






LESS SENSITIVE – Somewhat Tolerant of Pollution– Lives in clean to fair water

	<p>Dobsonfly larva (Hellgrammite) $\frac{3}{4}$ - 4" Dark, 6 legs, many long feelers on lower half of body, short antennae, large pinching jaws, gill tufts</p>
	<p>Fishfly/Alderfly larva Up to 1 $\frac{1}{2}$ " Looks like hellgrammite, often reddish tan, no gill tufts</p>
	<p>Net spinner Up to 1 " 6 hooked legs on upper part of body, 2 hooks at back end Has fluffy gill tufts on lower half of body</p>
	<p>Crane fly larva $\frac{1}{3}$ - 2" Green or brown, plump caterpillar-like segmented body, 4 spikes at back end.</p>
	<p>Damselfly larva $\frac{1}{2}$ - 1" Large eyes, 6 thin legs, 3 broad oar-shaped tails, 1 points up</p>
	<p>Dragonfly larva $\frac{1}{2}$ - 2" Large eyes, 6 hooked legs, wide oval or round abdomen</p>
	<p>Crayfish $\frac{1}{2}$ - 6" 2 large claws, 8 legs, resembles small lobster</p>
	<p>Scud $\frac{1}{4}$ " -- Fat body swims sideways, fat body, more than 6 legs</p>
	<p>Sowbug $\frac{1}{4}$ - $\frac{3}{4}$ " --Gray oblong body, more than 6 legs, antennae</p>
	<p>Clam</p>

TOLERANT OF POLLUTION – Can live in poor water (or good and fair)

	<p>Aquatic worm $\frac{1}{4}$ " - 1" -- Thin worm-like body</p>
	<p>Black fly larva Up to $\frac{1}{4}$ " Rounded abdomen, black head with pair of "ferns," suction pad on end</p>
	<p>Midge fly larva Up to $\frac{1}{4}$ " -- red, brown, gray Dark head, worm-like segmented body, 2 tiny legs on each side</p>
	<p>Leech $\frac{1}{4}$ - 2 " Brown, slimy body, ends with suction pads.</p>
	<p>Lunged snail Opening is on the left</p>

Name: _____










DETERMINING THE HEALTH OF FRESHWATER HABITATS IDENTIFYING CREEK MACROINVERTEBRATES

Form developed by Boxerwood Nature Center and Woodland Garden, Lexington, VA

Sensitive to Pollutants	Less Sensitive	Tolerant to Pollutants
Mayfly larva	Dobsonfly larva (hellgrammite)	Aquatic worm
Stonefly larva	Fishfly larva / alderfly larvae	Black fly larva
Caddisfly larva (except net spinners)	Net spinner (caddisfly)	Midge fly larva
Water snipe Fly larva	Crane fly larva	Leech
Riffle beetle	Damselfly larva	Lunged snail
Water penny	Dragonfly larva	
Gilled snail	Crayfish	
	Scud	
	Sowbug	
	Clam	
___ x 3 points = ___	___ x 2 points = ___	___ x 1 point = ___
Total points = _____ Circle one: Excellent (>22) Good (17-22) Fair (11-16) Poor (< 11)		

SENSITIVE TO POLLUTANTS – Requires clean water – Cannot survive polluted habitats

	<p>Mayfly larva $\frac{1}{4}$ - 1 " Brown, moving, plate-like gills on sides of body, 6 large hooked legs, antennae, 3 long, hair-like tails</p>
	<p>Stonefly larva $\frac{1}{2}$ - 1$\frac{1}{2}$ " 6 legs with hooked tips, no gills on sides of body, long antennae, 2 hair-like tails</p>
	<p>Caddisfly larva (except net spinner) Up to 1 " 6 hooked legs on upper part of body, 2 hooks at back end Maybe in a stick, rock, or leaf case with head sticking out</p>
	<p>Water snipe fly larva $\frac{1}{4}$ - $\frac{3}{4}$ " Green, tapered body, many caterpillar-like legs, conical head, feathery "horn" at back end.</p>
	<p>Riffle beetle and larva $\frac{1}{4}$ " Larva has oval body with hard shell</p>
	<p>Water penny $\frac{1}{4}$ " Flat saucer-shaped body with a raised bump on one side and 6 tiny legs on the other side.</p>
	<p>Gilled snail Opening is on right</p>