

**City of Winnipeg  
Water and Waste Department**

**2015 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : May 12, 2015		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>4</sup> (R5)	SOUTH PERIMETER BRIDGE <sup>5</sup> (R6)	FORT GARRY BRIDGE <sup>5</sup> (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Temperature	° C	12.7	12.6	12.6	12.1	11.7	ns	ns	12.5	11.9	11.6	12.1
Dissolved Oxygen	mg/L	10.3	10.2	10.1	10.2	10.5	ns	ns	9.8	10.2	9.9	10.4
Oxygen Saturation <sup>2</sup>	%	97	96	95	95	97	ns	ns	92	94	91	97
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	ns	ns	<3	<3	<3	<3
pH	units	8.50	8.47	8.50	8.45	8.64	ns	ns	8.49	8.45	8.34	8.13
Total Solids	mg/L	886	986	956	932	594	ns	ns	592	918	894	1010
Total Suspended Solids	mg/L	164	161	174	157	22	ns	ns	27	128	136	135
Turbidity	n.t.u.	73	78	81	71	19	ns	ns	19	65	36	73
Total Organic Carbon	mg/L	19	16	17	17	13	ns	ns	12	17	19	19
Chlorophyll a	ug/L	12	16	7	14	11	ns	ns	14	11	14	12
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	ns	ns	0.243	0.031	0.083	0.182
Nitrate Nitrogen	mg/L N	0.057	0.063	0.059	0.060	<0.003	ns	ns	0.027	0.058	0.064	0.097
Total Kjeldahl Nitrogen	mg/L N	0.7	0.7	0.6	0.7	<0.5	ns	ns	<0.5	<0.5	0.6	0.8
Total Nitrogen <sup>2</sup>	mg/L N	0.8	0.8	0.7	0.8	0.3	ns	ns	0.3	0.3	0.7	0.9
Soluble Phosphorus	mg/L P	0.06	0.06	0.06	0.05	0.04	ns	ns	0.06	0.06	0.07	0.07
Total Phosphorus	mg/L P	0.50	0.30	0.30	0.30	<0.2	ns	ns	<0.2	0.30	0.30	0.40
Escherichia Coliform <sup>3</sup>	MPN/100 mL	15	9	15	11	3	ns	ns	130	25	22	45
Fecal Coliform <sup>3</sup>	MPN/100 mL	nr <sup>6</sup>	nr <sup>6</sup>	nr <sup>6</sup>	nr <sup>6</sup>	nr <sup>6</sup>	ns	ns	nr <sup>6</sup>	nr <sup>6</sup>	nr <sup>6</sup>	nr <sup>6</sup>

Weather Conditions during monitoring Winds ENE at 14 km/hr with 40% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 9°C

- Notes:
- 1) LIMS Reference No: **42534**
  - 2) Calculated values
  - 3) Analysed by contract laboratory
  - 4) Red River Floodway at South Floodway Control Gates **734.3** ft.
  - 5) No sample collected due to broken sampler.
  - 6) No result due to contract lab error.

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