

**City of Winnipeg  
Water and Waste Department**

**2018 RIVERS SURVEY MONITORING REPORT**

Survey Date: July 19, 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>1</sup> (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Sample Number		<b>11591</b>	<b>11593</b>	<b>11590</b>	<b>11592</b>	<b>11594</b>	<b>11600</b>	<b>11595</b>	<b>11598</b>	<b>11599</b>	<b>11597</b>	<b>11596</b>
Temperature	° C	24.8	25.0	24.1	23.8	26.1	26.0	26.3	24.6	24.2	23.6	23.4
Dissolved Oxygen	mg/L	8.34	8.33	8.26	8.01	7.34	7.43	7.47	7.33	7.80	8.05	8.66
Oxygen Saturation	%	100	101	98.4	94.7	90.4	91.5	92.5	88.3	92.9	95.3	102
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
pH	units	8.53	8.60	8.51	8.57	8.13	8.25	8.22	8.19	8.43	8.40	8.45
Total Solids	mg/L	1030	1030	1030	1040	852	848	728	896	876	786	836
Total Suspended Solids	mg/L	298	286	278	282	109	80	37	63	71	58	56
Turbidity	n.t.u.	159.5	152.5	144.0	156.5	90.5	65.6	40.8	57.6	51.0	44.2	39.3
Total Organic Carbon	mg/L	12.7	14.0	11.8	13.0	11.8	11.0	10.4	10.4	10.9	10.8	11.5
Chlorophyll a	ug/L	61.7	55.1	53.4	55.1	3.3	4.5	5.3	4.5	25.8	26.7	29.4
Ammonia Nitrogen	mg/L N	0.898	nr <sup>3</sup>	0.940	0.999	0.024	0.031	0.323	1.610	0.178	>2.000	1.570
Nitrate Nitrogen	mg/L N	0.246	nr <sup>3</sup>	0.238	0.182	0.611	0.586	0.640	0.678	0.481	0.533	0.590
Total Nitrogen	mg/L N	1.3	1.4	1.2	1.3	1.5	1.5	1.6	1.6	1.6	1.7	1.7
Soluble Phosphorus	mg/L P	0.101	nr <sup>2</sup>	0.110	0.107	nr <sup>2</sup>	nr <sup>2</sup>	0.227	0.174	0.193	0.171	nr <sup>2</sup>
Total Phosphorus	mg/L P	0.3322	0.3330	0.3308	0.3435	0.2560	0.2188	0.2197	0.2300	0.2266	0.2427	0.2374
Escherichia Coliform	MPN/100 mL	<10	10	40	90	<10	<10	<10	30	50	40	20
Fecal Coliform	MPN/100 mL	<10	30	50	100	10	10	<10	10	110	70	50

Weather Conditions during monitoring Winds NW at 11.7 km/hr with 90% cloud cover and 0 mm of precipitation. Average air temperature during survey at 26°C

Notes: 1) Red River Floodway at South Floodway Control Gates **734.8** ft. Compiled By: H.Demchenko  
2) No result due to sample contamination. Compliance Reporting Technician

Approved By: C.Diduck  
Analytical Services Branch Head

Date Compiled: 9-May-19

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