Waterwatch Adelaide — AQUATIC MACROINVERTEBRATE RECORD SHEET

Group: _____   Date: _____   Site Code: _____

Waterway: _____   Weather: _____

	Common Name	Pollution Sensitivity	Tick if present	Sensitivity Number
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	4		
	Whirligig Beetle 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		
	Scud	3		
	Small Water Strider	3		
	Round Worm	3		
	Water Measurer	3		
	Water Scorpion	3		
	Flatworm	2		
	Fishing Spider	2		
	Isopod	2		
	Hydra	2		
	Predacious Diving Beetle Adult	2		
	Predacious Diving Beetle Larvae	2		
	Segmented Worm	2		
	Soldier Fly Larvae	2		
	Water Boatman	2		
	Water Scavenger Beetle Adult	2		
	Water Scavenger Beetle Larvae	2		
	Backswimmer	1		
	Gilled Snail	1		
	Leech	1		
	Mosquito Larvae/Pupae	1		
	Pouch Snail	1		
	Springtail	1		
Not Rated	Seed Shrimp	NR		
	Copepod	NR		
	Waterflea	NR		
Totals				

Add up the number of ticks (ie count the number of macroinvertebrate types found). This is the TAXA RICHNESS.

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

Interpreting your results:

Step 1

Calculate the Signal Score for your site:

$$\text{Signal Score} = \frac{\text{POLLUTION INDEX}}{\text{TAXA RICHNESS}}$$
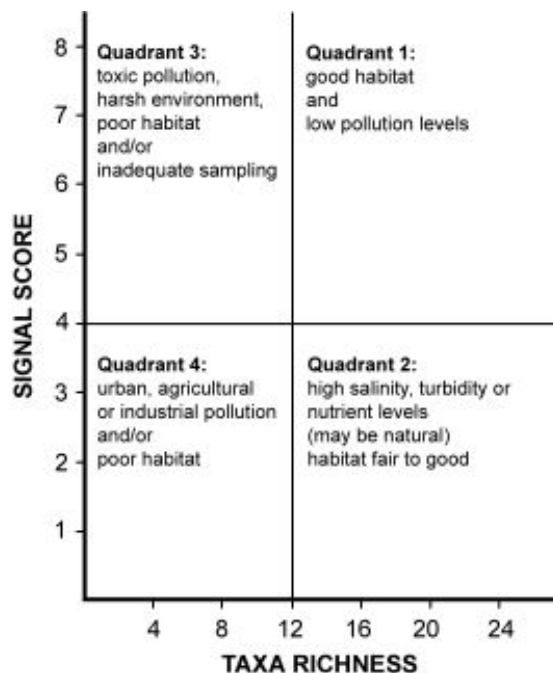
SIGNAL SCORE = ☐

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 and up to 5	Mild Pollution
Between 3 and 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 on a point on the graph. In which quadrant does your plot fall?