



SOUTHERN ENVIRONMENTAL ASSOCIATION (WELLINGTON) INCORPORATED

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TO: Department of Conservation, Wellington (attention: John Sawyer)

PRELIMINARY LIST OF ANIMAL SPECIES IDENTIFIED IN THE VALLEYS LOCATED ABOVE THE HIGH WATERFALL ON THE STREAM LEADING TO WHARE-RAUREKAU* ON WELLINGTON SOUTH COAST (Map Grid Reference @ R27, R28 & Pt. Q27 554833)

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1. NOTES ABOUT THE SITE:

- a. The site consists of two valleys which are located above the high waterfall on the unnamed stream which leads to *Whare-Raurekau* on Wellington's South Coast. Each of the valleys above the waterfall contains a separate tributary of the main stream.
- b. G.L. Adkin described Whare-Raurekau as an ancient Maori site located on the coast between Owhiro Bay and Pariwhero (Red Rocks), at the base of a stream. (Source: pages 103 and 123 of <u>The Great Harbour of Tara</u> by G. Leslie Adkin (Whitcombe and Tombs, 1959).)
- c. Today several private baches are located at Whare-Raurekau. These are the only baches between Owhiro Bay and Pariwhero (Red Rocks).
- d. Both of the site visits which resulted in this report were made by walking through the catchment of Hape Stream (also known as Spooky Creek) and walking down the back of one of the valleys. The valleys join at their base just above the high waterfall.
- e. The site is presently owned by Milburn New Zealand Limited (MNZL), although fortunately the site has not been quarried. Wellington City Council is presently considering the possible purchase of all of MNZL's land in the area, as part of a proposed agreement for the termination of quarrying on the South Coast. Council acquisition of the MNZL land would be a very positive move, in that it would enable permanent protection to be given to the important indigenous ecosystems of this particular site.

2. THE SOURCES OF INFORMATION FOR THIS REPORT:

The ecological information contained in this report is derived from two site visits:

- a. <u>May 1996 site visit</u>: Site visit by Robert Logan (Chairperson, Southern Environmental Association) on 12 May 1996 followed by expert assistance in species identification from Dr Margaret Wassilieff (ecological consultant and Secretary, Southern Environmental Association); and
- b. <u>January 1998 site visit</u>: Site visit by Robert Logan (Chairperson, Southern Environmental Association) and David Lee (Executive member, Southern Environmental Association) on 2 January 1998.

It would be useful for professional ecologists/botanists now to visit/study the site.

3. INDIGENOUS MONOCOTYLEDON TREES AND SHRUBS:

DATE FIRST IDENTIFIED	SCIENTIFIC NAME	OTHER NAME(S)
12/05/96 R. Logan	Cordyline australis	Ti kouka, Cabbage tree

4. INDIGENOUS DICOTYLEDON TREES AND SHRUBS

DATE FIRST IDENTIFIED	SCIENTIFIC NAME	OTHER NAME(S)
12/05/96 R. Logan	Brachyglottis repanda	Rangiora
12/05/96 R. Logan	Carmichaelia arborea	New Zealand broom
12/05/96 R. Logan	Coprosma crassifolia	
12/05/96 R. Logan	Coprosma propinqua	Mingimingi
12/05/96 R. Logan	Coprosma propinqua X Coprosma robusta	
12/05/96 R. Logan	Coprosma rhamnoides	
12/05/96 R. Logan	Coriaria sarmentosa	Tutu
02/01/98 D. Lee & R. Logan	Geniostoma rupestre var. ligustrifolium	Hangehange
02/01/98 D. Lee & R. Logan	Griselinia littoralis	Papauma
12/05/96 R. Logan	Griselinia lucida	Puka
12/05/96 R. Logan	Hebe "arborea"	Koromiko taranga
12/05/96 R. Logan	Hebe stricta var. atkinsonii X var. macroura (?)	Koromiko
12/05/96 R. Logan	Hedycarya arborea	Porokaiwhiri, Pigeonwood

DATE FIRST IDENTIFIED	SCIENTIFIC NAME	OTHER NAME(S)
12/05/96 R. Logan	Leptospermum scoparium	Manuka, Tea tree
12/05/96 R. Logan	Macropiper excelsum	Kawakawa
12/05/96 R. Logan	Melicytus crassifolius	
12/05/96 R. Logan	Melicytus ramiflorus	Mahoe, Whiteywood
12/05/96 R. Logan	Myrsine australis	Mapou
12/05/96 R. Logan	Olearia paniculata	Akiraho
12/05/96 R. Logan	Olearia solandri	Coastal tree daisy
12/05/96 R. Logan	Ozothamnus leptophyllus	Tauhinu, Cottonwood
12/05/96 R. Logan	Pennantia corymbosa	Kaikomako
12/05/96 R. Logan	Pimelea prostrata	New Zealand daphne
12/05/96 R. Logan	Pseudopanax anomalus	Whaupaku
12/05/96 R. Logan	Pseudopanax arboreus	Whauwhau, Five-finger
12/05/96 R. Logan	Sophora microphylla	Kowhai
12/05/96 R. Logan	Urtica ferox	Ongaonga, Tree nettle

5. INDIGENOUS MONOCOTYLEDON CLIMBING PLANTS:

DATE FIRST IDENTIFIED	SCIENTIFIC NAME	OTHER NAME(S)
12/05/96 R. Logan	Freycinetia banksii	Kiekie

6. INDIGENOUS DICOTYLEDON CLIMBING PLANTS:

DATE FIRST IDENTIFIED	SCIENTIFIC NAME(S)	OTHER NAME(S)
12/05/96 R. Logan	Calystegia tuguriorum	Native bindweed
12/05/96 R. Logan	Clematis forsteri	Puataua
02/01/98 D. Lee & R. Logan	Clematis paniculata?	Puawhananga
12/05/96 R. Logan	Fuchsia perscandens	Scrambling fuchsia
12/05/96 R. Logan	Metrosideros fulgens	Aka, Rata vine
12/05/96 R. Logan	Metrosideros perforata	Aka, White rata vine
12/05/96 R. Logan	Muehlenbeckia australis	Pohuehue
12/05/96 R. Logan	Muehlenbeckia complexa	Pohuehue
12/05/96 R. Logan	Parsonsia heterophylla	Aka kiore, Maori jasmine
12/05/96 R. Logan	Rubus cissoides	Tataramoa, Bush lawyer
12/05/96 R. Logan	Scandia geniculata	Climbing aniseed
12/05/96 R. Logan	Tetragonia trigyna	Native spinach

7. INDIGENOUS FERNS:

DATE FIRST IDENTIFIED	SCIENTIFIC NAME	OTHER NAME(S)
12/05/96 R. Logan	Adiantum cunninghamii	Puhiniu, Maidenhair fern
12/05/96 R. Logan	Asplenium bulbiferum	Manamana, Mouku, Hen and chickens fern
12/05/96 R. Logan	Asplenium flabellifolium	Necklace fern
02/01/98 D. Lee & R. Logan	Asplenium flaccidum	Makawe, Hanging spleenwort
12/05/96 R. Logan	Asplenium hookerianum (previously A. colensoi)	Hooker's spleenwort
12/05/96 R. Logan	Asplenium oblongifolium	Huruhuru whenua, Shining spleenwort
12/05/96 R. Logan	Asplenium terrestre subsp. maritimum	
12/05/96 R. Logan	Blechnum sp.	Kiokio, Palm-leaf fern
12/05/96 R. Logan	Blechnum chambersii	Rereti, Nini
12/05/96 R. Logan	Blechnum filiforme	Panako, Thread fern
02/01/98 D. Lee & R. Logan	Cyathea medullaris	Mamaku
12/05/96 R. Logan	Lastreopsis glabella	
12/05/96 R. Logan	Paesia scaberula	Matata, Hard fern, Scented fern, Ring fern
12/05/96 R. Logan	Pellaea calidiripium?	
02/01/98 D. Lee & R. Logan	Pellaea rotundifolia	Tarawera, Button fern

DATE FIRST IDENTIFIED	SCIENTIFIC NAME	OTHER NAME(S)
12/05/96 R. Logan	Phymatosorus pustulatus (previously P. diversifolius)	Maratata, Kowaowao, Hound's tongue fern
12/05/96 R. Logan	Pneumatopteris pennigera	Pakauroharoha, Gully fern
12/05/96 R. Logan	Polystichum richardii	Tutoke, Pikopiko, Coastal shield fern
12/05/96 R. Logan	Pteridium esculentum	Rarahu, Bracken
02/01/98 D. Lee \$ R. Logan	Pteris macilenta?	Titipo, Sweet brake
12/05/96 R. Logan	Pteris tremula	Turawera, Shaking brake
02/01/98 D. Lee & R. Logan	Pyrrosia eleagnifolia	Ngarara wehi, Leather-leaf fern

8. INDIGENOUS MONOCOTYLEDON HERBS:

DATE FIRST IDENTIFIED	SCIENTIFIC NAME	OTHER NAME(S)
12/05/96 R. Logan	Astelia fragrans	Kahaha
12/05/96 R. Logan	Libertia ixioides	Mikoikoi, Tukauki, New Zealand iris
12/05/96 R. Logan	Phormium cookianum	Wharariki
02/01/98 D. Lee & R. Logan	An orchid species (Pterostylis?)	

9. INDIGENOUS DICOTYLEDON HERBS:

DATE FIRST IDENTIFIED	SCIENTIFIC NAME	OTHER NAME(S)
12/05/96 R. Logan	Acaena anserinifolia	Piripiri, Bidibidi
12/05/96 R. Logan	Aciphylla squarrosa	Speargrass, Wild spaniard
12/05/96 R. Logan	Brachyglottis lagopus	Coastal rock daisy
12/05/96 R. Logan	Craspedia uniflora	Woolley-head
12/05/96 R. Logan	Disphyma australe	Horokaka, Native ice plant
12/05/96 R. Logan	Haloragis erecta	
12/05/96 R. Logan	Hydrocotyle moschata	
12/05/96 R. Logan	Lagenifera pumila	Papataniwhaniwha
12/05/96 R. Logan	Leptinella squalida	
12/05/96 R. Logan	Linum monogynum	Rauhuia, New Zealand linen flax
12/05/96 R. Logan	Lobelia anceps	
12/05/96 R. Logan	Oxalis sp.	
02/01/98 D. Lee & R. Logan	Plantago sp.	
12/05/96 R. Logan	Stellaria media	
12/05/96 R. Logan	Wahlenbergia sp.	Harebell

10. INDIGENOUS GRASSES, SEDGES AND RUSHES:

DATE FIRST IDENTIFIED	SCIENTIFIC NAME	OTHER NAME(S)
12/05/96 R. Logan	Carex geminata	
12/05/96 R. Logan	Cortaderia toetoe	Toetoe
12/05/96 R. Logan	Luzula banksiana	
12/05/96 R. Logan	Poa anceps	
12/05/96 R. Logan	Poa cita	Silver tussock

11. SUMMARY OF NOTABLE FEATURES OF VEGETATION

Some of the more notable features of the site's vegetation include the following:

- a. In damper areas:
 - i. Mature stands of species such as pigeonwood (*Hedycarya arborea*), puka (*Griselinia lucida*), and papauma (*Griselinia littoralis*); and
 - ii. Relatively large (apparently quite old) patches of kiekie (*Freycinetia banksii*).
- b. On a drier hill side within the "true right" valley: A mature stand of akiraho (Olearia paniculata), tree hebe (Hebe "arborea"), mapou (Myrsine australis), and mahoe (Melicytus ramiflorus). This stand appears to be several decades old. (It may have been present as long ago as 1946 if the Lands and Survey Department map dating from that year is any accurate indication.)
- c. Obvious gradual colonisation of *Coprosma propinqua*-dominated scrubland by species such as *Hebe "arborea"* and *Pennantia corymbosa*.
- d. Seedlings, but apparently no adult trees, of *Pseudopanax arboreus* a fact which suggests that this species may be spreading into the valleys as a result of bird droppings.
- e. Healthy areas of Scandia geniculata and Fuchsia perscandens, often intertwined.
- f. A large and healthy patch of Craspedia uniflora directly above the high waterfall. This was in full bloom at the tim
- g. Large numbers of Aciphylla squarrosa in the unflow vac. 2ys.
- h. An absence of Myoporum laetum (ngaio).
- i. Relatively few non-indigenous plants, with which tends to be restricted to the upper levels of the valleys. Within the regenerating forest, there is a total dominance of indigenous species. One barberry bush and one karo seedling were noticed high up the "true right" valley on 02/01/98.

12. PRELIMINARY LIST OF ANIMAL SPECIES

DATE FIRST IDENTIFIED	ANIMAL	NOTES
INSECTS		
02/01/98 D. Lee & R. Logan	Bassaris gonerilla (Red Admiral butterfly)	The presence of this species is probably related to the Urtica ferox growing in the valleys.
02/01/98 D. Lee & R. Logan	Dragonfly	Some very large dragonflies were seen on 02/01/98.
02/01/98 D. Lee & R. Logan	Lycaena sp. (indigenous copper butterfly)	A large number of copper butterflies were seen on 02/01/98. This is probably due in part to the large amount of the butterflies' host plant, Muehlenbeckia complexa, growing at the site.
FRESH WATER ANIMALS		
02/01/98 D. Lee & R. Logan	Koura (fresh water crayfish)	
BIRDS		
02/01/98 D. Lee & R. Logan	Black fantail	One black fantail was seen.

DATE FIRST IDENTIFIED	NAME	NOTES
INTRODUCED ANIMAL PESTS		
02/01/98 D. Lee & R. Logan	Pig	Although no pigs were actually seen, there were unmistakable signs of recent pig activity where roots had been dug up. These signs were not evident in May 1996. It is noted that (as at 1996) pigs were being farmed on a private property adjacent to the northern boundary of Long Gully Station.
02/01/98 D. Lee & R. Logan	Possum	There was clear evidence that possums were present, although none were actually seen. (The site was visited during the day time.)