



City of Winnipeg  
Water and Waste Department

2023 RIVERS MONITORING

Survey Date: August 3, 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		592458	592460	592457	592459	592461	592467	592462	592465	592466	592464	592463
Temperature	°C	24.9	25.3	24.2	25.2	25.3	25.5	25.1	24.3	24.2	23.4	23.5
pH	units	8.41	8.48	8.57	8.49	8.40	8.31	8.49	8.33	8.41	8.27	8.17
Dissolved Oxygen	mg/L	8.3	8.1	7.9	6.5	8.1	8.0	7.9	7.5	7.6	6.9	7.7
Oxygen Saturation	%	100	98	94	84	98	98	96	89	91	81	90
Biochemical Oxygen Demand	mg/L	3	3	3	3	<3	<3	<3	<3	4	3	<3
Total Solids	mg/L	928	934	950	926	716	708	722	716	740	772	768
Total Suspended Solids	mg/L	36	31	27	27	14	19	12	4	4	13	5
Turbidity	n.t.u.	25	21	21	19	13	17	13	5	12	16	6
Chlorophyll a	ug/L	28.7	17.4	20.0	35.4	4.0	4.0	3.3	2.0	18.7	19.4	6.7
Total Organic Carbon	mg/L	13.3	13.1	13.7	13.6	12.0	11.3	11.0	11.0	11.6	12.9	11.5
Total Nitrogen	mg/L N	1.2	0.4	0.4	0.5	0.8	0.7	0.9	0.7	0.9	1.8	1.3
Ammonia Nitrogen	mg/L N	<0.003	<0.003	0.080	<0.003	<0.003	<0.003	<0.003	0.012	0.007	0.865	0.579
Nitrate Nitrogen	mg/L N	<0.100	<0.100	<0.100	<0.100	0.792	0.848	0.855	0.805	0.586	0.614	0.637
Soluble Phosphorus	mg/L P	0.04	0.04	0.03	0.03	0.14	0.15	0.16	0.15	0.13	0.18	0.17
Total Phosphorus	mg/L P	0.19	0.14	0.15	0.15	0.22	0.24	0.22	0.23	0.22	0.29	0.26
Escherichia coli	MPN/100 mL	20	<10	40	910	<10	<10	20	260	410	400	120
Fecal Coliform	MPN/100 mL	<10	<10	20	1,400	<10	40	30	260	270	380	130

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

Weather conditions during monitoring:

Wind Direction: West (W)  
 Wind Speed: 7 km/h  
 Cloud Coverage: 0 %  
 Precipitation: <0.1 mm  
 Air Temperature: 19 °C

Report Date:

December 6, 2023