

2023 - 2024 RIVER MONITORING REPORT

Parameter	Unit	Assiniboine River Sampling Locations			Red River Sampling Locations						
		Headingley Bridge	Assiniboine Park Bridge	Osborne Street Bridge	St. Adolphe Pierre Delorme Bridge	Fort Garry Bridge	Queen Elizabeth Way Bridge	Provencher Bridge	Harry Lazarenko Bridge	North Perimeter Bridge	St. Andrew's Lock and Dam Bridge
		R1	R3	RX1	R5	R7	R8	RX2	R9	R10	R11
Temperature ^{1,2}	° C	19.8	18.7	19.7	21.6	20.3	19.8	19.2	19.9	19.7	19.8
Dissolved Oxygen ^{1,2}	mg/L	6.40	7.57	6.14	6.45	6.71	9.32	8.61	6.11	5.59	8.27
pH ^{1,2}	units	8.60	8.39	8.43	8.72	8.74	8.78	8.76	8.70	8.31	8.55
Ammonia ³	mg/L N	<0.013	<0.013	0.053	<0.013	<0.013	<0.013	<0.013	0.02	1.48	ND
Biochemical Oxygen Demand ³	mg/L	4	3	3	<2.0	<2.0	<2.0	<2.0	<2.0	5	ND
Total Suspended Solids ³	mg/L	43.5	36.4	30.5	30.0	38.4	21.8	22.3	22.9	25.6	ND
Total Kjeldahl Nitrogen ⁵	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ND
Total Nitrogen ³	mg/L N	<0.20	<0.20	0.27	0.28	0.45	0.32	0.39	0.22	2.06	ND
Total Phosphorus ³	mg/L P	0.143	0.142	0.161	0.178	0.186	0.170	0.149	0.146	0.398	ND
Escherichia Coliform ^{2,4}	MPN/100 mL	47	720	16,313	50	100	453	7,650	1,430	24,200	30
Survey Date: September 5, 2023	Time:	4:12 PM	5:48 PM	7:18 PM	3:00 PM	4:25 PM	9:40 PM	9:05 PM	6:05 PM	6:55 PM	8:05 PM

Notes:

CSO = Combined Sewer Overflow
 MPN = Most Probable Number
 N/A = Not Available
 ND = No Data

- 1) Field analysed parameter
- 2) Average value of discrete samples reported
- 3) Value of composited sample reported
- 4) Analysed by contract laboratory
- 5) Calculated by laboratory

< VALUE Less than minimum detection
 > VALUE Greater than maximum detection

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		R1	R3	RX1	R5	R7	R8	RX2	R9	R10	R11
Temperature ^{1,2}	° C	18.5	NRINT	19.5	19.3	19.5	19.7	20.7	20.0	20.5	19.5
Dissolved Oxygen ^{1,2}	mg/L	6.43	6.85	5.44	9.25	9.07	8.90	8.01	7.58	8.66	8.49
pH ^{1,2}	units	8.11	7.94	8.08	8.56	8.74	8.69	8.68	8.65	8.57	8.65
Ammonia ³	mg/L N	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.017	0.34	ND
Biochemical Oxygen Demand ³	mg/L	<3	<3	<3	<3	<3	<3	<3	5	<3	ND
Total Suspended Solids ³	mg/L	34.4	35.6	28.8	24.4	34.4	20.0	18.8	17.5	18.3	ND
Total Kjeldahl Nitrogen ⁵	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ND
Total Nitrogen ³	mg/L N	0.29	0.25	<0.20	0.52	0.43	0.49	0.47	0.54	1.32	ND
Total Phosphorus ³	mg/L P	0.132	0.137	0.106	0.173	0.159	0.139	0.143	0.155	0.208	ND
Escherichia Coliform ^{2,4}	MPN/100 mL	37	240	970	100	47	153	240	2,733	1,453	50
Survey Date: <i>September 6, 2023</i>	Time:	10:50 AM	12:23 PM	2:20 PM	9:50 AM	10:35 AM	11:23 AM	12:25 PM	1:08 PM	1:44 PM	2:18 PM

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NRINT = No result, interferences suspected

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		R1	R3	RX1	R5	R7	R8	RX2	R9	R10	R11		
Temperature ^{1,2}	° C	16.2	17.1	19.1	17.8	18.5	19.3	19.7	20.3	21.5	20.8		
Dissolved Oxygen ^{1,2}	mg/L	6.14	6.35	6.16	9.63	8.16	9.06	8.68	7.72	7.40	9.27		
pH ^{1,2}	units	8.22	8.11	8.38	8.77	8.81	8.63	8.63	8.64	8.48	8.56		
Ammonia ³	mg/L N	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.016	0.87	ND		
Biochemical Oxygen Demand ³	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	ND		
Total Suspended Solids ³	mg/L	36.3	36.5	31.6	23.0	31.6	14.0	18.0	23.2	22.0	ND		
Total Kjeldahl Nitrogen ⁵	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ND		
Total Nitrogen ³	mg/L N	<0.20	0.23	0.21	0.48	0.54	0.54	0.49	0.53	1.49	ND		
Total Phosphorus ³	mg/L P	0.136	0.130	0.130	0.192	0.158	0.184	0.168	0.175	0.221	ND		
Escherichia Coliform ^{2,4}	MPN/100 mL	47	210	860	33	17	63	253	247	1,580	120		
Survey Date:	<i>September 7, 2023</i>	Time:		10:30 AM	11:37 AM	1:35 PM	9:22 AM	10:24 AM	11:02 AM	11:20 AM	12:36 PM	1:15 PM	1:42 PM

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