

**City of Winnipeg
Water and Waste Department**

2009 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ : October 30, 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	6.9	6.8	7.0	7.0	7.6	7.7	7.4	7.1
Dissolved Oxygen	mg/L	10.9	10.8	3.7	11.8	8.1	11.4	9.3	9.5
Oxygen Saturation ²	%	90	88	30	97	67	95	77	78
pH	units	8.23	8.17	7.66	8.27	7.78	8.20	8.21	8.01
Total Solids	mg/L	304	384	1280	1250	892	728	924	832
Total Suspended Solids	mg/L	15	21	10	11	16	19	32	<4
Turbidity	n.t.u.	10.4	22.9	5.9	6.1	11.9	14.3	25.6	5.1
Total Organic Carbon	mg/L	18	18	28	17	22	17	18	14
Chlorophyll a	ug/L	2	11	11	24	4	43	124	14
Ammonia Nitrogen	mg/L N	<0.003	<0.003	NR	<0.003	<0.003	<0.003	0.038	0.015
Nitrate Nitrogen	mg/L N	0.004	0.040	0.038	0.150	0.112	0.074	0.082	0.005
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	4.0	2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	<2.0	4.0	2.2	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.05	0.06	<0.01	0.04	0.10	0.38	0.05	0.06
Total Phosphorus	mg/L P	<0.30	<0.30	0.30	<0.30	<0.30	0.60	<0.30	<0.30
Escherichia Coliform ³	MPN/100 mL	NR	NR	NR	NR	NR	NR	NR	NR
Fecal Coliform ³	MPN/100 mL	31	79	70	130	490	70	920	49
Weather Conditions during monitoring:		Winds N at 14 km/hr with 100% cloud cover and 24 mm of precipitation. Average air temperature during survey at 4 C							
Notes: 1) LIMS Reference No: 24494 2) Calculated values 3) Analysed by contract laboratory. 4) There are no Escherichia Coliform results due to a contract lab error. 5) There is no Ammonia result for Sturgeon Creek @ Perimeter due to a technician error.		Report Compiled By: <u>J. Jones</u> Compliance Reporting Technician							
		Approved in LIMS By: <u>S. Fletcher</u> Supervisor of Analytical Services							
		Date Approved: <u>09-Dec-09</u>							
		File No: 040-14-09-03-00							