

AQUATIC MACROINVERTEBRATE RECORD SHEET

School: _____ Date: _____

Class conducting the survey: _____ Start time: _____

Site name: _____ Site code: _____

	Common Name	Pollution Sensitivity	Tick if present	Sensitivity Rating
Very Sensitive	Stonefly Nymph	10		
	Mayfly Nymph	9		
	Caddisfly Larvae	8		
Sensitive	Riffle Beetle Larvae	7		
	Water Mite	7		
	Marsh Beetle Larvae	6		
Tolerant	Black Fly Larvae	5		
	Crane Fly Larvae	5		
	Pea Shell	5		
	Biting Midge Larvae	4		
	Freshwater Limpet	4		
	Freshwater Prawn	4		
	Little Basket Shell	4		
	Water Strider	4		
	Whirligig Beetle Adult / Larvae	4		
	Yabby	4		
Very Tolerant	Crawling Water Beetle	3		
	Damselfly Nymph	3		
	Dragonfly Nymph	3		
	Freshwater Shrimp	3		
	March Fly Larvae	3		
	Needle Bug	3		
	Non-biting midge Larvae	3		
	Round Worm	3		
	Scud	3		
	Small Water Strider	3		
	Water Measurer	3		
	Water Scorpion	3		
	Fishing Spider	2		
	Flatworm	2		
	Hydra	2		
	Isopod	2		
	Predacious Diving Beetle Adult / Larvae	2		
	Segmented Worm	2		
	Soldier Fly Larvae	2		
	Water Boatman	2		
	Water Scavenger Beetle Adult / Larvae	2		
	Backswimmer	1		
	Gilled Snail	1		
	Leech	1		
	Mosquito Larvae/Pupae	1		
Pouch Snail	1			
Springtail	1			
Other				
Not Rated	Copepod	NR		
	Seed Shrimp	NR		
	Waterflea	NR		
TOTALS				

Count the number of macroinvertebrate types. This is the **TAXA RICHNESS**.

Add up all the sensitivity numbers to calculate the **POLLUTION INDEX**.

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Interpreting your results:

Step 1

Calculate the **signal score** for your site:

$$\frac{\boxed{\text{POLLUTION INDEX}}}{\boxed{\text{TAXA RICHNESS}}}$$

SIGNAL SCORE =

Step 2

Use the signal score to determine the pollution rating of your sampling site.

Signal score	Pollution rating
Higher than 5	Healthy habitat
More than 4 & up to 5	Mild pollution
Between 3 & 4	Moderate pollution
Less than 3	Severe pollution

Step 3

The pollution indicator graph can suggest possible sources of pollution. Use your **SIGNAL SCORE** and **TAXA RICHNESS** to plot a point on the graph. In which quadrant does your plot fall?

