

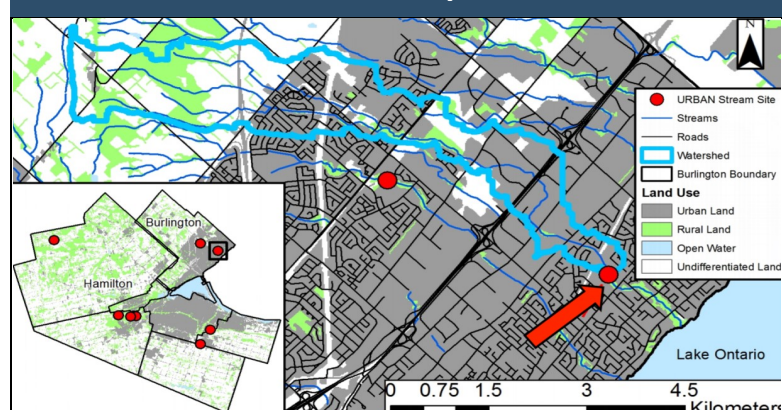
Report Card: Nelson Park



Site Information

Stream	Shoreacres Creek, Burlington
Land Management	Halton Region Conservation Authority (HRCA)
URBAN Monitoring	Sampled May 2010, 2011, 2013, 2014, 2017
Urban Land Use	50.9% in watershed
Road Density	46.6 m/ha in watershed
Ecological Importance	Urban stream in public park

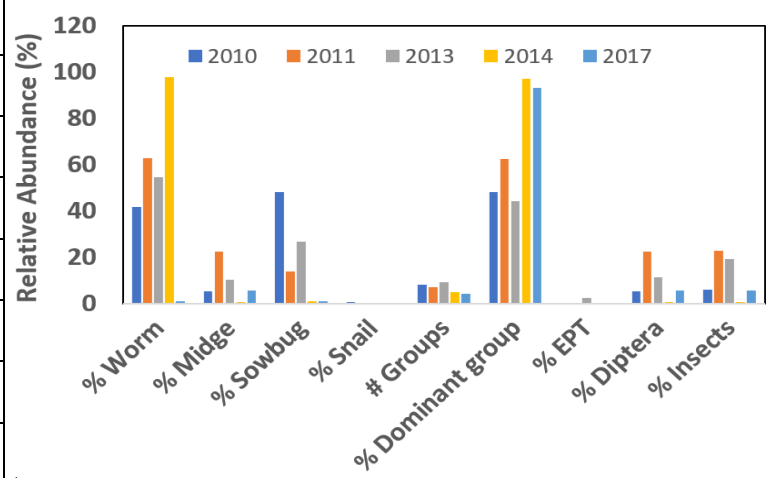
Site Map



Results

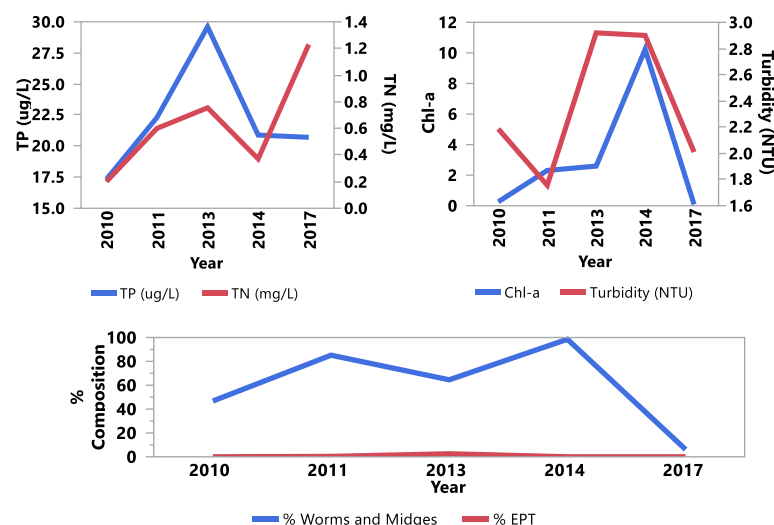
Stream Benthic Invertebrates

Indicator	Score				
	2010	2011	2013	2014	2017
Total Abundance	218	317	79	482	860
Species Richness	8	7	9	5	4
% EPT	0	0.32	2.53	0	0
% Worms & Midges	46.8	85.2	64.6	98.55	6.19
HBI	7.81	7.76	7.62	7.99	6.08



Water Quality

Parameter	Score					Parameter	Score				
	2010	2011	2013	2014	2017		2010	2011	2013	2014	2017
Total Phosphorus (ug/L)	17.33	22.3	29.6	20.89	20.71	Chlorophyll-α (ug/L)	0.26	2.31	2.6	10.23	0.09
Total Nitrogen (mg/L)	0.2	0.6	0.75	0.371	1.23	Turbidity (NTU)	2.19	1.76	2.92	2.9	2.01
Conductivity (mS/cm³)	1199	1000	1050	1075	562	pH	6.25	8.4	7.74	—	7.43



Site Summary

- High nitrogen and phosphorus levels reflect urban and agricultural runoff inputs
- Stream continues to be dominated by pollution-tolerant worms while numbers of pollution-intolerant EPT taxa (mayflies, caddisflies, stoneflies) are declining
- Typically high conductivity reflects inputs of suspended solids and road salts
- Lack of diversity in benthic community, accompanied by low numbers of EPT taxa, dipteran species and insects and poor water quality values indicate an impaired stream

Overall Status 2017: Impaired