

**City of Winnipeg
Water and Waste Department**

2010 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	November 3, 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	5.4	5.8	NS	5.9	5.9	4.9	6.2	5.9
Dissolved Oxygen	mg/L	12.4	11.6	NS	12.1	11.1	12.1	10.5	11.3
Oxygen Saturation ²	%	98	93	NS	97	89	94	85	91
pH	units	8.15	7.92	NS	8.05	7.88	7.85	7.97	7.83
Total Solids	mg/L	420	472	NS	580	608	452	692	768
Total Suspended Solids	mg/L	41	44	NS	42	13	58	52	4
Turbidity	n.t.u.	29.2	22.9	NS	29.1	22.4	64.1	13.1	5.54
Total Organic Carbon	mg/L	11	13	NS	14	13	17	10	12
Chlorophyll a	ug/L	<1	11	NS	6	15	4	28	<1
Ammonia Nitrogen	mg/L N	0.014	0.131	NS	0.226	0.034	0.287	0.140	<0.003
Nitrate Nitrogen	mg/L N	0.831	1.460	NS	2.740	1.420	3.550	0.286	1.210
Total Kjeldahl Nitrogen	mg/L N	2.0	2.0	NS	3.0	3.0	4.0	3.0	2.0
Total Nitrogen ²	mg/L N	2.8	3.5	NS	5.7	4.4	7.6	3.3	3.2
Soluble Phosphorus	mg/L P	0.15	0.24	NS	0.48	0.36	0.50	0.12	0.18
Total Phosphorus	mg/L P	<0.30	0.40	NS	0.60	0.50	0.80	<0.30	<0.30
Escherichia Coliform ³	MPN/100 mL	93	930	NS	2300	93	430	9300	230
Fecal Coliform ³	MPN/100 mL	150	930	NS	2300	93	430	9300	230

Weather Conditions during monitoring: Winds NW at 22 km/hr with no cloud cover. Average air temperature during survey at 5°C

- Notes:
- 1) LIMS Reference No: 27794
 - 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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