

**City of Winnipeg  
Water and Waste Department**

**2018 RIVERS SURVEY MONITORING REPORT**

Survey Date: <b>November 8, 2018</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>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>155330</b>	<b>155332</b>	<b>155329</b>	<b>155331</b>	<b>155333</b>	<b>155339</b>	<b>155334</b>	<b>155337</b>	<b>155338</b>	<b>155336</b>	<b>155335</b>
Temperature	° C	0.1	0.1	0.2	0.1	1.6	1.9	1.3	2.0	2.0	1.6	1.8
Dissolved Oxygen	mg/L	14.4	14.6	14.4	14.4	13.2	13.0	13.2	12.8	13.0	13.3	13.7
Oxygen Saturation	%	98.3	99.7	99.2	98.7	94.2	93.2	93.4	92.2	94.0	94.6	98.4
Biochemical Oxygen Demand	mg/L	4	5	4	5	<4	<4	<4	<4	<4	<4	6
pH	units	8.60	8.75	8.76	8.70	8.69	8.68	8.60	8.44	8.35	8.30	8.21
Total Solids	mg/L	852	838	816	830	932	930	926	896	856	840	856
Total Suspended Solids	mg/L	76	68	62	58	84	87	73	59	58	44	77
Turbidity	n.t.u.	48.4	47.0	40.9	44.7	63.0	67.0	61.0	49.3	53.5	36.1	58.0
Total Organic Carbon	mg/L	9.1	10.0	9.8	9.7	13.2	13.2	13.5	12.7	12.7	12.6	12.5
Chlorophyll a	ug/L	56.7	58.1	70.8	78.8	11.3	9.8	10.7	9.8	23.1	8.9	24.0
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	0.026	0.036	0.010	0.195	0.268	0.148	0.514	0.585
Nitrate Nitrogen	mg/L N	0.085	0.019	0.009	0.067	0.396	0.452	0.517	0.583	0.440	0.457	0.487
Total Nitrogen	mg/L N	0.9	1.0	0.9	1.0	1.5	1.6	1.9	2.0	1.7	2.2	2.4
Soluble Phosphorus	mg/L P	0.137	0.143	0.134	0.159	0.147	0.153	0.153	0.185	0.166	0.220	0.313
Total Phosphorus	mg/L P	0.2552	0.2345	0.2404	0.2696	0.2063	0.2353	0.2348	0.2350	0.2106	0.2577	0.2865
Escherichia Coliform	MPN/100 mL	20	<10	30	240	10	10	<10	<10	100	70	210
Fecal Coliform	MPN/100 mL	<10	40	80	130	10	20	10	90	60	70	120

Weather Conditions during monitoring Winds NW at 1.1 km/hr with 95% cloud cover and 0.4 mm of precipitation. Average air temperature during survey at -6°C

Notes: 1) Red River Floodway at South Floodway Control Gates **729.8** 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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