

**City of Winnipeg
Water and Waste Department**

2015 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : June 26, 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 ⁴ (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Temperature	° C	24.2	24.5	24.6	23.3	23.6	23.6	23.9	23.0	22.9	22.5	22.6
Dissolved Oxygen	mg/L	7.9	7.8	7.7	7.7	7.0	6.9	7.0	6.8	7.1	7.4	7.6
Oxygen Saturation ²	%	94	94	94	91	83	81	84	79	83	86	88
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	nr ⁵	nr ⁵	nr ⁵	nr ⁵	nr ⁵	nr ⁵	nr ⁵
pH	units	8.44	8.42	8.40	8.37	8.25	8.24	8.19	8.03	8.19	8.15	7.88
Total Solids	mg/L	1120	1020	1020	1010	836	770	882	854	880	908	876
Total Suspended Solids	mg/L	168	147	158	142	129	136	178	168	116	151	183
Turbidity	n.t.u.	71	70	78	77	106	80	101	124	70	90	101
Total Organic Carbon	mg/L	22	22	23	22	23	25	26	27	23	27	25
Chlorophyll a	ug/L	25	21	19	19	4	7	nr ⁶	7	9	9	7
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.004	0.008	0.115	0.071	0.039	0.122	0.093
Nitrate Nitrogen	mg/L N	0.371	0.372	0.378	0.389	0.603	0.589	0.599	0.641	0.565	0.565	0.639
Total Kjeldahl Nitrogen	mg/L N	0.9	0.9	0.8	0.7	0.6	0.6	0.8	0.7	<0.5	0.7	1.0
Total Nitrogen ²	mg/L N	1.3	1.3	1.2	1.1	1.2	1.2	1.4	1.3	0.8	1.3	1.6
Soluble Phosphorus	mg/L P	0.12	0.12	0.12	0.13	0.11	0.11	0.12	0.15	0.15	0.20	0.21
Total Phosphorus	mg/L P	0.30	0.70	0.30	0.40	0.40	0.30	0.40	0.50	0.40	0.40	0.40
Escherichia Coliform ³	MPN/100 mL	75	93	20	210	23	23	9	23	23	150	230
Fecal Coliform ³	MPN/100 mL	75	93	20	210	23	23	9	23	23	150	230

Weather Conditions during monitoring Winds N at 5 km/hr with 10% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 19.8°C

- Notes:
- 1) LIMS Reference No: **43039**
 - 2) Calculated values
 - 3) Analysed by contract laboratory
 - 4) Red River Floodway at South Floodway Control Gates **734.6** ft.
 - 5) No result because the initial DO was below the BOD test limit.
 - 6) No result due to technician error.

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