

**City of Winnipeg
Water and Waste Department**

2017 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : June 15, 2017		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 ³ (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Temperature	° C	18.8	18.7	18.6	18.8	20.3	20.3	20.1	20.1	19.6	19.9	19.4
Dissolved Oxygen	mg/L	8.7	8.8	8.7	8.5	8.1	8.2	8.5	8.4	8.3	8.4	8.8
Oxygen Saturation	%	93	94	93	90	90	90	93	92	91	92	96
Biochemical Oxygen Demand	mg/L	nr ⁴	nr ⁴	nr ⁴	nr ⁴	nr ⁴	nr ⁴	nr ⁴	nr ⁴	nr ⁴	nr ⁴	nr ⁴
pH	units	8.60	8.45	8.52	8.45	8.44	8.49	8.47	8.50	8.55	8.52	8.44
Total Solids	mg/L	942	904	888	900	826	792	742	806	790	768	774
Total Suspended Solids	mg/L	103	124	121	112	74	41	34	31	36	35	31
Turbidity	n.t.u.	54	65	59	59	56	32	26	23	23	24	20
Total Organic Carbon	mg/L	12	13	13	12	12	11	12	12	12	12	12
Chlorophyll a	ug/L	41	41	41	24	19	24	23	20	21	25	33
Ammonia Nitrogen	mg/L N	<0.003	0.031	<0.003	<0.003	<0.003	<0.003	0.079	0.135	0.075	0.138	0.180
Nitrate Nitrogen	mg/L N	0.010	0.009	0.006	0.004	0.479	0.259	0.162	0.060	0.040	0.040	0.080
Total Nitrogen	mg/L N	0.7	0.7	0.8	0.7	1.2	1.0	0.9	0.9	0.9	1.0	1.0
Soluble Phosphorus	mg/L P	0.07	0.08	0.07	0.06	0.12	0.10	0.16	0.09	0.08	0.08	0.10
Total Phosphorus	mg/L P	0.28	0.27	0.24	0.26	0.26	0.20	0.18	0.17	0.18	0.19	0.20
Escherichia Coliform ²	MPN/100 mL	31	45	52	345	41	39	64	308	326	816	2420
Fecal Coliform ²	MPN/100 mL	34	46	79	261	50	39	76	228	308	579	2420

Weather Conditions during monitoring Winds west at 17 km/hr with 97% cloud cover and 5 mm of precipitation. Average air temperature during survey at 17°C

- Notes:
- 1) LIMS Reference No: **49835**
 - 2) Analysed by contract laboratory
 - 3) Red River Floodway at South Floodway Control Gates **735.7** ft.
 - 4) No result due to technician error.

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