Names: Date:

Lesson 6 Lab Sheet

Bioassessment with Macroinvertebrates

Gently remove the macros from the large container and sort them into the ice cube trays for identification. Use the Dichotomous key to ID your creatures. Make a check mark below for each species you find. NOTE: do not record the number of each species, just one check for each different species you find.

Once you have finished making your ✓ for each species. Return your critters to the bucket and count how many of each category you found. Multiply the number of sensitive species by 3; less sensitive by 2; and Tolerant by 1. Then add them up and check what it says about your water quality.

Sensitive:	Less Sensitive:	Tolerant:
___ Stoneflies ___ Caddisflies ___ Water Pennies ___ Riffle Beetles ___ Mayflies ___ Gilled Snails (with operculum) ___ Dobsonflies	___ Crayfish ___ Horsefly Larvae ___ Sowbugs ___ Crane Flies ___ Scuds ___ Diving Beetles ___ Dragon Flies ___ Damselflies ___ Clams ___ Flat Worms (Planaria)	___ Aquatic Worms ___ Midge Flies ___ Black Flies ___ Leeches ___ Pond or Lunged Snails ___ Orb Snails ___ Limpet Snails
___ # of ✔ s multiplied by 3 =	___ # of ✔ s multiplied by 2 =	___ # of ✔ s multiplied by 1 =
Add the three totals from each column =		

Water Quality Rating:

___ Excellent (>22)
___ Good (17-22)
___ Fair (11-16)
___ Poor (< 11)