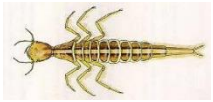
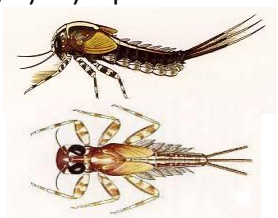
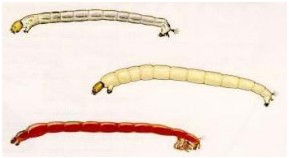
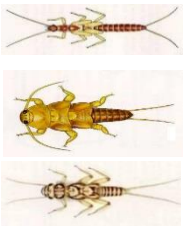
Identification & Scoring Sheet

Macroinvertebrate Monitoring Program

1. Count and record the number of organisms collected for each type of macroinvertebrate.
2. Record an abundance code for each macroinvertebrate type, based on the number of organisms collected:
   - **R** (rare) = 1 – 9 organisms
   - **C** (common) = 10 – 99 organisms
   - **D** (dominant) = ≥ 100 organisms

Group I Sensitive	**Count**	**Group II** Somewhat Sensitive	**Count**	**Group III** Tolerant	**Count**
Water Penny Larvae 		Beetle Larvae 		Aquatic Worms 	
Hellgrammites 		Clams 		Blackfly Larvae 	
Mayfly Nymphs 		Cranefly Larvae 		Leeches 	
		Crayfish 			
Gilled Snails 		Damselfly Nymphs 		Midge Larvae 	
		Scuds 			
Riffle Beetles (adult) 		Sowbugs 		Snails 	
Stonefly Nymphs 		Fishflies 		**Site Name/ID:**	
		Alderflies 		**Sampling Date:**	
Non Net-Spinning Caddisfly Larvae 		Net-Spinning Caddisfly Larvae 		**Monitor Names:**	

Calculating the Water Quality Score

(from EPA Volunteer Monitoring Methods Manual)

To calculate the water quality score:

1. Record the number of R's, C's, and D's found for each Macroinvertebrate Group in box A.
2. Multiply each number (A) by the weight factor listed (B) and record the result in box C.
3. Add the three numbers in box C to get a total value for each Macroinvertebrate Group.
4. Add the totals for all three Groups to get the water quality score for the stream reach sampled.

Group I Sensitive				**Group II** Somewhat Sensitive				**Group III** Tolerant			
	A	B	C		A	B	C		A	B	C
# R's		x 5.0		# R's		x 3.2		# R's		x 1.2	
# C's		x 5.6		# C's		x 3.4		# C's		x 1.1	
# D's		x 5.3		# D's		x 3.0		# D's		x 1.0	
Group I Total =				**Group II Total =**				**Group III Total =**			

Water Quality Score = _____ + _____ + _____

(Group I Total) (Group II Total) (Group III Total)

Water Quality Score = _____

Water Quality Scores	
> 40	Good water quality
20 – 40	Fair water quality
< 20	Poor water quality