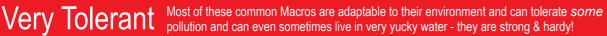
Aquatic Macroinvertebrate Identification Guide Macroinvertebrate species found in the Upper Murray River and Wetlands.





Scavenger

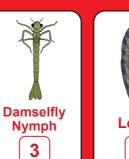
Beetle Larvae









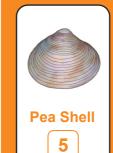
















Dragonfly

Nymph





Needle Bug

3



Pouch

Snail

1



Predacious

Diving Beetle

Larvae

2









4







Interpreting your results

Counting the number of Macroinvertebrates that we find, and adding up their sensitivity scores can indicate the quality of the water they are living in! We can use a simple equation to get our "SIGNAL SCORE" which can then help us to estimate the health of the water we are monitoring. Here is an example:

Let's say we found the following bugs: Freshwater shrimp, Whirligig Beetle, Sow Bug, Damselfly Nymph, Water Boatman, Backswimmer, Caddisfly Larvae and a Yabby.

STEP ONE:

Add up the number of different Macroinvertebrates you found (our example above is 8 different bugs). This is your TAXA RICHNESS number: (8)

Add up all of the sensitivity numbers for those bugs that you found, this give you your POLLUTION INDEX number - in this example it would be: (27)

STEP TWO:

Calculate your SIGNAL SCORE by dividing your POLLUTION INDEX number by your TAXA RICHNESS number:

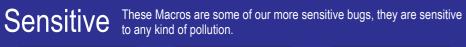
27 divided by 8 = 3.3 so your SIGNAL SCORE is 3.3

STEP THREE:

Use the SIGNAL SCORE Table to help estimate the health of your waterway.

So you see - the MORE different bugs we find, and the MORE sensitive bugs we find - the better the water quality must be!

SIGNAL SCORE	POLLUTION RATING
Higher than 5	Healthy Waterway
Between 4-5	Indicates Mild Pollution
Between 3-4	Indicates Moderate Pollution
Less than 3	Could Indicate Severe Pollution



(sideswimmer)

3

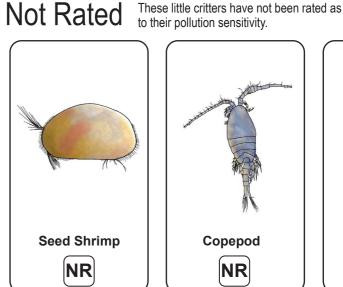


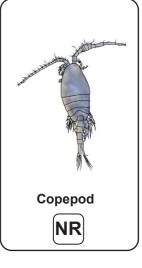
7

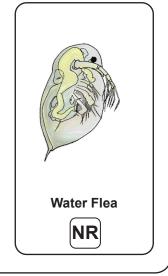


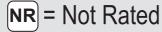




















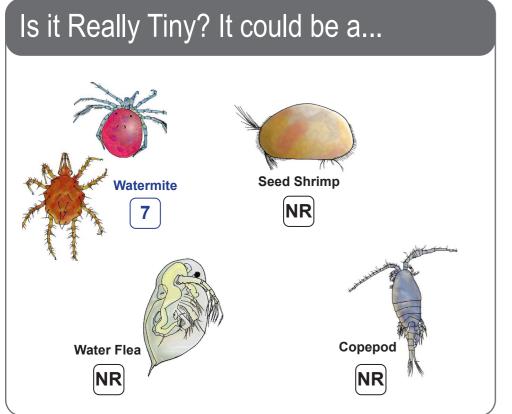


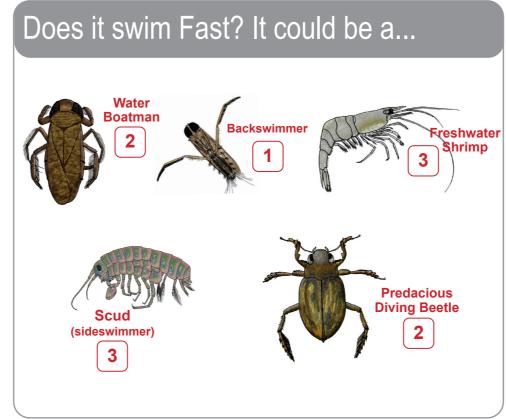


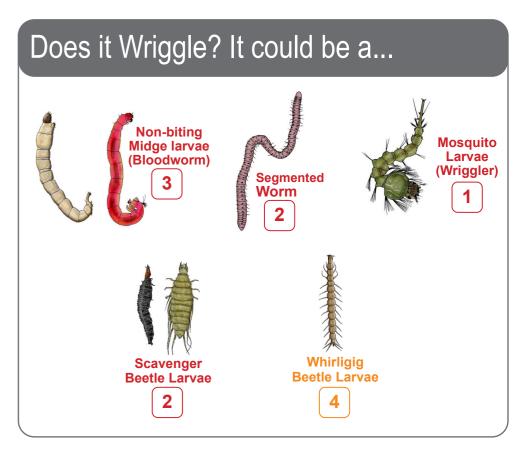


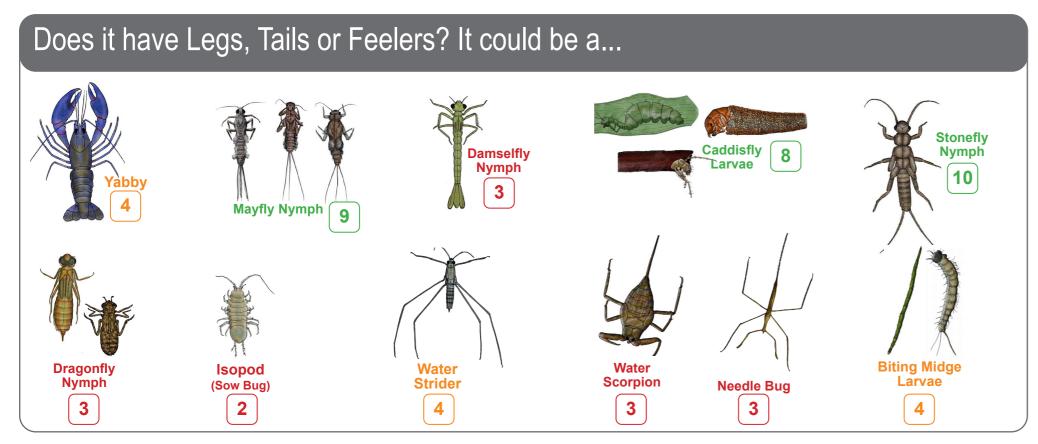
NYANY LANDSCAPE SOUTH AUSTRALIA MURRAYLANDS AND RIVERLAND

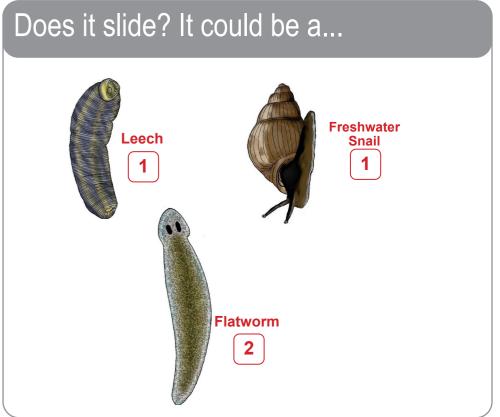
Look very closely and see if you can work it out!











Pollution Sensitivity: NR = Not Rated 10 - 8 = Very Sensitive 7 - 6 = Sensitive 5 - 4 = Tolerant 3 - 1 = Very Toleran