



City of Winnipeg
Water and Waste Department

2022 RIVERS MONITORING

Survey Date: June 9, 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		486027	486031	486022	486029	486036	486042	486037	486040	486041	486039	486038
Temperature	°C	18.1	18.2	18.1	19.9	18.6	18.1	18.2	17.7	17.7	17.3	17.2
pH	units	8.16	8.19	8.25	8.18	7.99	8.01	8.01	8.02	8.05	8.05	8.05
Dissolved Oxygen	mg/L	8.5	8.4	8.9	8.3	7.7	7.8	7.6	7.5	7.7	8.2	8.1
Oxygen Saturation	%	89	89	94	87	82	82	80	79	81	85	85
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Total Solids	mg/L	890	904	964	882	704	644	742	1,090	758	918	792
Total Suspended Solids	mg/L	300	304	354	288	102	106	94	106	154	160	154
Turbidity	n.t.u.	129	139	141	132	55	47	58	57	81	80	79
Chlorophyll a	ug/L	4.0	4.0	4.0	3.3	4.7	4.0	2.7	3.3	3.3	2.7	2.0
Total Organic Carbon	mg/L	14.0	14.3	14.3	13.7	13.1	12.9	12.8	13.5	12.6	13.3	13.0
Total Nitrogen	mg/L N	0.7	0.8	0.6	0.6	1.3	1.3	1.5	1.5	1.1	1.0	1.2
Ammonia Nitrogen	mg/L N	0.014	0.018	0.027	0.015	0.041	0.049	0.066	0.074	0.069	0.082	0.111
Nitrate Nitrogen	mg/L N	0.076	0.078	0.082	0.083	0.704	0.700	0.699	0.667	0.534	0.540	0.558
Soluble Phosphorus	mg/L P	0.15	0.21	0.15	0.13	0.33	0.21	0.19	0.20	0.28	0.37	0.23
Total Phosphorus	mg/L P	0.32	0.36	0.36	0.29	0.36	0.28	0.28	0.28	0.37	0.41	0.34
Escherichia coli	MPN/100 mL	<10	10	80	30	<10	10	<10	10	20	20	20
Fecal Coliform	MPN/100 mL	<10	50	50	50	20	10	<10	10	30	20	30

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

Weather conditions during monitoring:

Wind Direction: North East (NE)
 Wind Speed: 9 km/h
 Cloud Coverage: 10 %
 Precipitation: <0.1 mm
 Air Temperature: 17 °C

Report Date:

June 24, 2022