

Physical & Chemical Tests

School Record Sheet



Office Use Only Data entered/checked: / / Waterwatch Officer:

Name of school:

Site name/location: Site Code:
(if available)

Date of Test: / /

Time of Test: am / pm

Climate information (tick the appropriate)

Weather	Fine / sunny	Overcast	Showers	Windy	Rain (steady)	Rain (heavy)
Current Weather						

Record the results for each of the tests you conducted in the table below.

What did you test?	Y/N	What it measures	Results	Comments
Dissolved Oxygen		Oxygen concentration	mg/L	
			% sat	
Reactive Phosphorus		Nutrient levels	mg/L	
Turbidity		Suspended solids	N.T.U	
Electrical Conductivity		Salinity	E.C.	
pH		Acids / Alkalines	units	
Temperature		Temperature of the water	°C	

Brief description of site (tick the appropriate)

Test	YES	NO
Does the water smell?		
Does there appear to be litter?		
Can you hear frogs or waterbirds?		
Is there evidence of environmental disturbance?		

	Common Name	Scientific order, class or phylum	Abundance (Numbers)	Pollution Sensitivity (SIGNAL 2)
Very Sensitive	Scorpion fly	Mecoptera		10
	Stonefly	Plecoptera		10
	Mayfly	Ephemeroptera		9
	Caddisfly	Trichoptera		8
	Toe biter	Megaloptera		8
Sensitive	Water Mite	Acarina		6
	Dobsonfly Larvae	Megaloptera		7
	Crane Fly Larvae	Diptera		5
	Sponge Fly Larvae	Neuroptera		6
	Horsehair worm	Nematomorpha		6
	Riffle Beetle	Coleoptera		7
Tolerant	Biting Midge Larvae	Diptera		3
	Non Biting Midge Larvae	Diptera		3
	Damselfly Nymph	Odonata		3
	Round Worm	Nematoda (phylum)		3
	Dragonfly	Odonata		3
	Freshwater Mussel	Bivalvia (class)		3
	Black Fly Larvae	Diptera		3
	Freshwater Shrimp	Decapoda		4
	Side Swimmer	Amphipoda		3
	Sponge	Porifera		4
	True Fly	Diptera		3
	Whirligig Beetle	Coleoptera		4
	Water Measurer	Hemiptera		3
	Yabby	Decapoda		4
Very Tolerant	Backswimmer	Hemiptera		2
	Brine shrimp	Anostraca		1
	Caterpillar	Lepidoptera		2
	Freshwater Snail	Gastropoda		1
	Flatworm	Turbellaria (class)		2
	Freshwater Slater	Isopoda		2
	Hydra	Hydrozoa		1
	Leech	Hirudiea (class)		1
	Predacious Diving Beetle	Coleoptera		2
	Scavenger Beetle	Coleoptera		2
	Segmented worm	Oligochaeta (class)		2
	Soldier Fly Larvae	Diptera		2
	Springtail	Collembola		1
	Water Scorpion	Hemiptera		2
	Water Strider	Hemiptera		2

Stream Habitat School Survey



Office Use Only Data entered/checked: / / Waterwatch Officer:

Name of monitoring group / person:

Site name/location: Site Code:
(if available)

Date of Test: / /

Time of Test: am / pm

GPS Coordinates (if available):

Easting:

Northing:

Weed identification (OPTIONAL):

Common Name: _____

Botanical Name: _____

(circle) Free floating Floating attached Submerged Emergent

Plant Features:

1. _____

2. _____

Surrounding land uses: (Please tick appropriate boxes)

- | | | | |
|--------------------------------------|--|---|--|
| <input type="checkbox"/> Forestry | <input type="checkbox"/> Dairy Farming | <input type="checkbox"/> Field Cropping | <input type="checkbox"/> Paved Surfaces |
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Culvert | <input type="checkbox"/> Horticulture | <input type="checkbox"/> Native Forest/grassland |
| <input type="checkbox"/> Aquaculture | <input type="checkbox"/> Commercial | <input type="checkbox"/> Intensive animal production (e.g. piggery) | |

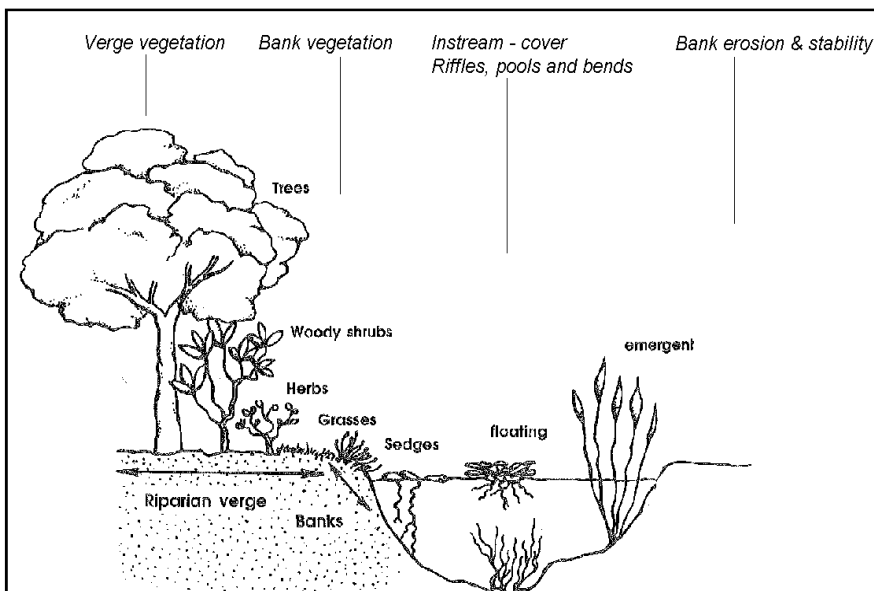
Sketch: Show site location on water body, access points, any land marks, monitoring points and access paths.

Habitat Survey Field Guide

Circle the description that most represents your site for each of the 5 questions.

	Bank Vegetation	Verge Vegetation	In-stream cover	Bank erosion & stability	Riffles, pools & bends (flowing)
Excellent	(10) Mainly undisturbed native vegetation. No signs of site alteration.	(10) Mainly undisturbed native vegetation on both sides of stream. Verge more than 30 m wide.	(10) Abundant cover. Frequent snags, logs or cobbles with extensive areas of in-stream, aquatic vegetation and trailing bank vegetation.	(5) Stable; no erosion / sedimentation evident. No undercutting of banks, usually gentle bank slopes, lower banks	(5) Wide variety of habitats, riffles and pools present of varying depths. Bends present.
Good	(8) Mainly native vegetation. Little disturbance or no signs of recent site disturbance.	(8) Well-vegetated wide verge corridor. Mainly undisturbed native vegetation on both sides of stream; some introduced or reduced cover of native vegetation	(8) A good cover of snags, logs or cobbles, with considerable areas of in-stream and trailing bank vegetation.	(4) Only spot erosion occurring. Little undercutting of bank, good vegetation cover, usually gentle bank slopes, no significant damage to bank structure.	(4) Good variety of habitats e.g.. riffles and pools or bends and pools. Variation in depth of riffle and pool.
Fair	(6) Medium cover, mixed native / introduced. Or one side cleared, the other undisturbed.	(6) Wide corridor of mixed native and exotics, or one side cleared, and other wide corridor of native vegetation.	(6) Some snags or boulders present and / or occasional areas of in-stream or trailing bank vegetation.	(3) Localised erosion evident. A relatively good vegetation cover. No continuous damage to bank structure or vegetation.	(3) Some variety of habitat e.g. occasional riffle or bend. Some variation in depth.
Poor	(4) Introduced ground cover, little native understorey or over storey, predominantly introduced vegetation.	(4) Very narrow corridor of native or introduced vegetation.	(4) Only slight cover. The stream is largely cleared, with occasional snags and very little in-stream vegetation. Generally no trailing bank vegetation.	(2) Significant active erosion evident especially during high flows. Unstable, extensive areas of bare banks, little vegetation cover.	(2) Only slight variety of habitat. All riffle or pool with only slight variation in depth.
Very Poor	(2) Introduced ground cover with lots of bare ground, occasional tree. Also includes sites with concrete lined channels.	(2) Bare cover or introduced grass cover such as pasture land.	(2) No cover. No snags, boulders submerged or trailing bank vegetation. No undercut banks. Site may have rock or concrete lining.	(1) Extensive or almost continuous erosion. Over 50% of banks have some form of erosion: very unstable with little vegetation cover.	(1) Uniform habitat. Straight stream, all shallow riffle or pool or uniform depth e.g. channelled stream or irrigation channel.

Calculate the score from each circled response then compare with habitat rating table below.



Rating	Scores
Excellent	36-40
Good	29-35
Fair	20-28
Poor	12-19
Very Poor	8-11

Total Score:

Stream Habitat Rating: