

**City of Winnipeg  
Water and Waste Department**

**2015 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : November 10, 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 (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Temperature	° C	4.6	4.5	4.4	4.3	5.3	5.1	5.2	5.2	5.1	5.4	5.4
Dissolved Oxygen	mg/L	12.9	12.9	12.9	12.8	12.3	12.3	12.2	12.2	12.4	12.4	12.4
Oxygen Saturation <sup>2</sup>	%	100	99	100	99	97	97	96	96	97	97	99
Biochemical Oxygen Demand	mg/L	<3	3	<3	<3	<3	4	<3	<3	3	<3	<3
pH	units	8.60	8.54	8.54	8.44	8.45	8.48	8.43	8.27	8.22	8.21	8.29
Total Solids	mg/L	954	950	922	908	908	896	864	936	944	894	930
Total Suspended Solids	mg/L	70	72	69	71	66	56	42	36	49	42	75
Turbidity	n.t.u.	40	40	40	40	48	45	41	32	37	30	46
Total Organic Carbon	mg/L	13	13	13	12	14	16	15	13	14	13	14
Chlorophyll a	ug/L	29	34	5	39	6	10	<1	11	15	15	20
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.038	0.104	<0.003	0.113	0.313
Nitrate Nitrogen	mg/L N	0.133	0.136	0.135	0.137	0.325	0.330	0.311	0.320	0.249	0.278	0.344
Total Kjeldahl Nitrogen	mg/L N	1.9	1.7	1.6	<0.5	1.6	0.6	1.8	2.5	0.6	0.8	1.1
Total Nitrogen <sup>2</sup>	mg/L N	2.0	1.8	1.7	0.4	1.9	0.9	2.1	2.8	0.8	1.1	1.4
Soluble Phosphorus	mg/L P	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.10	0.09	0.11	0.15
Total Phosphorus	mg/L P	0.30	0.30	0.30	0.30	0.30	0.20	<0.2	0.20	<0.2	<0.2	0.30
Escherichia Coliform <sup>3</sup>	MPN/100 mL	93	43	9	74	43	240	74	430	430	430	740
Fecal Coliform <sup>3</sup>	MPN/100 mL	93	43	23	150	43	240	210	430	430	430	740

Weather Conditions during monitoring Winds N at 17 km/hr with 100% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 2.6°C

- Notes:
- 1) LIMS Reference No: **44362**
  - 2) Calculated values
  - 3) Analysed by contract laboratory
  - 4) Red River Floodway at South Floodway Control Gates

**730.0** ft.

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