

**City of Winnipeg  
Water and Waste Department**

**2018 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : <b>May 10, 2018</b>		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 <sup>3</sup> (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Temperature	° C	13.1	13.7	13.0	13.0	14.1	13.7	13.9	13.6	13.2	12.9	13.3
Dissolved Oxygen	mg/L	9.5	9.5	9.7	9.5	8.8	8.8	8.6	8.3	9.0	8.8	10.0
Oxygen Saturation	%	91	92	92	90	86	84	83	80	85	83	96
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
pH	units	8.26	8.27	8.35	8.26	8.03	8.07	7.96	8.01	8.08	8.06	8.08
Total Solids	mg/L	896	894	920	956	762	746	742	732	786	762	804
Total Suspended Solids	mg/L	304	299	330	382	224	216	202	226	248	208	264
Turbidity	n.t.u.	148	144	169	177	127	148	129	124	152	115	155
Total Organic Carbon	mg/L	16	16	17	18	15	17	17	15	18	16	16
Chlorophyll a	ug/L	17	18	17	17	10	10	8	9	11	10	10
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.074	0.011	0.052	0.102	0.067	0.155	0.200
Nitrate Nitrogen	mg/L N	1.200	1.210	1.200	1.210	0.573	0.526	0.506	0.499	0.705	0.699	0.758
Total Nitrogen	mg/L N	2.1	1.6	2.0	2.1	0.9	0.9	1.5	1.3	1.4	1.3	1.5
Soluble Phosphorus	mg/L P	0.08	0.08	0.08	0.08	0.12	0.12	0.11	0.12	0.11	0.12	0.12
Total Phosphorus	mg/L P	0.12	0.12	0.11	0.11	0.12	0.12	0.13	0.13	0.12	0.13	0.14
Escherichia Coliform <sup>2</sup>	MPN/100 mL	20	20	<10	90	<10	<10	30	50	30	60	50
Fecal Coliform <sup>2</sup>	MPN/100 mL	<10	<10	40	80	10	20	20	20	90	120	40

Weather Conditions during monitoring Winds NE at 12 km/hr with 20% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 9°C

Notes: 1) LIMS Reference No: **52703**  
 2) Analysed by contract laboratory  
 3) Red River Floodway at South Floodway Control Gates **738.5** ft.

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