



2020 RIVERS SURVEY MONITORING REPORT

Survey Date: October 8, 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		337076	337080	337070	337078	337083	337090	337085	337088	337089	337087	337086
Temperature	° C	10.1	9.9	9.7	10.8	11.6	11.6	11.8	11.0	11.0	11.0	11.0
Dissolved Oxygen	mg/L	11.8	11.8	11.0	10.9	11.0	10.9	10.8	11.3	11.2	11.3	10.9
Oxygen Saturation	%	105	104	97	99	99	100	100	102	102	102	99
Biochemical Oxygen Demand	mg/L	5	4	4	4	<4	<4	<4	<4	<4	<4	<4
pH	units	8.62	8.61	8.64	8.66	8.56	8.55	8.56	8.47	8.55	8.47	8.44
Total Solids	mg/L	638	644	668	668	648	646	678	652	646	650	628
Total Suspended Solids	mg/L	19	21	20	23	15	15	13	9	10	11	8
Turbidity	n.t.u.	13	137	13	16	12	11	10	8	8	8	6
Total Organic Carbon	mg/L	11.1	11.8	10.4	10.3	12.1	12.1	11.4	12.0	12.7	12.2	12.0
Chlorophyll a	ug/L	32.7	33.4	30.0	23.4	20.0	15.4	14.0	25.4	24.7	26.0	18.0
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.311	0.380	0.101	0.603	0.519
Nitrate Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.192	0.192	0.196	0.158	0.146	0.207	0.227
Total Nitrogen	mg/L N	0.6	1.1	0.6	0.7	0.9	1.0	1.5	1.2	1.6	1.8	1.6
Soluble Phosphorus	mg/L P	0.07	0.08	0.13	0.12	0.17	0.18	0.22	0.22	0.19	nr	0.25
Total Phosphorus	mg/L P	0.14	0.12	0.14	0.13	0.18	0.20	0.23	0.22	0.19	0.24	0.24
Escherichia Coliform	MPN/100 mL	110	130	160	190	110	100	90	100	110	380	50
Fecal Coliform	MPN/100 mL	120	130	180	240	150	60	130	40	160	350	60

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

Red River elevation at South Floodway control gates: 734.06 ft

Weather conditions during monitoring:

Wind Direction: South East (SE)

Wind Speed: 17 km/h

Cloud Coverage: 80%

Precipitation: 0 mm

Air Temperature: 7°C

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