

EII Calculation for High Gradient Streams in Eastern Kentucky Coalfield (VERSION 2002.6)
 (Genus/species Level Taxonomy - Riffle Only Sample)

Project ID:	Division Meeting - Robinson Forest Field Visit
Stream/Reach:	Falling Rock Branch
Assessment Objectives:	Estimate quality/integrity of stream ecosystem using Genus Level Taxonomy and Sampling Riffles Only

0.94	Ecological Integrity Index (MBI + Habitat Integrity + Conductivity)
0.92	Ecological Integrity Index (Habitat Integrity + Conductivity)

Variables	Measure	Units	
>>>>>> Enter quantitative or categorical measure from Field Data Sheet in shaded cells			
RBP Habitat Parameters			
1. Epifaunal Substrate	18	no units (0-20)	
2. Embeddedness	18	no units (0-20)	
3. Velocity/Depth Regime	15	no units (0-20)	
4. Sediment Deposition	11	no units (0-20)	
5. Channel Flow Status	15	no units (0-20)	
6. Channel Alteration	19	no units (0-20)	
7. Freq. Of Riffles (bends)	18	no units (0-20)	
8. Bank stability (both combined)	12	no units (0-20)	
9. Veg. Protection (both combined)	14	no units (0-20)	
10. Riparian Width (both combined)	20	no units (0-20)	
Total Habitat Score	160	no units	Subindex
Habitat Integrity			0.83
Macroinvertebrate Data - Genus/species Level			
11. Genus/species Taxa Richness	43	# of taxa sampled	
12. Genus/species EPT Richness	24	# of EPT species sampled	
13. % Ephemeroptera	46.86	% Mayflies (0-100)	
14. % Chironomidae & Oligochaeta	2.37	% Midges & Worms (0-100)	
15. % Clingers	67.5	% Clingers (0-100)	
16. mHBI	2.78	no units	
Macroinvertebrate Bioassessment	85.67	no units	1.00
Conductivity	41.4	microMHOs	1.00

