

**City of Winnipeg  
Water and Waste Department**

**2016 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> :		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 <sup>3</sup> (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Temperature	° C	7.1	8.9	8.9	8.9	8.8	7.9	8.1	8.9	7.6	7.9	7.6
Dissolved Oxygen	mg/L	11.6	11.8	11.3	11.2	11.4	11.3	10.8	10.9	10.9	11.7	11.8
Oxygen Saturation	%	96	104	94	93	100	95	93	95	91	99	100
Biochemical Oxygen Demand	mg/L	<3	<3	<3	3	<3	<3	<3	<3	<3	<3	<3
pH	units	7.97	7.98	7.98	7.98	8.20	8.19	8.14	7.97	8.00	8.01	8.01
Total Solids	mg/L	1090	1140	1090	1100	848	850	824	826	1000	918	982
Total Suspended Solids	mg/L	397	428	403	437	80	64	58	42	210	188	267
Turbidity	n.t.u.	197	160	210	74	65	49	49	40	140	41	141
Total Organic Carbon	mg/L	27	32	22	19	16	13	17	14	13	14	15
Chlorophyll a	ug/L	16	19	18	18	7	11	7	7	14	11	14
Ammonia Nitrogen	mg/L N	0.033	0.129	0.037	0.043	0.013	0.017	0.119	0.152	0.094	0.140	0.213
Nitrate Nitrogen	mg/L N	0.169	0.209	0.181	0.173	0.578	0.559	0.598	0.566	0.388	0.403	0.413
Total Nitrogen	mg/L N	1.7	1.9	1.7	1.8	1.9	1.9	2.2	2.1	1.8	1.9	2.1
Soluble Phosphorus	mg/L P	0.10	0.11	0.11	0.11	0.13	0.14	0.16	0.15	0.13	0.14	0.17
Total Phosphorus	mg/L P	0.60	0.60	0.60	0.60	0.30	0.30	0.30	0.20	0.40	0.40	0.50
Escherichia Coliform <sup>2</sup>	MPN/100 mL	43	93	150	430	74	43	43	43	240	43	240
Fecal Coliform <sup>2</sup>	MPN/100 mL	43	93	150	1500	74	93	43	93	240	93	930

Weather Conditions during monitoring Winds S at 24 km/hr with 100% cloud cover and 3.3 mm of precipitation. Average air temperature during survey at 5.6°C

Notes: 1) LIMS Reference No: **47810**  
 2) Analysed by contract laboratory  
 3) Red River Floodway at South Floodway Control Gates **732.4** ft.

Report Compiled By: H.Demchenko  
 Compliance Reporting Technician

Approved in Sample Manager By: C.Diduck  
 Analytical Services Branch Head

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