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: Jenny Fork

Assessment Objectives: Estimate quality/integrity of stream ecosystem using Genus Level Taxonomy and Sampling Riffles Only

0.45	Ecological Integrity Index (MBI + Habitat Integrity + Conductivity)
0.29	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	12	no units (0-20)	
	2. Embeddedness	12	no units (0-20)	
	3. Velocity/Depth Regime	15	no units (0-20)	
	4. Sediment Deposition	6	no units (0-20)	
	5. Channel Flow Status	15	no units (0-20)	
	6. Channel Alteration	15	no units (0-20)	
	7. Freq. Of Riffles (bends)	16	no units (0-20)	
	8. Bank stability (both combined)	14	no units (0-20)	
	9. Veg. Protection (both combined)	15	no units (0-20)	
	10. Riparian Width (both combined)	18	no units (0-20)	
	Total Habitat Score	**138**	no units	**Subindex**
	Habitat Integrity			**0.48**
	Macroinvertebrate Data - *Genus/species Level*			
	11. Genus/species Taxa Richness	33	# of taxa sampled	
	12. Genus/species EPT Richness	15	# of EPT species sampled	
	13. % Ephemeroptera	2.37	% Mayflies (0-100)	
	14. % Chironomidae & Oligochaeta	9.7	% Midges & Worms (0-100)	
	15. % Clingers	42.46	% Clingers (0-100)	
	16. mHBI	3.02	no units	
	Macroinvertebrate Bioassessment	**59.27**	no units	**0.76**
	Conductivity	**635.1**	microMHOs	**0.10**