



Rivers Monitoring Report
Survey Date: June 20, 2024

Parameter	Unit	Assiniboine River				Red River						
		Headingly 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		670346	670348	670345	670347	670349	670355	670350	670353	670354	670352	670351
Temperature	° C	20.8	21.1	21.6	19.3	20.3	20.1	20.0	20.1	20.2	20.4	20.9
pH	units	8.49	8.56	8.53	8.49	8.05	8.06	8.05	8.07	8.24	8.28	8.18
Dissolved Oxygen	mg/L	9.7	9.8	9.8	9.3	7.7	7.7	7.9	7.7	7.8	8.3	8.7
Oxygen Saturation	%	107	109	110	100	85	83	85	83	86	90	96
Biochemical Oxygen Demand	mg/L	nr	nr	nr	<3	<3	<3	<3	<3	<3	nr	nr
Total Solids	mg/L	742	774	756	748	1,140	1,160	1,130	1,160	1,060	1,040	1,050
Total Suspended Solids	mg/L	113	118	118	113	186	175	196	224	164	160	219
Turbidity	n.t.u.	67	72	69	64	116	115	123	129	107	90	131
Chlorophyll a	ug/L	37.4	8.5	34.7	40.1	6.7	8.0	5.3	6.7	6.7	13.4	5.3
Total Organic Carbon	mg/L	13.5	15.4	14.4	13.4	16.5	16.8	17.3	16.9	14.7	14.0	16.9
Total Nitrogen	mg/L N	1.7	1.5	1.0	0.5	2.9	3.8	3.5	3.3	2.6	3.0	3.8
Ammonia Nitrogen	mg/L N	<0.003	<0.003	0.005	<0.003	0.003	0.003	<0.003	0.007	<0.003	0.075	<0.003
Nitrate Nitrogen	mg/L N	0.121	0.086	0.122	0.151	2.060	2.000	2.020	1.970	1.520	1.520	1.570
Soluble Phosphorus	mg/L P	0.09	0.08	0.10	0.10	0.18	0.18	0.18	0.18	0.15	0.15	0.17
Total Phosphorus	mg/L P	0.18	0.23	0.20	0.21	0.36	0.29	0.30	0.31	0.29	0.25	0.29
Escherichia coli	MPN/100 mL	10	20	20	50	10	<10	<10	<10	<10	<10	<10
Fecal Coliform	MPN/100 mL	<10	10	30	40	50	<10	<10	<10	<10	<10	<10

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: 7 km/h
Cloud Coverage: 10 %
Precipitation: 0.3 mm
Air Temperature: 23 °C

Report Date:

September 24, 2024