

PAEROA WATER RESERVE TRIP REPORT

Graeme Jane

The Paeroa Water Reserve encompasses much of the catchment of the Tarariki Stream. In the past it must have seen grand stands of kauri but now consists of tall kanuka, breaking up to allow the broadleaved forest and kauri to push through to the canopy. Parts of the area must have been farmed as a row of radiata pine (*Pinus radiata*) and an elaeagnus (*Elaeagnus ×reflexa*) hedge occur near the middle of the area in the vicinity of a large (duck) pond. The area is well tracked for possum and stoat trapping with one track (possibly an old miners' track) leading through to the Waitekauri and Komata Reefs areas. The part of the area we visited was a gully remnant through which an old tramway passed to a waterfall, as evidenced by iron rails and coal at its terminus.

Heavy rain overnight placed the trip in doubt, added to by showers *en route* to Paeroa. After protracted discussions about a coffee break the rain lifted and we headed out to what was to be a brilliant fine day. As all the vegetation was wet, we slowly progressed along the road to the dam, loitering over weeds often ignored such as *Gladiolus dalenii* (in flower), a huge patch of elaeagnus and *Hypericum androsaemum*. Rewarewa (*Knighitia excelsa*) were anxiously scanned for *Ichthyostomum pygmaeum* or *Drymoanthus adversus* (without luck) but the highlight was explaining to new members the differences between *Adiantum cunninghamii* and *A. hispidulum* and key features of *Coprosma robusta* compared with *C. lucida*.

At the dam *Ottelia ovata* and *Lemna minor* were added to the list and the track proper began with masses of the tiny flowered, tall *Scrophularia auriculata* and pampas (*Cortaderia selloana*). But we were soon into tall kanuka (*Kunzea ericoides var. ericoides*) with a rich understorey including numerous *Pterostylis banksii*, now well past flowering. Near the track fork and stream crossing, a thin bark totara (*Podocarpus cunninghamii*)

drew discussion between that and lowland totara with comparison between the bark and that of an adjacent tree which turned out to be a kanuka to much embarrassment.

After lunch in the sun by the stream we continued up the right fork track soon finding our *Drymoanthus adversus* and encountering *Tmesipteris lanceolata* growing alongside *T. elongata*. For some distance the track was fringed by *Coprosma arborea* and *C. spathulata*, another difficult pair, most readily distinguished by the broadly winged petiole and thick, flat leaf in the latter, and in this case black fruit on the low shrub.

Satisfyingly there were good numbers of young rimu (*Dacrydium cupressinum*) and kauri (*Agathis australis*) in the more open areas and large puriri (*Vitex lucens*), mangeo (*Litsea calicaris*) and kohekohe (*Dysoxylum spectabile*), with the odd mature kahikatea (*Dacrycarpus dacrydioides*) and matai in a general forest of pigeonwood (*Hedycarya arborea*), mahoe (*Melicytus ramiflorus*) and kamahi (*Weinmannia racemosa*). The latter were quite intermediate between plants found around Rotorua and the clearly towai (*Weinmannia silvicola*) seen further up the Coromandel Peninsula. Adult plants were often compound-leaved and the leaves thicker than in kamahi. Other plants of interest were karaka (*Corynocarpus laevigatus*), wharangi (*Melicope ternata*) and taurepo (*Streblus heterophyllus*), with its violin-shaped leaves.

The trackside varied from dry rocky banks with *Dianella nigra*, *Doodia australis*, and *Libertia grandiflora*, with *Trichomanes strictum* in dark crannies, to dense swards of parataniwha (*Elatostema rugosum*) and kiokio (*Blechnum novae-zelandiae*) in the wet areas with patches of orchids. These included *Nematoceras macranthum*, *N. trilobum*, *N. acuminatus* and *Singularibas oblongus*.

The track showed off a good variety of ferns including *Adiantum viridescens* and *A. cunninghamii* (distinguished by the hairy rachis in the former), the treefern-like

Blechnum fraseri and a long list of filmy ferns. There was also a good list of orchids, now mostly finished flowering. Of particular interest was an area of *Nematoceras* "Kaimai" of two colour forms near a patch of *N. macranthum*. Although most plants had flowered only 3 out of several hundred had fruited. A similar mixed patch of red and normal coloured N. "Kaimai": along the stream bank below noted on an earlier visit in October also had but a few fruit.

Towards the end the valley narrowed considerably and the track was close to the stream, finally ending in a large pool and a shute leading to the hidden waterfall. In the shute *Anaphalioides trinervis* was common along with *Epilobium rotundifolium* and *Lobelia anceps*.

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PAEROA WATER RESERVE - WATERFALL TRACK

Graeme Jane

Gymnosperm trees and shrubs

<i>Agathis australis</i>	kauri
<i>Dacrycarpus dacrydioides</i>	kahikatea, white pine
<i>Dacrydium cupressinum</i>	rimu, red pine
<i>Phyllocladus trichomanoides</i>	tanekaha; celery pine
<i>Podocarpus cunninghamii</i>	Hall's totara; thin bark totara
<i>Prumnopitys ferruginea</i>	miro; brown pine

Monocotyledonous trees and shrubs

<i>Cordyline banksii</i>	forest cabbage tree; ti ngahere
<i>Rhopalostylis sapida</i>	nikau

Dicotyledonous trees and shrubs

* <i>Ageratina adenophora</i>	Mexican devil
<i>Alseuosmia macrophylla</i>	toropapa; shrubby honeysuckle
<i>Aristotelia serrata</i>	wineberry; makomako
<i>Beilschmiedia tawa</i>	tawa
<i>Brachyglottis repanda</i>	rangiora; bushmans friend
* <i>Buddleja davidii</i>	summer lilac; buddleia
<i>Carpodetus serratus</i>	putaputaweta; marbleleaf
<i>Coprosma arborea</i>	mamangi; tree coprosma

<i>Coprosma grandifolia</i>	raurekau; kanono; mamono
<i>Coprosma lucida</i>	karamu; shining karamu
<i>Coprosma rhamnoides</i>	thorny coprosma
<i>Corynocarpus laevigatus</i>	karaka; kopi
<i>Dysoxylum spectabile</i>	kohekohe
<i>Elaeocarpus dentatus</i>	hinau
* <i>Erica lusitanica</i>	Spanish heath
<i>Fuchsia excorticata</i>	fuchsia; kotukutuku
<i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i>	hangehange; privet
<i>Griselinia lucida</i>	puka
<i>Hebe stricta</i> var. <i>stricta</i>	koromiko
<i>Hedycarya arborea</i>	pigeonwood; porokaiwhiri
<i>Hoheria sexstylosa</i>	houhere
<i>Knightia excelsa</i>	rewarewa; NZ honeysuckle
<i>Kunzea ericoides</i> var. <i>ericoides</i>	kanuka; white teatree
<i>Laurelia novae-zelandiae</i>	pukatea
<i>Leptocophylla juniperina</i> subsp. <i>juniperina</i>	
<i>Leptospermum scoparium</i> var. <i>scoparium</i>	manuka; red teatree
<i>Leucopogon fasciculatus</i>	mingimingi; kaikaitau
<i>Litsea calicaris</i>	mangaeo
<i>Macropiper excelsum</i> subsp. <i>excelsum</i>	kawakawa; pepper tree
<i>Melicope simplex</i>	poataniwha
<i>Melicope ternata</i>	wharangi
<i>Melicytus ramiflorus</i>	mahoe
<i>Myrsine australis</i>	red matipo; mapou
<i>Olearia rani</i> var. <i>colorata</i>	heketara
<i>Pseudopanax arboreus</i>	five finger; puhou; whaupaku
<i>Pseudopanax crassifolius</i>	lancewood; horoeka
<i>Schefflera digitata</i>	pate; patae; kotete
<i>Solanum laciniatum</i>	poroporo
* <i>Solanum mauritianum</i>	woolly nightshade
<i>Streblus heterophyllus</i>	turepo; milk tree
* <i>Ulex europaeus</i>	gorse
<i>Vitex lucens</i>	pururi; kauere
<i>Weinmannia racemosa</i>	kamahi; towai; tawhero

Monocotyledonous lianes

<i>Freycinetia banksii</i>	kiekie
<i>Ripogonum scandens</i>	supplejack; kareao

Dicotyledonous lianes and related trailing plants

<i>Clematis paniculata</i>	clematis; puawhananga
<i>Metrosideros diffusa</i>	white climbing rata; akatea
<i>Metrosideros fulgens</i>	scarlet rata; winter rata

Metrosideros perforata
Rubus cissoides

aka; small white rata; torotoro
bush lawyer; tataramoa

Psilopsids, Lycopods & Quillworts

Huperzia varia

hanging clubmoss; iwituna

Ferns

Adiantum cunninghamii

maiden hair fern

Adiantum viridescens

Asplenium bulbiferum

hen and chickens fern; moku

Asplenium flaccidum

hanging spleenwort; makawe

Asplenium oblongifolium

shining spleenwort

Asplenium polyodon

sickle spleenwort; petako

Blechnum chambersii

nini; lance fern

Blechnum discolor

crown fern; piupiu; petipeti

Blechnum filiforme

climbing hard fern; thread fern

Blechnum fraseri

Blechnum novae-zealandiae

kiokio

Cardiomanes reniforme

kidney fern; raurenga

Ctenopteris heterophylla

Cyathea dealbata

ponga; silver fern

Cyathea medullaris

mamaku; korau; black tree fern

Cyathea smithii

soft-leaved tree fern; katote

Deparia petersenii subsp. *congrua*

Diplazium australe

Doodia australis

pukupuku; rasp fern

Grammitis ciliata

hairy strap fern

Hymenophyllum demissum

piripiri; irirangi

Hymenophyllum dilatatum

lop-sided filmy fern

Hymenophyllum flabellatum

fan fern

Hymenophyllum frankliniae

Hymenophyllum revolutum

Hymenophyllum sanguinolentum

blood-scented filmy fern

Lastreopsis glabella

felted fern

Lastreopsis hispida

hairy fern, hairy legs

Leptopteris hymenophylloides

single crepe fern; heruheru

Loxogramme dictyopteris

Lygodium articulatum

mangemange; bushmans mattress

Microsorium pustulatum subsp. *pustulatum*

hounds tongue; kowaowao

Microsorium scandens

mokimoki; fragrant fern

Paesia scaberula

scented fern; matata; ring fern

Pneumatopteris pennigera

gully fern; pakau; pakauharoha

Polystichum neozelandicum subsp. *zerophyllum*

Polystichum wawranum

common shield fern; pikopiko

<i>Pteris macilenta</i>	sweet fern
<i>Tmesipteris elongata</i>	
<i>Tmesipteris lanceolata</i>	
<i>Trichomanes strictum</i>	
<i>Trichomanes venosum</i>	veined bristle fern

Orchids

<i>Acianthus sinclairii</i>	heart-leaf orchid
<i>Earina autumnalis</i>	Easter orchid; raupeka
<i>Earina mucronata</i>	spring orchid; peka-a-waka
<i>Ichthyostomum pygmaeum</i>	
<i>Nematoceras</i> “green knob”	
<i>Nematoceras</i> “Kaimai”	
<i>Nematoceras acuminatum</i>	
<i>Nematoceras macranthum</i>	
<i>Nematoceras trilobum</i>	
<i>Pterostylis banksii</i>	tutukiwi
<i>Singularybas oblongus</i>	
<i>Thelymitra pauciflora</i>	

Grasses

* <i>Aira caryophyllea</i> subsp. <i>caryophyllea</i>	silvery hair grass
* <i>Anthoxanthum odoratum</i>	sweet vernal
<i>Austroderia fulvida</i>	kakaho; toetoe
* <i>Cortaderia selleana</i>	pampas
<i>Microlaena avenacea</i>	bush rice grass; oat grass
<i>Microlaena stipoides</i>	forest rice grass
<i>Oplismenus hirtellus</i> subsp. <i>imbecillis</i>	oat grass
<i>Poa anceps</i> subsp. <i>anceps</i>	coastal poa
<i>Rytidosperma gracile</i>	forest fairy grass
* <i>Sporobolus africanus</i>	needle grass; rats tail

Sedges

<i>Carex dissita</i>
<i>Carex solandri</i>
<i>Carex virgata</i>
<i>Gabnia lacera</i>
<i>Gabnia setifolia</i>
<i>Isolepis distigmata</i>
<i>Morelotia affinis</i>
<i>Schoenus maschalinus</i>
<i>Uncinia banksii</i>
<i>Uncinia gracilentia</i>
<i>Uncinia laxiflora</i>

Uncinia uncinata

watu

Rushes and allied plants

* *Juncus articulatus*

jointed rush

* *Juncus effusus* var. *effusus*

soft rush

Remaining Monocotyledonous herbs

Astelia solandri

kowharawhara

Astelia trinervia

Collospermum hastatum

kahakaha

Collospermum microspermum

Dianella nigra

blueberry; turutu

Libertia grandiflora

Phormium tenax

flax

Dicotyledonous herbs

* *Acaena novae-zelandiae*

red bidibid; piripiri

Anaphalioides trinervis

puatea

* *Cardamine hirsuta* var. *hirsuta*

bitter cress; spitting Jenny

Centella uniflora

* *Cerastium fontanum* subsp. *vulgare*

mouse-eared chickweed

* *Cirsium arvense*

Californian thistle

* *Cirsium vulgare*

Scotch thistle

* *Conyza sumatrensis*

* *Digitalis purpurea*

foxglove

Elatostema rugosum

parataniwha

Epilobium rotundifolium

round-leaved willowherb

* *Erigeron karvinskianus*

Mexican daisy

Euchiton involucratus

creeping cudweed

Galium perpusillum

bedstraw

Hydrocotyle dissecta

* *Hypochaeris radicata*

catsear

* *Jacobaea vulgaris*

ragwort

Lobelia anceps

wild lobelia

Nertera depressa

common nertera

Nertera dichondrifolia

hairy nertera

* *Persicaria hydropiper*

* *Phytolacca octandra*

inkweed

* *Plantago lanceolata*

ribwort; narrow-leaved plantain

Pseudognaphalium luteoalbum

Jersey cudweed

Ranunculus reflexus

maruru; hairy buttercup

Senecio minimus

fireweed

Stellaria parviflora