

Riverine Habitat Audit Procedure - SHEET 9 Vegetation

Recorder

Date (dd/mm/yy) / /

*** Latest - Use this one

Basin Sub-section Site

Tributary Name

The Riparian Zone is the corridor of vegetation along the edge of a stream or river which is intimately linked with the stream both in providing leaf and branch litter to the stream and being affected by the extra moisture available. It is the distinct vegetation zone along the stream. Estimate its width. The strip chosen should be relatively homogeneous. Disturbed zones may be very narrow. Make pristine zones at least 50m wide.

Riparian Zone - LEFT BANK
 from water mark, up bank to edge of river affected veg
 1 Width of Riparian Zone (m)
 Width of Riparian Remnant (m)
 Note: make 50m if reasonable and trees, shrubs or sedges extend to this distance
 % Bare - no vegetation

Riparian Zone Condition

Highly disturbed, distinct boundary on vegetation edge width less than bank width	1	<input type="text"/>
Disturbed and non-grass species extend only to the bank top	2	<input type="text"/>
Disturbed and non-grass species extend partially into the original zone (floodplain)	3	<input type="text"/>
Thinned, semi-natural in cover and width	4	<input type="text"/>
Virtually natural cover & width in cover and width - Set width to a 50m minimum	5	<input type="text"/>

Riparian Zone - RIGHT BANK
 from water mark, up bank to edge of river affected veg
 5 Width of Riparian Zone (m)
 Width of Riparian Remnant (m)
 Note: make 50m if reasonable and trees, shrubs or sedges extend to this distance
 % Bare - no vegetation

Vegetation Cover of the Riparian Zone - overlaps allowed record presence for rare types & % cover for abundant sp.

The method of assessment is the percentage cover of the designated surface area for each Riparian zone (= area shaded as a solid disk at midday) Refer to cover examples as a guide.
 Trees = woody, > 2m, 1 stem
 Shrub = woody, < 2m / 1 stem or, > 1 stem
 Herb = not woody, > 1 stem, short
 Sedges & Rush = herbaceous, tufted perennial

Vegetation Cover of the Riparian Zone - overlaps allowed record presence for rare types & % cover for abundant sp.

2 Type % Cover % Exotic spp.

Trees > 30 m	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Trees 10 - 30 m	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Trees < 10 m	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Woody Shrubs (> 2m)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Woody Shrubs (< 2m)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Vines	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Rushes & Sedges	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Herbs/Forbs (NOT WOODY)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Grasses	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tree Ferns	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Ferns / Bracken	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Mosses	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Mangroves	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Salt Marsh	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Palms	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Freshwater Wetland	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Coastal Heath	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

9 All Aquatic Vegetation
 - submerged bed, within the wetted perimeter of the stream

Visible depth (m)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Too turbid - pres only	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
% Bare - no vegetation	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tot. % Weed & exotic sp.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

6 Type % Cover % Exotic spp.

Trees > 30 m	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Trees 10 - 30 m	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Trees < 10 m	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Woody Shrubs (> 2m)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Woody Shrubs (< 2m)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Vines	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Rushes & Sedges	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Herbs/Forbs (NOT WOODY)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Grasses	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tree Ferns	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Ferns / Bracken	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Mosses	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Mangroves	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Salt Marsh	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Palms	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Freshwater Wetland	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Coastal Heath	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

10 Submerged / Floating leaf

Total Cover	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total % exotics	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Filamentous algae	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Freshwater Algae (scums)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Water lilies	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Chara / Nitella	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Vallisneria/strap like forms	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Herb like forms	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Myriophyllum	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Elodea / Hydrilla	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Triglochin spp.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

7 Total % Weeds and exotic spp. in zone

Local Species Checklist - Recorded - Yes <input type="checkbox"/> No <input type="checkbox"/>					
1 = rare 2 = abundant					
Rainforest	<input type="checkbox"/>	Exotic Pines	<input type="checkbox"/>	Lantana	<input type="checkbox"/>
Vine Forest	<input type="checkbox"/>	Pepper Tree	<input type="checkbox"/>	Egeria denisa	<input type="checkbox"/>
Eucalyptus	<input type="checkbox"/>	Chinese elm	<input type="checkbox"/>	Pistia	<input type="checkbox"/>
Casuarina	<input type="checkbox"/>	Umbrella Tree	<input type="checkbox"/>	Lomandra	<input type="checkbox"/>
Melaleuca (paper bark)	<input type="checkbox"/>	Rubber Tree	<input type="checkbox"/>	Thistles	<input type="checkbox"/>
Callistemon (bottlebrush)	<input type="checkbox"/>	Sand Paper Fig	<input type="checkbox"/>	Singa Daisy	<input type="checkbox"/>
Acacia (wattle)	<input type="checkbox"/>	White cedar	<input type="checkbox"/>	Blackberry	<input type="checkbox"/>
Willow	<input type="checkbox"/>	Red kamala	<input type="checkbox"/>	Mulberry	<input type="checkbox"/>
Foambark	<input type="checkbox"/>	Blackbean	<input type="checkbox"/>	Privet	<input type="checkbox"/>
Waterhousea	<input type="checkbox"/>	Jap Sunflower	<input type="checkbox"/>	Groundsel	<input type="checkbox"/>
Callitris (native pine)	<input type="checkbox"/>	Castor oil bush	<input type="checkbox"/>	Rag Weed	<input type="checkbox"/>
Camphor laurel	<input type="checkbox"/>	Tipuana	<input type="checkbox"/>	Parthenium	<input type="checkbox"/>

11 Floating Vegetation

Total Floating	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total % Exotic Floating	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Azolla / Duck Weed	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Water hyacinth	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Salvinia/ Water Lettuce	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Potamogeton	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

12 Emergent Veg.

Total emergents	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total % exotic emergents	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Phragmites	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Typha (bull rush)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Para Grass/exotic grass	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Rushes & Sedges	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Encroaching willows	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Shrubs & Trees	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Carex types	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Elephant Grass	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Juncus Types	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Alligator weed	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

13 Weed species

1 = rare 2 = common																																	
Crofton weed	<input type="checkbox"/>	Madiera Vine	<input type="checkbox"/>	Wandering Jew	<input type="checkbox"/>	Cat's Claw	<input type="checkbox"/>	Morning Glory	<input type="checkbox"/>	Balloon vine	<input type="checkbox"/>	Asparagus fern	<input type="checkbox"/>	Fishbone Fern	<input type="checkbox"/>	Papyrus	<input type="checkbox"/>	Ochna	<input type="checkbox"/>	Garden Plants	<input type="checkbox"/>	Senigal Tea	<input type="checkbox"/>	Cambomba	<input type="checkbox"/>	Fire weed	<input type="checkbox"/>	Mist flower	<input type="checkbox"/>	Mother of millions	<input type="checkbox"/>	Tongue	<input type="checkbox"/>

