



2019 RIVERS SURVEY MONITORING REPORT

Survey Date: August 22, 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		233621	233623	233620	233622	233624	233630	233625	233628	233629	233627	233626
Temperature	° C	19.0	19.4	18.3	19.4	20.2	21.0	21.2	20.0	19.7	19.6	19.8
Dissolved Oxygen	mg/L	8.7	9.1	9.1	8.5	8.7	8.6	8.6	8.4	8.2	8.1	9.2
Oxygen Saturation	%	94	92	96	92	99	96	97	93	90	88	100
Biochemical Oxygen Demand	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	units	8.75	8.73	8.70	8.64	8.37	8.37	8.35	8.33	8.34	8.24	8.19
Total Solids	mg/L	882	866	876	860	832	836	812	796	770	786	788
Total Suspended Solids	mg/L	79	63	69	34	35	24	28	28	21	28	5
Turbidity	n.t.u.	45	49	49	30	25	19	20	20	19	20	8
Total Organic Carbon	mg/L	12.9	12.5	13.2	12.8	13.1	12.7	12.5	12.6	12.9	13.0	13.2
Chlorophyll a	ug/L	26.7	24.0	28.0	30.7	6.7	9.3	10.7	9.3	9.3	10.7	4.7
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.016	<0.003	0.167	0.162	0.092	0.584	0.365
Nitrate Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.302	0.291	0.289	0.353	0.322	0.407	0.422
Total Nitrogen	mg/L N	0.9	0.8	0.9	0.9	1.1	1.1	1.3	1.3	1.3	2.2	1.8
Soluble Phosphorus	mg/L P	0.08	0.08	0.13	0.09	0.26	0.22	0.27	0.29	0.26	0.31	0.27
Total Phosphorus	mg/L P	0.20	0.22	0.26	0.17	0.28	0.24	0.28	0.27	0.24	0.31	0.33
Escherichia Coliform	MPN/100 mL	20	90	130	350	10	10	<10	40	70	680	550
Fecal Coliform	MPN/100 mL	20	50	100	660	10	30	80	130	90	680	590

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

Red River elevation at South Floodway control gates: 734 ft

Weather conditions during monitoring:

Wind Direction: SE
Wind Speed: 5.8 km/h
Cloud Coverage: 40%
Precipitation: 0 mm
Air Temperature: 22°C

Compiled By: A. Gordon
Compliance Reporting Technician

Approved By: C. Diduck
Analytical Services Branch Head

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