

**City of Winnipeg  
Water and Waste Department**

**2018 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : May 24, 2018		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	20.7	21.0	21.3	20.7	20.4	20.7	20.4	19.9	19.7	19.7	19.4
Dissolved Oxygen	mg/L	9.9	10.1	9.8	9.4	8.7	8.7	8.7	8.5	8.7	9.0	8.8
Oxygen Saturation	%	110	114	110	105	97	98	97	93	95	98	95
Biochemical Oxygen Demand	mg/L	5	5	4	4	<3	<3	<3	<3	<3	<3	<3
pH	units	8.76	8.74	8.75	8.69	8.26	8.25	8.24	8.19	8.31	8.32	8.23
Total Solids	mg/L	698	690	734	778	776	728	768	822	830	644	668
Total Suspended Solids	mg/L	105	104	107	93	116	84	77	136	96	52	57
Turbidity	n.t.u.	54	55	58	53	70	53	54	83	64	44	39
Total Organic Carbon	mg/L	10	8	8	8	10	9	10	9	9	9	9
Chlorophyll a	ug/L	53	51	56	60	19	19	17	16	23	23	21
Ammonia Nitrogen	mg/L N	0.041	0.009	0.042	0.005	<0.003	<0.003	0.041	0.080	0.052	0.094	0.214
Nitrate Nitrogen	mg/L N	0.006	<0.003	0.006	0.060	0.231	0.250	0.287	0.392	0.333	0.376	0.500
Total Nitrogen	mg/L N	0.6	0.6	0.6	0.7	1.0	0.9	1.1	1.2	1.2	1.3	1.4
Soluble Phosphorus	mg/L P	0.06	0.04	0.05	0.06	0.10	0.11	0.10	0.12	0.10	0.10	0.12
Total Phosphorus	mg/L P	0.21	0.22	0.23	0.19	0.20	0.23	0.22	0.26	0.21	0.19	0.22
Escherichia Coliform <sup>2</sup>	MPN/100 mL	20	10	<10	110	<10	<10	10	10	60	30	250
Fecal Coliform <sup>2</sup>	MPN/100 mL	10	<10	<10	90	<10	<10	30	20	220	50	130

Weather Conditions during monitoring Winds South at 15 km/hr with 90% cloud cover and 3 mm of precipitation. Average air temperature during survey at 25°C

Notes: 1) LIMS Reference No: **52813**  
 2) Analysed by contract laboratory  
 3) Red River Floodway at South Floodway Control Gates **735.9** ft.

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