

OHOPE SCENIC RESERVE WETLAND (MARAETOTARA ROAD) AND AN AFTERNOON FORAY INTO WAIOTANE SCENIC RESERVE

Sarah Beadel

A keen group of seven gathered on a Saturday morning in April at the bottom of Ohope Hill. First stop was the wetland adjacent to Maraetotara Road, in Ohope Scenic Reserve. I had long been curious about this site and looking forward to a visit to this wetland, and we were well rewarded. Whilst *Carex geminata* was abundant, up to about 2 m tall, there was a diverse range of other species as well. The key species of interest were several large mature *Olearia solandri* c.4-5 m tall and 15-20 cm DBH. Prior to this, within the Bay of Plenty, I had not seen this species away from an estuarine margin. The other species of interest was ramarama (*Lophomyrtus bullata*), of which we saw three trees and one sapling. This species is known from only a few other sites in the Taneatua Ecological District.

Other species in the wetland included swamp kiokio (*Blechnum minus*), swamp coprosma (*Coprosma tenuicaulis*), two large pole kahikatea (*Dacrycarpus dacrydioides*) on the margins, swamp millet (*Isachne globosa*), *Baumea rubiginosa*, *B. tenax*, spike sedge (*Eleocharis acuta*), raupo (*Typha orientalis*), and *Carex virgata*. Weeds were relatively uncommon. DOC had undertaken some willow control in the wetland, and there were only a few smaller saplings, seedlings, and one medium-sized shrub remaining. These are to be controlled shortly (P. Cashmore pers. comm.). In addition, there were a few Chinese privet (*Ligustrum sinense*) and one shining privet (*L. lucidum*), the latter of which was removed during the field trip.

In the indigenous forest above the wetland was a large paulownia (*Paulownia tomentosa*) tree (10-15 m tall and 40 cm DBH). DOC is also likely to remove this shortly. A list of species encountered in the wetland is attached. Some of these are new records for the

Scenic Reserve (see Beadel 2008). In total 11 indigenous species and 12 adventive species are new records, including ramarama, *Coprosma tenuicaulis*, *Olearia solandri*, *Blechnum minus*, *Baumea tenax*, and *Epilobium pallidiflorum*.

We left the wetland and had lunch on Ohope Beach (near Maraetotara Reserve), where we saw *Muehlenbeckia complexa* and exotic grasses, introduced iceplant (*Carpobrotus edulis*), and a few plants of spinifex (*Spinifex sericeus*).

We then travelled to Waiotane Scenic Reserve, where the primary aim was to search for *Pimelea tomentosa*, last seen in the Reserve in 1984. A secondary aim was to look for *Peperomia tetraphylla* and *Adelopetalum tuberculatum*, which are both known to be present in the Reserve (Beadel & Shaw 1988 and Beadel 2011). We traversed quite a sizeable corner of the Reserve in our search, mainly through very promising habitat for *Pimelea tomentosa*: dry, open, secondary forest of kanuka (*Kunzea ericoides*) and rewarewa (*Knightsia excelsa*), and also came across a large pohutukawa (*Metrosideros excelsa*). Although no pimelea was found, our travels led us to some other interesting additions to the list for the Reserve: *Senecio hispidulus* growing beneath kanuka, and two mida (*Mida salicifolia*) seedlings. We found two populations of *Peperomia tetraphylla*: one a solitary plant epiphytic on nikau, and the other a large population of over 50 plants growing on four tawa (*Beilschmiedia tawa*) in association with *Peperomia urvilleana*. It was interesting to see these two species together as epiphytes. This site was in tawa-puriri (*Vitex lucens*) forest in a gully, with numerous nikau (*Rhopalostylis sapida*) in the subcanopy. We also saw a population of *Adelopetalum tuberculatum* which I found earlier in the year (Beadel 2011), and two of the party saw two clumps further up the ridge. All these plants were epiphytic on rewarewa. There are a few other known occurrences of *Adelopetalum tuberculatum* on this side of the reserve and there is also a sizeable population of *Adelopetalum tuberculatum* on the other side of the reserve. It is likely to occur in other parts of the reserve as rewarewa is common here (Beadel 2011). Whilst it has only been recorded growing on rewarewa in this reserve, this may not represent the only host

species but merely reflects that suitable habitat (i.e. tree trunks/branches in relatively high light environments) on other host species such as tawa is not generally visible from the ground. It has previously been recorded as epiphytic on tawa in Hukutaia Domain (Clarkson and Regnier 1989).

Near the end of the day, on our way back to the vehicles, we came across a small wetland in the head of a gully, very similar in composition to the wetland we explored in the morning: *Carex geminata*-swamp kiokio sedgeland in association with *Carex secta* and *Baumea tenax*, and scattered manuka (*Leptospermum scoparium* agg.), wheki (*Dicksonia squarrosa*), mapou (*Myrsine australis*) and nikau.

REFERENCES

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- Beadel S.M., Shaw W.B. 1988: Scenic and Allied Reserves of the Taneatua Ecological District, Eastern Bay of Plenty. Biological Survey of Reserves Series Report No. 12. Department of Conservation, Wellington. 138 p.
- Clarkson B.R and Regnier C.E. 1989: West Gisborne. Biological Survey of Reserves Report No. 16. Department of Conservation, Wellington. 176 p.
- Wildland Consultants 2010: Pest plant survey and assessment - Ohope Scenic Reserve, 2010. Wildland Consultants Ltd Contract Report No. 2533. Prepared for Department of Conservation. 46p.

OHOPE SCENIC RESERVE WETLAND

Sarah Beadel

* denotes not previously recorded from Ohope Scenic Reserve (see Beadel 2008 and Wildland Consultants 2010)

INDIGENOUS SPECIES

Gymnosperms

Dacrycarpus dacrydioides kahikatea

Monocot trees and shrubs

Cordyline australis ti kouka, cabbage tree

Rhopalostylis sapida nikau

Dicot. trees and shrubs

Alectryon excelsus subsp. *excelsus* titoki

Coprosma robusta karamu

Coprosma tenuicaulis * hukihuki, swamp coprosma

Coriaria arborea var. *arborea* tutu

Fuchsia excorticata kotukutuku

Hebe stricta var. *stricta* koromiko

Kunzea ericoides kanuka

Leptospermum scoparium agg. manuka

Lophomyrtus bullata ramarama

Myrsine australis mapou

Olearia solandri *

Monocot. lianes

Freycinetia banksii kiekie

Dicot. lianes

Calystegia sepium subsp. *roseata* pohue

Metrosideros fulgens rata vine

Metrosideros perforata rata vine

Muehlenbeckia australis pohuehue

Parsonia heterophylla akakaikiore

Rubus cissoides agg. tataramoa, bush lawyer

Lycopods and psilopsids

Tmesipteris elongata

Ferns

Asplenium flaccidum hanging spleenwort

Blechnum filiforme panako

<i>Blechnum fluviatile</i>	kiwikiwi
<i>Blechnum minus</i> *	swamp kiokio
<i>Blechnum novae-zelandiae</i>	kiokio
<i>Cyathea medullaris</i>	mamaku
<i>Deparia petersenii</i> subsp. <i>congrua</i>	
<i>Dicksonia fibrosa</i> *	wheki-ponga
<i>Dicksonia squarrosa</i>	wheki
<i>Diplazium australe</i>	lady fern
<i>Microsorium pustulatum</i>	kowaowao, hound's tongue fern
<i>Paesia scaberula</i>	matata
<i>Pneumatopteris pennigera</i>	pakau
<i>Pteridium esculentum</i>	rarahū, bracken
<i>Pyrrosia eleagnifolia</i>	leather-leaf fern

Grasses

<i>Austroderia fulvida</i>	toetoe
<i>Isachne globosa</i>	swamp millet

Sedges

<i>Baumea rubiginosa</i>	
<i>Baumea tenax</i> *	
<i>Carex geminata</i> agg.	rautahi
<i>Carex maorica</i> *	
<i>Carex secta</i>	purei
<i>Carex virgata</i>	purei
<i>Cyperus ustulatus</i> f. <i>ustulatus</i>	toetoe., upoikotangata
<i>Eleocharis acuta</i>	spike sedge
<i>Lepidosperma australe</i> *	
<i>Uncinia uncinata</i>	kaniu matau a Maui

Rushes

<i>Juncus edgariae</i>	wi
<i>Juncus planifolius</i>	

Monocot. herbs (other than orchids, grasses, sedges, and rushes)

<i>Lemna minor</i> *	karearea
<i>Typha orientalis</i>	raupo

Dicot. herbs

<i>Acaena anserinifolia</i>	piripiri
<i>Callitriche stagnalis</i>	starwort
<i>Cardamine debilis</i> agg.	panapana
<i>Epilobium pallidiflorum</i> *	tawarewa
<i>Haloragis erecta</i> subsp. <i>erecta</i>	toatoa

NATURALISED AND EXOTIC SPECIES

Dicot. trees and shrubs

<i>Hypericum androsaemum</i>	tutsan
<i>Ligustrum lucidum</i> *	tree privet
<i>Ligustrum sinense</i> *	Chinese privet
<i>Paulownia tomentosa</i> ¹ *	paulownia
<i>Populus</i> sp.	poplar
<i>Rosa rubiginosa</i>	sweet briar
<i>Rubus</i> sp. (<i>R. fruticosus</i> agg.)	blackberry
<i>Salix cinerea</i>	grey willow
<i>Salix fragilis</i>	crack willow

Grasses

<i>Agrostis capillaris</i>	browntop
<i>Cortaderia selloana</i>	pampas
<i>Echinochloa crus-galli</i> *	barnyard grass
<i>Holcus lanatus</i>	Yorkshire fog
<i>Schedonorus arundinaceus</i>	tall fescue

Sedges

<i>Cyperus brevifolius</i>	globe sedge
<i>Cyperus congestus</i> *	purple umbrella sedge

Rushes

<i>Juncus acuminatus</i> *	sharp-fruited rush
<i>Juncus articulatus</i>	jointed rush
<i>Juncus effusus</i> var. <i>effusus</i>	soft rush, leafless rush
<i>Juncus tennis</i> var. <i>tenuis</i>	track rush

Monocot. herbs (other than orchids, grasses, sedges, and rushes)

<i>Crocasmia</i> × <i>crocasmiiiflora</i>	montbretia
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Dicot. herbs

<i>Achillea millefolium</i> *	yarrow
<i>Cirsium arvense</i>	Californian thistle
<i>Lotus pedunculatus</i>	lotus
<i>Ludwigia palustris</i> *	water purslane
<i>Mentha citrata</i> × <i>M. suaveolens</i> *	
<i>Myosotis laxa</i> subsp. <i>caespitosa</i> *	water forget-me-not
<i>Persicaria hydropiper</i>	water pepper
<i>Ranunculus repens</i>	creeping buttercup
<i>Scrophularia auriculata</i>	water figwort
<i>Sison amomum</i>	stone parsley
<i>Solanum nigrum</i>	black nightshade

WAIOTANE SCENIC RESERVE

Sarah Beadel

* denotes recorded by Beadel & Shaw (1988)

INDIGENOUS SPECIES

Gymnosperms

<i>Dacrycarpus dacrydioides</i>	kahikatea
<i>Dacrydium cupressinum</i>	rimu
<i>Prumnopitys ferruginea</i>	miro

Monocot. trees and shrubs

<i>Cordyline australis</i>	tikpuka, cabbage tree
<i>Cordyline banksii</i>	ti ngahere, forest cabbage tree
<i>Rhopalostylis sapida</i>	nikau

Dicot. trees and shrubs

<i>Alectryon excelsus</i> subsp. <i>excelsus</i>	titoki
<i>Aristotelia serrata</i>	makomako, wineberry
<i>Beilschmiedia tawa</i>	tawa
<i>Brachyglottis repanda</i>	rangiora
<i>Carmichaelia australis</i>	makaka, maukoro
<i>Carpodetus serratus</i>	putaputaweta
<i>Coprosma grandifolia</i>	kanono
<i>Coprosma lucida</i>	karamu, glossy karamu
<i>Coprosma rhamnoides</i>	
<i>Coprosma robusta</i>	karamu
<i>Coprosma spathulata</i> subsp. <i>spathulata</i>	
<i>Coriaria arborea</i> var. <i>arborea</i>	tutu
<i>Dysoxylum spectabile</i>	kohekohe
<i>Elaeocarpus dentatus</i>	hinau
<i>Entelea arborescens</i> *	whau
<i>Fuchsia excorticata</i>	kotukutuku
<i>Gaultheria antipoda</i>	tawiniwini
<i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i>	hangehange
<i>Griselinia lucida</i>	puka
<i>Hebe stricta</i> var. <i>stricta</i>	koromiko
<i>Hedycarya arborea</i>	porokaiwhiri; pigeonwood
<i>Knightia excelsa</i>	rewarewa
<i>Kunzea ericoides</i>	kanuka
<i>Laurelia novae-zelandiae</i>	pukatea
<i>Leptocophylla juniperina</i> var. <i>juniperina</i>	prickly mingimingi
<i>Leptospermum scoparium</i> agg.	manuka
<i>Leucopogon fasciculatus</i>	mingimingi

<i>Leucopogon fraseri</i>	patotara
<i>Litsea calicaris</i>	mangeao
<i>Macropiper excelsum</i> subsp. <i>excelsum</i>	kawakawa
<i>Melicope temata</i>	wharangi
<i>Melicytus ramiflorus</i> subsp. <i>ramiflorus</i>	mahoe
<i>Metrosideros excelsa</i>	pohutukawa
<i>Metrosideros robusta</i>	northern rata
<i>Metrosideros excelsa</i> × <i>M robusta</i>	
<i>Myoporum laetum</i>	ngaio
<i>Myrsine australis</i>	mapou
<i>Nestegis cunninghamii</i>	black maire
<i>Nestegis lanceolata</i>	white maire
<i>Olearia furfuracea</i>	akepiro
<i>Olearia rani</i> var. <i>colorata</i>	heketara
<i>Pimelea tomentosa</i> *	
<i>Pittosporum tenuifolium</i>	kohuhu
<i>Pomaderris amoena</i>	tauhinu
<i>Pseudopanax arboreus</i>	whauwhaupaku, five finger
<i>Pseudopanax crassifolius</i>	horoeka, lancewood
<i>Schefflera digitata</i>	pate
<i>Solanum aviculare</i> var. <i>aviculare</i> *	poroporo
<i>Vitex lucens</i>	puriri
<i>Weinmannia racemosa</i>	kamaha

Monocot. lianes

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

Dicot. lianes

<i>Calystegia sepium</i> subsp. <i>roseata</i>	pohue
<i>Clematis cunninghamii</i> *	ngakau-kiore
<i>Clematis foetida</i> *	akakaiku
<i>Clematis paniculata</i>	puawananga
<i>Metrosideros diffusa</i>	
<i>Metrosideros fulgens</i>	
<i>Metrosideros perforata</i>	
<i>Muehlenbeckia australis</i>	puka
<i>Parsonsia capsularis</i>	akakiore
<i>Rubus cissoides</i> agg.	tataramoa, bush lawyer

Lycopods and psilopsids

<i>Huperzia varia</i>	Whiri-o-Raukatauri
<i>Lycopodium deuterodensum</i>	puakarimu
<i>Lycopodium volubile</i>	waewaekoukou

Tmesipteris elongata
Tmesipteris tannensis

Ferns

<i>Adiantum cunninghamii</i>	humhuru tapairu, maidenhair fern
<i>Adiantum fulvum</i> *	huryhuru tapaim, maidenhair fero
<i>Adiantum hispidulum</i>	huruhuru tapairu, maidenhair fern
<i>Asplenium bulbiferum</i>	mouku, hen and chicken fem
<i>Asplenium flaccidum</i>	makawe
<i>Asplenium hookerianum</i>	petako-paraharaha
<i>Asplenium oblongifolium</i>	huruhuruwhenua
<i>Asplenium polyodon</i>	petako
<i>Blechnum chambersii</i>	rereti
<i>Blechnum colensoi</i>	peretao
<i>Blechnum discolor</i>	petipeti, crown fem
<i>Blechnum filiforme</i>	panako
<i>Blechnum fluviatile</i>	kiwikiwi
<i>Blechnum membranaceum</i>	
<i>Blechnum minus</i>	swamp kiokio
<i>Blechnum novae-zelandiae</i>	kiokio
<i>Blechnum vulcanicum</i>	korokio
<i>Cardiomanes reniforme</i>	kidney fem, konehu
<i>Ctenopteris heterophylla</i>	
<i>Cyathea cunninghamii</i>	punui, gully tree fem
<i>Cyathea dealbata</i>	ponga, silver fern
<i>Cyathea medullaris</i>	mamaku
<i>Deparia petersenii</i> subsp. <i>congrua</i>	
<i>Dicksonia squarrosa</i>	wheki
<i>Diplazium australe</i>	
<i>Doodia australis</i>	pukupuku
<i>Histiopteris incisa</i>	matata, water fem
<i>Hymenophyllum demissum</i>	irirangi, filmy fem
<i>Hymenophyllum rarum</i>	mauku, filmy fem
<i>Hymenophyllum sanguinolentum</i>	piripiri, filmy fern
<i>Hypolepis ambigua</i>	
<i>Lastreopsis glabella</i>	
<i>Lastreopsis hispida</i>	
<i>Lastreopsis microsora</i> subsp. <i>pentangularis</i> *	
<i>Lastreopsis velutina</i> *	
<i>Leptopteris hymenophylloides</i>	heruheru
<i>Loxogramme dictyopteris</i>	
<i>Microsorium pustulatum</i>	kowaowao, hound's tongue fem
<i>Microsorium scandens</i>	mokimoki
<i>Paesia scaberula</i>	matata

<i>Pneumatopteris pennigera</i>	pakau
<i>Polystichum wawranum</i>	
<i>Polystichum</i> sp. *	pikopiko, shield fem
<i>Pteridium esculentum</i>	rarahu, bracken
<i>Pteris macilenta</i>	sweet fern
<i>Pteris tremula</i>	turawera, shaking brake
<i>Pyrrosia eleagnifolia</i>	leather-leaf fem
<i>Rumohra adiantiformis</i>	
<i>Trichomanes elongatum</i> *	
<i>Trichomanes venosum</i>	

Orchids

<i>Acianthus sinclairii</i>	
<i>Adelopetalum tuberculatum</i>	
<i>Diplodinium trullifolium</i>	
<i>Drymoanthus adversus</i>	
<i>Earina autumnalis</i>	raupeka
<i>Earina mucronata</i>	peka-a-waka
<i>Gastrodia</i> sp.	
<i>Ichthyostomum pygmaeum</i>	piripiri
<i>Microtis unifolia</i> agg.	maikaika
<i>Pterostylis banksii</i>	tutukiwi
<i>Thelymitra longifolia</i>	maikuku
<i>Winika cunninghamii</i>	

Grasses

<i>Cortaderia fulvida</i>	toetoe
<i>Deyouxia avenoides</i>	
<i>Dichelachne crinita</i>	patiti, plume grass
<i>Echinopogon ovatus</i>	
<i>Microlaena avenacea</i>	bush rice grass
<i>Microlaena stipoides</i>	patiti, meadow rice grass
<i>Oplismenus hirtellus</i> subsp. <i>imbecillis</i>	
<i>Poa anceps</i> agg.	
<i>Rytidosperma</i> sp.	

Sedges

<i>Baumea rubiginosa</i>	
<i>Baumea tenax</i>	
<i>Carex breviculmis</i>	
<i>Carex dipsacea</i>	
<i>Carex geminata</i> agg.	rautahi
<i>Carex maorica</i>	
<i>Carex secta</i>	purei

<i>Carex spinirostris</i> *	
<i>Carex virgata</i>	purei
<i>Cyperus ustulatus</i> f. <i>ustulatus</i>	giant umbrella sedge
<i>Ficinia nodosa</i>	wiwi
<i>Gahnia pauciflora</i>	takahikahi
<i>Gahnia setifolia</i>	mapere
<i>Machaerina sinclairii</i>	tuhara
<i>Morelotia affinis</i>	
<i>Schoenus tendo</i>	wiwi
<i>Uncinia banksii</i>	matau
<i>Uncinia scabra</i>	matau
<i>Uncinia uncinata</i>	kamu matau a Maui

Rushes

<i>Juncus edgariae</i>	wi
<i>Luzula picta</i> var. <i>picta</i>	

Monocot. herbs (other than orchids, grasses, sedges, and rushes)

<i>Astelia fragrans</i>	kakaha
<i>Astelia solandri</i>	kowharawhara
<i>Collospermum hastatum</i>	kahakaha
<i>Collospermum microspermum</i>	
<i>Dianella nigra</i>	turutu
<i>Libertia grandiflora</i>	mikoikoi; native iris
<i>Composite herbs</i>	
<i>Euchiton audax</i>	
<i>Euchiton collinus</i>	
<i>Euchiton sphaericus</i>	
<i>Lagenifera pumila</i>	papataniwhaniwha
<i>Pseudognaphalium luteoalbum</i> agg.	pukatea
<i>Senecio hispidulus</i>	
<i>Senecio minimus</i>	

Dicot. herbs (other than composites)

<i>Acaena novae-zelandiae</i>	piripiri
<i>Cardamine</i> sp.	panapana
<i>Centella uniflora</i>	
<i>Drosera auriculata</i>	sundew, wahu
<i>Epilobium nerteroides</i>	
<i>Epilobium pedunculare</i>	
<i>Galium propinquum</i>	mawe
<i>Geranium solanderi</i>	matuia-kumara
<i>Gonocarpus incanus</i>	piripiri
<i>Gunnera monoica</i>	

<i>Haloragis erecta</i> subsp. <i>erecta</i>	toatoa
<i>Hydrocotyle elongata</i>	
<i>Hydrocotyle heteromeria</i>	
<i>Hydrocotyle moschata</i>	
<i>Nertera depressa</i>	
<i>Oxalis exilis</i>	
<i>Peperomia tetraphylla</i>	
<i>Peperomia urvilleana</i>	
<i>Ranunculus reflexus</i>	maruru
<i>Stellaria parviflora</i>	kohukohu
<i>Urtica incisa</i>	ongaonga, tree nettle
<i>Wahlenbergia violacea</i>	rimuroa

NATURALISED AND EXOTIC SPECIES

Dicot. trees and shrubs

<i>Berberis glaucocarpa</i>	barberry
<i>Buddleja davidii</i>	buddleia
<i>Erica lusitanica</i>	Spanish heath
<i>Hypericum androsaemum</i> *	tutsan

Grasses

<i>Anthoxanthum odoratum</i>	sweet vernal
<i>Cortaderia selloana</i>	pampas
<i>Dactylis glomerata</i>	cocksfoot
<i>Holcus lanatus</i>	Yorkshire fog
<i>Lolium perenne</i>	rye grass
<i>Paspalum dilatatum</i>	paspalum
<i>Schedonorus arundinaceus</i>	tall fescue
<i>Sporobolus africanus</i>	ratstail

Rushes

<i>Juncus effusus</i> var. <i>effusus</i>	soft rush, leafless rush
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Composite herbs

<i>Cirsium vulgare</i>	Scotch thistle
<i>Conyza sumatrensis</i>	broad-leaved fleabane
<i>Crepis capillaris</i>	hawksbeard
<i>Gamochaeta coarctata</i>	purple cudweed
<i>Hypochaeris radicata</i>	catsear
<i>Jacobaea vulgaris</i>	ragwort
<i>Lactuca serriola</i>	prickly lettuce
<i>Senecio bipinnatisectus</i>	Australian fireweed

Dicot. herbs (other than composites)

<i>Centaurium erythraea</i>	centaury
<i>Daucus carota</i>	wild carrot
<i>Digitalis purpurea</i>	foxglove
<i>Galium aparine</i>	cleavers
<i>Ludwigia palustris</i>	water purslane
<i>Mentha citrata</i> × <i>M. suaveolens</i>	
<i>Nasturtium officinale</i>	watercress
<i>Phytolacca octandra</i>	inweed
<i>Plantago lanceolata</i>	narrow-leaved plantain
<i>Ranunculus repens</i>	creeping buttercup
<i>Scrophularia auriculata</i>	water figwort
<i>Solanum nigrum</i>	black nightshade
<i>Trifolium repens</i>	white clover
<i>Verbena bonariensis</i>	purple-top