

NRM Education

Inspiring, empowering and connecting people with nature, parks and places.

Waterwatch monitoring data sheet

Complete a separate data sheet for each site tested. Upload your results at www.samdbnm.sa.gov.au/portals/9/CDMT/browse.asp within two weeks of sampling. If you do not have a login or password please contact your NRM Education Officer.

School: _____ Date: _____

Class conducting survey: _____ Start time: _____

Site name: _____ Site code: _____

Site conditions:

Weather conditions at time of sampling (tick relevant boxes)

sunny cloudy overcast raining windy

Rainfall: during last 24 hrs last week more than a week ago

Site photo taken: yes / no (email or upload the photo on the database with the date and location)

Water conditions:

Water flow observation

dry slow flowing

isolated pool fast flowing

Water appearance

clear

stained brown

muddy

stained green

oily

Water odour (describe): _____

Photo of water gauge board taken (if present): yes / no

Water quality tests:

Test	Measuring	Results
Water temperature	Temperature	°C
Air temperature	Temperature	°C
Salinity	EC (electrical conductivity) Calibrated before use: yes / no Cal. solution value 2.76 mS/cm or other value:	mS/cm OR uS/cm (indicate which unit)
pH	Acidity / alkalinity	
Turbidity	Suspended solids	(if water level is between two numbers on the tube, select the number BELOW the waterline)
Depth	Water depth on gauge board	cm

Have there been any changes to the site since the last visit? yes / no (If yes, indicate changes in notes below)

Notes: _____



Government of
South Australia



Natural Resources
SA Murray-Darling Basin



	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	7		
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		2		
Segmented Worm		2		
Soldier Fly Larvae		2		
Water Boatman		2		
Water Scavenger Beetle		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 the sensitivity numbers to calculate the POLLUTION INDEX.

Macroinvertebrate monitoring record sheet

Interpreting your results

Step 1

Calculate the SIGNAL SCORE for your site:

$$\frac{\text{POLLUTION INDEX}}{\text{TAXA RICHNESS}} = \text{(SIGNAL SCORE)}$$

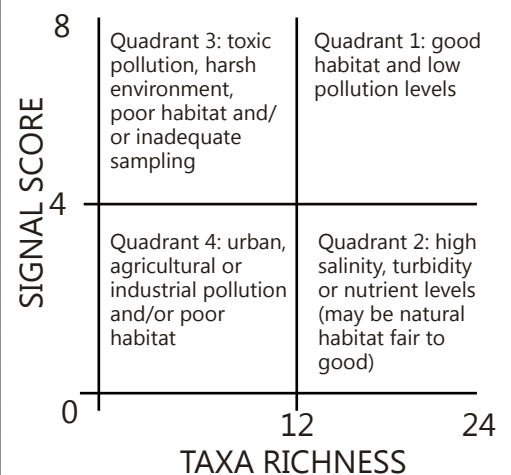
Step 2

Use the SIGNAL SCORE to determine the POLLUTION RATING at 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 source of pollution. Use your SIGNAL SCORE and TAXA RICHNESS to plot a point on the graph. In which quadrant does your plot fall?



This program is funded by the SA Murray-Darling Basin NRM Board and the NRM levies, enabling landholders and community to play an active role in our region's future.



Government of South Australia



Natural Resources
SA Murray-Darling Basin

