

**City of Winnipeg
Water and Waste Department**

2018 RIVERS SURVEY MONITORING REPORT

Survey Date: September 20, 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		142248	142250	142247	142249	142251	142257	142252	142255	142256	142254	142253
Temperature	° C	13.2	13.1	12.8	13.3	14.8	15.1	15.3	14.4	14.2	13.8	14.6
Dissolved Oxygen	mg/L	10.1	10.5	10.5	9.98	10.3	9.68	9.43	9.09	9.20	9.05	9.36
Oxygen Saturation	%	96.5	99.9	98.7	95.2	102	96.4	94.6	90.9	90.0	88.3	91.7
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	4	4
pH	units	8.72	8.69	8.73	8.58	8.66	8.59	8.53	8.48	8.61	8.33	8.34
Total Solids	mg/L	752	754	760	728	774	720	782	830	760	790	720
Total Suspended Solids	mg/L	110	110	104	56	47	50	52	51	43	36	30
Turbidity	n.t.u.	72.6	72.4	70.6	41.2	46.6	52.6	52.6	50.6	37.2	30.8	30.5
Total Organic Carbon	mg/L	9.4	9.0	9.0	9.0	10.0	9.5	10.1	9.6	9.5	9.0	9.0
Chlorophyll a	ug/L	61.4	58.7	66.8	62.7	30.7	23.4	30.7	28.0	42.7	37.4	22.7
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	0.004	0.953	0.467	0.148	1.030	nr ²
Nitrate Nitrogen	mg/L N	0.177	0.158	0.054	0.105	0.289	0.339	0.200	0.249	0.249	0.393	0.400
Total Nitrogen	mg/L N	0.8	0.9	0.7	0.8	1.1	1.1	2.0	1.5	1.1	2.2	1.8
Soluble Phosphorus	mg/L P	0.123	0.122	0.115	0.107	0.080	0.094	0.207	0.136	0.136	0.280	0.194
Total Phosphorus	mg/L P	0.2771	0.2679	0.3039	0.2422	0.1305	0.1521	0.2904	0.2181	0.1940	0.3662	0.2951
Escherichia Coliform	MPN/100 mL	570	790	790	860	210	110	150	140	290	370	310
Fecal Coliform	MPN/100 mL	660	1020	990	990	270	120	120	190	360	400	270

Weather Conditions during monitoring Winds NE at 3.7 km/hr with 100% cloud cover and 0 mm of precipitation. Average air temperature during survey at 11°C

Notes: 1) Red River Floodway at South Floodway Control Gates **734.4** ft. Compiled By: H.Demchenko
Compliance Reporting Technician

2) No result due to technician error. Approved By: C.Diduck
Analytical Services Branch Head

Date Compiled: 9-May-19

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