

KOHI POINT FIELD TRIP

Sarah Beadel

A large group of keen botanists gathered in Whakatane to explore the botany of Kohi Point coastal walkway on a very mild mid-winter's day on 9 June 2007. The walkway we explored is part of a round trip linking Kohi Point Scenic Reserve, Mokoroa Bush Scenic Reserve, Melville QEII covenant, and Ohope Scenic Reserve. We walked along the track from Whakatane township over to "West End" - at the western end of Ohope Beach. The weather was fine and allowed for detailed exploration of the track margins.

Kohi Point is in the Taneatua Ecological District (ED), and a Protected Natural Area Programme survey report (PNAP) for this ED was prepared. (Beadel *et al.* 1999). Vegetation in the reserve was mapped and described and assessed in 1984 (Beadel and Shaw 1988), and details of further botanical explorations, ecological assessments, and management recommendations can be found in Beadel (1993 and 1995).

The start of the track was through secondary forest, with five-finger common, but along the top of the escarpment we walked through several large pa sites where rewarewa was prominent, along with mahoe and kanuka, and large mangeao and pohutukawa below the track to the east. Here we saw several plants of *Pimelea tomentosa*, a nationally threatened small shrub ('Chronically Threatened - Serious Decline'), sometimes known as native daphne. These reserves - Kohi Point, Mokorua, and Ohope - are a stronghold for this species, along with Matata Scenic Reserve, also in the Bay of Plenty.

Along the coastal margins of Kohi Point there is a low shrubland of kanuka, mingimingi, and wharariki, and here we saw another pimelea, *Pimelea prostrata*. This low shrubland also supports a substantial population of *Korthalsella salicornioides*, a native mistletoe classed as 'At Risk - Sparse'. This species is generally well camouflaged amongst the foliage of its host (manuka), but once the first plant is spotted then many more plants seem to "appear out of thin air".

Several orchids were seen, including *Acianthus sinclairii*, *Diplodium alobulum*, *Ichtyostomum pygmaeum*, *Caladenia* sp., and some large *Orthoceras novae-zelandiae* in flower.

Otarawairere Bay provided habitat for several species often found on the coast - *Carex pumila*, *Isolepis cernua*, native ice plant (*Disphyma australe*), native celery (*Apium prostratum*), *Samolus repens*, and *Sarcocornia quinqueflora*. A disconcerting find was a few plants of pigsear on some rock faces around the bay. Some of these were removed by keen botanists, and it would be a high priority to remove the rest of them.

It was then up the hill over to West End through tall pohutukawa forest. Some clumps of *Peperomia urvilleana* were spotted here. Near the end of the track weeds once again became more prominent, including climbing asparagus (*Asparagus scandens*) and cineraria (*Pericallis x hybrida*).

ACKNOWLEDGMENTS

Thanks to everyone who contributed to the plant list on the field trip, and on other occasions, including Willie Shaw during the biological survey of the 1980s.

SELECTED BIBLIOGRAPHY

Beadel S.M. 1993: Problem plant management strategy, Whakatane District Council. Whakatane District Council. *Wildland Consultants Contract Report*. 81 pp.

Beadel S.M. 1994: Significant indigenous vegetation of the Bay of Plenty coastal zone. Bay of Plenty Regional Council. 412 pp.

Beadel S.M. 1995: Potential environmental weeds of the Bay of Plenty Region. Environment Bay of Plenty, Whakatane. *Wildland Consultants Ltd Contract Report*. 133 pp.

Beadel S.M.; Shaw W.B. and Gosling D.S. 1999: Taneatua Ecological District. Survey report for the Protected Natural Areas Programme. Department of Conservation, Rotorua. 268 pp.

Beadel S.M., Shaw W.B. 1988: Scenic and Allied Reserves of the Taneatua Ecological District, Eastern Bay of Plenty. *Biological Survey of Reserves Report No. 12*. Department of Conservation, Wellington. 138 pp.

Wildland Consultants Ltd 2006: Significant indigenous vegetation and significant habitats of indigenous fauna in the coastal environment of the Bay of Plenty region. *Wildland Consultants Ltd Contract Report No. 1345*. Prepared for Environment Bay of Plenty. Volume 1 - 553 pp, Volume 2 - maps 49 pp.

**LIMITED HAND LENS STOCKS STILL AVAILABLE
FOR SALE SO BE IN QUICK!**



We have a stock of the x10 lens, 21 mm diam. @ \$35 (+ \$3 postage)

Any profit from these sales goes to our Student Grant Fund.

Please write cheques to "Rotorua Botanical Society".

Contact Grant Milligan 07 349 4928

VASCULAR PLANTS OF KOHI POINT SCENIC RESERVE

Sarah Beadel

(Based on field visits 1983-2007)

Indigenous Species

Gymnosperms

Dacrycarpus dacrydioides

kahikatea

Dacrydium cupressinum

rimu

Monocot. trees and shrubs

Cordyline australis

ti kouka

Phormium cookianum

wharariki, mountain flax

Rhopalostylis sapida

nikau

Dicot. trees and shrubs

Alectryon excelsus var. *excelsus*

titoki

Aristotelia serrata

makomako, wineberry

Brachyglottis repanda s.s.

rangiora

Carmichaelia australis

makaka, maukoro

Coprosma grandifolia

kanono

Coprosma lucida

karamu

Coprosma repens

taupata

Coprosma robusta

karamu

Coriaria arborea var. *arborea*

tutu

Corynocarpus laevigatus

karaka

Dodonaea viscosa

akeake

Dracophyllum strictum

totorowhiti

Dysoxylum spectabile

kohekohe

Entelea arborescens

whau

Fuchsia excorticata

kotukutuku

Gaultheria antipoda

tawiniwini

Geniostoma rupestre var. *ligustrifolium*

hangehange

Griselinia lucida

puka

Hebe stricta var. *macroura*

koromiko

Hebe stricta var. *stricta*

koromiko

Hedycarya arborea

porokaiwhiri

Knightia excelsa

rewarewa

Korthalsella salicornioides

dwarf mistletoe

Kunzea ericoides

kanuka

Laurelia novae-zealandiae

pukatea

<i>Leptecophylla juniperina</i>	prickly mingimingi
<i>Leptospermum scoparium</i>	manuka
<i>Leucopogon fasciculatus</i>	mingimingi
<i>Leucopogon fraseri</i>	patotara
<i>Litsea calicaris</i>	mangeao
<i>Macropiper excelsum</i> var. <i>excelsum</i>	kawakawa
<i>Melicope ternata</i>	wharangi
<i>Melicytus ramiflorus</i> subsp. <i>ramiflorus</i>	mahoe
<i>Metrosideros excelsa</i>	pohutukawa
<i>Myoporum laetum</i>	ngaio
<i>Olearia furfuracea</i>	akepiro
<i>Olearia rani</i>	heketara
<i>Ozothamnus leptophyllus</i>	tauhinu
<i>Pimelea prostrata</i> s.s.	pinatoro
<i>Pimelea tomentosa</i>	
<i>Pittosporum crassifolium</i>	karo
<i>Pittosporum tenuifolium</i> subsp. <i>tenuifolium</i>	kohuhu
<i>Pomaderris</i> aff. <i>phyllicifolia</i>	
<i>Pseudopanax arboreus</i> var. <i>arboreus</i>	whauwhaupaku, five finger
<i>Pseudopanax crassifolius</i>	horoeaka, lancewood
<i>Pseudopanax crassifolius</i> × <i>P. lessonii</i>	
<i>Pseudopanax lessonii</i>	houpara
<i>Schefflera digitata</i>	pate
<i>Vitex lucens</i>	puriri
<i>Weinmannia racemosa</i>	kamahi

Monocot. lianes

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

Dicot. lianes

<i>Calystegia sepium</i>	pohue
<i>Calystegia soldanella</i>	panahi
<i>Clematis cunninghamii</i>	ngakau-kiore
<i>Clematis forsteri</i>	poananga
<i>Clematis paniculata</i>	puawananga
<i>Metrosideros diffusa</i>	rata
<i>Metrosideros perforata</i>	aka
<i>Muehlenbeckia australis</i>	puka
<i>Muehlenbeckia complexa</i>	pohuehue
<i>Parsonsia capsularis</i>	akakiore
<i>Rubus schmidelioides</i>	akatataramoa

Lycopods and psilopsids

Lycopodium deuterodensum

puakarimu

Lycopodium volubile

waewaekoukou

Tmesipteris sp.

Ferns

Adiantum cunninghamii

huruhuru tapairu

Adiantum fulvum

huruhuru tapairu

Adiantum hispidulum

Asplenium bulbiferum s.s.

mouku

Asplenium flaccidum s.s.

makawe

Asplenium oblongifolium

huruhuruwhenua

Asplenium polyodon

petako

Blechnum chambersii

rereti

Blechnum filiforme

panako

Blechnum fluviatile agg.

kiwikiwi

Blechnum novae-zelandiae s.s.

kiokio

Blechnum vulcanicum

korokio

Cheilanthes distans

Cheilanthes sieberi

Ctenopteris heterophylla

Cyathea cunninghamii

punui

Cyathea dealbata

ponga

Cyathea medullaris

mamaku

Deparia petersenii

Dicksonia fibrosa

wheki-ponga

Dicksonia squarrosa

wheki

Doodia australis

pukupuku

Hymenophyllum demissum

iritangi

Hymenophyllum sanguinolentum

piripiri

Hypolepis ambigua

Lastreopsis glabella

Microsorium pustulatum

kowaowao, hounds tongue fern

Microsorium scandens

mokimoki

Paesia scaberula

matata

Pellaea rotundifolia

tarawera, button fern

Pneumatopteris pennigera

pakau

Polystichum richardii

Pteridium esculentum

bracken, rarahu

Pteris macilenta (of NZ authors)

Pteris tremula

turawera, shaking brake

Pyrrosia eleagnifolia

leather-leaf fern

Rumohra adiantiformis

Orchids

Acianthus sinclairii
Caladenia sp.
Diplodinium alobulum
Diplodinium trullifolium
Drymoanthus adversus
Earina aestivalis
Earina autumnalis
Earina mucronata
Ichthyostomum pygmaeum
Microtis unifolia agg. (includes *M. aff. unifolia*)
Orthoceras novae-zeelandiae
Pterostylis banksii
Thelymitra longifolia agg.
Thelymitra pauciflora agg.

Grasses

Cortaderia fulvida toetoe
Deyeuxia avenoides
Dichelachne crinita patiti
Echinopogon ovatus
Lachnagrostis billardierei perehia
Lachnagrostis filiformis
Microlaena avenacea bush rice grass
Microlaena stipoides patiti
Oplismenus hirtellus subsp. *imbecillis*
Poa anceps subsp. *anceps*
Poa sp.
Rytidosperma gracile
Rytidosperma unarede

Sedges

Carex breviculmis
Carex dipsacea
Carex dissita
Carex flagellifera manaia
Carex geminata
Carex maorica
Carex pumila
Carex secta purei
Carex solandri
Carex testacea
Carex virgata purei

<i>Cyperus ustulatus</i>	toetoe upokotangata
<i>Eleocharis acuta</i>	
<i>Ficinia nodosa</i>	wiwi
<i>Gabnia pauciflora</i>	takahikahi
<i>Gabnia setifolia</i>	mapere
<i>Isolepis cernua</i>	
<i>Isolepis habra</i>	
<i>Isolepis prolifer</i>	
<i>Lepidosperma australe</i>	
<i>Machaerina sinclairii</i>	tuhara
<i>Morelotia affinis</i>	
<i>Schoenus maschalinus</i>	
<i>Schoenus apogon</i>	
<i>Schoenus tendo</i>	wiwi
<i>Uncinia ferruginea</i>	matau
<i>Uncinia gracilentia</i>	matau
<i>Uncinia uncinata</i>	kamu, matau a Maui

Rushes

<i>Juncus caespiticius</i>	
<i>Juncus edgariae</i>	wi
<i>Juncus pauciflorus</i>	
<i>Juncus planifolius</i>	
<i>Luzula picta</i> var. <i>picta</i>	

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

<i>Apodasmia similis</i>	oioi
<i>Arthropodium cirratum</i>	rengarenga
<i>Astelia banksii</i>	kakaha
<i>Astelia solandri</i>	kowharawhara
<i>Collospermum hastatum</i>	kahakaha
<i>Dianella nigra</i>	turutu
<i>Libertia grandiflora</i>	mikoikoi
<i>Triglochin striata</i>	arrow grass
<i>Typha orientalis</i>	raupo

Composite herbs

<i>Euchiton audax</i>	
<i>Euchiton collinus</i>	
<i>Lagenifera pumila</i>	papataniwhaniwha
<i>Pseudognaphalium luteoalbum</i> agg.	pukatea
<i>Senecio hispidulus</i>	
<i>Senecio glomeratus</i>	
<i>Senecio lautus</i>	

Senecio quadridentatus

Dicot. herbs (other than composites)

<i>Acaena anserinifolia</i>	piripiri
<i>Apium prostratum</i>	New Zealand celery
<i>Callitriche stagnalis</i>	
<i>Cardamine debilis</i>	
<i>Centella uniflora</i>	
<i>Crassula sieberiana</i>	
<i>Dichondra repens</i> agg.	Mercury Bay weed
<i>Disphyma australe</i>	horokaka
<i>Drosera auriculata</i>	
<i>Drosera binata</i>	
<i>Epilobium nummulariifolium</i>	
<i>Epilobium rotundifolium</i>	
<i>Galium propinquum</i>	mawe
<i>Geranium solanderi</i>	
<i>Gonocarpus incanus</i>	piripiri
<i>Gonocarpus micranthus</i> subsp. <i>micranthus</i>	
<i>Haloragis erecta</i> subsp. <i>erecta</i>	toatoa
<i>Lobelia anceps</i>	punakuru
<i>Oxalis exilis</i>	
<i>Oxalis rubens</i>	
<i>Pelargonium inodorum</i>	kopata
<i>Peperomia urvilleana</i>	
<i>Persicaria decipiens</i> agg.	
<i>Pratia angulata</i>	panakenake
<i>Ranunculus reflexus</i>	maruru
<i>Samolus repens</i>	makaokao
<i>Sarcocornia quinqueflora</i>	
<i>Solanum americanum</i>	
<i>Urtica incisa</i>	
<i>Wahlenbergia violacea</i>	

Adventive Species

Gymnosperms

<i>Pinus pinaster</i>	maritime pine
<i>Pinus radiata</i>	radiata pine

Dicot. trees and shrubs

<i>Acacia longifolia</i>	Sydney golden wattle
<i>Acacia mearnsii</i>	black wattle

<i>Chamaecytisus palmensis</i>	tree lucerne
<i>Cotoneaster glaucophyllus</i>	cotoneaster
<i>Erica lusitanica</i>	Spanish heath
<i>Eucalyptus</i> sp.	eucalyptus
<i>Grevillea</i> sp.	
<i>Hypericum androsaemum</i>	tutsan
<i>Ligustrum lucidum</i>	tree privet
<i>Ligustrum sinense</i>	Chinese privet
<i>Lupinus arboreus</i>	lupin
<i>Paraserianthes lophantha</i>	brush wattle
<i>Prunus</i> sp.	ornamental cherry
<i>Rubus phoenicolasius</i>	Japanese wineberry
<i>Rubus</i> sp. (<i>R. fruticosus</i> agg.)	blackberry
<i>Salix cinerea</i>	grey willow
<i>Solanum mauritianum</i>	woolly nightshade
<i>Teline monspessulana</i>	Montpellier broom
<i>Teucrium fruticans</i>	
<i>Ulex europaeus</i>	gorse

Dicot. lianes

<i>Araujia sericifera</i>	moth plant
<i>Lonicera japonica</i>	Japanese honeysuckle

Lycopods and psilopsids

<i>Sellaginella kraussiana</i>	creeping clubmoss
--------------------------------	-------------------

Grasses

<i>Agrostis capillaris</i>	browntop
<i>Agrostis stolonifera</i>	creeping bent
<i>Aira caryophylla</i>	silvery hairy grass
<i>Anthoxanthum odoratum</i>	sweet vernal
<i>Briza maxima</i>	large quaking grass
<i>Briza minor</i>	shivery grass
<i>Bromus hordeaceus</i>	soft brome
<i>Bromus willdenowii</i>	prairie brome
<i>Cortaderia selloana</i>	pampas
<i>Cynodon dactylon</i>	Indian doab
<i>Dactylis glomerata</i>	cocksfoot
<i>Ehrharta erecta</i>	veld grass
<i>Elytrigia pycnantha</i>	sea couch
<i>Elytrigia repens</i>	couch
<i>Holcus lanatus</i>	Yorkshire fog
<i>Lagurus ovatus</i>	harestail
<i>Lolium perenne</i>	rye grass

<i>Paspalum dilatatum</i>	paspalum
<i>Pennisetum clandestinum</i>	kikuyu grass
<i>Poa annua</i>	annual poa
<i>Rytidosperma racemosum</i>	
<i>Schedonorus phoenix</i>	tall fescue
<i>Sporobolus africanus</i>	ratstail
<i>Vulpia myuros</i>	vulpia hair grass

Sedges

Isolepis sepulcralis

Rushes

Juncus articulatus

Juncus effusus soft rush

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

<i>Asparagus asparagoides</i>	smilax
<i>Asparagus scandens</i>	climbing asparagus
<i>Crocasmia</i> × <i>crocasmiflora</i>	montbretia
<i>Hedychium gardnerianum</i>	kahili ginger; wild ginger
<i>Lilium formosanum</i>	
<i>Tradescantia fluminensis</i>	tradescantia

Composite herbs

<i>Achillea millefolium</i>	yarrow
<i>Arctotheca calendula</i>	cape weed
<i>Aster subulatus</i>	sea aster
<i>Carduus nutans</i>	nodding thistle
<i>Cirsium palustre</i>	marsh thistle
<i>Conyza albida</i>	fleabane
<i>Crepis capillaris</i>	hawksbeard
<i>Erigeron karvinskianus</i>	Mexican daisy
<i>Gamochaeta spicata</i>	cudweed
<i>Hypochoeris radicata</i>	catsear
<i>Lactuca serriola</i>	prickly lettuce
<i>Mycelis muralis</i>	wall lettuce
<i>Pericallis</i> × <i>hybrida</i>	cineraria
<i>Senecio bipinnatisectus</i>	Australian fireweed
<i>Senecio jacobaea</i>	ragwort
<i>Sonchus asper</i>	prickly puha, prickly sow thistle
<i>Sonchus oleraceus</i>	puha

Dicot. herbs (other than composites)

<i>Anagallis arvensis</i>	scarlet pimpernel
<i>Cakile maritima</i>	sea rocket
<i>Centaureum erythraea</i>	centaury
<i>Cotyledon orbiculata</i>	pigsear
<i>Digitalis purpurea</i>	foxglove
<i>Foeniculum vulgare</i>	fennel
<i>Galium aparine</i>	cleavers
<i>Linum bienne</i>	
<i>Lotus pedunculatus</i>	lotus
<i>Melilotus</i> sp.	
<i>Modiola caroliniana</i>	creeping mallow
<i>Myosotis sylvatica</i>	garden forget-me-not
<i>Oenothera stricta</i>	evening primrose
<i>Ornithopus perpusillum</i>	serradella
<i>Orobanche minor</i>	broomrape
<i>Oxalis pes-caprae</i>	
<i>Phytolacca octandra</i>	inkweed
<i>Plantago lanceolata</i>	narrow-leaved plantain
<i>Polycarpon tetraphyllum</i>	allseed
<i>Polygonum hydropiper</i>	water pepper
<i>Polygonum persicaria</i>	willow weed
<i>Prunella vulgaris</i>	selfheal
<i>Ranunculus repens</i>	creeping buttercup
<i>Rumex acetosella</i>	sheep's sorrel
<i>Rumex obtusifolius</i>	dock
<i>Scrophularia auriculata</i>	
<i>Silene gallica</i>	catchfly
<i>Solanum nigrum</i>	
<i>Stellaria media</i>	chickweed
<i>Trifolium arvense</i>	haresfoot trefoil
<i>Trifolium pratense</i>	red clover
<i>Trifolium repens</i>	white clover
<i>Verbascum virgatum</i>	moth mullein
<i>Verbena bonariensis</i>	purple-top
<i>Vicia sativa</i>	vetch