

**City of Winnipeg
Water and Waste Department**

2011 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ : September 21, 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	11.0	12.1	NS	11.8	11.3	12.3	12.6	11.1
Dissolved Oxygen	mg/L	9.7	9.0	NS	9.5	9.0	10.4	9.4	8.3
Oxygen Saturation ²	%	88	84	NS	88	82	97	89	75
pH	units	8.19	8.02	NS	8.16	8.02	8.64	8.58	7.87
Total Solids	mg/L	376	432	NS	876	368	1050	856	272
Total Suspended Solids	mg/L	19	103	NS	11	13	37	56	4
Turbidity	n.t.u.	28.8	102	NS	19.8	28.5	24.1	54.4	8.0
Total Organic Carbon	mg/L	18	11	NS	6	9	25	23	10
Chlorophyll a	ug/L	2	5	NS	11	2	26	135	3
Ammonia Nitrogen	mg/L N	0.227	0.101	NS	0.098	0.088	0.018	0.151	0.031
Nitrate Nitrogen	mg/L N	0.025	1.290	NS	0.247	0.206	<0.003	0.125	0.381
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	NS	<2.0	<2.0	<2.0	2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	2.3	NS	<2.0	<2.0	<2.0	2.1	<2.0
Soluble Phosphorus	mg/L P	0.06	0.13	NS	0.05	0.12	0.33	0.02	0.07
Total Phosphorus	mg/L P	<0.30	0.30	NS	<0.30	<0.30	0.50	<0.30	<0.30
Escherichia Coliform ³	MPN/100 mL	430	46000	NS	24000	930	430	4300	2300
Fecal Coliform ³	MPN/100 mL	430	46000	NS	24000	930	430	4300	2300

Weather Conditions during monitoring: Winds North at 42 km/hr with 100 % cloud cover. Average air temperature during survey at 7.8 C

- Notes:
- 1) LIMS Reference No: 30838
 - 2) Calculated values. Oxygen saturation data was revised on May 15, 2012.
 - 3) Analysed by contract laboratory.
 - 4) There is no sample for Sturgeon Creek at Perimeter because the location was not accessible.

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