

**City of Winnipeg
Water and Waste Department**

2012 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : June 27, 2012		Assiniboine River Sampling Locations				Red River Sampling Locations						
Parameter	Unit	HEADINGLY BRIDGE	WEST PERIMETER BRIDGE ⁵	ASSINIBOINE PARK FOOT BRIDGE	MAIN STREET BRIDGE	SOUTH FLOODWAY CONTROL ⁴	SOUTH PERIMETER BRIDGE	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	23.6	NS	23.3	22.7	24.1	25.0	23.5	23.0	22.4	21.6	21.7
Dissolved Oxygen	mg/L	8.2	NS	8.2	8.2	10.2	11.2	10.4	10.6	8.7	9.0	8.8
Oxygen Saturation ²	%	98	NS	96	96	123	137	124	125	102	103	101
pH	units	8.41	NS	8.48	8.46	8.68	8.76	8.67	8.72	8.53	8.52	8.50
Total Solids	mg/L	1050	NS	1050	1060	636	614	610	612	906	834	874
Total Suspended Solids	mg/L	180	NS	176	202	51	42	53	106	136	82	131
Turbidity	n.t.u.	92.8	NS	97.2	102.0	44.6	34.6	41.2	42.8	76.4	56.4	85.2
Total Organic Carbon	mg/L	15	NS	13	11	9	8	9	8	10	10	9
Chlorophyll a	ug/L	5	NS	6	6	15	15	18	20	11	12	14
Ammonia Nitrogen	mg/L N	<0.003	NS	<0.003	0.006	<0.003	<0.003	0.095	0.010	0.028	0.069	0.193
Nitrate Nitrogen	mg/L N	0.583	NS	0.583	0.596	0.007	0.008	0.019	0.031	0.382	0.372	0.444
Total Kjeldahl Nitrogen	mg/L N	<2.0	NS	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	NS	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.11	NS	0.11	0.11	0.06	0.05	0.06	0.05	0.09	0.09	0.12
Total Phosphorus	mg/L P	0.40	NS	0.40	0.50	0.30	0.30	<0.30	0.40	0.40	0.40	0.40
Escherichia Coliform ³	colonies/100 mL	150	NS	75	230	<3	15	15	43	93	230	93
Fecal Coliform ³	colonies/100 mL	150	NS	150	230	<3	15	43	93	93	230	93

Weather Conditions during monitoring: Winds South at 19 km/hr with no cloud cover. Average air temperature during survey at 23.8°C

- Notes:
- 1) LIMS Reference No: 33115
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates 727.6 ft.
 - 5] There was no sample for the West Perimeter Bridge due to having no access to the sampling site

Report Compiled By: K. Wazny
Compliance Reporting Technician

Approved in LIMS By: S. Fletcher
Supervisor of Analytical Services

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