



City of Winnipeg
Water and Waste Department

2022 RIVERS MONITORING

Survey Date: May 12, 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		479375	479378	479370	479377	479386	479392	479387	479390	479391	479389	479388
Temperature	°C	13.0	13.2	13.1	13.2	13.9	13.7	13.8	13.5	13.4	13.6	13.3
pH	units	7.96	8.00	7.97	7.97	7.80	7.81	7.92	7.86	7.86	7.85	7.85
Dissolved Oxygen	mg/L	9.7	9.5	9.3	9.2	9.2	9.7	9.7	9.7	9.7	9.5	9.4
Oxygen Saturation	%	92	91	88	88	89	94	93	93	92	91	90
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Total Solids	mg/L	1,060	1,090	1,090	964	500	562	538	536	668	540	720
Total Suspended Solids	mg/L	640	680	730	610	200	180	215	210	330	330	300
Turbidity	n.t.u.	300	326	333	290	144	172	176	187	210	139	49
Chlorophyll a	ug/L	<1.0	24.0	18.7	40.1	5.3	na	2.7	5.3	6.7	5.3	<1.0
Total Organic Carbon	mg/L	12.4	12.7	11.5	13.3	13.1	13.4	13.9	14.7	14.8	14.1	15.4
Total Nitrogen	mg/L N	1.2	1.2	1.1	1.2	2.5	2.5	2.6	2.5	2.3	2.4	2.6
Ammonia Nitrogen	mg/L N	0.080	0.037	0.043	0.059	0.034	0.054	0.057	0.058	0.058	0.113	0.136
Nitrate Nitrogen	mg/L N	0.330	0.323	0.338	0.374	1.500	1.450	1.490	1.490	1.340	1.320	1.340
Soluble Phosphorus	mg/L P	0.13	0.13	0.16	0.19	0.26	0.26	0.26	0.26	0.27	0.40	0.33
Total Phosphorus	mg/L P	0.61	0.59	0.49	0.56	0.42	0.39	0.42	0.46	0.35	0.66	0.40
Escherichia coli	MPN/100 mL	<10	20	10	10	10	10	30	40	60	80	60
Fecal Coliform	MPN/100 mL	10	20	<10	20	10	40	40	10	50	50	50

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

Weather conditions during monitoring:

Wind Direction: North East (NE)
 Wind Speed: 19 km/h
 Cloud Coverage: 95 %
 Precipitation: <0.1 mm
 Air Temperature: 12 °C

Report Date:

June 14, 2022