	93	93	43	23	93	93	430	23	430

Weather Conditions during monitoring Winds NE at 30 km/hr with 50% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 4.3°C

<p>Notes: 1) LIMS Reference No: 40662 2) Calculated values 3) Analysed by contract laboratory 4) Red River Floodway at South Floodway Control Gates NR ft. 5) No elevation result due to technician error.</p> <p>File No: 040-14-09-03-00</p>	<p>Report Compiled By: <u>H.Demchenko</u> Compliance Reporting Technician</p> <p>Approved in LIMS By: <u>C.Diduck</u> Analytical Services Branch Head</p> <p>Date Compiled: <u>11-Jan-19</u></p>
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