



Report Card: Valens Conservation Area

About the site	Map
Spencer Creek	
Sampled on 22 May 2012	
Hamilton Conservation Authority	
Why is this stream important? - Area of Natural and Scientific Interest	

Invertebrate Community	Site Photo
<p>Valens Conservation Area (Spencer Creek)</p>	

Variable Measured	2010	2011	2012
Total number of invertebrates	307	275	234
Average species richness (number of species)	13	12	6
% pollution sensitive taxa (%EPT) (Mayflies, stoneflies, caddisflies)	28.4%	10.5%	77.2%
% pollution tolerant taxa (Aquatic worms, midges)	10.4%	38.5%	1.28%

Water Quality	2010	2011	2012		2010	2011	2012
Total Phosphorus (ug/L)	66.92	45.28	65.54	Chlorophyll a (ug/L)	4.82	1.54	2.86
Total Nitrogen (mg/L)	2.25	0.0	1.01	pH	7.19	7.88	7.96
Conductivity (uS/cm)	670	485	183	Turbidity (NTU)	2.35	0.76	0.84

Overall status: Aquatic insect community appears to be increasing in pollution-sensitive taxa; phosphorus needs to be reduced further.