

**City of Winnipeg
Water and Waste Department**

2015 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :		October 22, 2015								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) ⁵		
Temperature	° C	7.2	6.9	6.6	7.7	6.9	6.7	6.8	ns		
Dissolved Oxygen	mg/L	10.2	10.1	8.6	10.1	9.6	9.7	5.9	ns		
Oxygen Saturation	%	84	84	70	85	79	80	49	ns		
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	nr ³	ns		
pH	units	8.13	7.96	7.67	8.06	7.75	7.91	7.61	ns		
Total Solids	mg/L	324	390	1200	1100	832	532	704	ns		
Total Suspended Solids	mg/L	13	37	<3	<3	4	9	5	ns		
Turbidity	n.t.u.	16.5	33.3	3.4	3.5	4.6	15.5	7.5	ns		
Total Organic Carbon	mg/L	14	17	7	7	12	15	12	ns		
Chlorophyll a	ug/L	2	43	2	nr ⁴	1	15	40	ns		
Ammonia Nitrogen	mg/L N	<0.003	0.017	<0.003	0.036	<0.003	<0.003	0.529	ns		
Nitrate Nitrogen	mg/L N	<0.003	0.092	0.014	0.404	0.015	0.031	0.753	ns		
Total Kjeldahl Nitrogen	mg/L N	0.8	<0.5	0.9	<0.5	1.1	1.6	1.5	ns		
Total Nitrogen	mg/L N	0.8	0.3	0.9	0.7	1.1	1.6	2.3	ns		
Soluble Phosphorus	mg/L P	0.07	0.08	0.05	0.09	0.13	0.54	0.12	ns		
Total Phosphorus	mg/L P	<0.2	<0.2	0.20	0.20	0.70	0.90	0.20	ns		
Escherichia Coliform ²	MPN/100 mL	23	93	15	74	74	150	430	ns		
Fecal Coliform ²	MPN/100 mL	23	240	15	150	150	150	430	ns		

Weather Conditions during monitoring Winds ESE at 13 km/hr with <1% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 4.6°C

- Notes:
- 1) LIMS Reference No: 44191
 - 2) Analysed by contract laboratory.
 - 3) No result because the initial DO was below the BOD test limit.
 - 4) No result due to technician error
 - 5) No sample due to no flow

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