



2020 RIVERS SURVEY MONITORING REPORT

Survey Date: August 13, 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		322572	322576	322567	322574	322580	322587	322582	322585	322586	322584	322583
Temperature	° C	21.6	21.3	21.4	21.9	22.6	22.3	22.0	22.4	22.3	22.1	22.3
Dissolved Oxygen	mg/L	8.0	8.0	7.8	7.5	7.5	7.4	7.5	7.2	7.4	7.3	8.4
Oxygen Saturation	%	91	91	89	86	86	85	86	83	85	84	97
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
pH	units	8.59	8.96	8.58	8.58	8.15	8.15	8.14	8.10	8.23	8.19	8.23
Total Solids	mg/L	834	846	820	808	1,210	1,110	1,040	1,120	966	924	886
Total Suspended Solids	mg/L	96	76	86	86	266	204	127	204	52	34	18
Turbidity	n.t.u.	73	73	63	56	200	136	91	148	62	35	20
Total Organic Carbon	mg/L	15.2	15.4	14.0	14.6	13.4	14.8	13.5	14.7	14.7	13.9	12.9
Chlorophyll a	ug/L	26.7	24.0	24.0	24.0	4.0	4.0	4.0	4.0	4.7	5.3	2.0
Ammonia Nitrogen	mg/L N	0.006	0.006	0.003	<0.003	0.127	0.006	0.115	0.114	0.112	0.254	0.216
Nitrate Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.584	0.581	0.575	0.634	0.491	0.524	0.573
Total Nitrogen	mg/L N	1.1	1.3	1.1	1.2	1.9	1.8	1.8	1.9	1.6	1.7	1.9
Soluble Phosphorus	mg/L P	0.13	0.16	0.13	0.14	0.27	0.25	0.26	0.38	nr	0.27	0.28
Total Phosphorus	mg/L P	0.28	0.27	0.28	0.28	0.49	0.41	0.37	0.42	0.31	0.30	0.30
Escherichia Coliform	MPN/100 mL	10	20	30	50	20	20	20	10	20	70	60
Fecal Coliform	MPN/100 mL	10	10	40	130	10	10	20	40	50	130	10

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

Red River elevation at South Floodway control gates: 744.3 ft

Weather conditions during monitoring:

Wind Direction: South East (SE)

Wind Speed: 7 km/h

Cloud Coverage: 100%

Precipitation: 11.5 mm

Air Temperature: 19°C

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