



City of Winnipeg
Water and Waste Department

2022 RIVERS MONITORING

Survey Date: June 23, 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		489760	489766	489755	489765	489768	489775	489770	489773	489774	489772	489771
Temperature	°C	23.5	23.0	23.4	23.1	23.8	24.0	24.4	23.3	22.9	21.6	22.3
pH	units	8.12	8.12	8.11	8.13	7.96	7.92	7.86	7.95	7.99	7.98	8.00
Dissolved Oxygen	mg/L	7.6	7.6	7.6	7.4	6.6	6.5	6.5	6.5	6.8	6.8	7.3
Oxygen Saturation	%	89	86	78	89	79	78	88	78	79	84	77
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Total Solids	mg/L	946	948	918	978	736	742	730	774	810	822	842
Total Suspended Solids	mg/L	298	286	292	342	68	65	81	87	166	173	183
Turbidity	n.t.u.	137	134	137	136	41	39	43	49	77	77	83
Chlorophyll a	ug/L	6.7	6.7	6.7	6.7	5.3	5.3	4.7	4.5	4.5	4.0	3.3
Total Organic Carbon	mg/L	14.0	14.0	14.3	14.5	13.9	13.8	15.1	14.2	14.3	14.9	14.4
Total Nitrogen	mg/L N	1.8	1.7	2.2	1.7	1.5	1.6	1.6	1.7	1.6	1.8	1.7
Ammonia Nitrogen	mg/L N	0.011	0.012	0.017	0.045	0.031	0.031	0.039	0.064	0.039	0.076	0.088
Nitrate Nitrogen	mg/L N	0.823	0.808	0.797	0.791	0.673	0.684	0.699	0.735	0.758	0.775	0.816
Soluble Phosphorus	mg/L P	0.41	0.34	0.30	0.27	0.30	0.31	0.27	0.39	0.42	0.33	0.40
Total Phosphorus	mg/L P	0.55	0.48	0.47	0.42	0.30	0.32	0.32	0.42	0.51	0.37	0.47
Escherichia coli	MPN/100 mL	90	90	120	190	<10	<10	<10	10	20	50	110
Fecal Coliform	MPN/100 mL	50	50	160	160	10	10	20	10	20	80	90

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

Weather conditions during monitoring:

Wind Direction: West (W)
 Wind Speed: 13 km/h
 Cloud Coverage: 20 %
 Precipitation: 3.4 mm
 Air Temperature: 24 °C

Report Date:

June 30, 2022