



City of Winnipeg
Water and Waste Department

2022 RIVERS MONITORING

Survey Date: August 18, 2022 - August 19, 2022		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		505163	505165	505162	505164	505167	505174	505169	505172	505173	505171	505170
Temperature	°C	23.7	23.8	23.1	23.0	23.5	24.1	23.9	23.4	23.1	23.7	23.5
pH	units	8.43	8.43	8.43	8.41	8.18	8.15	8.15	8.16	8.23	8.17	8.16
Dissolved Oxygen	mg/L	7.8	7.9	7.9	7.6	7.3	7.1	7.1	6.8	7.1	7.3	8.0
Oxygen Saturation	%	93	93	92	89	86	85	84	80	83	85	94
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Total Solids	mg/L	764	772	772	738	500	636	602	596	664	670	620
Total Suspended Solids	mg/L	128	151	134	123	60	45	27	16	35	31	13
Turbidity	n.t.u.	73	77	78	73	44	38	25	14	25	21	10
Chlorophyll a	ug/L	36.0	37.4	31.4	33.4	5.3	4.0	4.0	2.0	12.0	10.0	4.7
Total Organic Carbon	mg/L	na	na	na	na	na	na	na	na	na	11.8	11.9
Total Nitrogen	mg/L N	0.9	0.7	0.8	0.7	1.1	1.2	1.3	1.3	1.1	1.4	2.0
Ammonia Nitrogen	mg/L N	0.062	0.007	0.007	0.010	0.011	0.015	0.051	0.057	0.032	0.189	0.109
Nitrate Nitrogen	mg/L N	0.118	0.112	0.112	0.115	0.530	0.556	0.612	0.645	0.425	0.430	0.462
Soluble Phosphorus	mg/L P	0.26	0.17	0.16	0.16	0.20	0.22	0.21	0.20	0.18	0.20	0.19
Total Phosphorus	mg/L P	0.31	0.32	0.27	0.29	0.27	0.28	0.27	0.24	0.23	0.25	0.21
Escherichia coli	MPN/100 mL	160	50	280	2,850	300	730	5,010	1,150	2,060	1,470	930
Fecal Coliform	MPN/100 mL	70	30	430	770	700	780	5,490	1,040	6,490	2,140	960

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

Weather conditions during monitoring:

Wind Direction: North East (NE)
 Wind Speed: 39 km/h
 Cloud Coverage: 100 %
 Precipitation: 41.7 mm
 Air Temperature: 19 °C

Report Date:

December 01, 2022

Red River at Lockport and North Perimeter Bridge sampled August 18, all other location sampled August 19:

River Elevation: 742 ft Precipitation: 1 mm Wind: 21 km/h (N) Air Temperature: 21 C Cloud Coverage: 10%