

**City of Winnipeg
Water and Waste Department**

2011 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ : October 20, 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	5.9	5.7	NS	6.9	5.1	6.1	4.9	4.2
Dissolved Oxygen	mg/L	11.4	11.3	NS	10.8	11.6	12.2	9.1	11.8
Oxygen Saturation ²	%	91	90	NS	89	91	98	71	90
pH	units	7.93	7.50	NS	7.92	8.08	8.29	7.46	8.00
Total Solids	mg/L	344	480	NS	1100	560	996	1000	500
Total Suspended Solids	mg/L	19	47	NS	13	9	24	222	21
Turbidity	n.t.u.	19.3	37.2	NS	10.6	6.4	17.3	113	24.4
Total Organic Carbon	mg/L	82	59	NS	75	59	104	71	70
Chlorophyll a	ug/L	<1	4	NS	2	<1	8	26	<1
Ammonia Nitrogen	mg/L N	0.027	0.047	NS	0.330	0.047	0.045	0.634	0.069
Nitrate Nitrogen	mg/L N	<0.003	0.422	NS	0.536	0.036	0.007	0.410	0.043
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	<2.0	NS	<2.0	<2.0	<2.0	2.0	<2.0
Soluble Phosphorus	mg/L P	0.12	0.13	NS	0.11	0.12	0.47	0.52	0.05
Total Phosphorus	mg/L P	<0.30	0.40	NS	<0.30	<0.30	0.70	0.70	<0.30
Escherichia Coliform ³	MPN/100 mL	230	430	NS	4300	930	430	2300	150
Fecal Coliform ³	MPN/100 mL	230	430	NS	4300	930	430	2300	150

Weather Conditions during monitoring: Winds NNW at 5 km/hr with 95 % cloud cover and 1 mm of precipitation. Average air temperature during survey at -8 C

- Notes:
- 1) LIMS Reference No: 31070
 - 2) Calculated values
 - 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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