

**City of Winnipeg  
Water and Waste Department**

**2018 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : June 5, 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	19.1	19.2	18.0	17.6	20.3	20.4	20.1	18.7	18.5	18.2	18.5
Dissolved Oxygen	mg/L	9.6	9.8	9.6	9.3	8.4	8.5	8.3	8.3	8.5	8.5	9.2
Oxygen Saturation	%	104	106	101	98	93	94	91	88	90	89	98
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
pH	units	8.59	8.62	8.59	8.61	8.33	8.20	8.23	8.16	8.37	8.37	8.05
Total Solids	mg/L	728	734	738	690	700	680	710	678	656	626	624
Total Suspended Solids	mg/L	103	115	115	59	113	100	101	95	70	46	44
Turbidity	n.t.u.	53	65	60	35	71	62	69	68	48	36	24
Total Organic Carbon	mg/L	18	18	18	18	20	20	19	19	18	19	19
Chlorophyll a	ug/L	35	36	33	35	13	14	13	12	9	18	21
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.011	<0.003	0.076	0.128	0.044	0.217	0.151
Nitrate Nitrogen	mg/L N	<0.003	<0.003	0.010	0.040	0.141	0.188	0.221	0.180	0.129	0.130	0.154
Total Nitrogen	mg/L N	0.6	0.6	0.6	0.6	0.8	0.8	0.9	0.9	0.8	0.9	0.9
Soluble Phosphorus	mg/L P	0.08	0.08	0.08	0.10	0.10	0.10	0.11	0.11	0.10	0.12	0.11
Total Phosphorus	mg/L P	0.22	0.22	0.22	0.18	0.21	0.20	0.20	0.20	0.20	0.19	0.17
Escherichia Coliform <sup>2</sup>	MPN/100 mL	50	30	110	340	20	<10	20	20	110	70	310
Fecal Coliform <sup>2</sup>	MPN/100 mL	80	40	80	270	30	20	<10	50	190	130	260

Weather Conditions during monitoring Winds SE at 14 km/hr with 50% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 19°C

Notes: 1) LIMS Reference No: **52935**  
 2) Analysed by contract laboratory  
 3) Red River Floodway at South Floodway Control Gates **735.2** ft.

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