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

### **Macroinvertebrate Survey**

Date: year_		Time: hour clock, as 10:1	
Site ID#	 	Creek:	 
Recorder Ir Name			 
Monitor Inf			 
Monitor Inf Name	 		 
Monitor Inf	 		 
Monitor Inf Name	 		 

## Precipitation In the past 24 hours:

- \_\_\_\_ Storm (heavy rain > 1in)
- \_\_\_\_ Rain (steady rain ¼in to 1in)
- \_\_\_\_ Showers (intermittent rain up to ¼in)
- Overcast
- \_\_\_\_ Clear

#### Current:

- \_\_\_\_ Storm (heavy rain > 1in)
- \_\_\_\_ Rain steady rain ¼in to 1in)
- \_\_\_\_ Showers (intermittent rain up to ¼in)
- \_\_\_ Overcast
- \_\_\_\_ Clear

#### **Type of Stream**

\_\_\_\_\_ Rocky-bottom \_\_\_\_\_ Muddy-bottom



Please return this form to Amanda Goldsmith and/or Noelle Cudney at the Lancaster County Conservation District

# Biosurvey: Field Data Sheets (p 2 of 3)

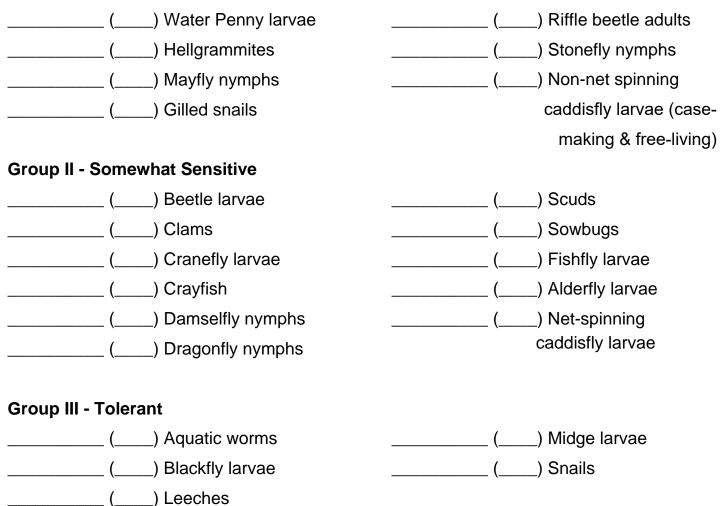
### **Macroinvertebrate Count**

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**





### Water Quality Rating

To calculate the <u>index value</u>, 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.

#### **Contact Information**

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