

**City of Winnipeg  
Water and Waste Department**

**2018 RIVERS SURVEY MONITORING REPORT**

Survey Date: July 5, 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>6456</b>	<b>6458</b>	<b>6455</b>	<b>6457</b>	<b>6459</b>	<b>6465</b>	<b>6460</b>	<b>6463</b>	<b>6464</b>	<b>6462</b>	<b>6461</b>
Temperature	° C	23.4	23.3	22.8	22.5	25.1	24.9	24.4	23.3	23.2	22.8	23.1
Dissolved Oxygen	mg/L	8.62	8.74	8.52	8.15	7.35	7.40	7.34	8.15	7.57	7.78	8.66
Oxygen Saturation	%	102	103	98.9	94.1	89.0	89.4	87.8	84.8	88.8	91.2	101
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
pH	units	8.70	8.70	8.69	8.66	8.21	8.07	8.17	8.07	8.40	8.36	8.34
Total Solids	mg/L	1050	1110	1050	1070	1070	924	854	862	834	784	724
Total Suspended Solids	mg/L	240	250	243	228	258	118	114	74	72	62	64
Turbidity	n.t.u.	137.2	146.8	117.2	94.8	161.5	56.4	78.8	64.4	44.0	21.8	41.2
Total Organic Carbon	mg/L	13.7	15.4	13.2	14.5	14.1	12.7	12.1	11.7	12.3	11.9	12.0
Chlorophyll a	ug/L	69.4	71.2	66.8	57.4	5.7	4.5	2.7	2.7	22.3	25.4	34.7
Ammonia Nitrogen	mg/L N	0.058	0.016	<0.003	0.035	<0.003	0.039	0.150	0.416	0.074	0.329	0.897
Nitrate Nitrogen	mg/L N	<0.003	0.004	0.015	0.015	1.05	1.06	1.13	1.22	0.827	0.768	0.835
Total Nitrogen	mg/L N	0.8	0.9	0.7	0.9	2.0	1.8	2.0	2.2	1.6	1.7	2.1
Soluble Phosphorus	mg/L P	0.096	0.161	0.114	0.096	0.219	0.210	0.211	0.203	0.150	0.209	0.195
Total Phosphorus	mg/L P	0.3461	0.3479	0.3601	0.3576	0.4039	0.2968	0.3039	0.3067	0.2686	0.2467	0.3682
Escherichia Coliform	MPN/100 mL	30	70	130	380	30	10	10	150	580	1220	4880
Fecal Coliform	MPN/100 mL	90	60	50	290	50	20	60	120	460	740	3870

Weather Conditions during monitoring Winds NW at 9.1 km/hr with 10% 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 **735.1** 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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