

**City of Winnipeg  
Water and Waste Department**

**2017 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : <b>May 4, 2017</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	13.2	13.2	13.1	12.4	12.1	12.7	12.3	11.8	11.7	11.4	12.3
Dissolved Oxygen	mg/L	9.8	9.9	10.0	10.2	10.2	10.1	10.0	10.2	10.2	10.1	10.4
Oxygen Saturation	%	95	95	95	95	96	95	93	94	94	93	96
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	nr <sup>4</sup>	<3	<3	3	4
pH	units	8.27	8.29	8.26	8.28	8.36	8.28	8.30	8.26	8.10	8.04	8.02
Total Solids	mg/L	976	1000	938	1050	1010	964	1000	1010	1010	994	1040
Total Suspended Solids	mg/L	322	356	280	428	206	192	222	238	246	272	308
Turbidity	n.t.u.	171	185	197	203	119	117	115	145	173	145	170
Total Organic Carbon	mg/L	14	13	12	12	12	13	12	12	12	12	12
Chlorophyll a	ug/L	10	11	8	13	7	5	11	11	8	3	8
Ammonia Nitrogen	mg/L N	0.009	0.025	<0.003	0.014	0.043	0.043	0.049	0.075	0.046	0.154	0.163
Nitrate Nitrogen	mg/L N	0.100	0.090	0.100	0.126	0.711	0.637	0.672	0.698	0.444	0.572	0.471
Total Nitrogen	mg/L N	1.2	1.1	1.1	1.1	1.9	1.8	2.1	2.0	1.8	1.8	1.8
Soluble Phosphorus	mg/L P	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.07
Total Phosphorus	mg/L P	0.44	0.38	0.49	0.49	0.36	0.33	0.40	0.36	0.40	0.41	0.43
Escherichia Coliform <sup>2</sup>	MPN/100 mL	3	5	19	17	2	<1	4	8	11	20	53
Fecal Coliform <sup>2</sup>	MPN/100 mL	5	6	13	15	10	12	16	19	23	32	88

Weather Conditions during monitoring Winds NW at 5 km/hr with 5% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 15°C

- Notes:
- 1) LIMS Reference No: **49409**
  - 2) Analysed by contract laboratory
  - 3) Red River Floodway at South Floodway Control Gates **741.6** ft.
  - 4) No result because the initial temperature was outside the BOD test limit.

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