



2021 RIVERS SURVEY MONITORING REPORT

Survey Date: May 27, 2021		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		395117	395121	395112	395119	395125	395131	395126	395129	395130	395128	395127
Temperature	° C	12.5	12.9	11.8	12.9	14.4	14.2	14.2	13.6	13.5	13.1	14.1
Dissolved Oxygen	mg/L	11.1	11.1	10.9	10.0	8.4	8.5	8.5	8.4	8.5	8.2	8.3
Oxygen Saturation	%	104	105	101	95	83	80	83	79	81	79	100
Biochemical Oxygen Demand	mg/L	5	5	5	5	<4	<4	<4	<4	<4	<4	<4
pH	units	8.81	8.79	8.78	8.87	8.09	8.03	8.01	7.94	8.08	8.02	8.14
Total Solids	mg/L	598	600	612	596	1,270	920	712	876	576	490	504
Total Suspended Solids	mg/L	32	39	39	25	896	572	280	548	220	170	54
Turbidity	n.t.u.	18	20	20	16	766	442	258	439	184	128	45
Total Organic Carbon	mg/L	9.7	10.8	10.8	10.5	21.9	19.7	13.3	17.4	12.7	10.2	9.4
Chlorophyll a	ug/L	28.0	29.4	26.7	25.4	8.0	5.3	4.0	5.3	8.0	8.0	2.7
Ammonia Nitrogen	mg/L N	0.010	0.023	0.007	0.013	0.262	0.288	0.340	0.423	0.375	0.576	0.419
Nitrate Nitrogen	mg/L N	<0.003	0.005	0.003	0.005	0.920	0.991	1.02	1.23	1.13	1.23	1.21
Total Nitrogen	mg/L N	0.8	0.9	0.8	0.9	3.7	3.1	2.6	3.3	2.9	2.8	2.6
Soluble Phosphorus	mg/L P	0.04	0.03	0.02	0.03	0.15	0.16	0.17	0.28	0.29	0.18	0.15
Total Phosphorus	mg/L P	0.12	0.13	0.13	0.10	0.57	0.53	0.37	0.53	0.34	0.29	0.20
Escherichia Coliform	MPN/100 mL	<10	<10	20	80	100	20	30	60	40	50	40
Fecal Coliform	MPN/100 mL	10	10	<10	120	150	10	80	150	20	50	30

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

Red River elevation at South Floodway control gates: 733.86 ft

Weather conditions during monitoring:

Wind Direction: North East (NE)

Wind Speed: 14 km/h

Cloud Coverage: 20%

Precipitation: <0.1 mm

Air Temperature: 7°C

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