# Biosurvey: Field Data Sheets (p 1 of 3)

# Macroinvertebrate Survey

Date: year_	month (NOTE: Time h	day r./min. on 24-hour	Time: clock. as 10:	hour 10 for AM o	minute r 22:10 for PM)
Site ID#					
	nformation				
Monitor In	formation				
Monitor In Name					
Monitor In Name					
Monitor Int Name					
Storm Rain (s	on In the past 2 (heavy rain > 1in steady rain ¼in to ers (intermittent ra ast	) o 1in)	Rain	m (heavy ra steady rain wers (interm rcast	
Type of St	<b>ream</b> y-bottom		Mu	ddy-bottom	
Muddy-bott	tom Sampling Or	nly: Record the nu	mber of jabs t	aken in eac	h habitat type.
	Vegetated Bank	Margin	Aqu	latic Vegeta	tion Rode

\_\_\_\_\_ Vegetated Bank Margin
\_\_\_\_\_ Snags and Logs

Aquatic Vegetation Beds Silt/sand/gravel Substrate

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#### Macroinvertebrate Count

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

**R** (rare) = 1-9; **C** (common) = 10-99; **D** (dominant) = 100 plus organisms.

example: 20 ( C ) WaterPenny larvae

#### **Group I - Sensitive**



#### **Group II - Somewhat Sensitive**



#### **Group III - Tolerant**



# Water Quality Rating

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

## **Group I – Sensitive**

(# of R's) x 5.0 = \_\_\_\_\_ (# of C's) x 5.6 = \_\_\_\_\_ (# of D's) x 5.3 = \_\_\_\_\_ Sum of the Index Value for Group I = \_\_\_\_\_

### Group II – Somewhat Sensitive

(# of R's) x 3.2 = \_\_\_\_\_ (# of C's) x 3.4 = \_\_\_\_\_ (# of D's) x 3.0 = \_\_\_\_\_ Sum of the Index Value for Group II = \_\_\_\_\_

### **Group III – Tolerant**

(# of R's) x 1.2 = \_\_\_\_\_ (# of C's) x 1.1 = \_\_\_\_\_ (# of D's) x 1.0 = \_\_\_\_\_ Sum of the Index Value for Group III = \_\_\_\_\_

To calculate the water quality score for the stream site, add together the index values for each group. The sum of these values equals the water quality score.

Water Quality Score = \_\_\_\_\_

Compare this score to the following number ranges to determine the quality of your stream site.

\_\_\_\_\_ Good > 40 \_\_\_\_\_ Fair 20-40 \_\_\_\_\_ Poor <20

• Note: The tolerance groupings (Group I, II, III) and the water quality rating categories were developed for streams in the Mid-Atlantic states.