



## 2019 RIVERS SURVEY MONITORING REPORT

Survey Date: June 13, 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		212219	212221	212218	212220	212222	212228	212223	212226	212227	212225	212224
Temperature	° C	19.0	19.3	18.6	19.8	21.0	21.1	20.4	19.9	19.8	19.3	19.1
Dissolved Oxygen	mg/L	8.3	8.6	8.6	7.9	7.5	7.4	7.9	7.8	7.9	8.0	8.9
Oxygen Saturation	%	90	93	92	86	84	84	87	86	86	86	96
Biochemical Oxygen Demand	mg/L	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH	units	8.62	8.66	8.65	8.53	8.16	8.15	8.21	8.18	8.29	8.23	8.24
Total Solids	mg/L	734	766	750	764	1,010	960	896	982	898	884	864
Total Suspended Solids	mg/L	41	48	45	56	222	183	100	146	79	66	53
Turbidity	n.t.u.	22	28	28	38	66	70	56	73	39	41	35
Total Organic Carbon	mg/L	9.9	10.9	9.8	9.8	11.3	11.7	13.3	11.8	11.8	11.5	11.6
Chlorophyll a	ug/L	16.0	16.0	18.7	21.4	10.7	10.7	14.7	12.0	13.4	13.4	14.7
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.095	0.040	0.016	0.105	0.144
Nitrate Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.284	0.263	0.182	0.211	0.206	0.215	0.321
Total Nitrogen	mg/L N	0.5	0.6	0.6	0.6	1.0	1.0	0.9	0.9	0.9	1.1	1.3
Soluble Phosphorus	mg/L P	0.11	0.09	0.12	0.14	0.16	0.14	0.13	0.15	0.16	0.11	0.17
Total Phosphorus	mg/L P	0.17	0.14	0.18	0.16	0.16	0.15	0.15	0.14	0.18	0.15	0.17
Escherichia Coliform	MPN/100 mL	<10	<10	10	80	30	10	20	90	20	50	110
Fecal Coliform	MPN/100 mL	10	10	10	70	40	<10	20	110	60	120	130

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

Red River elevation at South Floodway control gates: 733.4 ft

Weather conditions during monitoring:

Wind Direction: S

Wind Speed: 7.6 km/h

Cloud Coverage: 40%

Precipitation: 0.2 mm

Air Temperature: 24°C

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