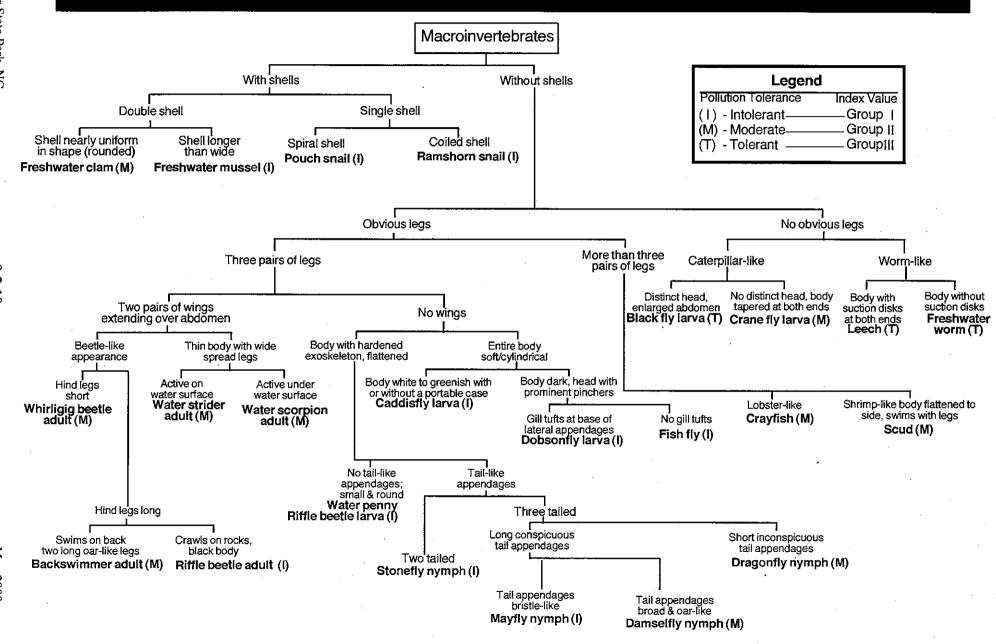
The Key to Water Quality - Key for Test



Aquatic Sampling

Name:

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Location:

Stream		
 Index 		
Value		
T	X	

Temperature

Water:

Methods used to sample:

Instructions:

Use the "Macroinvertebrates Identification Key" to identify the organisms found. Record the species of organisms found in the space below, using the chart to classify them by their tolerance levels.

Group I Do Not Tolerate Pollution	Group II		Group III	
The contraction of the second contraction of the co	Tolerate Some Pollution		Tolerate Pollution	
Stonefly nymph	Dragonfly larva		ckfly larva	
Stonefly adult	Dragonfly nymph	THE PROPERTY OF STREET	ckfly adult	
Hellgrammite	Dragonfly adult	Mid	ge larva	
Caddisfly larva	Scud	Mid	ge adult	
Caddisfly adult	Damselfly larva	Mos	squito larva	,
Freshwater mussel	Damselfly nymph	Mos	squito adult	
Mayfly nymph	Damselfly adult	Flat	worm	
Mayfly adult	Crayfish	Lee	AND A MAKANES CONTRACT HAS STORY STO	
Pouch snail	Water beetle larva	Fre	shwater worm	
Alderfly nymph	Water beetle	Wa	ter snail	
Alderfly adult	Backswimmer			
Ramshorn snail	Water scorpion			
Water penny	Whirligig beetle	THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	COTTO DE TRESTA DE MANAGEMENTO A TRANSPORTO DE LA CONTRACTION DEL CONTRACTION DE LA	
Snipe fly larva	Whirligig beetle		TO COMPANY OF THE PROPERTY OF	
Ollipo II) laiva	larva			
ľ	Waterboatman			•
	Sowbug			
	Riffle beetle adult		A THE RESIDENCE MANAGEMENT OF THE PROPERTY OF	
The state of the s	Water strider		and the second s	
37.24.7	Cranefly larva			
	Freshwater clam			

Calculate the Stream Index Value by multiplying the number of species of organisms in each group by the index value for that group. Then, add the resulting three numbers to obtain the Stream Index Value.

Cumulative Index Values	Stream Index Rating		
23 and above	Excellent		
17 to 22	Good		
11 to 16	Fair		
10 and less	Poor		

(3 X no. of species-Group I)

(2 X no. of species-Group II) + (1 X no. of species-Group III) Stream Index Value

Key To Common Macroinvertebrates Eno Found at Fews Ford, Eno River State Park River State Park, NC Macroinvertebrates Legend With shells Without shells Pollution Tolerance Index Value Single shell Double shell Group I (I) - Intolerant-Group II (M) - Moderate-Shell nearly uniform Shell longer Coiled shell Group[[[(T) - Tolerant Spiral shell in shape (rounded) than wide Ramshorn snail (I) Pouch snail (I) Freshwater clam (M) Freshwater mussel (I) No obvious leas Obvious legs More than three Cateroillar-like Worm-like Three pairs of legs pairs of legs No distinct head, body Body without Distinct head. Body with suction disks tapered at both ends Two pairs of wings enlarged abdomen suction disks No wings at both ends extending over abdomen Body with hardened Entire body Beetle-like Thin body with wide exoskeleton, flattened soft/cylindrical appearance spread legs Black fly larva (T) Crane fly larva (M) Leech (T) Freshwater worm (T Body dark, head with Body white to greenish with Hind legs Active on Active under prominent pinchers or without a portable case water surface water surface short Shrimp-like body flattened to Lobster-like side, swims with legs gill tufts at base of no gill tufts lateral appendages Caddisfly larva (I) Whirligig beetle adult (M) Water strider Water scorpion No tail-like Tail-like adult (M) Dobsonfly larva (1) Fish fly (I) adult (M) appendages appendages Cravfish (M) Scud (M) small round Two tailed Three tailed Hind legs long Short inconspicuous Long conspicuous Swims on back Crawls on rocks. tail appendages tail appendages two long oar-like legs black body Water penny beetle (arva (1) Tail appendages Tail appendages broad & oar-like bristle-like May 2000 Stonefly nymph (I) Dragonfly nymph (M) :Cafferty: Aquatic Entomology. 1983: Jones and Bartlett Publishers, Sudbury MA. W.W. ibrub.com. Reprinted with permission. Backswimmer adult (M) Riffle beetle adult (1) Damselfly nymph (M)

Mayfly nymph (I)