

BENTHIC & FISH HABITAT, AESTHETIC, & REMOTENESS RATINGS & EXTRA SPACE >>>						Reviewers Initials	
AN-Code				Date			
PARAMETER	Optimal	Sub-optimal	Marginal	Poor			
BENTHIC MACRO-INVERTEBRATE SUBSTRATE	Preferred substrate abundant ; stable, & at full colonization potential (riffles well developed & dominated by cobble ; substrate not new or transient).	Substrate adequate for maintenance of populations; abundance of cobble with coarse gravel &/or boulders common ; small areas of new &/or transient substrate particles (sand and fine gravel) may be present .	Preferred substrate uncommon ; some cobble present but gravel or large boulders & bedrock prevalent ; transient substrate areas may be frequent .	Preferred substrate virtually absent ; gravel or large boulders & bedrock dominant ; transient areas may be dominant .			
Remember to consult with Biomorph							
Rate for entire reach even if the reach is not representative of benthic sample area							
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0			
FISH HABITAT	Variety of stable fish habitat is available in ≥ 75% of the reach: boulders, undercut banks, woody debris, submerged roots and trees, macrophytes, overhanging veg. (<1m from water surface), filamentous algae, and artificial structures	Fish habitat available in 40 to 75% of reach; adequate for maintenance of populations; small, unstable or transient areas present	Preferred habitat less common, available in 10 to 40% of reach; featureless and/or unstable areas more common	Less than 10% of reach with stable, usable habitat; dominated by featureless and/or transient areas			
Score lower if dominated by filamentous algae or artificial structures							
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0			
TRASH INDEX	Little or no evidence of human refuse present.	Human refuse present in small amounts .	Human refuse present in Moderate amounts .	Human refuse abundant and unsightly .			
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0			
REMOTENESS RATING	Stream assessment site more than ¼ mile from nearest Road; access difficult and little or no evidence of human disturbance .	Stream assessment site within ¼ mile of roadside; site with moderately wild character.	Stream within ¼ mile of roadside; development activities evident .	Segment immediately adjacent to roadside access; visual, olfactory, and/or auditory displeasure experienced.			
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0			
Is Site A Potential Reference?		<input type="checkbox"/> Yes <input type="checkbox"/> No (Consider Water Chemistry, Benthos, Habitat, Human Disturbance, Location (i.e., Ecoregion), Level I vs. Level II vs. Level III Reference Condition, etc.)					
If not a Potential Reference, why?							
Stressor Info (Check all that apply and only those that are definite stressors).		<input type="checkbox"/> Sediment <input type="checkbox"/> Fecal <input type="checkbox"/> Nutrients <input type="checkbox"/> Metals <input type="checkbox"/> pH <input type="checkbox"/> Sulfate <input type="checkbox"/> Conductivity <input type="checkbox"/> Other:					
Please check Other if the site is located 1-2 miles downstream of any impoundment (e.g., lakes, ag. or mining ponds, flood control dams, beaver dams, low water ford/bridge dams) or a valley fill (mining or road) structures. Be sure to include type of structure (with type of impoundment release), distance upstream to the structure, number and size of tributaries in between that may alter the water chemistry (including dilution effects), and size of impoundment in m x m.		<input type="checkbox"/> Impoundment: <input type="checkbox"/> Lake <input type="checkbox"/> Ag Pond <input type="checkbox"/> Mining Pond <input type="checkbox"/> Flood Control <input type="checkbox"/> Beaver <input type="checkbox"/> Instream Pool <input type="checkbox"/> Concrete Low Water Ford/Bridge Impoundment Release Type: <input type="checkbox"/> Bottom <input type="checkbox"/> Spillover <input type="checkbox"/> Valley Fill: <input type="checkbox"/> Mining <input type="checkbox"/> Road (i.e., refuse from highway construction)					
		Distance Upstream from Sample Site to Structure (Miles)					
		Number of Tributaries Between Structure and Sample Site					
		Size of Impoundment (m x m)					
EXTRA SPACE FOR SPILL-OVER COMMENTS AND NOTES BELOW. When using this space, please indicate from which section of the form this is a continuation. For example, "More Sediment Notes" or "More Stream Reach Activities & Disturbances Notes" will allow the data entry person to associate this to the appropriate subform in the database. Also be sure to indicate that there are additional notes here under the appropriate section (e.g., "More Notes on Page 7").							

BENTHIC COMPARABILITY, PERIPHYTON/ALGAE/AQ. PLANT INFO, FISH COL INFO>>>>>		Reviewers Initials	
AN-Code		Date	
Benthic sample comparability	Was benthic sample comparable with respect to riffle/run depth and velocity?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there evidence that the stream channel was scoured by recent flooding or high flows?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is it possible that sample areas were dry or partially dry for an extended period before sample was taken?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is there evidence that the stream is "wet-weather" and flowing only in response to recent rainfall?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Use the space below to describe the site and explain responses to the previous questions. What organisms were put in the jar?			

Periphyton/Plant Abundance							
Indicate abundance of each: 0=None, 1=Low, 2=Moderate, 3=High, 4=Extreme, NR=Not Rated	Periphyton (<i>Brown-slick; Diatoms</i>)		Filamentous Algae (<i>Green; Long</i>)		Blue-Green Algae (<i>Blueish-Green Slime; Not Long</i>)		Aquatic Mosses
	Submerged Aquatic Plants (<i>e.g., Stargrass, Hydrilla</i>)		Emergent Aquatic Plants (<i>e.g., Water Willow</i>)		Floating Aquatic Plants (<i>e.g., Lily Pads, Duckweed</i>)		Total Aquatic Plants
Periphyton/Algae/Aquatic Plants & Mosses Notes:							

Fish Collection Info							
Fish sample collected?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If no, why?				
Field Identified By			Fish Methodology	<input type="checkbox"/> Electrofishing <input type="checkbox"/> Netting <input type="checkbox"/> Bait <input type="checkbox"/> Passive <input type="checkbox"/> Other:			
Fish Collection Devices	<input type="checkbox"/> EF Boat (Motorized) <input type="checkbox"/> EF Boat (Floating) <input type="checkbox"/> Parallel Wires <input type="checkbox"/> Backpack Shocker <input type="checkbox"/> Seine Net <input type="checkbox"/> Trawl Net <input type="checkbox"/> Gill Netting <input type="checkbox"/> Cast Net <input type="checkbox"/> Rod & Reel <input type="checkbox"/> Trot Lines						
Electrofishing Info	Total Shock Time (Seconds)		Voltage (v)		Frequency (Hz)		Electrofisher ID #
Pass Count		Total Fishing Time (Minutes)		# of Netters		# of Shockers	Fishing Reach Length (m)
Is the sample IBI Comparable?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If no, why?				
Fish Sampling Notes:							

