

DAY 6 THURSDAY 18 FEBRUARY 2016

RETURN TO PICTON

We were relieved that the overnight strong wind and rain had subsided by morning. This made our boat trip back to Picton much smoother. The poisoned wilding pine trees on some of the areas we passed stood out in stark contrast to those areas where there had been no such control.

Thank you to Jonet Ward, Arthur Adcock and the other owners of the Puriri Preservation property for allowing our group to visit and stay in the house at Puriri Bay. We had a most enjoyable trip.

Table 1 Species list for the southeastern side of Blumine Island

Ferns & Lycopods	Monocot herbs
<i>Adiantum cunninghamii</i>	<i>Astelia solandri</i>
<i>Adiantum fulvum</i>	<i>Deyeuxia avenoides</i>
<i>Asplenium bulbiferum</i>	<i>Dianella nigra</i>
<i>Asplenium flaccidum</i>	<i>Earina mucronata</i>
<i>Asplenium hookeri</i>	<i>Ficinia nodosa</i>
<i>Asplenium oblongifolium</i>	<i>Gahnia pauciflora</i>
<i>Asplenium polyodon</i>	<i>Lachnagrostis</i> sp.
<i>Blechnum chambersii</i>	<i>Phormium cookianum</i>
<i>Blechnum filiforme</i>	<i>Poa anceps</i>
<i>Cyathea dealbata</i>	<i>Trisetum antarcticum</i>
<i>Cyathea medullaris</i>	<i>Uncinia uncinata</i>
<i>Hymenophyllum demissum</i>	<i>Gastrodia</i> sp.
<i>Hymenophyllum revolutum</i>	
<i>Lastreopsis velutina</i>	Dicot herbs
<i>Leptopteris hymenophylloides</i>	<i>Crassula</i> sp.
<i>Lindsaea trichomanoides</i>	<i>Dichondra repens</i>
<i>Lycopodium volubile</i>	<i>Disphyma australe</i>
<i>Microsorium pustulatum</i>	<i>Hydrocotyle moschata</i>
<i>Microsorium scandens</i>	<i>Linum monogynum</i>
<i>Pellaea rotundifolia</i>	<i>Lobelia anceps</i>
<i>Pneumatopteris pennigera</i>	<i>Pseudognaphalium luteoalbum</i>

Polystichum neozelandicum subsp.
zerophyllum

Polystichum oculatum

Pteridium esculentum

Tmesipteris elongata

Trichomanes endlicherianum

Sarcocornia quinqueflora

Senecio hispidulus

Senecio lautus

Stellaria parviflora

Wahlenbergia gracilis

Trees, shrubs and vines

Alectryon excelsus

Beilschmedia tawa

Brachyglottis repanda

Carpodetus serratus

Clematis paniculata

Coprosma grandiflora

Coprosma lucida

Coprosma rhamnoides

Coprosma robusta

Cordyline banksii

Corynocarpus laevigatus

Dodonaea viscosa

Dysoxylum spectabile

Elaeocarpus dentatus

Freycinetia banksii

Fuchsia excorticata

Fuscospora truncata

Griselinia lucida

Hedycarya arborea

Kunzea ericoides

Leptospermum scoparium

Leucopogon fasciculatus

Lophomyrtus bullata

Macropiper excelsum

Melicytus ramiflorus

Metrosideros diffusa

Metrosideros fulgens

Metrosideros perforata

Muehlenbeckia complexa

Myrsine australis

Myrsine salicina

Olearia paniculata

Olearia rani

Ozothamnus leptophyllus

Parsonsia heterophylla

Passiflora tetrandra

Pennantia corymbosa

Pittosporum tenuifolium

Prumnopitys ferruginea

Prumnopitys taxifolia

Pseudopanax arboreus

Pseudopanax crassifolius

Pseudowintera axillaris

Rhopalostylis sapida

Ripogonum scandens

Rubus cissoides

Solanum sp.

Weinmannia racemosa

Table 2 Puriri Preservation QEII Covenant, Arapawa Island species list. Key: D, Dominant; A, Abundant; F, Frequent; O, Occasional; R, Rare; *, Exotic.

General description: A single, large block of relatively intact semi-coastal kohekohe, tawa, hinau and beech forest, and secondary kanuka forest. The southern side adjoins intact forest (eastern end) and cleared farmland (western end). The western, northern and eastern edges adjoin secondary kanuka forest. It includes virtually all the middle and upper catchment of an ephemeral stream draining into Puriri Bay, from sheltered valley floor to an exposed ridgeline. The landform includes a small area of alluvial and colluvial deposits, otherwise it is steep terrain with frequent exposures of bedrock, and a small area of broad ridge-top supporting cloud-forest. Area: 109.408 ha. Altitude: 30 m – 488 m. Grid Reference: 1711184 5439990. Compiled by Canterbury Botanical Society 14, 15 & 17/02/2016. Date: 15/02/2016. List does not include species recorded on Puriri Preservation Ltd property outside the covenant area.

Species

Gymnosperms

<i>Dacrydium cupressinum</i>	rimu	R
<i>Podocarpus hallii</i>	hall's totara	O
<i>Podocarpus totara</i>	lowland totara	R
<i>Prumnopitys ferruginea</i>	miro	O
<i>Prumnopitys taxifolia</i>	matai	O

Angiosperms

Dicots

<i>Acaena anserinifolia</i>	bidibidi	O
<i>Alectryon excelsus</i>	titoki	O
<i>Aristotelia serrata</i>	makomako, wineberry	R
<i>Beilschmiedia tawa</i>	tawa	A
<i>Brachyglottis repanda</i>	rangiora	F
<i>Cardamine</i> sp.	cress	R
<i>Carpodetus serratus</i>	putaputaweta, marbleleaf	O
<i>Centella uniflora</i>	centella	O
<i>Clematis forsteri</i>	clematis	R
<i>Clematis paniculata</i>	puawananga, clematis	O

<i>Clinopodium vulgare*</i>	wild basil	R
<i>Coprosma areolata</i>	coprosma	O
<i>Coprosma foetidissima</i>	stinkwood, coprosma	O
<i>Coprosma grandifolia</i>	kanono, coprosma	R
<i>Coprosma lucida</i>	karamu, coprosma	R
<i>Coprosma rhamnoides</i>	coprosma	A
<i>Coprosma robusta</i>	karamu, coprosma	R
<i>Coriaria arborea</i>	tutu	R
<i>Corynocarpus laevigatus</i>	karaka	R
<i>Dichondra repens</i>	dichondra	F
<i>Digitalis purpurea*</i>	foxglove	R
<i>Dodonaea viscosa</i>	akeake	R
<i>Dysoxylum spectabile</i>	kohekohe	A
<i>Elaeocarpus dentatus</i>	hinau	F
<i>Erica lusitanica*</i>	spanish heath	R
<i>Euchiton audax</i>		R
<i>Fuchsia excorticata</i>	kotukutuku, fuchsia	R
<i>Fuscospora solandri</i>	black beech	O
<i>Galium propinquum</i>	native cleavers	R
<i>Geranium molle*</i>	dovesfoot cranesbill	O
<i>Geranium</i> sp.	geranium	O
<i>Griselinia littoralis</i>	kapuka, broadleaf	O
<i>Griselinia lucida</i>	puka, large leaved broadleaf	O
<i>Hedycarya arborea</i>	porokaiwhiri, pigeonwood	O
<i>Helichrysum lanceolatum</i>		R
<i>Hoheria</i> aff. <i>sexstylosa</i>	hoheria	R
<i>Hydrocotyle heteromeria</i>	waxweed	O
<i>Hydrocotyle moschata</i>	soft waxweed	R
<i>Hypericum humifusum*</i>	trailing st john's wort	R
<i>Hypochaeris radicata*</i>	catsear	O
<i>Jacobaea vulgaris*</i>	ragwort	O
<i>Kunzea ericoides</i>	kanuka	D
<i>Lagenophora pumila</i>	papataniwhaniwha	O

<i>Laurelia novae-zelandiae</i>	pukatea	O
<i>Leptecophylla juniperina</i>	mingimingi	R
<i>Leptospermum scoparium</i>	manuka	F
<i>Leptostigma setulosa</i>		O
<i>Leucopogon fasciculatus</i>	mingimingi	F
<i>Lobelia anceps</i>	shore lobelia	R
<i>Lophomyrtus bullata</i>	ramarama	R
<i>Macropiper excelsum</i>	kawakawa	F
<i>Melicope ternata</i>	wharangi	R
<i>Melicytus ramiflorus</i>	mahoe, whiteywood	F
<i>Mentha pulegium*</i>	pennyroyal	O
<i>Metrosideros diffusa</i>	climbing rata	R
<i>Metrosideros fulgens</i>	climbing rata	F
<i>Metrosideros perforata</i>	climbing rata	O
<i>Metrosideros umbellata</i>	southern rata	R
<i>Muehlenbeckia australis</i>	pohuehue	O
<i>Mycelis muralis*</i>	wall lettuce	O
<i>Myoporum laetum</i>	ngaio	O
<i>Myrsine australis</i>	mapau, red mapau	R
<i>Myrsine salicina</i>	toro	O
<i>Nertera villosa</i>	nertera	R
<i>Olearia paniculata</i>	akiraho, golden akeake	R
<i>Olearia rani</i> var. <i>colorata</i>	heketara	F
<i>Olearia solandri</i>	coastal tree daisy	O
<i>Orobanche minor*</i>	broomrape	R
<i>Oxalis</i> sp.	oxalis	O
<i>Ozothamnus leptophyllus</i>	tauhinu	O
<i>Parsonsia heterophylla</i>	nz jasmine	O
<i>Passiflora tetrandra</i>	kohia, nz passionfruit	R
<i>Pennantia corymbosa</i>	kaikomako	F
<i>Pittosporum tenuifolium</i>	kohuhu	R
<i>Plantago lanceolata*</i>	narrow leaved plantain	O
<i>Prunella vulgaris*</i>	selfheal	O

<i>Pseudognaphalium luteoalbum</i>		O
<i>Pseudopanax arboreus</i>	whauwhaupaku, five finger	O
<i>Pseudopanax crassifolius</i>	horoeka, lancewood	R
<i>Pseudowintera axillaris</i>	horopito, lowland pepperleaf	R
<i>Ranunculus reflexus</i>	hairy buttercup	O
<i>Raukaua anomalus</i>		R
<i>Raukaua edgerleyi</i>	raukawa	R
<i>Rubus cissoides</i>	tataramoa, bush lawyer	R
<i>Schefflera digitata</i>	pate, seven finger	R
<i>Senecio hispidulus</i>	fireweed	R
<i>Senecio minimus</i>	fireweed	F
<i>Solanum nigrum</i> *	nightshade	O
<i>Stellaria parviflora</i>	nz chickweed	O
<i>Streblus heterophyllus</i>	turepo, small leaved milk tree	R
<i>Trifolium repens</i> *	white clover	R
<i>Tupeia antarctica</i>		
(host: <i>Pseudopanax arboreus</i>)	white mistletoe	R
<i>Ulex europaeus</i> *	gorse	R
<i>Urtica ferox</i>	ongaonga, bush nettle	F
<i>Wahlenberia violacea</i>	harebell	O
<i>Weinmannia racemosa</i>	kamahi	O
<u>Monocots</u>		
<i>Agrostis capillaris</i> *	browntop	O
<i>Aira caryophyllea</i> *	silver hair grass	R
<i>Anthoxanthum odoratum</i> *	sweet vernal grass	O
<i>Astelia fragrans</i>	kakaha, bush lily	R
<i>Astelia hastata</i>	tank lily	O
<i>Astelia microsperma</i>	small tank lily	R
<i>Astelia solandri</i>	kaiwharawhara, perching lily	O
<i>Carex banksiana</i>	slender hook sedge	R
<i>Carex breviculmis</i>	grassland sedge	O
<i>Carex flagellifera</i>	trip-me-up tussock, sedge	O
<i>Carex geminata</i>	rautahi, cutty grass sedge	R

<i>Carex horizontalis</i>	hook sedge	O
<i>Carex solandri</i>	forest sedge	O
<i>Carex uncinata</i>	hook sedge	O
<i>Cordyline australis</i>	ti kouka, cabbage tree	R
<i>Cynosurus echinatus*</i>	rough dogstail grass	R
<i>Dianella nigra</i>	turutu, inkberry	R
<i>Dichelachne crinita</i>	long hair plume grass	O
<i>Freycinetia banksii</i>	kiekie	D
<i>Gahnia</i> sp.	gahnia	O
<i>Gahnia xanthocarpa</i>	mapere, gahnia	O
<i>Holcus lanatus*</i>	yorkshire fog grass	O
<i>Juncus pallidus</i>	giant rush	R
<i>Juncus</i> sp.	rush	R
<i>Lepidosperma australe</i>	4 square, square stemmed sedge	R
<i>Libertia ixioides</i>	mikoikoi, NZ iris	R
<i>Lolium perenne*</i>	rye grass	O
<i>Microlaena avenacea</i>	bush rice grass	R
<i>Microlaena stipoides</i>	meadow rice grass	O
<i>Rhopalostylis sapida</i>	nikau palm	F
<i>Ripogonum scandens</i>	kareao, supplejack	F
<i>Rytidosperma</i> sp.	bristle grass	O
<i>Schoenus maschalinus</i>	dwarf bog rush	R
<u>Orchids</u>		
<i>Caladenia</i> sp. (<i>carnea</i> ?)	orchid	R
<i>Drymoanthus adversus</i>	drymoanthus orchid	R
<i>Microtis unifolia</i>	onion leaved orchid	R
<i>Pterostylis</i> sp. (<i>banksii</i> ?)	tutukiwi, greenhood orchid	R
<i>Pterostylis</i> sp. (<i>graminea</i> ?)	grass leaved greenhood orchid	R
Ferns and fern allies		
<i>Adiantum cunninghamii</i>	common maidenhair	O
<i>Arthropteris tenella</i>	jointed fern	F
<i>Asplenium bulbiferum</i>	pikopiko, hen & chicken fern	R
<i>Asplenium flaccidum</i>	hanging spleenwort	O

<i>Asplenium gracillimum</i>	pikopiko, hen & chicken fern	O
<i>Asplenium hookerianum</i> (including <i>A. colensoi</i>)	hooker's spleenwort	O
<i>Asplenium oblongifolium</i>	shining spleenwort	O
<i>Asplenium polyodon</i>	sickle spleenwort	O
<i>Blechnum chambersii</i>	nini, lance fern	O
<i>Blechnum discolor</i>	piupiu, crown fern	R
<i>Blechnum filiforme</i>	climbing hard fern	A
<i>Blechnum fluviatile</i>	kiwakiwa, creek fern	O
<i>Blechnum minus</i>	swamp kiokio	R
<i>Blechnum novae-zelandiae</i>	kiokio	R
<i>Blechnum procerum</i>	small kiokio	O
<i>Blechnum vulcanicum</i>	korokio, mountain hard fern	R
<i>Cyathea dealbata</i>	ponga, silver fern	A
<i>Cyathea medullaris</i>	mamaku	O
<i>Cyathea smithii</i>	katote, soft tree fern	R
<i>Deparia petersenii</i> subsp. <i>congrua</i>		R
<i>Dicksonia squarrosa</i>	wheki, rough tree fern	R
<i>Diplazium australe</i>		R
<i>Histiopteris incisa</i>	mata, water fern	R
<i>Hymenophyllum demissum</i>	piripiri, filmy fern	O
<i>Hymenophyllum dilatatum</i>	matua mauku, filmy fern	O
<i>Hymenophyllum flabellatum</i>	filmy fern	R
<i>Hymenophyllum rarum</i>	filmy fern	R
<i>Hymenophyllum revolutum</i>	filmy fern	O
<i>Hymenophyllum sanguinolentum</i>	piripiri, filmy fern	O
<i>Hypolepis ambigua</i>		O
<i>Hypolepis dicksonioides</i>	giant hypolepis	R
<i>Hypolepis rufobarbata</i>		R
<i>Lastreopsis glabella</i>	smooth shield fern	R
<i>Lastreopsis velutina</i>	velvet fern	O
<i>Leptopteris hymenophylloides</i>	heruheru, crape fern	R
<i>Lindsaea trichomanoides</i>		R

<i>Lycopodium volubile</i>	waewaekoukou, climbing clubmoss	R
<i>Microsorium pustulatum</i>	kowaowao, hound's tongue	R
<i>Microsorium scandens</i>	mokimoki, fragrant fern	F
<i>Notogrammitis ciliata</i>	strap fern	O
<i>Notogrammitis heterophylla</i>	comb fern	R
<i>Notogrammitis</i> sp.	strap fern	R
<i>Paesia scaberula</i>	ring fern	F
<i>Pellaea rotundifolia</i>	round leaved fern	R
<i>Phlegmariurus varius</i>	clubmoss	R
<i>Pneumatopteris pennigera</i>	piupiu. gully fern	R
<i>Polystichum neozelandicum</i> subsp. <i>zerophyllum</i>	shield fern	O
<i>Polystichum oculatum</i>	shield fern	R
<i>Polystichum vestitum</i>	punui, prickly shield fern	R
<i>Pteridium esculentum</i>	rarauhe, bracken fern	R
<i>Pteris macilenta</i>	sweet fern	R
<i>Pteris tremula</i>	shaking brake fern	R
<i>Pyrrosia eleagnifolia</i>	leather leaf fern	O
<i>Rumohra adiantiformis</i>	leathery shield fern	R
<i>Tmesipteris elongata</i>	fork fern	R
<i>Trichomanes endlicherianum</i>	filmy fern	R
<i>Trichomanes reniforme</i>	kopakopa, kidney fern	R
<i>Trichomanes venosum</i>	veined filmy fern	R
