



City of Winnipeg
Water and Waste Department

2023 RIVERS MONITORING

Survey Date: October 12, 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		609793	609795	609792	609794	609796	609802	609797	609800	609801	609799	609798
Temperature	°C	10.6	10.7	10.1	10.4	12.5	12.6	12.7	12.3	12.0	11.7	12.5
pH	units	8.55	8.65	8.54	8.65	8.41	8.38	8.34	8.29	8.42	8.18	8.19
Dissolved Oxygen	mg/L	11.3	11.5	11.1	11.0	9.8	9.5	9.4	9.1	9.5	9.0	10.3
Oxygen Saturation	%	102	103	98	98	92	89	88	84	87	83	96
Biochemical Oxygen Demand	mg/L	3	4	3	4	<3	<3	<3	<3	<3	<3	<3
Total Solids	mg/L	826	818	824	814	804	790	790	728	732	716	724
Total Suspended Solids	mg/L	56	55	28	30	28	24	31	16	19	13	6
Turbidity	n.t.u.	35	36	29	21	23	23	23	16	16	14	7
Chlorophyll a	ug/L	52.1	55.4	56.7	59.4	4.7	3.3	2.0	1.3	14.0	7.3	2.0
Total Organic Carbon	mg/L	11.6	9.2	9.3	9.6	10.8	11.0	16.4	10.9	10.5	10.4	10.4
Total Nitrogen	mg/L N	0.5	0.6	0.9	0.7	1.2	1.2	0.9	1.3	1.1	1.8	1.7
Ammonia Nitrogen	mg/L N	<0.003	<0.003	0.003	0.003	<0.003	0.030	0.037	0.048	0.047	0.954	0.456
Nitrate Nitrogen	mg/L N	0.075	0.009	0.035	<0.003	0.613	0.582	0.660	0.790	0.555	0.695	0.830
Soluble Phosphorus	mg/L P	0.22	0.07	0.07	0.06	0.17	0.17	0.15	0.16	0.14	0.23	0.22
Total Phosphorus	mg/L P	0.36	0.19	0.22	0.18	0.23	0.20	0.18	0.20	0.20	0.27	0.24
Escherichia coli	MPN/100 mL	270	400	500	440	<10	<10	190	20	280	300	230
Fecal Coliform	MPN/100 mL	430	430	700	330	<10	<10	200	10	130	360	330

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

Weather conditions during monitoring:

Wind Direction: North East (NE)
 Wind Speed: 5 km/h
 Cloud Coverage: 0 %
 Precipitation: <0.1 mm
 Air Temperature: 8 °C

Report Date:

December 6, 2023