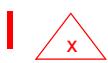


# Appendix 13

## Planting guides

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### Plan modification annotations



indicates where content is affected by proposed plan modification x.  
refer to plan modification folder or website for details.



indicates where the content is part of plan modification x, which is subject to appeal.

Underlined content to be inserted.

~~Struck through~~ content to be deleted.



## Introduction

The table in this appendix identifies suitable indigenous species for planting in the following situations:

- locations where fire resistant plants are required
- effluent disposal fields
- erosion control and bank stabilisation
- coastal margins
- stream margins
- wetlands.

The figures following the table show how different plant species can be grouped in particular situations.

**Note:** Users of this guide are encouraged to refer to the following publications and websites for detailed guidance on planting. The Landcare Research plant species selector is highly recommended.

Lawn grass can be appropriate for planting in effluent disposal fields, depending on the moisture content of the disposal field and the species of the grass planted.

### References

Auckland Regional Council, *Wonderful Wetlands - Wetland Restoration and Planting Guide for the Auckland Region*, Factsheet available at [www.arc.govt.nz](http://www.arc.govt.nz)

Chapple, Don, Rachel Ebbett and Ivan Kitson, *Greening our Gulf Islands - A manual for native revegetation with special reference to Waiheke*, May 2000.

Auckland Regional Council, *Riparian Zone Management - Planting Guide*, [www.arc.govt.nz](http://www.arc.govt.nz)

Auckland Regional Council, TP58 Technical Sheet G-1, *Plants suitable for on-site wastewater disposal systems*

Manaki Whenua Landcare Research, Plant species selector, <http://www.landcareresearch.co.nz/research/biodiversity/greentoolbox>

**Table 1: Planting guide**

<b>Maori name</b>	<b>Common name</b>	<b>Scientific name</b>	<b>Resists fire</b>	<b>Suitable for effluent disposal fields</b>	<b>Suitable for general erosion control and bank stabilisation</b>	<b>Suitable for coastal, saltmarsh saline stream margins and flood areas</b>	<b>Suitable for wetlands / swamps and stream margins</b>
Akiraho		<i>Olearia paniculata</i>			✓ wind and salt spray tolerant		
Hangehange		<i>Geniostoma ligustrifolium</i>	✓	moist drained	✓	above flood line	✓ moist edges / swampy areas
Harekeke	Flax	<i>Phormium tenax</i>		✓ very wet			
Hukihuki	Swamp coprosma	<i>Coprosma tenuicaulis</i>	✓	very wet	✓ clay slope planting		✓ moist edges / flood plains
Kahikatea *	White pine	<i>Dacrycarpus dacrydioides</i>		✓ moist / wet site			
Kaikomako		<i>Penantia corymbosa</i>	✓	moist			✓ moist fertile
Kanono		<i>Coprosma grandifolia</i>	✓				
Kanuka *	Tea tree	<i>Kunzea ericoides</i>			✓ slip face stabilisation		
Kapungawha	Clubbrush	<i>Schoenoplectus tabernaemontani</i>				✓ coastal streams / salty water	✓ standing water and salt water
Karaka		<i>Corynocarpus laevigatus</i>	✓				
Karamu *	Looking glass plant	<i>Coprosma robusta, C. lucida</i>	✓	✓ wet	✓ clay slope planting		✓ moist edges
Karo *		<i>Pittosporum crassifolium</i>	✓			✓ wind and salt spray tolerant	
Kauri *		<i>Agathis australis</i>			✓ clay slope planting		
Kawakawa *		<i>Macropiper excelsum</i>	✓				✓ moist edges

Maori name	Common name	Scientific name	Resists fire	Suitable for effluent disposal fields	Suitable for general erosion control and bank stabilisation	Suitable for coastal, saltmarsh saline stream margins and flood areas	Suitable for wetlands / swamps and stream margins
Kio kio	Swamp kio kio (fern)	<i>Blæchnum novae-zealandiae</i>	✓ moist				✓ swamp
Kohekohe *		<i>Dysoxylum spectabile</i>		✓ clay slope planting			
Koromiko		<i>Hebe stricta</i> var. <i>stricta</i>	✓ moist drained				✓ moist edges
Kotukutuku		<i>Fuchsia excorticata</i>					
Kowhai *		<i>Sophora microphylla</i>		✓ bank stabilisation	✓ lower saline slopes	✓ moist edges	
Kukaraho	Marsh club rush	<i>Bolboschoenus fluviatilis</i>			✓ coastal stream margins / salt	✓ standing water	
Kumerahou *	Golden tainui	<i>Pomaderris kumerahou</i>		✓ slip face stabilisation			
Kuta kuta	Bamboo spike sedge	<i>Eleocharis spathacea</i>					✓ standing water / swamp /edges
Makaka	Swamp ribbonwood	<i>Plagianthus divaricatus</i>					✓ wetland plant
Maokoako	Sea primrose	<i>Samolus repens</i>			✓ salt marsh banks and & cliffs		
Mahoe *	Whitey wood	<i>Melicytus ramiflorus</i>	✓ wet	✓ roots stabilise banks			✓ moist edges
Maire-tawaki *	Swamp maire	<i>Syzygium maire</i>	✓ very wet				✓ wetland and margin
Makaka *	Shore ribbonwood	<i>Plagianthus betulinus</i>					✓ wetland and margins
Makomako *	Wineberry	<i>Aristotelia serrata</i>					✓ stream margins
Manihi	Red pondweed	<i>Potamogeton cheesmanii</i>					✓ standing water to 4m deep

Maori name	Common name	Scientific name	Resists fire	Suitable for effluent disposal fields	Suitable for general erosion control and bank stabilisation	Suitable for coastal, saltmarsh saline stream margins and flood areas	Suitable for wetlands / swamps and stream margins
Manuka *	Red teatree	<i>Leptospermum scoparium</i>	✓	very wet	✓ clay slope planting	✓ lower saline slopes	✓ wetland and moist edges
Mingimingi *		<i>Coprosma propinqua</i>					✓ wetland and margins
Miro *	Brown pine	<i>Prumnopitys ferruginea</i>					
Ngaio *		<i>Myoporum laetum</i>	✓	erosion control			
Nikau *		<i>Rhopalostylis sapida</i>	✓	wet/shade			✓ moist edges / wind sensitive
Oioi	Sea rush	<i>Juncus maritimus</i>				✓ saltmarsh and estuaries	
Papauma		<i>Griselinia littoralis</i>	✓				
Parataniwha		<i>Elatostema rugosum</i>	✓	moist			✓ moist edges
Pate *		<i>Schefflera digitata</i>			✓ bank stabilisation		✓ moist edges
Pohuehue *	Wirevine	<i>Muehlenbeckia complexa</i>			✓ binding plant - dune	✓ lower saline slopes	
Pohutukawa *		<i>Metrosideros excelsa</i>			✓ bank stabilising	✓ lower saline slopes	
Poroporo		<i>Solanum aviculare</i>	✓				
Puka *		<i>Griselinia lucida</i>	✓		✓ clay slope planting		
Pukatea *		<i>Laurelia novae-zelandiae</i>	✓	very wet			✓ swamp/floodplain/edges
Purei	Rush	<i>Carex secta, C. virgata</i>			✓ foliage protects soil surface		✓ standing water / swampy areas
Puriri *		<i>Vitex lucens</i>	✓	moist drained			✓ moist edges well drained

Maori name	Common name	Scientific name	Resists fire	Suitable for effluent disposal fields	Suitable for general erosion control and bank stabilisation	Suitable for coastal, saltmarsh saline stream margins and flood areas	Suitable for wetlands / swamps and stream margins
Putaputaweta	Marbleleaf	<i>carpodetus serratus</i>	✓	very wet			✓ swampy areas / moist margins
Raupo		<i>Typha orientalis</i>					✓ standing water to 1m / swamp
Raurekau		<i>Coprosma australis</i>	✓				
Rautahi		<i>Carex lessoniana, C. geminata</i>	✓	very wet			✓ lowland swamps
Remuremu		<i>Selliera radicans</i>				✓ salt marshes / dune hollows	
Rimu *		<i>Dacrydium cupressinum</i>			✓ clay slope planting		
Tauhinu *	Golden cottonwood	<i>Ozothamnus leptophyllus</i>				✓ coastal (banks, backdunes, cliffs)	
Taupata *		<i>Coprosma repens</i>	✓		✓ exposed coastal sites		
Tikoura *	Cabbage tree	<i>Cordyline australis</i>	✓	very wet		✓ lower saline slopes	✓ moist edges and swamp
Toetoe *		<i>Cyperus ustulatus</i>	✓	wet	✓ foliage protects soil surface		✓ shallow water and edges
Totara *		<i>Podocarpus totara</i>			✓ soil stabilising deep root		
Tupari maunga	Tussock sedge	<i>Gahnia xanthocarpa</i>					✓ swampy areas
Ureure		<i>Sarcocornia quinqueflora</i>				✓ salt marshes and salt meadows	
Waewae	Tangle fern	<i>Gleichenia dicarpa</i>					✓ damp wetlands
Whekiponga	Swamp tree fern	<i>Dicksonia squarrosa</i>	✓	moist			✓ moist margins

Maori name	Common name	Scientific name	Resists fire	Suitable for effluent disposal fields	Suitable for general erosion control and bank stabilisation	Suitable for coastal, saltmarsh saline stream margins and flood areas	Suitable for wetlands / swamps and stream margins
Wiwii	Rushes	<i>Juncus gregiflorus, J. sarophorus</i>					✓ swampy areas
Wiwi		<i>Leptocarpus similis</i>				✓ saline stream edge	
	Five finger	<i>Pseudopanax arboreus</i>	✓				
	Flat leaved sedge	<i>Carrex dissata</i>			✓ foliage protects soil surface		✓ stream banks
	Salt marsh ribbonwood	<i>Plagianthus divaricatus</i>				✓ lowest saline edges	
	Veined coprosma	<i>Coprosma areolata</i>	✓ moist				✓ moist edges
	Wetland sedge	<i>Carex virgata</i>			✓ foliage protects soil surface		✓ standing water / moist edges
	Wetland sedge	<i>Carex dissita</i>					✓ standing water / moist edges
		<i>Hypolepis dicksonioides</i>	✓ moist drained				✓ moist edges

✓ indicates the most suitable plant for circumstances.

\* indicates the plant appears in the publication *Greening our Gulf Islands* - see references.

Figure A13.1: Planting for back wetland or spring

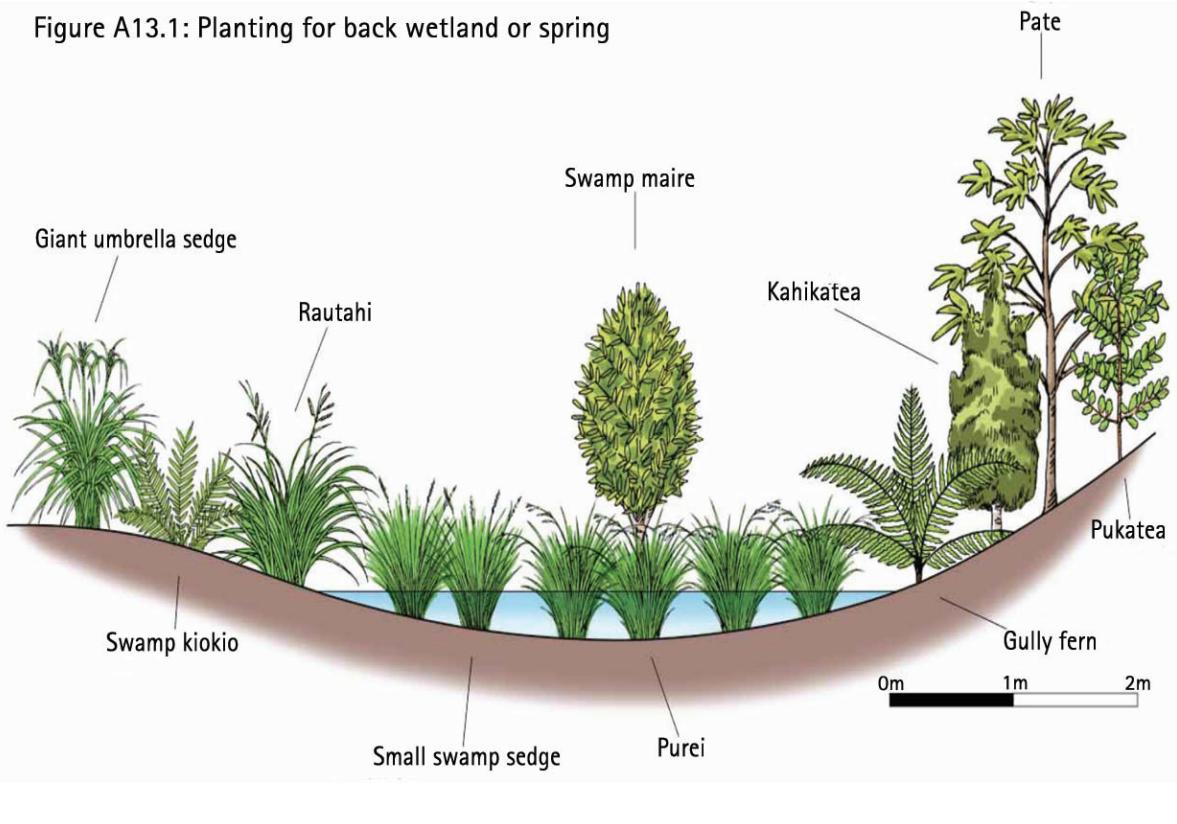


Figure A13.2: Planting for stream edge

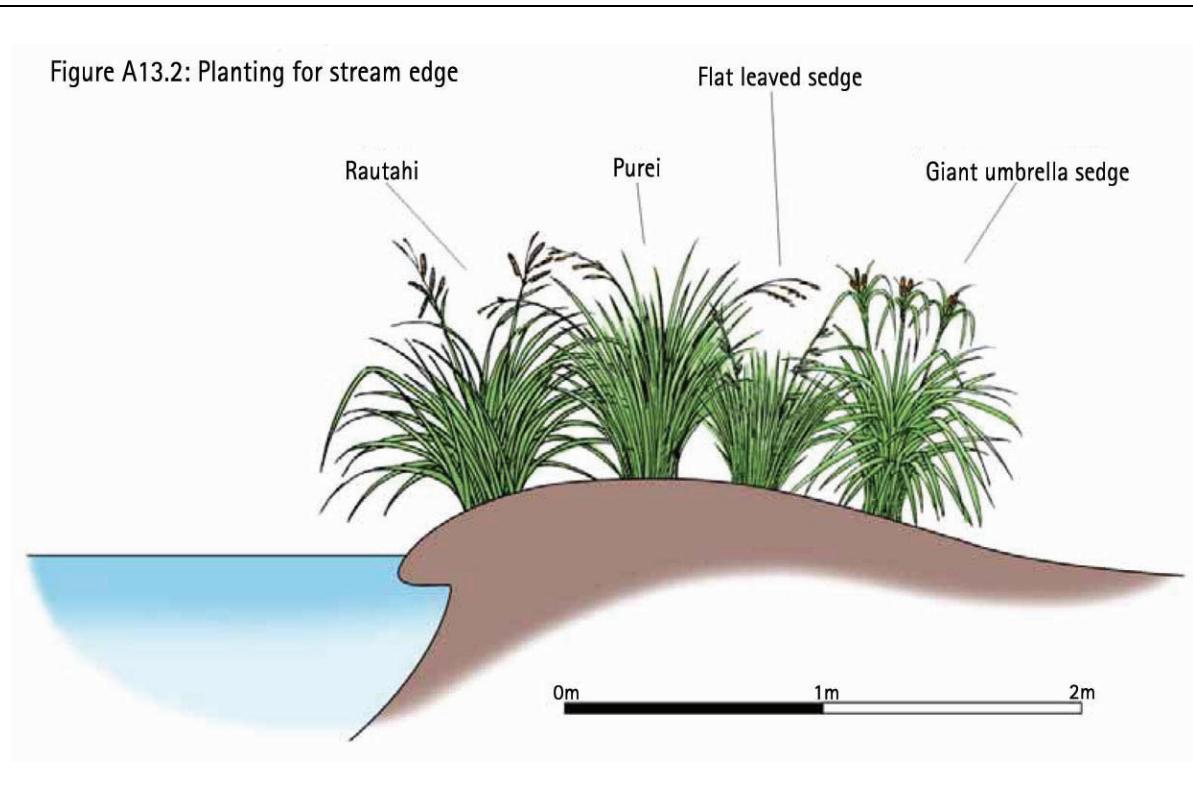


Figure A13.3: Planting for saline stream edge and flood area

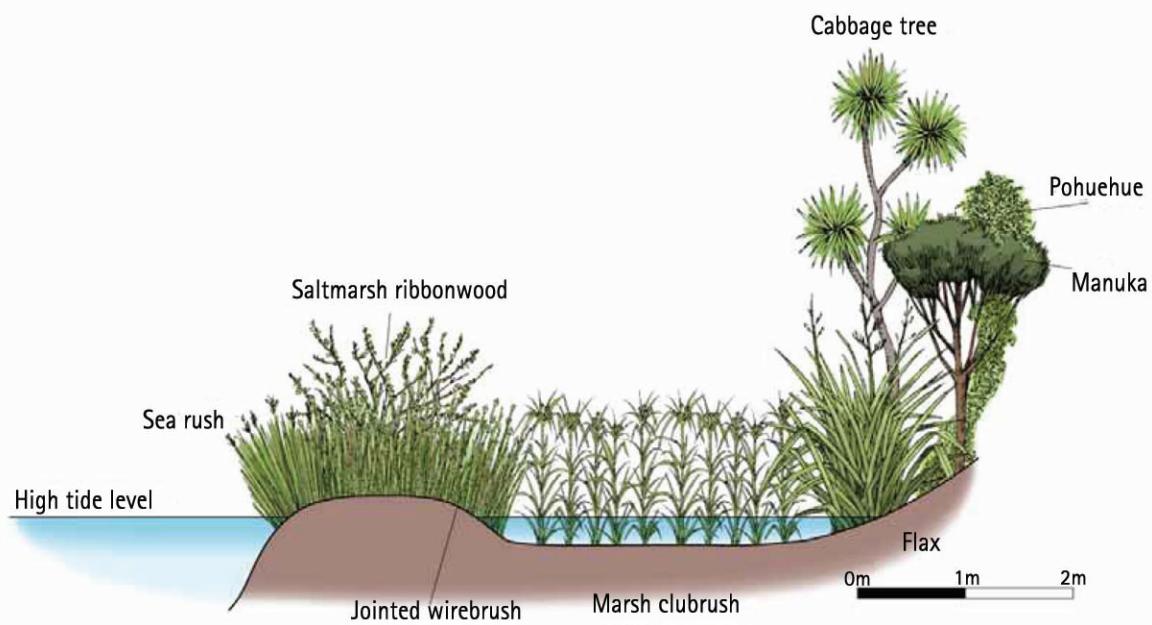
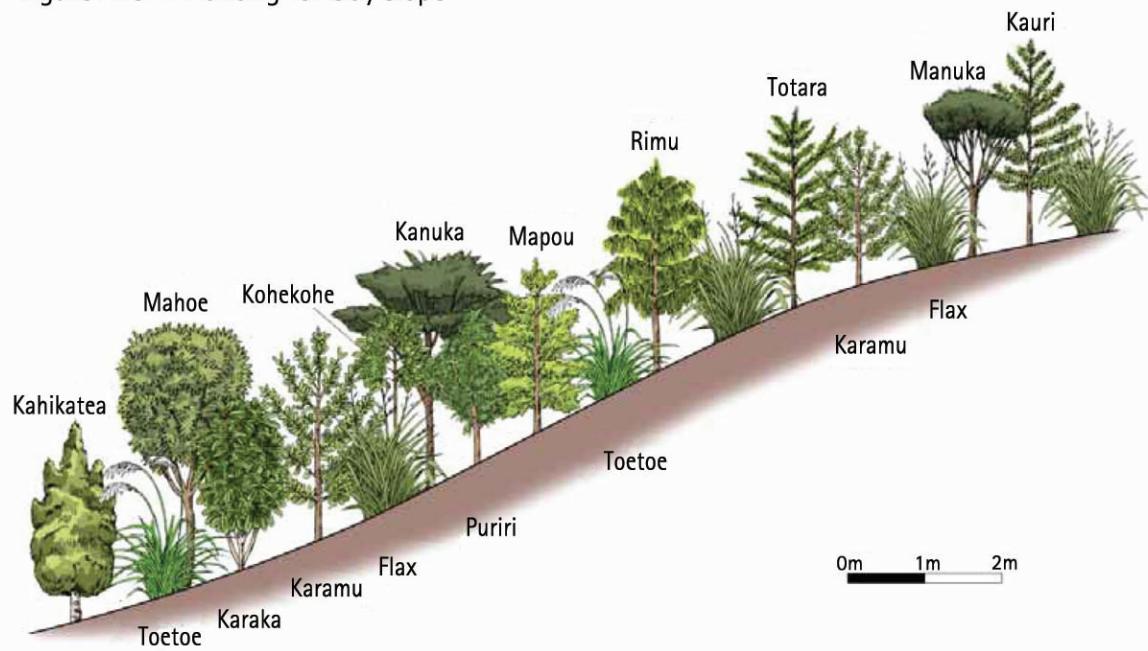


Figure A13.4: Planting for clay slope



Images from Auckland Regional Council, *Riparian Zone Management - Planting Guide*.