Macroinvertebrate Survey and Assessment

Monitor Name(s):

Date:	GPS Location:
Stream Name:	Naming Convention:

Macroinvertebrate Count

Identify the macroinvertebrates (to order) using the identification sheets. We are only concerned with organisms that appear on the identification sheets. Record the number of organisms in the table below and assign them letter codes based on their abundance.

R (Rare) = 1-9	C (Common) = 10-99	D (dominant) = 100+		
EXAMPLE: 23 (C) Stonefly Nymphs or 8 (R) Aquatic Worms or 117 (D) Sowbugs				
Group I - Sensitive	Group II - Somewhat Sensitive	Group III - Tolerant		
 () Water Penny Larvae () Hellgrammites () Mayfly Nymphs () Gilled Snails () Riffle Beetle Adults 	() Beetle Larvae () Clams () Cranefly Larvae () Crayfish () Damsefly Nymphs	() Aquatic Worms () Blackfly Larvae () Leeches () Midge Larvae () Snails		
() Stonefly Nymphs () Non-net Spinning Caddisfly Larvae	() Dragonfly Nymphs () Scuds () Sowbugs			
	() Fishfly Larvae () Alderfly Larvae () Net Spinning Caddisfly Larvae	TROUT		

Water Quality Rating

To calculate the index value, add the number of letters found in the three groups above and multiple by the indicated weighting factor.

Group I - Sensitive	Group II - Somewhat Sensitive	Group III - Tolerant
(# of R's) X 5.0 =	(# of R's) X 3.2 =	(# of R's) X 1.2 =
(# of C's) X 5.6 =	(# of C's) X 3.4 =	(# of C's) X 1.1 =
(# of D's) X 5.3 =	(# of D's) X 3.0 =	(# of D's) X 1.0 =
Index Sum Total	Index Sum Total	Index Sum Total

To calculate the water quality score of the stream site, add together the index sum						
total for each group. The sum of these values equals the water quality score.						
Group I - Sensitive						
Group II - Somewhat Sensitive		Compare this score to the following number				
Group III - Tolerant		stream site				
Water Quality Score						
water quality score		Good >40	Fair 20-40	Poor<20		