

Freshwater Macroinvertebrates  
STRO  
320 South River  
Alameda, Pennsylvania  
www.stro.org

10  
TEN

9  
NINE

151

108

151











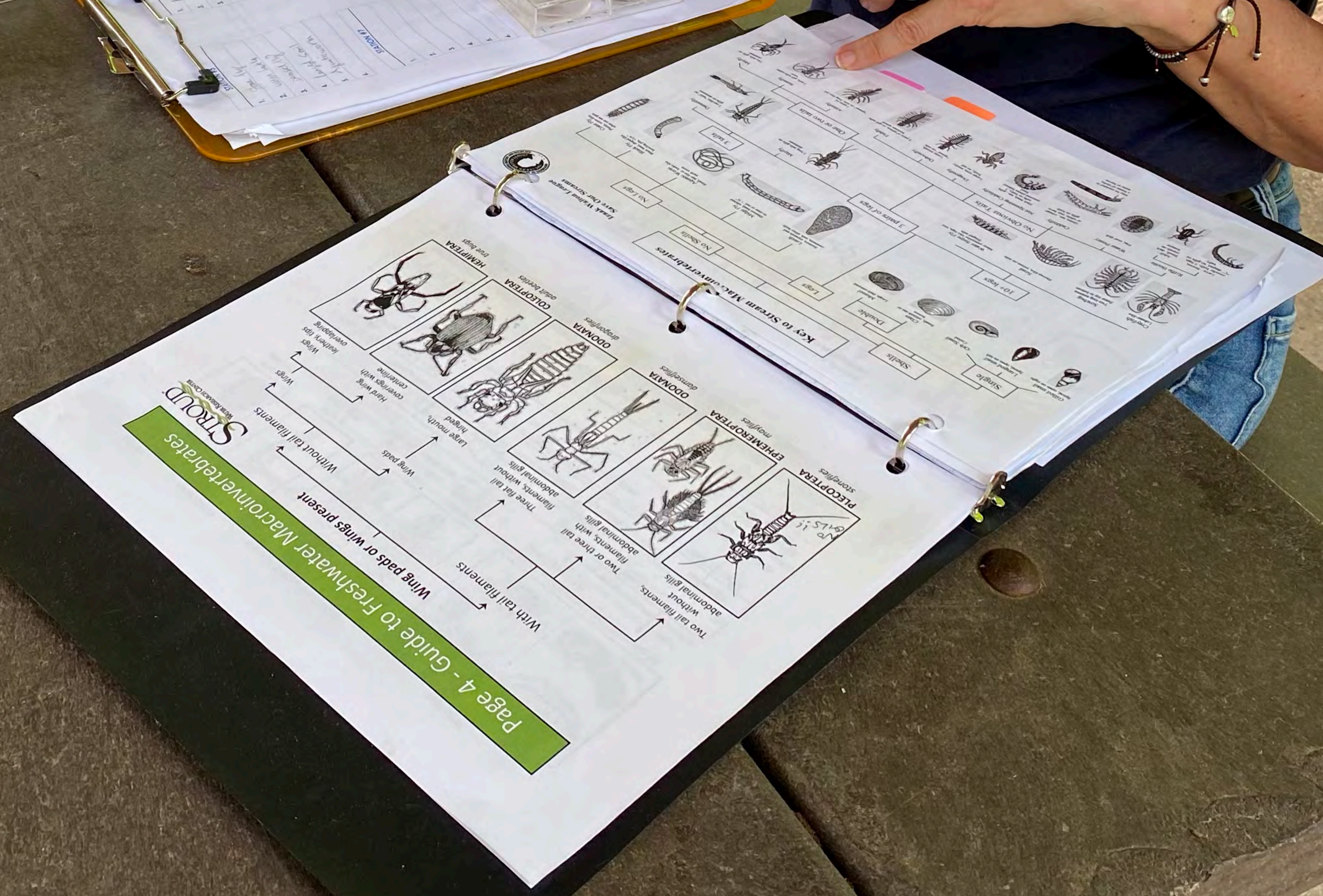






© Stroud Water Research Center  
Macronetvertebrates Insects  
Avondale, Penns  
970 Spenc  
Water Res  
STR  
Freshwater Macro  
Identification

page 4 - Guide to Freshwater Macroinvertebrates  
Stroud Water Research Center



Clipboard with a data table and a clear plastic tray containing small specimens. The table has columns for 'Date', 'Location', 'Number of specimens', and 'Notes'. The tray has several compartments, some containing small insects or larvae.

Clear plastic tray with a blue label, containing small specimens.

Clear plastic tray with a blue label, containing small specimens.

Clear plastic tray with a blue label, containing small specimens.



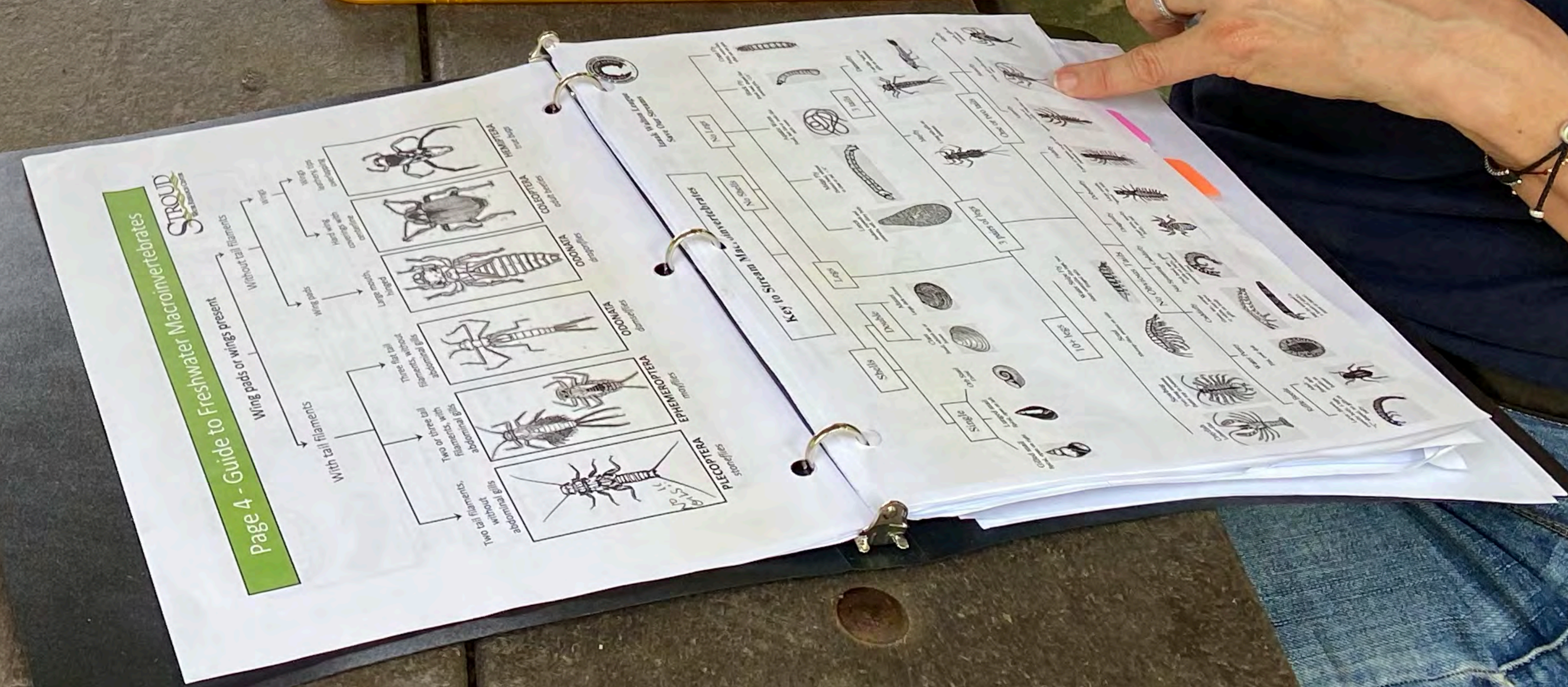
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Clear plastic tray with a blue label, containing small specimens.



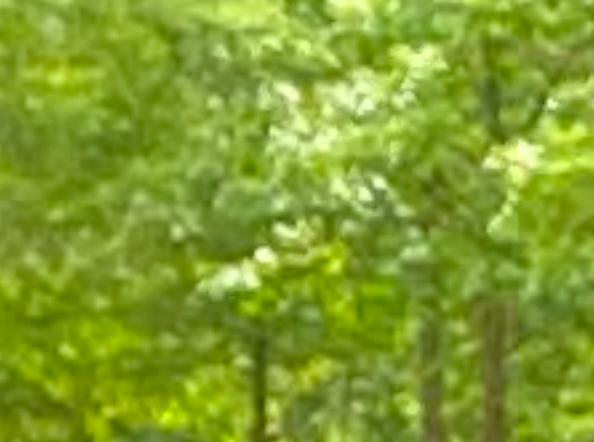
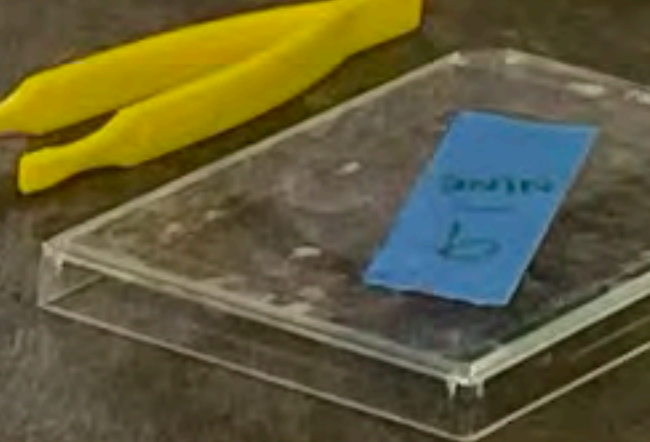


Page 4 - Guide to Freshwater Macroinvertebrates



A field data sheet with a grid for recording observations. The grid has columns for "Date", "Time", "Location", "Observer", and "Notes". The "Notes" column is currently filled with handwritten text. The sheet is titled "Field Data Sheet" and "Macroinvertebrate Observations".

A field data sheet with a grid for recording observations. The grid has columns for "Date", "Time", "Location", "Observer", and "Notes". The "Notes" column is currently filled with handwritten text. The sheet is titled "Field Data Sheet" and "Macroinvertebrate Observations".











Blue bandana with white star pattern

Light blue and white striped button-down shirt

Magnifying glass

Smartphone

White water bottle with blue cap and time markings (2PM, 3PM, 4PM, 5PM)

Petri dish containing a sample

Petri dish with a blue label

Petri dish with a blue label

Tweezers

Checklist and diagram of insect life stages (Egg, Larva, Pupa, Adult) with various insect illustrations and a table for recording observations.

Diagram of insect life stages and a checklist with various insect illustrations.







A person wearing a teal t-shirt and camouflage shorts, holding a clipboard and standing in the water.

A person wearing a teal shirt, dark pants, and a wide-brimmed hat, holding a clipboard and standing in the water.

A person wearing a pink tank top, patterned shorts, and green waders, holding a clipboard and standing in the water.

A person wearing a teal shirt, blue pants, and black waders, holding a clipboard and standing in the water.















**Save Our Streams**  
 Task Walton League of America  
 707 Conservation Lane  
 Gaithersburg, MD 20878-2983  
 (800)BUG-WLA

**GROUP TWO TAXA**  
 Somewhat pollution tolerant organisms can be in good or fair quality water.  
 8 **Crayfish: Order Decapoda**. Up to 6". 2 large claws, 8 legs, resembles small lobster.  
 9 **Sowbug: Order Isopoda**. 1/4" - 3/4". Gray legs, long antennae.

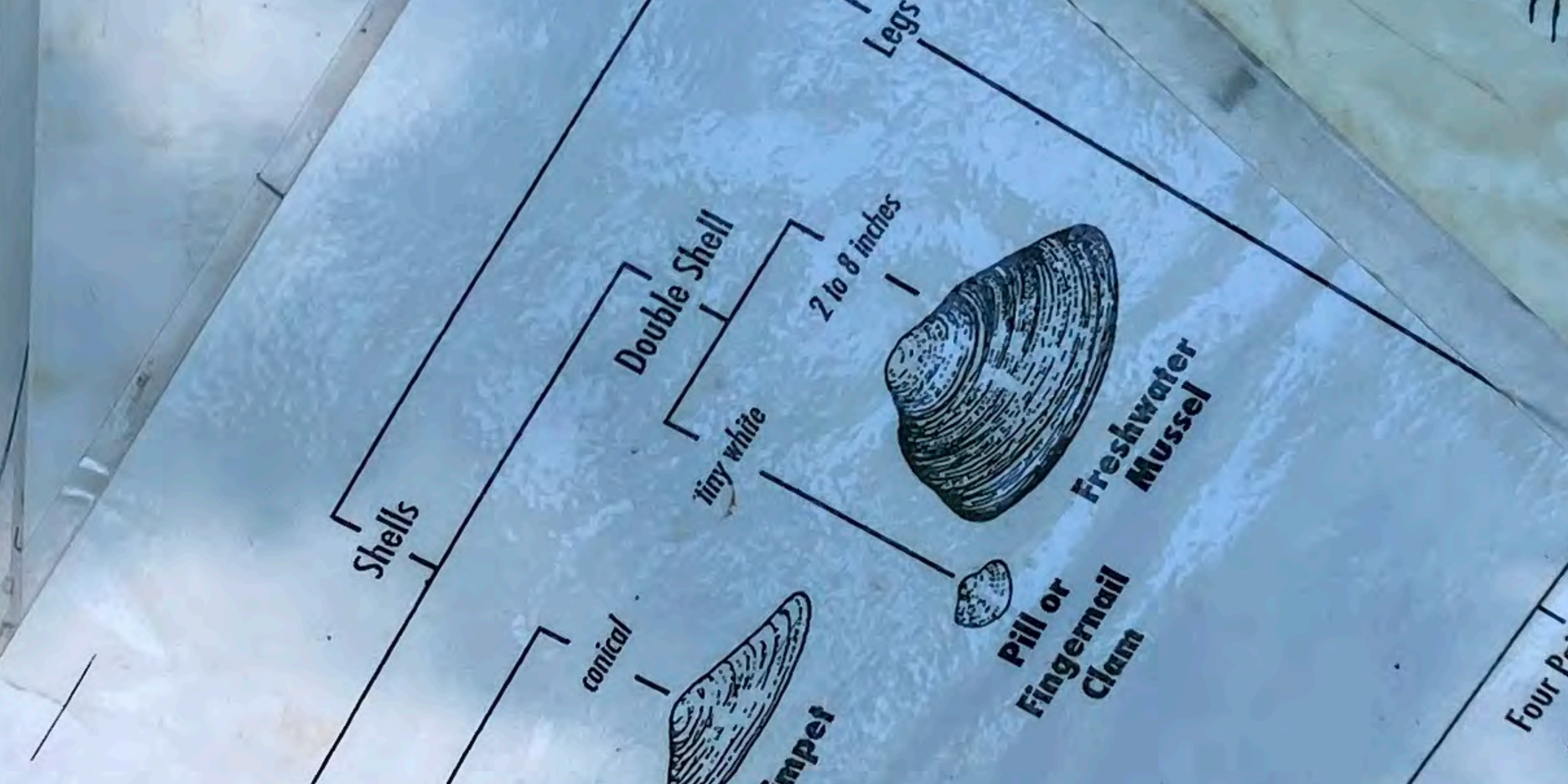
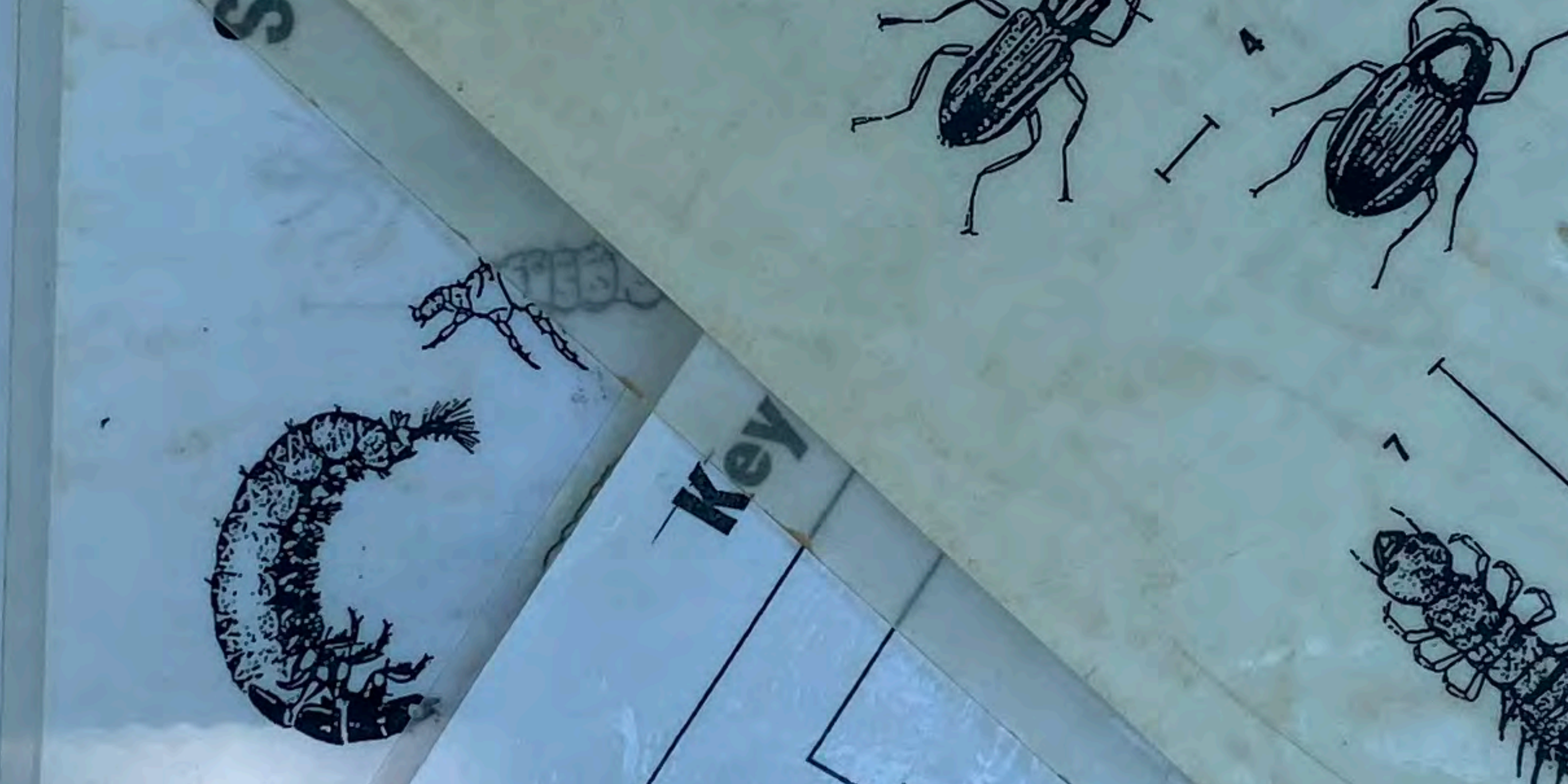
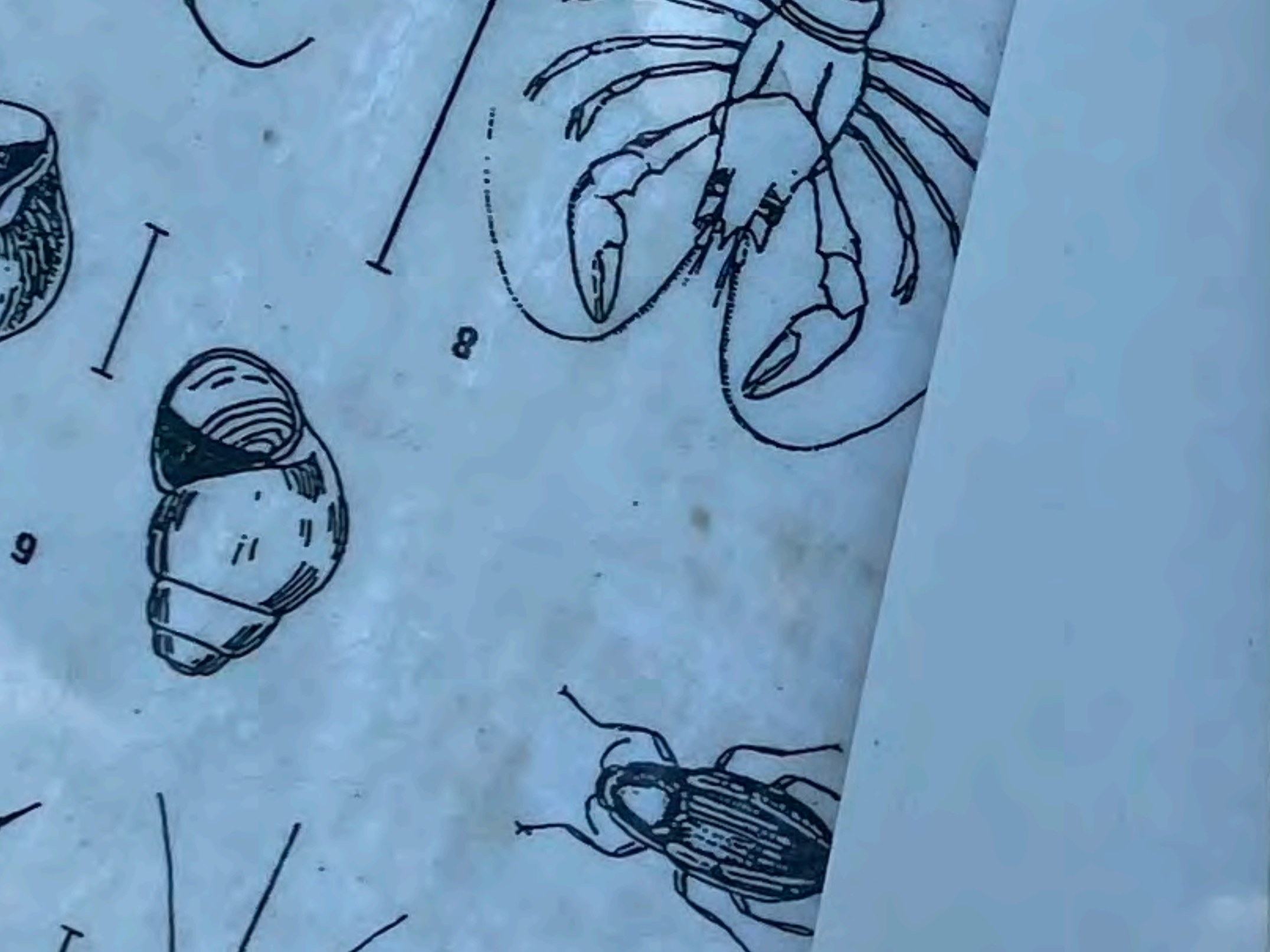
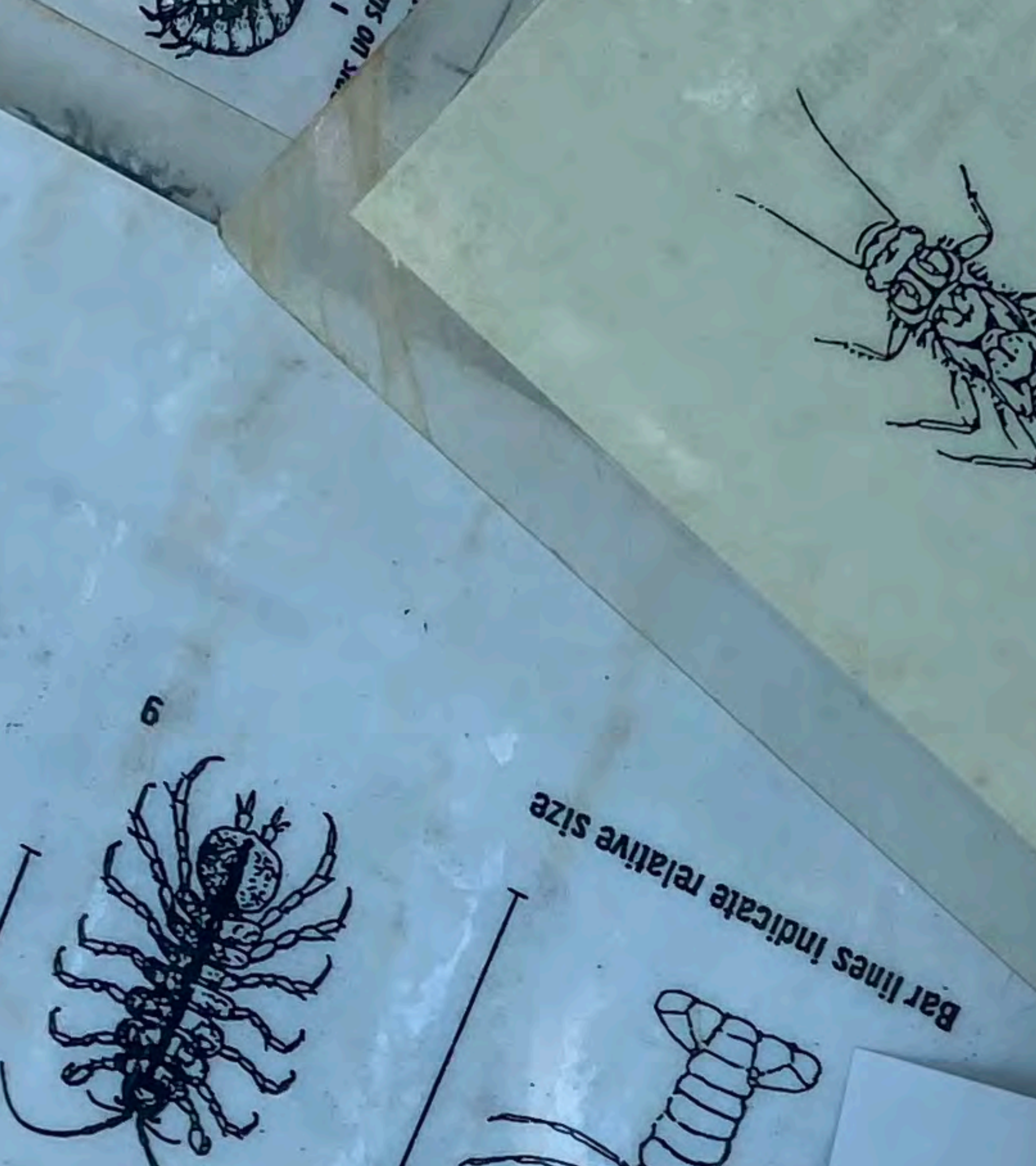
7 **Dobsonfly (Hellgrammite): Family Megaloptera**. Large pinching jaws, eight pairs feelers along underside, short antennae-like gill pairs of hooks at back end.  
 6 **Gilled Snail: Class Gastropoda**. opening covered by thin plate called operculum. When opening is facing you, shell usually may be webbed together.  
 5 **Mayfly: Order Ephemeroptera**. Brown, moving, plate-like sides of lower body (see arrow), 6 legs, antennae, 2 or 3 long legs, long antennae.

4 **Riffle Beetle: Order Coleoptera**. body covered with tiny hairs, 6 legs, antennae. Walks slowly underwater. Does not swim on surface.  
 3 **Water Penny: Order Coleoptera**. saucer-shaped body with a raised bulbous side and 6 tiny legs and feathery gills on the side. Immature beetle.  
 2 **Caddisfly: Order Trichoptera**. hooked legs on upper side, may be in a tail-like shape. (See arrow)

1 **Amphipod**. fish-like, swims in S shape.

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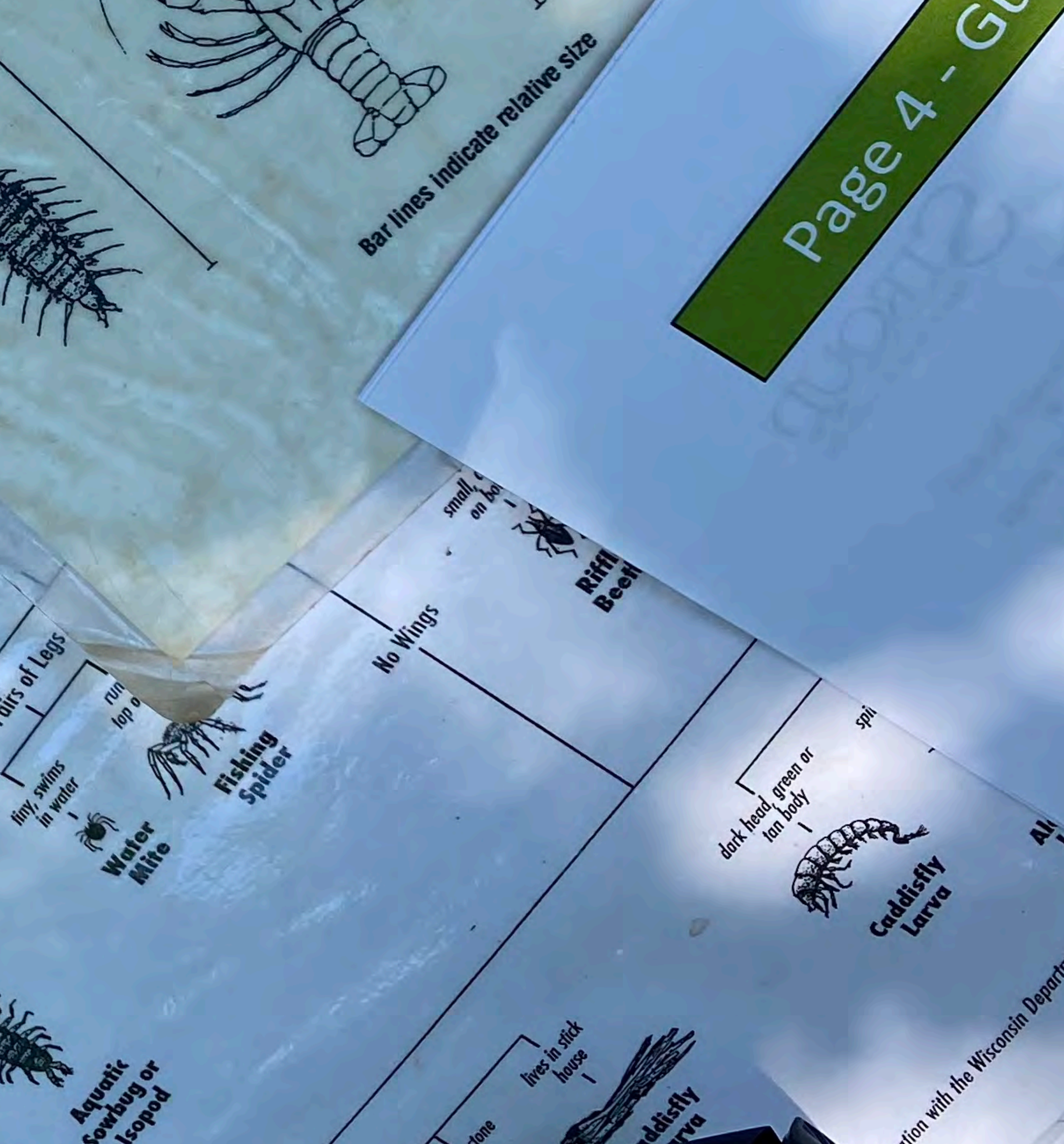


6 **Riffle Beetle: Order Coleoptera**. body covered with tiny hairs, 6 legs, antennae. Walks slowly underwater. Does not swim on surface.  
 5 **Mayfly: Order Ephemeroptera**. 1/4" - 1". brown, moving, plate-like or feathery gills on sides of lower body (see arrow), 6 legs, antennae, 2 or 3 long, hair-like tails. Tails may be webbed together.  
 4 **Gilled Snail: Class Gastropoda**. Shell opening covered by thin plate called operculum. When opening is facing you, shell usually opens on right.  
 3 **Dobsonfly (Hellgrammite): Family Megaloptera**. large pinching jaws, eight pairs feelers on lower half of body with paired cotton-like gill tufts along underside, short antennae, 2 tails and 2 pairs of hooks at back end.  
 2 **Crayfish: Order Decapoda**. Up to 6". 2 large claws, 8 legs, resembles small lobster.  
 1 **Sowbug: Order Isopoda**. 1/4" - 3/4". gray oblong body wider than it is high, more than 6 legs, long antennae.

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# Tamaques Park Wooded Trails



Patel









**STROUT**  
Identification Guide to  
Freshwater Macroinvertebrates

910 Riverside Road  
Pondok, Virginia 22129  
478-366-1234













SEND  
wine  
HOMESCHOOL MOM  
2020

Hank's  
Brewery  
White Lager Beer



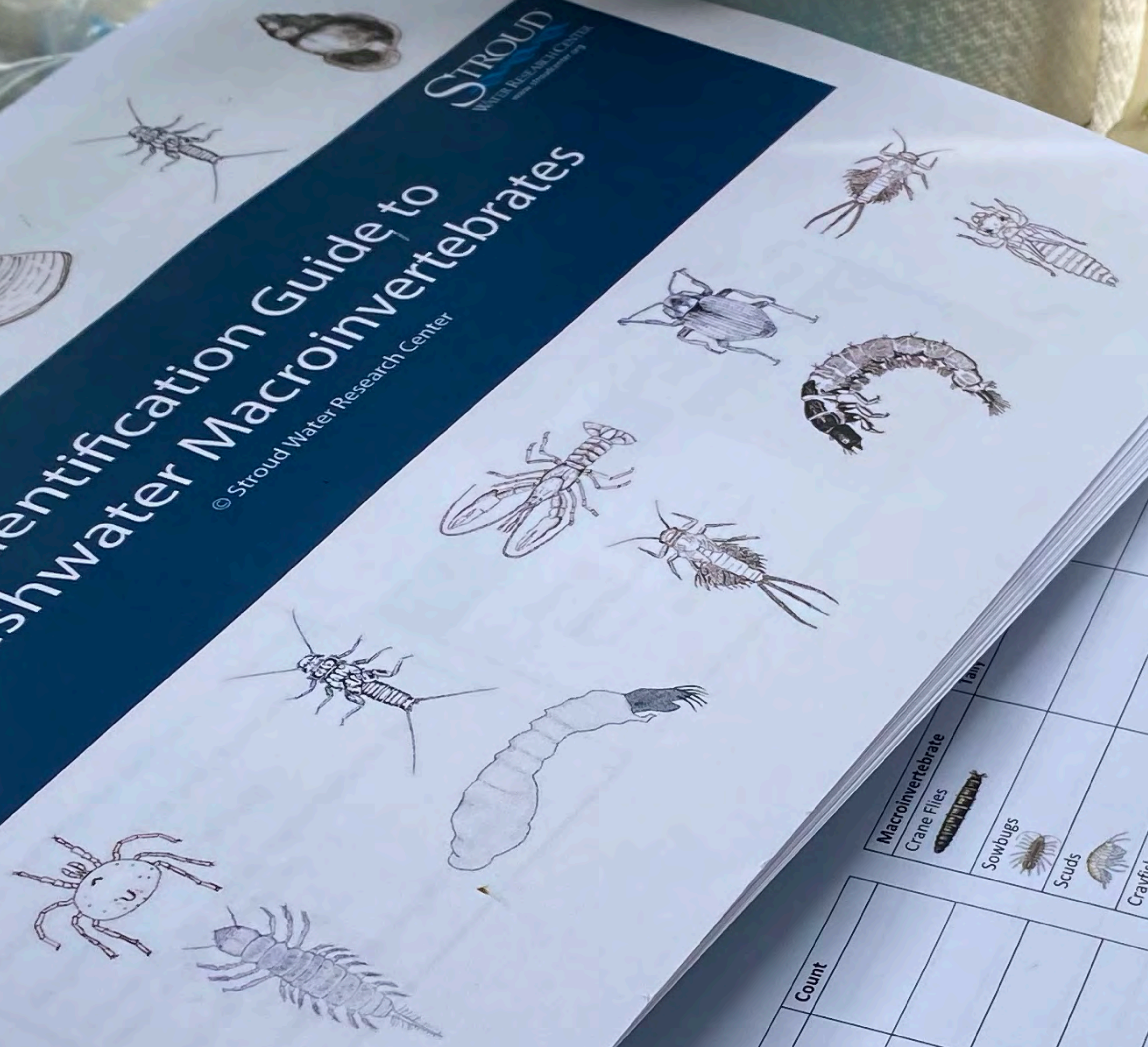




# Identification Guide to Freshwater Macroinvertebrates

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Water Research Center



Macroinvertebrate	Count	Tally
Crane Flies		
Sowbugs		
Scuds		
Crayfish		
Clams/Mussels		
Black flies		
Midge flies		
Lunged snails		
Worms		
Leeches		
Rotifers		
Amphipods		
Hydras		
Planarians		
Water bugs		
Dragonfly nymphs		
Caddisfly nymphs		
Stonefly nymphs		
Trichoptera nymphs		
Diptera nymphs		
Beetle larvae		
Other		

Check one:  High Gradient  
 Pinned  
 Other

Check here if you have a macroinvertebrate

Macroinvertebrate  
 Stroud Water Research Center





















Identification Guide to  
Freshwater Macroinvertebrates  
SPRING

GEORGE  
WASHINGTON



