



City of Winnipeg
Water and Waste Department

2023 RIVERS MONITORING

Survey Date: May 11, 2023		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		570651	570653	570650	570652	570655	570661	570656	570659	570660	570658	570657
Temperature	°C	16.6	16.2	16.3	15.2	15.0	14.9	15.2	13.9	13.9	13.7	14.1
pH	units	8.06	8.07	8.04	8.05	7.81	7.87	7.83	7.82	7.90	7.91	7.87
Dissolved Oxygen	mg/L	9.0	9.1	9.2	9.1	8.9	9.0	9.0	8.8	8.9	8.9	8.8
Oxygen Saturation	%	92	93	94	91	88	89	89	85	87	88	85
Biochemical Oxygen Demand	mg/L	3	3	3	3	<3	4	<3	4	5	3	4
Total Solids	mg/L	1,230	1,250	1,240	990	568	570	592	562	674	646	668
Total Suspended Solids	mg/L	648	678	656	426	88	90	88	90	154	158	184
Turbidity	n.t.u.	283	292	288	207	58	62	59	66	96	98	105
Chlorophyll a	ug/L	26.7	29.4	34.7	26.7	15.1	14.2	17.8	12.5	13.4	14.7	13.4
Total Organic Carbon	mg/L	14.6	15.7	13.3	14.8	12.5	13.9	13.3	13.8	14.0	13.2	13.8
Total Nitrogen	mg/L N	1.7	1.8	1.4	1.9	2.5	2.7	2.9	2.7	2.6	2.7	2.7
Ammonia Nitrogen	mg/L N	0.044	0.076	0.049	0.043	0.037	0.046	0.190	0.052	0.050	0.102	0.149
Nitrate Nitrogen	mg/L N	0.474	0.455	0.477	0.506	1.620	1.720	1.760	1.760	1.550	1.580	1.630
Soluble Phosphorus	mg/L P	0.11	0.14	0.11	0.11	0.23	0.23	0.24	0.23	0.22	0.22	0.23
Total Phosphorus	mg/L P	0.56	0.60	0.56	0.43	0.32	0.34	0.36	0.34	0.33	0.37	0.42
Escherichia coli	MPN/100 mL	40	40	110	100	<10	<10	<10	<10	60	80	3,870
Fecal Coliform	MPN/100 mL	20	30	140	230	10	20	<10	20	40	60	1,940

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

Weather conditions during monitoring:

Wind Direction: North East (NE)
 Wind Speed: 15 km/h
 Cloud Coverage: 10 %
 Precipitation: 20.1 mm
 Air Temperature: 21 °C

Report Date:

June 20, 2023