

Catchpool Restoration Project – Revised Planting Plan – 2018

Plant sources

The Trust has recognised that eco-sourcing cannot be guaranteed through local nurseries, and has since gained a permit from DOC to collect seed within the park and set up its own nursery. The plants used in enrichment and revegetation planting efforts will be sourced from seed collected within the Remutaka Forest Park and grown in the Trust's nursery. Plants grown will be held at the nursery on site until planting, hardening them to the local conditions.

Planting framework

Originally, a 5 year planting regime was proposed as a guide to planting with approximate yearly number-allocations for each species to be planted. It has been recognised that species-specific, quantity-specific planting plans are difficult to adhere to due to the time required to source plants with a Trust-run nursery. This revision instead proposes a framework for revegetation, with lists of plants suitable for each planting zone and successional stage within the valley that can be used to guide progressive revegetation throughout the valley based on seed-source availability. This framework can be used to guide seed sourcing, operations in the nursery, and to plan plantings. Seed sourcing and plantings should be guided by the proposed area and species suitable to it.

In any area primary species should be planted first, with secondary species planted in following efforts for enrichment when shade and shelter is sufficient. This will take several years to occur (Davis, 2001). Plants tolerant of wet feet should be planted in areas closely bordering water in the riparian and wetland zones, where soils will be the wettest.

Planting list

Following is a revised planting list for the revegetation framework for this restoration plan. The original plan's list consisted of 35 species for planting based on local vegetation and Wellington Regional Council guidelines. The revised list comprises 61 candidate species suitable for planting in the respective microsite classes. The selections are based on recommendations by Jonathan Bussell, refined from a botanical inventory developed by three reconnaissance surveys carried out in the park. These surveys were carried out along the Orongorongo and Five-Mile tracks by the Wellington Botanical Society (2009 and 2016), and B, J. Mitcalfe and J. C. Horne (2009), centred approximately 1.5km east-north-east of the valley carpark. Thus, the species are well-suited to the valley and seed sources are available very locally. Species have been refined from the resulting list of trees, shrubs, lianas, orchids, ferns, sedges and grasses. Species present in the inventory but not included in this list are either not suitable for growth in nurseries, or likely and best-left to self-propagate.

Plant List – Revised Catchpool Restoration Project Plan

Primary Species – Trees and Shrubs

Table 1 List of candidate species for planting efforts in the Catchpool Valley restoration project and where they will be planted.

VS = Valley Slopes; VF = Valley Floor; RI = Riparian Margins; WE = Wetland. Asterisks (*) denote plants tolerant of wet feet.

Species	Common/Māori name	VS	VF	RI	WE
<i>Aristotelia serrata</i>	Makomako/wineberry		✓	✓*	
<i>Coprosma areolata</i>	Thin-leaved coprosma	✓			
<i>Coprosma grandifolia</i>	Kānono	✓	✓	✓	✓
<i>Coprosma lucida</i>	Karamu/shining karamu	✓			
<i>Coprosma microcarpa</i>	Small-seeded coprosma	✓	✓	✓	✓
<i>Coprosma rhamnoides</i>	Coprosma sp.	✓	✓	✓	✓
<i>Coprosma robusta</i>	Karamu	✓	✓	✓	✓
<i>Cordyline australis</i>	Tī kōuka/cabbage tree	✓	✓	✓*	✓*
<i>Cordyline banksii</i>	Tī ngahere/forest cabbage tree	✓	✓		
<i>Gaultheria antipoda</i>	Tāwiniwini/bush snowberry	✓	✓	✓	✓
<i>Griselinia littoralis</i>	Kāpuka/broadleaf	✓	✓	✓	✓
<i>Griselinia lucida</i>	Puka	✓	✓	✓	✓
<i>Kunzea robusta</i>	Kānuka	✓	✓	✓	
<i>Leptospermum scoparium</i> agg.	Mānuka	✓	✓	✓*	✓*
<i>Meliccytus ramiflorus</i>	Māhoe	✓	✓		
<i>Myrsine australis</i>	Māpou	✓			
<i>Ozothamnus leptophyllus</i>	Tauhinu	✓			
<i>Pittosporum eugenioides</i>	Tarata	✓	✓	✓	✓
<i>Pittosporum tenuifolium</i>	Kohuhu/black matipo	✓	✓	✓	✓
<i>Podocarpus totara</i> var. <i>totara</i>	Totara	✓	✓		
<i>Pseudopanax arboreus</i>	Whauwhaupaku/five-finger	✓	✓	✓	✓
<i>Pseudopanax crassifolius</i>	Horoeka/lancewood	✓	✓	✓	✓
<i>Pseudowintera axillaris</i>	Horopito	✓			
<i>Schefflera digitata</i>	Patē/seven-finger		✓	✓	
<i>Sophora</i> sp.	Kōwhai	✓	✓	✓	✓
<i>Veronica stricta</i> var. <i>stricta</i>	Koromiko	✓	✓		

Primary Species – Herbaceous Plants

Species	Common/Māori name	VS	VF	RI	WE
<i>Dianella nigra</i>	Tūrutu/blueberry		✓		
<i>Phormium cookianum</i> subsp. <i>cookianum</i>	Wharariki/mountain flax	✓			

Primary Species – Grasses and Sedges

Species	Common/Māori name	VS	VF	RI	WE
<i>Austroderia fulvida</i>	Toetoe sp.	✓	✓	✓	✓
<i>Austroderia toetoe</i>	Toetoe sp.	✓	✓	✓	✓
<i>Poa anceps</i> agg.	Broad-leaved poa	✓			
<i>Carex dissita</i>	Hooked sedge sp.		✓		
<i>Carex flagellifera</i> (unc)	Hooked sedge sp.	✓		✓*	
<i>Cyperus ustulatus</i>	Upoko tangata/giant umbrella sedge			✓	✓
<i>Ficinia nodosa</i>	Wīwī/knotted sedge				✓

Secondary/Enrichment Species – Trees and Shrubs

Species	Common/ Māori name	VS	VF	RI	WE
<i>Alectryon excelsus</i> subsp. <i>excelsus</i>	Tītoki		✓		
<i>Beilschmiedia tawa</i>	Tawa		✓		
<i>Carpodetus serratus</i>	Putaputawētā/marble leaf		✓	✓	
<i>Dacrycarpus dacrydioides</i>	Kahikatea		✓	✓*	✓*
<i>Dacrydium cupressinum</i>	Rimu	✓	✓		
<i>Elaeocarpus dentatus</i> var. <i>dentatus</i>	Hīnau		✓		
<i>Elaeocarpus hookerianus</i>	Pokaka		✓		
<i>Fuchsia excorticata</i>	Kōtukutuku/tree fuchsia		✓	✓	
<i>Fuscospora solandri</i>	Tawhai rauriki/black beech	✓			
<i>Fuscospora truncata</i>	Tawhai raunui/hard beech	✓			
<i>Hedycarya arborea</i>	Porokaiwhiri/pigeonwood	✓	✓		
<i>Hoheria</i> sp.	Houhere/lacebark	✓			
<i>Knightia excelsa</i>	Rewarewa	✓	✓		
<i>Laurelia novae-zelandiae</i>	Pukatea		✓	✓*	✓*
<i>Lophomyrtus bullata</i>	Ramarama	✓			
<i>Metrosideros robusta</i>	Northern rātā	✓	✓		
<i>Nestegis cunninghamii</i>	Black maire		✓	✓	
<i>Nestegis lanceolata</i>	White maire		✓	✓	
<i>Pennantia corymbosa</i>	Kaikōmako		✓	✓	
<i>Podocarpus totara</i> var. <i>totara</i>	Totara	✓	✓		
<i>Prumnopitys ferruginea</i>	Miro	✓	✓		
<i>Prumnopitys taxifolia</i>	Matai	✓	✓		
<i>Rhopalostylis sapida</i>	Nīkau		✓		
<i>Streblus heterophyllus</i>	Tūrepo/small-leaved milk tree		✓		
<i>Syzygium maire</i>	Tawake maire/swamp maire		✓	✓*	✓*
<i>Weinmannia racemosa</i>	Kāmahi	✓			

(See following page for Map of applicable planting zones)

Map of Revised Planting Zones

VS = Valley Slopes; VF = Valley Floor; RI = Riparian Margins; WE = Wetland.

