

**City of Winnipeg
Water and Waste Department**

2014 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	May 28, 2014	Small Streams Sampling Locations							
Parameter	Unit	SEINE RIVER @ HWY 59 (S6)	SEINE RIVER @ PROVENCHER BLVD (S7)	STURGEON CREEK @ PERIMETER (S1)	STURGEON CREEK @ PORTAGE AVE (S2)	OMANDS CREEK @ PORTAGE AVE (S4)	LA SALLE RIVER @ HWY 75 (S5)	BUNNS CREEK @ BONNER AVE (S8)	TRURO CREEK @ PORTAGE AVE (S3)
Temperature	° C	20.2	20.3	20.1	20.2	18.9	21.7	18.8	18.2
Dissolved Oxygen	mg/L	7.7	6.5	10.4	10.3	7.5	9.3	6.7	9.5
Oxygen Saturation	%	84	72	115	113	80	105	72	101
Biochemical Oxygen Demand	mg/L	nr ³	nr ³	<3	4	nr ³	4	nr ³	nr ⁴
pH	units	7.90	7.59	8.25	8.19	7.62	8.18	7.99	7.80
Total Solids	mg/L	458	498	620	754	806	408	922	378
Total Suspended Solids	mg/L	16	20	<3	20	7	4	8	4
Turbidity	n.t.u.	28.0	28.1	10.3	22.6	3.1	6.8	3.6	1.4
Total Organic Carbon	mg/L	25	26	21	23	18	20	22	14
Chlorophyll a	ug/L	3	8	13	40	5	22	12	3
Ammonia Nitrogen	mg/L N	0.021	<0.003	<0.003	<0.003	<0.003	0.030	0.144	<0.003
Nitrate Nitrogen	mg/L N	0.019	0.374	0.020	0.045	0.037	<0.003	0.123	0.015
Total Kjeldahl Nitrogen	mg/L N	2.3	2.4	2.5	2.8	2.6	2.7	3.6	2.3
Total Nitrogen	mg/L N	2.3	2.8	2.5	2.8	2.6	2.7	3.7	2.3
Soluble Phosphorus	mg/L P	0.13	0.17	0.33	0.17	0.17	0.25	0.21	0.04
Total Phosphorus	mg/L P	0.20	0.30	0.40	0.30	0.20	0.40	<0.20	<0.20
Escherichia Coliform ²	MPN/100 mL	23	93	43	430	93	4	93	20
Fecal Coliform ²	MPN/100 mL	43	93	430	430	210	4	93	28

Weather Conditions during monitoring Winds NNW at 11 km/hr with 50% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 23°C

Notes: 1) LIMS Reference No: 39332
 2) Analysed by contract laboratory.
 3) No result because the initial DO was below the BOD test limit
 4) No result due to broken sample bottle

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