



Rivers Monitoring Report

Survey Date: May 30, 2024

		Assiniboine River				Red River						
Parameter	Unit	Headingley Bridge	West Perimeter Bridge	Assiniboine Park Foot Bridge	Main Street Bridge	South Floodway Control	South Perimeter Bridge	Fort Garry Bridge	Norwood Bridge	Redwood Bridge	North Perimeter Bridge	Lockport Bridge
Sample Number		664125	664127	664124	664126	664128	664134	664129	664132	664133	664131	664130
Temperature	° C	14.9	15.3	16.0	15.9	16.1	16.0	16.0	16.3	15.8	15.3	15.4
pH	units	8.22	8.23	8.28	8.22	8.01	8.06	8.10	8.04	8.01	8.02	7.99
Dissolved Oxygen	mg/L	9.9	9.8	9.8	9.8	8.1	8.2	8.4	8.0	8.4	8.5	9.4
Oxygen Saturation	%	97	97	99	98	82	82	83	81	84	84	92
Biochemical Oxygen Demand	mg/L	4	<3	<3	<3	<3	4	<3	4	3	<3	4
Total Solids	mg/L	880	854	894	838	1,750	1,660	1,640	1,610	1,630	1,360	1,440
Total Suspended Solids	mg/L	199	225	254	198	663	663	613	640	767	520	667
Turbidity	n.t.u.	105	105	107	102	419	355	345	373	271	278	383
Chlorophyll a	ug/L	18.7	21.4	18.7	17.4	8.0	8.0	6.7	6.7	9.3	9.3	12.0
Total Organic Carbon	mg/L	12.6	13.4	13.7	12.6	13.9	15.8	14.4	16.2	24.5	16.4	13.9
Total Nitrogen	mg/L N	1.1	1.1	1.1	1.0	3.6	3.6	3.8	4.2	3.9	3.8	3.9
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	0.017	0.025	0.035	0.029	0.055	0.064	0.099	0.107
Nitrate Nitrogen	mg/L N	0.350	0.331	0.295	0.281	2.520	2.500	2.510	2.910	2.390	2.540	2.650
Soluble Phosphorus	mg/L P	0.09	0.09	0.10	0.14	0.14	0.14	0.15	0.17	0.16	0.16	0.16
Total Phosphorus	mg/L P	0.25	0.24	0.14	0.23	0.54	0.39	0.49	0.36	0.22	0.27	0.44
Escherichia coli	MPN/100 mL	40	20	60	80	<10	60	<10	40	30	100	200
Fecal Coliform	MPN/100 mL	80	30	80	50	10	110	40	60	10	100	280

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

Weather conditions during monitoring:

Wind Direction: South-South West (SSW)

Wind Speed: 13 km/h

Cloud Coverage: 90 %

Precipitation: <0.1 mm

Air Temperature: 22 °C

Report Date: July 25, 2024