

**City of Winnipeg
Water and Waste Department**

2010 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	October 20, 2010	Small Streams Sampling Locations							
Parameter	Unit	SEINE RIVER @ HWY 59	SEINE RIVER @ PROVENCHER BLVD	STURGEON CREEK @ PERIMETER	STURGEON CREEK @ PORTAGE AVE	OMANDS CREEK @ PORTAGE AVE.	LA SALLE RIVER @ HWY 75	BUNNS CREEK @ BONNER AVE	TRURO CREEK @ PORTAGE AVE
Temperature	° C	8.2	8.4	NS	9.4	9.3	9.9	8.2	8.2
Dissolved Oxygen	mg/L	11.7	10.8	NS	11.9	12.4	11.4	10.1	11.2
Oxygen Saturation ²	%	99	92	NS	104	108	99	86	95
pH	units	8.05	7.90	NS	8.04	8.09	8.05	7.94	7.99
Total Solids	mg/L	356	452	NS	980	904	472	936	1100
Total Suspended Solids	mg/L	23	35	NS	17	11	16	33	12
Turbidity	n.t.u.	19.1	26.2	NS	14.2	9.45	12.0	19.3	12.3
Total Organic Carbon	mg/L	11	14	NS	12	12	17	12	13
Chlorophyll a	ug/L	2	7	NS	56	11	35	73	4
Ammonia Nitrogen	mg/L N	0.013	0.031	NS	0.075	0.005	<0.003	0.006	0.075
Nitrate Nitrogen	mg/L N	<0.003	0.028	NS	0.352	0.034	<0.003	0.127	0.049
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	NS	<2.0	3.0	2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	<2.0	NS	<2.0	3.0	2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.07	0.08	NS	0.22	0.13	0.45	0.05	0.11
Total Phosphorus	mg/L P	<0.30	<0.30	NS	0.40	<0.30	0.70	<0.30	<0.30
Escherichia Coliform ³	MPN/100 mL	430	93	NS	21000	2300	380	430	93
Fecal Coliform ³	MPN/100 mL	430	93	NS	21000	2300	380	430	93

Weather Conditions during monitoring: Winds NNW at 43 km/hr with 50% cloud cover. Average air temperature during survey at 8.5°C

- Notes:
- 1) LIMS Reference No: 27677
 - 2) Calculated values
 - 3) Analysed by contract laboratory.
 - 4) There is no sample at Sturgeon Creek at the Perimeter because the sample location was not accessible.

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Supervisor of Analytical Services

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