

**City of Winnipeg
Water and Waste Department**

2011 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ : August 10, 2011		Small Streams Sampling Locations							
Parameter	Unit	SEINE RIVER @ HWY 59	SEINE RIVER @ PROVENCHER BLVD	STURGEON CREEK @ PERIMETER ⁴	STURGEON CREEK @ PORTAGE AVE	OMANDS CREEK @ PORTAGE AVE.	LA SALLE RIVER @ HWY 75	BUNNS CREEK @ BONNER AVE	TRURO CREEK @ PORTAGE AVE
Temperature	° C	20.1	22.4	NS	23.4	23.5	23.6	19.1	20.2
Dissolved Oxygen	mg/L	7.1	4.3	NS	7.4	3.7	4.6	3.0	3.5
Oxygen Saturation ²	%	78	51	NS	88	44	54	33	39
pH	units	8.24	7.78	NS	8.22	7.79	8.03	8.10	7.57
Total Solids	mg/L	516	596	NS	1000	2180	696	1020	664
Total Suspended Solids	mg/L	76	32	NS	46	680	21	88	16
Turbidity	n.t.u.	37.3	26.5	NS	24.3	113	15.1	45.5	13.1
Total Organic Carbon	mg/L	14	16	NS	13	34	20	19	14
Chlorophyll a	ug/L	9	9	NS	66	52	7	40	33
Ammonia Nitrogen	mg/L N	0.029	0.053	NS	0.042	0.006	0.471	0.610	0.065
Nitrate Nitrogen	mg/L N	0.011	0.134	NS	0.157	<0.003	1.430	0.074	0.045
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	NS	<2.0	2.0	<2.0	3.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	<2.0	NS	<2.0	2.0	2.4	3.1	<2.0
Soluble Phosphorus	mg/L P	0.09	0.35	NS	0.23	0.55	0.57	0.77	0.15
Total Phosphorus	mg/L P	<0.30	0.60	NS	0.50	0.90	0.80	1.20	0.50
Escherichia Coliform ³	MPN/100 mL	230	93	NS	930	750	75	230	930
Fecal Coliform ³	MPN/100 mL	230	93	NS	930	1500	150	2300	2300

Weather Conditions during monitoring: Winds South West at 5 km/hr with no cloud cover. Average air temperature during survey at 21 C

- Notes:
- 1) LIMS Reference No: 30420
 - 2) Calculated values. Oxygen saturation data was revised May 15, 2012.
 - 3) Analysed by contract laboratory.
 - 4) There is no sample for Sturgeon Creek at the Perimeter because the location was not accessible.

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