

**City of Winnipeg
Water and Waste Department**

2016 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	May 19, 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	15.2	15.1	14.3	15.5	13.6	17.6	15.4	ns
Dissolved Oxygen	mg/L	9.2	9.1	9.8	10.7	9.7	13.7	7.0	ns
Oxygen Saturation	%	92	90	95	107	94	144	71	ns
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	11	nr ³	ns
pH	units	8.33	8.28	8.00	8.32	8.34	9.31	7.95	ns
Total Solids	mg/L	374	390	814	884	1310	562	1110	ns
Total Suspended Solids	mg/L	35	61	9	13	3	43	6	ns
Turbidity	n.t.u.	35.0	49.0	11.5	9.9	3.4	28.2	6.7	ns
Total Organic Carbon	mg/L	24	25	28	27	24	28	25	ns
Chlorophyll a	ug/L	<1	5	1	3	<1	43	3	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	0.008	<0.003	0.014	0.099	0.047	<0.003	0.022	ns
Total Kjeldahl Nitrogen	mg/L N	0.9	0.9	1.7	1.3	1.9	2.4	<0.5	ns
Total Nitrogen	mg/L N	0.9	0.9	1.7	1.4	1.9	2.4	0.3	ns
Soluble Phosphorus	mg/L P	0.03	0.04	0.19	0.16	0.11	<0.01	0.08	ns
Total Phosphorus	mg/L P	0.80	0.60	0.70	0.40	0.40	1.00	0.20	ns
Escherichia Coliform ²	MPN/100 mL	43	93	930	93	240	9	150	ns
Fecal Coliform ²	MPN/100 mL	43	240	930	93	240	9	150	ns

Weather Conditions during monitoring Winds S at 50 km/hr with 5% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 20.3°C

- Notes:
- 1) LIMS Reference No: 46209
 - 2) Analysed by contract laboratory.
 - 3) No result because the initial temperature was outside the BOD test limits
 - 4) No sample due to no flow

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