



## 2020 RIVERS SURVEY MONITORING REPORT

Survey Date: June 6, 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		304701	304708	304697	304707	304709	304717	304711	304715	304716	304714	304713
Temperature	° C	18.3	18.4	17.6	17.8	18.9	18.8	18.8	18.4	18.4	18.2	18.1
Dissolved Oxygen	mg/L	9.1	9.0	8.4	8.6	8.4	8.4	8.4	8.2	8.1	8.2	9.2
Oxygen Saturation	%	96	96	94	91	90	90	90	88	87	87	98
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	4
pH	units	8.24	8.24	8.24	8.20	7.90	8.01	7.98	7.94	8.01	7.99	8.02
Total Solids	mg/L	868	864	852	894	994	902	928	1,000	990	948	922
Total Suspended Solids	mg/L	151	138	152	175	140	78	73	90	94	64	86
Turbidity	n.t.u.	70	69	70	77	75	48	44	51	50	36	39
Total Organic Carbon	mg/L	13.2	12.9	12.5	12.6	13.0	12.5	12.7	12.9	12.3	12.6	14.1
Chlorophyll a	ug/L	24.0	23.1	25.8	24.7	8.9	8.0	7.3	5.3	9.3	10.0	4.7
Ammonia Nitrogen	mg/L N	0.006	<0.003	0.004	0.006	0.018	0.024	0.065	0.142	0.079	0.149	0.378
Nitrate Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.160	0.166	0.172	0.192	0.154	0.155	0.255
Total Nitrogen	mg/L N	0.6	0.7	0.6	0.7	0.8	0.8	0.8	0.9	0.8	0.9	2.3
Soluble Phosphorus	mg/L P	0.08	0.07	0.07	0.08	0.13	0.12	0.12	0.14	0.15	0.13	0.31
Total Phosphorus	mg/L P	0.31	0.27	0.31	0.29	0.22	0.24	0.20	0.21	0.23	0.20	0.40
Escherichia Coliform	MPN/100 mL	<10	10	20	160	<10	<10	<10	40	80	30	320
Fecal Coliform	MPN/100 mL	10	<10	40	160	20	<10	10	10	40	30	310

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

Red River elevation at South Floodway control gates: 733.6 ft

Weather conditions during monitoring:

Wind Direction: East (E)

Wind Speed: 28 km/h

Cloud Coverage: 95%

Precipitation: 0 mm

Air Temperature: 13°C

Compiled By: H. Demchenko  
Compliance Reporting Technician

Approved By: B. Bradford  
Analytical Services Branch Head

Date Compiled: 13-Jul-20