

**City of Winnipeg
Water and Waste Department**

2018 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ : May 31, 2018		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	19.7	18.8	16.2	17.7	17.7	20.8	19.8	15.4
Dissolved Oxygen	mg/L	7.3	5.0	6.3	5.9	4.9	5.8	5.0	3.2
Oxygen Saturation	%	80	54	64	62	46	65	55	32
Biochemical Oxygen Demand	mg/L	nr ³	nr ³	nr ³	nr ³	nr ³	nr ³	nr ³	nr ³
pH	units	8.02	7.59	7.63	7.68	7.41	7.75	8.28	7.52
Total Solids	mg/L	380	456	1190	714	412	580	960	324
Total Suspended Solids	mg/L	124	53	40	18	32	34	9	7
Turbidity	n.t.u.	74.0	53.4	21.0	21.2	16.3	28.3	5.3	5.8
Total Organic Carbon	mg/L	12	12	9	7	8	9	9	11
Chlorophyll a	ug/L	9	5	19	5	5	24	3	5
Ammonia Nitrogen	mg/L N	0.017	0.134	<0.003	0.236	0.102	0.049	0.297	<0.003
Nitrate Nitrogen	mg/L N	0.030	0.180	0.080	0.942	0.229	0.008	0.070	0.180
Total Nitrogen	mg/L N	0.6	0.9	0.8	1.9	0.8	0.8	1.3	0.6
Soluble Phosphorus	mg/L P	0.07	0.13	0.14	0.21	0.21	0.34	0.16	0.13
Total Phosphorus	mg/L P	0.18	0.26	0.26	0.27	0.28	0.49	0.26	0.14
Escherichia Coliform ²	MPN/100 mL	200	2990	960	19900	3650	90	480	3650
Fecal Coliform ²	MPN/100 mL	120	2360	1240	24200	2850	100	380	3260

Weather Conditions during monitoring Winds north at 9 km/hr with 100% cloud cover and 4 mm of precipitation. Average air temperature during survey at 17°C

- Notes: 1) LIMS Reference No: 52874
 2) Analysed by contract laboratory.
 3) BOD nr due to initial DO below the BOD test limit of 7.5

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 Analytical Services Branch Head

Date Compiled: 22-Jan-19

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