



2021 RIVERS SURVEY MONITORING REPORT

Survey Date: June 24, 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		402407	402410	402403	402409	402415	402422	402416	402420	402421	402419	402418
Temperature	° C	21.5	21.6	20.9	20.8	21.6	22.0	21.6	20.7	20.6	20.0	20.3
Dissolved Oxygen	mg/L	8.0	7.9	8.1	7.4	9.3	9.9	9.7	8.0	8.2	7.2	8.5
Oxygen Saturation	%	91	89	90	83	106	114	110	89	92	79	94
Biochemical Oxygen Demand	mg/L	4	4	<4	<4	<4	<4	<4	4	>7	>7	5
pH	units	8.50	8.37	8.41	8.39	8.56	8.65	8.53	8.33	8.38	8.10	8.14
Total Solids	mg/L	966	1,070	1,060	892	758	668	642	654	706	678	608
Total Suspended Solids	mg/L	166	250	243	79	28	29	29	32	31	60	10
Turbidity	n.t.u.	90	146	135	49	18	17	19	21	21	40	12
Total Organic Carbon	mg/L	17.6	16.2	<0.1	15.2	13.2	13.3	13.1	12.8	13.2	12.9	11.9
Chlorophyll a	ug/L	40.1	46.7	40.1	44.1	13.4	13.4	18.7	17.4	34.7	32.0	9.3
Ammonia Nitrogen	mg/L N	<0.003	0.024	0.007	<0.003	0.007	0.121	0.554	0.208	0.086	1.01	0.596
Nitrate Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.014	<0.003	0.017	0.037	0.023	0.055	0.127
Total Nitrogen	mg/L N	1.2	0.9	<0.2	1.1	0.6	0.6	1.4	0.9	0.9	2.0	1.3
Soluble Phosphorus	mg/L P	0.09	0.07	0.08	0.08	0.15	0.09	0.16	0.12	0.09	0.21	0.16
Total Phosphorus	mg/L P	0.28	0.39	0.36	0.24	0.16	0.15	0.20	0.16	0.19	0.36	0.22
Escherichia Coliform	MPN/100 mL	10	20	60	80	<10	20	10	20	60	110	20
Fecal Coliform	MPN/100 mL	30	90	60	150	<10	<10	20	50	20	80	10

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

Red River elevation at South Floodway control gates: 761 ft

Weather conditions during monitoring:

Wind Direction: North West (NW)

Wind Speed: 11 km/h

Cloud Coverage: 20%

Precipitation: <0.1 mm

Air Temperature: 23°C

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