



City of Winnipeg
Water and Waste Department

2022 RIVERS MONITORING

Survey Date: September 29, 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		516429	516431	516428	516430	516433	516440	516435	516438	516439	516437	516436
Temperature	°C	12.2	12.4	12.1	12.3	13.9	14.0	14.4	13.5	13.4	13.4	13.3
pH	units	8.60	8.65	8.67	8.61	8.19	8.19	8.16	8.09	8.33	7.81	8.12
Dissolved Oxygen	mg/L	12.5	12.7	12.5	12.1	10.4	10.2	10.2	9.9	10.4	9.9	11.9
Oxygen Saturation	%	116	120	116	113	100	99	99	95	99	95	102
Biochemical Oxygen Demand	mg/L	<4	<4	4	<4	<4	<4	<4	<4	<4	<4	<4
Total Solids	mg/L	752	766	760	752	500	472	470	452	516	526	472
Total Suspended Solids	mg/L	67	73	63	52	34	22	18	6	17	18	5
Turbidity	n.t.u.	39	41	39	31	29	22	19	10	13	15	6
Chlorophyll a	ug/L	65.0	70.3	64.1	73.9	6.7	6.0	5.3	1.3	15.0	10.0	2.7
Total Organic Carbon	mg/L	10.0	9.1	9.4	9.4	13.2	12.8	12.8	13.1	12.5	12.6	11.7
Total Nitrogen	mg/L N	0.6	0.5	0.5	0.7	1.1	1.0	1.2	1.3	1.1	1.7	1.8
Ammonia Nitrogen	mg/L N	<0.003	<0.003	0.008	<0.003	0.044	0.031	0.036	0.068	0.024	0.415	0.361
Nitrate Nitrogen	mg/L N	0.049	<0.003	<0.003	<0.003	0.362	0.345	0.505	0.575	0.481	0.654	0.868
Soluble Phosphorus	mg/L P	0.10	0.09	0.08	0.08	0.17	0.17	0.18	0.20	0.17	0.21	0.24
Total Phosphorus	mg/L P	0.19	0.23	0.20	0.19	0.17	0.20	0.17	0.20	0.18	0.27	0.24
Escherichia coli	MPN/100 mL	740	930	1,050	430	220	120	110	40	100	40	70
Fecal Coliform	MPN/100 mL	790	890	880	640	220	180	110	10	40	60	120

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

Weather conditions during monitoring:

Wind Direction: South (S)
 Wind Speed: 22 km/h
 Cloud Coverage: 0 %
 Precipitation: <0.1 mm
 Air Temperature: 21 °C

Report Date:

November 28, 2022