



City of Winnipeg
Water and Waste Department

2022 RIVERS MONITORING

Survey Date: October 27, 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		524039	524041	524038	524040	524043	524050	524045	524048	524049	524047	524046
Temperature	°C	5.0	5.1	5.1	4.7	7.0	6.4	6.9	6.4	6.0	6.5	6.4
pH	units	8.50	8.51	8.53	8.52	8.38	8.40	8.38	8.42	8.44	8.35	8.24
Dissolved Oxygen	mg/L	12.0	12.1	11.9	11.8	10.7	11.0	10.9	10.7	11.0	10.9	11.3
Oxygen Saturation	%	93	95	93	92	88	89	89	86	88	89	92
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Total Solids	mg/L	806	782	882	800	604	548	572	588	626	614	598
Total Suspended Solids	mg/L	64	59	53	56	32	38	38	28	22	21	6
Turbidity	n.t.u.	35	33	30	35	28	30	33	27	20	15	6
Chlorophyll a	ug/L	26.7	27.8	29.4	36.0	7.3	6.4	8.0	6.9	13.9	10.7	2.1
Total Organic Carbon	mg/L	9.6	9.5	9.7	9.7	12.5	12.7	12.7	13.0	11.7	12.1	11.9
Total Nitrogen	mg/L N	0.4	0.4	0.4	0.4	0.7	0.7	0.8	0.8	0.7	1.3	1.4
Ammonia Nitrogen	mg/L N	0.019	0.057	<0.003	0.003	0.051	0.044	0.053	0.074	0.041	0.437	0.493
Nitrate Nitrogen	mg/L N	na	na	na	na	na	na	na	na	na	na	na
Soluble Phosphorus	mg/L P	0.06	0.07	0.06	0.09	0.06	0.04	0.07	0.11	0.05	0.06	0.11
Total Phosphorus	mg/L P	0.18	0.18	0.17	0.19	0.13	0.16	0.16	0.14	0.14	0.17	0.15
Escherichia coli	MPN/100 mL	100	160	290	460	130	160	160	100	240	290	440
Fecal Coliform	MPN/100 mL	240	200	190	280	120	100	50	90	160	270	330

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

Weather conditions during monitoring:

Wind Direction: South-South East (SSE)
 Wind Speed: 16 km/h
 Cloud Coverage: 30 %
 Precipitation: <0.1 mm
 Air Temperature: 1 °C

Report Date:

April 27, 2023