

**City of Winnipeg
Water and Waste Department**

2009 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ : July 29, 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	19.2	19.9	17.6	19.3	20.8	21.0	18.3	18.4
Dissolved Oxygen	mg/L	8.1	8.6	9.6	9.0	10.2	7.9	6.3	10.1
Oxygen Saturation ²	%	88	95	101	99	115	89	68	108
pH	units	8.30	8.40	7.65	8.06	8.19	7.99	8.25	8.13
Total Solids	mg/L	376	420	808	860	696	404	800	848
Total Suspended Solids	mg/L	43	36	11	34	5	66	7	4
Turbidity	n.t.u.	23.9	16.7	8.0	16.5	3.4	105.0	2.9	4.2
Total Organic Carbon	mg/L	17	17	13	17	17	12	15	15
Chlorophyll a	ug/L	NR	NR	NR	NR	NR	NR	NR	NR
Ammonia Nitrogen	mg/L N	0.025	0.022	0.053	0.032	0.026	0.032	0.043	0.024
Nitrate Nitrogen	mg/L N	0.065	0.028	0.155	0.260	0.019	1.098	0.070	0.026
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	3.0
Total Nitrogen ²	mg/L N	<2.0	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	3.0
Soluble Phosphorus	mg/L P	0.12	0.16	0.41	0.54	0.41	0.41	0.32	0.16
Total Phosphorus	mg/L P	<0.30	<0.30	0.40	0.60	0.50	0.60	0.30	<0.30
Escherichia Coliform ³	MPN/100 mL	490	490	79	790	220	14	490	490
Fecal Coliform ³	MPN/100 mL	490	490	130	1400	490	240	490	790
Weather Conditions during monitoring:		Winds WNW at 35 km/hr with 91 % cloud cover and 7.2 mm of precipitation. Average air temperature during survey at 18.8 C							
Notes: 1) LIMS Reference No: 23688 2) Calculated values 3) Analysed by contract laboratory. 4) No results for chlorophyll a due to lab error.		Report Compiled By: <u>H.Demchenko</u> Compliance Reporting Technician							
		Approved in LIMS By: <u>S.Fletcher</u> Analytical Services Supervisor							
		Date Approved: <u>8/27/09</u>							
		File No: 040-14-09-03-00							