



2020 RIVERS SURVEY MONITORING REPORT

Survey Date: July 30, 2020		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* (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Sample Number		318888	318894	318883	318890	318896	318903	318898	318901	318902	318900	318899
Temperature	° C	25.4	25.4	24.9	24.4	25.6	25.3	25.9	24.9	24.9	24.6	24.4
Dissolved Oxygen	mg/L	8.0	8.1	8.2	7.5	6.9	6.7	6.6	6.5	6.5	6.6	7.8
Oxygen Saturation	%	97	98	99	89	84	82	81	78	79	79	93
Biochemical Oxygen Demand	mg/L	4	4	6	4	<8	>22	18	<8	<8	<8	<8
pH	units	8.25	8.23	8.30	8.32	7.78	7.94	7.73	7.72	7.90	7.61	7.60
Total Solids	mg/L	794	828	772	694	1,070	1,070	1,040	1,050	994	1,070	1,040
Total Suspended Solids	mg/L	164	174	164	86	306	324	286	312	286	272	326
Turbidity	n.t.u.	32	32	44	32	97	82	173	46	107	40	93
Total Organic Carbon	mg/L	14.2	14.5	13.6	14.9	14.2	15.7	14.3	16.3	16.2	15.8	15.8
Chlorophyll a	ug/L	34.7	37.4	45.4	5.3	2.7	5.3	5.3	37.4	5.3	13.4	8.0
Ammonia Nitrogen	mg/L N	0.030	0.067	0.012	0.041	0.014	0.011	0.050	0.063	0.050	0.120	0.125
Nitrate Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.535	0.546	0.546	0.534	0.459	0.475	0.549
Total Nitrogen	mg/L N	1.1	1.1	1.1	1.2	1.8	2.0	2.1	2.1	1.9	2.0	2.2
Soluble Phosphorus	mg/L P	0.21	0.21	0.22	0.21	0.22	0.22	0.23	0.23	0.22	0.23	0.23
Total Phosphorus	mg/L P	0.41	0.40	0.41	0.34	0.44	0.43	0.42	0.48	0.43	0.45	0.52
Escherichia Coliform	MPN/100 mL	110	30	180	60	70	30	20	<10	30	10	20
Fecal Coliform	MPN/100 mL	200	90	120	40	60	10	20	30	40	10	20

Notes: ns - no sample na - not analyzed nr - no result

Red River elevation at South Floodway control gates: 735.6 ft

Weather conditions during monitoring:

Wind Direction: South (S)

Wind Speed: 8 km/h

Cloud Coverage: 50%

Precipitation: 0 mm

Air Temperature: 27°C

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