

**City of Winnipeg
Water and Waste Department**

2016 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	May 5, 2016	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	17.9	15.8	17.3	18.2	15.0	20.5	14.7	16.9
Dissolved Oxygen	mg/L	9.1	8.9	9.1	9.7	9.0	21.5	6.6	10.3
Oxygen Saturation	%	96	90	95	103	90	238	65	106
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	9	nr ³	<3
pH	units	8.19	8.27	7.85	8.15	8.17	9.26	8.04	8.06
Total Solids	mg/L	360	388	610	586	854	506	938	892
Total Suspended Solids	mg/L	39	39	12	14	6	22	3	<3
Turbidity	n.t.u.	41.4	50.0	16.4	20.1	8.8	12.7	4.3	1.4
Total Organic Carbon	mg/L	21	21	26	29	24	28	22	23
Chlorophyll a	ug/L	nr ⁴	nr ⁴	nr ⁴	nr ⁴	nr ⁴	nr ⁴	nr ⁴	nr ⁴
Ammonia Nitrogen	mg/L N	0.032	<0.003	0.433	0.450	0.022	0.070	0.516	0.139
Nitrate Nitrogen	mg/L N	0.015	0.009	0.035	0.053	0.056	2.620	0.041	0.005
Total Kjeldahl Nitrogen	mg/L N	1.0	1.7	1.1	1.8	4.6	2.9	0.9	0.7
Total Nitrogen	mg/L N	1.0	1.7	1.1	1.9	4.7	5.5	0.9	0.7
Soluble Phosphorus	mg/L P	0.05	0.05	0.22	0.21	0.18	0.03	0.08	0.03
Total Phosphorus	mg/L P	0.20	0.40	0.40	0.50	0.50	0.40	0.30	<0.20
Escherichia Coliform ²	MPN/100 mL	43	240	93	93	150	4	740	15
Fecal Coliform ²	MPN/100 mL	43	430	93	93	150	4	740	15

Weather Conditions during monitoring Winds NW at 8 km/hr with 10% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 23.9°C

- Notes: 1) LIMS Reference No: 46021
 2) Analysed by contract laboratory.
 3) No result because the initial DO was below the BOD test limit.
 4) No result due to preparation error

Report Compiled By: H.Demchenko
 Compliance Reporting Technician

Approved in LIMS By: C.Diduck
 Analytical Services Branch Head

Date Compiled: 22-Jan-19

File No: 040-14-09-03-00