



City of Winnipeg
Water and Waste Department

2022 RIVERS MONITORING

Survey Date: September 1, 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		509286	509288	509285	509287	509290	509297	509292	509295	509296	509294	509293
Temperature	°C	22.8	22.9	22.2	21.9	22.8	23.4	23.9	22.5	22.5	21.9	22.0
pH	units	8.71	8.68	8.70	8.69	8.23	8.17	8.15	8.19	8.40	8.30	8.23
Dissolved Oxygen	mg/L	8.9	8.8	8.6	8.5	7.6	7.5	7.5	7.2	7.9	7.4	8.0
Oxygen Saturation	%	104	103	99	97	88	88	89	84	87	84	92
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Total Solids	mg/L	730	732	720	718	502	510	498	524	574	558	520
Total Suspended Solids	mg/L	106	116	104	108	45	31	27	16	27	21	7
Turbidity	n.t.u.	58	59	55	55	36	28	24	14	18	14	7
Chlorophyll a	ug/L	46.3	29.9	34.7	44.5	6.9	6.9	5.3	3.7	20.8	15.5	3.8
Total Organic Carbon	mg/L	na	na	na	na	na	na	na	na	na	na	na
Total Nitrogen	mg/L N	0.3	0.3	0.3	0.3	0.7	0.6	0.6	0.6	0.5	0.8	0.8
Ammonia Nitrogen	mg/L N	0.022	0.025	0.046	0.035	0.032	0.028	0.037	0.050	0.024	0.220	0.195
Nitrate Nitrogen	mg/L N	0.003	0.005	<0.003	<0.003	0.386	0.379	0.433	0.425	0.310	0.377	0.449
Soluble Phosphorus	mg/L P	0.07	0.07	0.07	0.07	0.22	0.22	0.22	0.23	0.17	0.20	0.20
Total Phosphorus	mg/L P	0.24	0.22	0.23	0.23	0.26	0.27	0.24	0.26	0.21	0.21	0.22
Escherichia coli	MPN/100 mL	30	<10	50	350	<10	10	20	30	100	220	120
Fecal Coliform	MPN/100 mL	10	30	110	110	40	20	30	20	90	150	100

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: 16 km/h
 Cloud Coverage: 0 %
 Precipitation: <0.1 mm
 Air Temperature: 28 °C

Report Date:

December 02, 2022