

**City of Winnipeg
Water and Waste Department**

2018 RIVERS SURVEY MONITORING REPORT

Survey Date: August 2, 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 ¹ (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Sample Number		16350	16352	16349	16351	16353	16359	16354	16357	16358	16356	16355
Temperature	° C	19.9	20.1	19.5	19.9	21.9	21.8	22.0	21.4	20.8	19.7	20.8
Dissolved Oxygen	mg/L	9.96	10.0	9.06	8.61	8.12	8.36	8.28	8.08	8.39	7.86	8.74
Oxygen Saturation	%	110	112	98.7	95.0	92.9	102	94.8	91.7	93.7	87.4	97.5
Biochemical Oxygen Demand	mg/L	6	6	4	5	<4	<4	<4	<4	<4	<4	<4
pH	units	8.80	8.83	8.55	8.53	8.28	8.38	8.37	8.48	8.41	8.08	8.36
Total Solids	mg/L	812	790	814	792	866	828	798	802	790	792	812
Total Suspended Solids	mg/L	86	78	70	54	73	42	29	28	34	42	42
Turbidity	n.t.u.	56.0	50.0	50.3	37.3	58.6	37.1	28.0	25.8	28.8	32.5	37.4
Total Organic Carbon	mg/L	14.1	14.4	16.2	13.8	11.0	11.1	11.6	11.3	12.2	12.7	12.4
Chlorophyll a	ug/L	57.9	45.4	35.4	37.4	5.3	5.3	8.9	5.9	22.0	23.1	23.1
Ammonia Nitrogen	mg/L N	0.010	0.013	0.009	<0.003	0.007	0.015	0.249	0.230	0.065	0.478	0.222
Nitrate Nitrogen	mg/L N	<0.003	0.005	<0.003	<0.003	0.682	0.705	0.603	0.605	0.438	0.470	0.503
Total Nitrogen	mg/L N	1.3	1.2	1.6	1.3	1.7	1.7	2.0	1.9	1.8	2.2	2.1
Soluble Phosphorus	mg/L P	0.041	0.046	0.052	0.032	0.186	0.221	0.203	0.232	0.153	0.197	0.179
Total Phosphorus	mg/L P	0.2333	0.2146	0.2094	0.1808	0.2426	0.2341	0.2603	0.2527	0.2203	0.2726	0.2605
Escherichia Coliform	MPN/100 mL	<10	<10	20	60	<10	20	10	40	30	110	30
Fecal Coliform	MPN/100 mL	<10	10	20	190	10	20	<10	20	30	60	100

Weather Conditions during monitoring Winds SE at 7.5 km/hr with 5% cloud cover and 0 mm of precipitation. Average air temperature during survey at 23°C

Notes: 1) Red River Floodway at South Floodway Control Gates **734.5** ft. Compiled By: H.Demchenko
Compliance Reporting Technician

Approved By: C.Diduck
Analytical Services Branch Head

Date Compiled: 9-May-19

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