

**City of Winnipeg  
Water and Waste Department**

**2010 SMALL STREAMS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> :	August 25, 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	17.5	17.2	NS	17.8	19.1	18.9	16.5	15.8
Dissolved Oxygen	mg/L	8.4	8.1	NS	8.6	8.9	8.2	4.2	7.1
Oxygen Saturation <sup>2</sup>	%	89	85	NS	91	97	88	43	72
pH	units	8.09	8.04	NS	7.93	8.02	7.80	7.52	7.89
Total Solids	mg/L	448	416	NS	656	776	412	816	924
Total Suspended Solids	mg/L	46	34	NS	27	5	36	43	5
Turbidity	n.t.u.	33.2	25.4	NS	21.3	4.12	34.3	30.6	3.75
Total Organic Carbon	mg/L	19	18	NS	22	20	14	16	16
Chlorophyll a	ug/L	4	14	NS	11	3	30	32	5
Ammonia Nitrogen	mg/L N	<0.003	<0.003	NS	0.057	<0.003	<0.003	0.336	<0.003
Nitrate Nitrogen	mg/L N	0.036	0.031	NS	0.128	0.019	0.128	0.224	0.025
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen <sup>2</sup>	mg/L N	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.07	0.09	NS	0.43	0.31	0.42	0.13	0.17
Total Phosphorus	mg/L P	<0.30	0.30	NS	0.70	0.60	0.80	<0.30	0.40
Escherichia Coliform <sup>3</sup>	MPN/100 mL	230	430	NS	4300	430	150	230	150
Fecal Coliform <sup>3</sup>	MPN/100 mL	230	430	NS	4300	2300	430	230	430

Weather Conditions during monitoring: Winds W at 10 km/hr with 10% cloud cover. Average air temperature during survey at 17.6°C

- Notes:
- 1) LIMS Reference No: 27160
  - 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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