



2019 RIVERS SURVEY MONITORING REPORT

Survey Date: July 11, 2019		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		221039	221041	221038	221040	221042	221048	221043	221046	221047	221045	221044
Temperature	° C	23.4	22.7	22.3	23.1	23.7	24.2	24.0	23.3	22.0	22.1	22.0
Dissolved Oxygen	mg/L	7.7	7.8	7.9	7.4	7.0	7.0	7.0	6.7	6.6	6.3	8.3
Oxygen Saturation	%	91	91	91	87	86	84	83	79	76	72	95
Biochemical Oxygen Demand	mg/L	5	6	5	6	6	<4	4	>8	>7	>7	>8
pH	units	8.69	8.65	8.54	8.61	8.29	8.29	8.26	8.32	8.24	8.05	8.21
Total Solids	mg/L	850	852	802	764	1,070	1,020	1,020	1,060	988	888	934
Total Suspended Solids	mg/L	85	82	83	45	208	118	134	132	116	105	48
Turbidity	n.t.u.	47	56	51	32	124	88	89	101	73	64	31
Total Organic Carbon	mg/L	10.8	12.5	9.7	12.5	13.2	14.2	13.4	13.2	12.6	12.4	13.0
Chlorophyll a	ug/L	30.7	29.4	32.0	37.4	8.0	9.3	8.0	8.0	6.7	8.0	14.7
Ammonia Nitrogen	mg/L N	<0.003	0.005	0.015	0.034	<0.003	0.006	0.036	0.030	0.031	0.169	0.195
Nitrate Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	1.62	1.70	1.71	1.89	1.91	2.17	1.35
Total Nitrogen	mg/L N	0.8	0.8	0.8	1.0	3.0	3.0	3.0	3.3	3.2	3.7	2.9
Soluble Phosphorus	mg/L P	0.12	0.11	0.16	0.17	0.28	0.29	0.27	0.24	0.24	0.21	0.22
Total Phosphorus	mg/L P	0.20	0.20	0.24	0.20	0.37	0.32	0.32	0.30	0.27	0.26	0.23
Escherichia Coliform	MPN/100 mL	110	110	470	4,350	160	100	160	1,110	1,220	1,270	13,000
Fecal Coliform	MPN/100 mL	70	110	590	5,790	220	220	170	1,240	1,150	2,280	17,300

Notes: NS - No Sample NA - Not Analyzed NR - No Result

Red River elevation at South Floodway control gates: 734.4 ft

Weather conditions during monitoring:

Wind Direction: S
 Wind Speed: 15.2 km/h
 Cloud Coverage: 15%
 Precipitation: 17.7 mm
 Air Temperature: 28°C

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