

**City of Winnipeg
Water and Waste Department**

2009 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ : August 12, 2009		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	21.3	21.7	18.8	21.6	22.3	23.0	21.4	21.3
Dissolved Oxygen	mg/L	7.5	7.0	7.3	9.7	8.1	6.2	2.6	4.7
Oxygen Saturation ²	%	85	80	79	111	94	73	30	54
pH	units	8.37	8.34	7.72	8.32	8.14	7.86	7.79	7.80
Total Solids	mg/L	364	468	1030	1160	916	484	656	632
Total Suspended Solids	mg/L	27	96	7	8	<4	103	24	<4
Turbidity	n.t.u.	18.3	42.0	4.7	5.2	1.6	81.0	20.5	1.7
Total Organic Carbon	mg/L	19	18	13	12	15	13	16	13
Chlorophyll a	ug/L	4	4	7	27	6	31	3	4
Ammonia Nitrogen	mg/L N	0.004	0.029	<0.003	<0.003	<0.003	0.132	0.263	0.019
Nitrate Nitrogen	mg/L N	0.032	0.056	0.019	0.050	0.016	0.193	0.161	0.034
Total Kjeldahl Nitrogen	mg/L N	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.10	0.13	0.21	0.16	0.27	0.36	0.30	0.20
Total Phosphorus	mg/L P	<0.30	4.30	1.50	0.40	0.40	0.70	0.40	0.40
Escherichia Coliform ³	MPN/100 mL	110	490	110	79	70	26	490	22
Fecal Coliform ³	MPN/100 mL	110	490	170	79	70	220	940	49
Weather Conditions during monitoring:		Winds SSW at 15 km/hr with <0.0001 % cloud cover and 0 mm of precipitation. Average air temperature during survey at 23 C							
Notes: 1) LIMS Reference No: 23762 2) Calculated values 3) Analysed by contract laboratory.		Report Compiled By: <u>H.Demchenko</u> Compliance Reporting Technician							
		Approved in LIMS By: <u>G.Levesque</u> Senior Laboratory Technician							
		Date Approved: <u>8/28/2009</u>							
		File No: 040-14-09-03-00							