

Stream Quality Survey

Investigators _____
 Stream Name _____ County _____ Site No. _____
 Watershed _____ Date _____ Time _____

Water Chemistry

Dissolved Oxygen _____ ppm Copper _____ ppm
 Nitrate _____ ppm pH _____
 Phosphates _____ ppm Temperature _____ (°C)
 Turbidity _____ NTU (or JTU) Iron _____ ppm
 Odor (circle): rotten egg sewage none other (describe): _____
 Color (circle): clear colored sheen (oily) brown/tannic green/algae muddy

Biological – Benthic Macroinvertebrate Count

Record the numbers of each type of organism found, using letters to indicate relative numbers (A= 1-9, B= 10-99). Add the # of letters in each column and multiply by the *index value* (1,2,or 3). Sum the totals in each column, to determine the water quality rating for the stream. Good water quality is indicated by a variety of organisms, with no on kind making up the majority of the sample.

Group 1 Taxa: Pollution - Sensitive	Group 2 Taxa: Mid - Tolerant	Group 3 Taxa: Pollution - Tolerant
____ Caddisfly Larvae	____ Beetle larvae	____ Aquatic Worms
____ Hellgrammites	____ Clams	____ Blackfly larvae
____ Mayfly Nymphs	____ Cranefly larvae	____ Leeches
____ Gilled Snails	____ Crayfish	____ Midge larvae
____ Riffle beetle Adult	____ Damesfly nymphs	____ Pouch (and other) snails
____ Stonefly nymphs	____ Dragonfly nymphs	____ Other Diptera spp.
____ Water penny larvae	____ Scuds	____
	____ Sowbugs	____
	____ Alderfly larvae	
	____ Watersnipe fly larvae	
_____ x 3 = _____	_____ x 2 = _____	_____ x 1 = _____

Water Quality Rating: Group 1 _____ + Group 2 _____ + Group 3 _____ = _____
 _____ Excellent (>22) _____ Good (17-22) _____ Fair (11-16) _____ Poor (<11)

Physical Stream Characteristics

Velocity = distance/time = _____ feet/second

Volume of Stream Flow = _____ feet/second X _____ = cubic feet per second (cfs)
 (average velocity) (average cross sectional area)

