

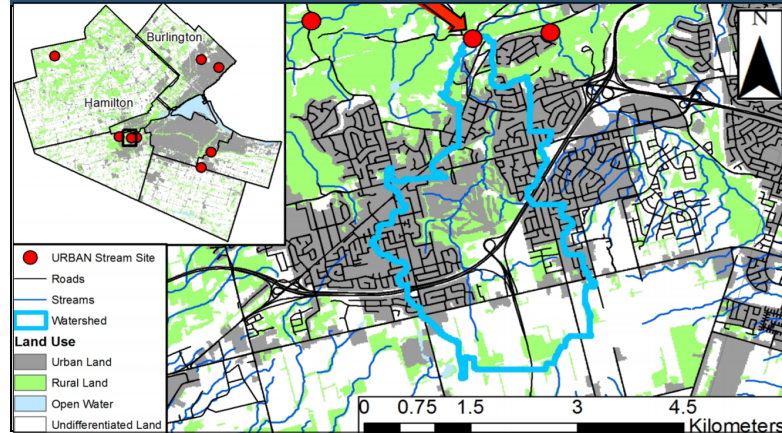
Report Card: Sherman Falls



Site Information

Stream	Ancaster Creek
Land Management	Hamilton Conservation Authority
URBAN Monitoring	Sampled in: May 2010-2014, 2017
Urban Land Use	53.7% in watershed
Road Density	127.2 m/ha in watershed
Ecological Importance	Tourist attraction on Bruce Trail; downstream of an urbanizing area

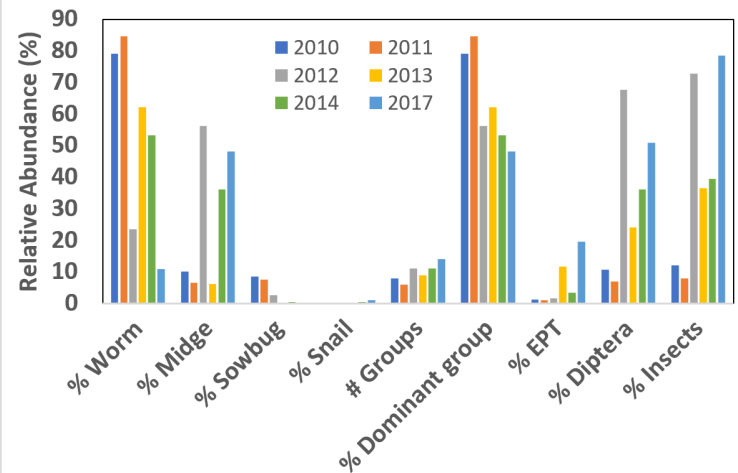
Site Map



Results

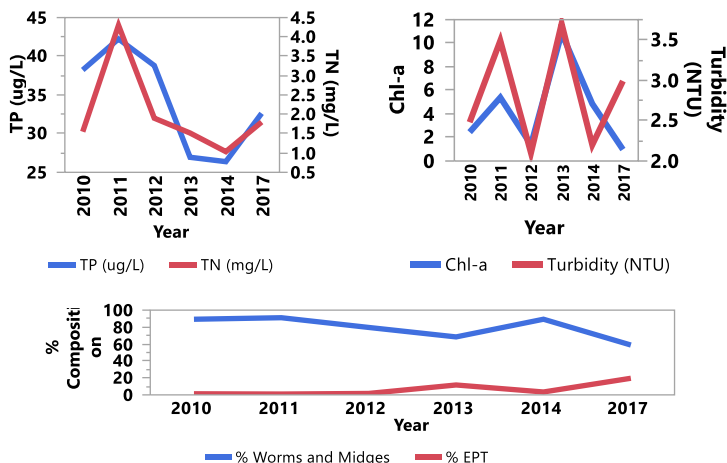
Stream Benthic Invertebrates

Indicator	Score					
	2010	2011	2012	2013	2014	2017
Total Abundance	307	201	235	291	205	204
Species Richness	8	6	11	9	11	14
% EPT	1.3	1	1.7	11.68	3.41	19.608
% Worms & Midges	89.25	91.05	79.57	68.39	89.27	58.81
HBI	7.83	7.88	6.89	7.18	7.13	5.97



Water Quality

Parameter	Score						Parameter	Score					
	2010	2011	2012	2013	2014	2017		2010	2011	2012	2013	2014	2017
Total Phosphorus (ug/L)	38.23	42.24	38.81	26.94	26.38	32.62	Chlorophyll-α (ug/L)	2.45	5.39	1.38	10.85	4.86	
Total Nitrogen (mg/L)	1.55	4.3	1.9	1.52	1.035	1.8	Turbidity (NTU)	2.48	3.49	2.1	3.7	2.2	2.99
Conductivity (mS/cm³)	1128	738	403	1003	1095	1210	pH	8.28	8.57	8.08	7.34	—	8.36



Site Summary

- There appears to have been a decrease in phosphorus and nitrogen levels since 2011, suggesting decreasing levels of anthropogenic impact
- Chlorophyll and turbidity values remain unstable; there are no trends to be seen
- While EPT numbers (pollution-intolerant mayflies, caddisflies and stoneflies) appear to be increasing, they remain substantially lower than pollution-tolerant worms and midges, whose numbers appear to be decreasing
- Overall, water quality parameters suggest stream impairment

Overall Status 2017: Impaired