

**City of Winnipeg
Water and Waste Department**

2015 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : October 15, 2015		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	9.5	9.7	9.5	9.6	10.3	10.0	10.6	10.8	10.7	10.5	11.2
Dissolved Oxygen	mg/L	10.2	10.2	10.3	10.1	10.1	10.1	10.2	9.9	10.0	9.7	10.0
Oxygen Saturation ²	%	89	90	90	89	91	90	92	90	90	87	91
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
pH	units	8.56	8.57	8.46	8.37	8.72	8.72	8.73	8.46	8.30	8.12	8.20
Total Solids	mg/L	1030	1070	1040	1000	856	852	850	816	826	828	790
Total Suspended Solids	mg/L	217	264	248	160	71	42	44	29	47	31	30
Turbidity	n.t.u.	124	155	138	122	57	48	37	28	37	26	25
Total Organic Carbon	mg/L	13	16	13	12	12	12	14	13	13	10	12
Chlorophyll a	ug/L	21	28	23	32	19	79	28	17	27	25	26
Ammonia Nitrogen	mg/L N	<0.003	0.005	<0.003	<0.003	<0.003	<0.003	0.316	0.177	0.076	0.550	0.209
Nitrate Nitrogen	mg/L N	0.209	0.212	0.210	0.203	0.161	0.160	0.141	0.105	0.132	0.270	0.269
Total Kjeldahl Nitrogen	mg/L N	1.0	1.4	1.6	1.1	1.4	1.0	1.6	1.5	1.3	1.7	1.4
Total Nitrogen ²	mg/L N	1.2	1.6	1.8	1.3	1.6	1.2	1.7	1.6	1.4	2.0	1.7
Soluble Phosphorus	mg/L P	0.11	0.11	0.12	0.12	0.10	0.11	0.14	0.12	0.12	0.19	0.16
Total Phosphorus	mg/L P	0.40	0.40	0.60	0.40	0.30	0.30	0.30	0.30	0.30	0.40	0.40
Escherichia Coliform ³	MPN/100 mL	93	430	240	230	930	430	430	93	930	740	4300
Fecal Coliform ³	MPN/100 mL	93	430	240	430	930	430	430	93	2400	1500	4300

Weather Conditions during monitoring Winds NNW at 50 km/hr with 85% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 1.4°C

Notes: 1) LIMS Reference No: **44131**
 2) Calculated values
 3) Analysed by contract laboratory
 4) Red River Floodway at South Floodway Control Gates **733.2** ft.

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