

**City of Winnipeg
Water and Waste Department**

2016 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	September 22, 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) ⁴
Temperature	° C	13.9	13.0	12.1	14.1	13.1	14.9	13.3	ns
Dissolved Oxygen	mg/L	9.3	9.2	8.5	10.7	6.5	8.6	6.7	ns
Oxygen Saturation	%	90	87	79	104	62	85	64	ns
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	nr ³	ns
pH	units	8.06	7.93	7.65	8.12	7.66	7.96	7.73	ns
Total Solids	mg/L	394	412	1410	1370	876	580	684	ns
Total Suspended Solids	mg/L	34	56	3	3	6	30	27	ns
Turbidity	n.t.u.	39.3	47.4	3.1	2.1	6.9	29.7	29.9	ns
Total Organic Carbon	mg/L	25	26	21	17	22	24	27	ns
Chlorophyll a	ug/L	4	5	2	9	4	33	nr ⁵	ns
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	ns
Nitrate Nitrogen	mg/L N	0.020	0.030	<0.003	0.429	0.030	0.010	0.261	ns
Total Nitrogen	mg/L N	0.9	1.0	0.2	1.2	0.9	1.6	3.0	ns
Soluble Phosphorus	mg/L P	0.05	0.06	<0.01	0.02	0.02	0.40	0.17	ns
Total Phosphorus	mg/L P	0.11	0.14	<0.04	0.07	0.27	0.58	0.46	ns
Escherichia Coliform ²	MPN/100 mL	240	430	23	93	150	930	93	ns
Fecal Coliform ²	MPN/100 mL	240	430	23	93	430	930	93	ns

Weather Conditions during monitoring: Winds S at 4 km/hr with 30% cloud cover and 4.1 mm of precipitation. Average air temperature during survey at 3.8°C

- Notes:
- 1) LIMS Reference No: 47508
 - 2) Analysed by contract laboratory.
 - 3) No result because the initial DO was below the BOD test limit.
 - 4) No sample due to no flow
 - 5) No result due to sample leak

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