

	Higher Plant Species List
List number	39
Location	Lake Opouahi, Tutira
Grid reference	V19 415 215
Date of visit(s)	10 July 2003
Author(s)	Mike Thorsen
Description of site	Lake on calcareous rock
Size of site (ha)	
Elevation of site	
Fragmentation of site (low, moderate, high)	Moderate
Fenced/protected?	Yes
Number of indigenous species	129
Number of exotic species	60
Total number of species	189
Percentage exotic species	31.7

Gymnosperms	Family	Threat ranking	Abundance at site	
<i>Dacrycarpus dacrydioides</i> (kahikatea)	Podocarpaceae	Not threatened	Local	
<i>Podocarpus totara</i> (totara)	Podocarpaceae	Not threatened	Occasional	

Dicot trees, shrubs and lianes	Family	Threat ranking	Abundance at site	
<i>Acacia dealbata</i> (silver wattle)*	Fabaceae	Exotic	Common	
<i>Alectryon excelsa</i> subsp. <i>excelsa</i> (titoki)	Sapindaceae	Not threatened	Rare	
<i>Aristotelia serrata</i> (wineberry)	Elaeocarpaceae	Not threatened	Occasional	
<i>Brachyglottis repanda</i> (rangiora)	Asteraceae	Not threatened	Occasional	
<i>Carmichaelia odorata</i>	Fabaceae	Not threatened	Rare	
<i>Carpodetus serrata</i> (putaputaweta)	Escalloniaceae	Not threatened	Occasional	
<i>Clematis paniculata</i>	Ranunculaceae	Not threatened	Rare	
<i>Coprosma grandifolia</i> (karamu)	Rubiaceae	Not threatened	Occasional	
<i>Coprosma lucida</i> (shining karamu)	Rubiaceae	Not threatened	Rare	
<i>Coprosma propinqua</i> X <i>C. robusta</i>	Rubiaceae	Not threatened	Occasional	
<i>Coprosma rhamnoides</i>	Rubiaceae	Not threatened	Occasional	
<i>Coprosma robusta</i>	Rubiaceae	Not threatened	Occasional	
<i>Coriaria arborea</i> (tutu)	Coriaceae	Not threatened	Common	
<i>Gaultheria antipoda</i> (snowberry)	Ericaceae	Not threatened	Local	
<i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i> (hangehange)	Loganiaceae	Not threatened	Occasional	
<i>Griselinia littoralis</i> (broadleaf)	Cornaceae	Not threatened	Occasional	
<i>Hebe stricta</i> var. <i>stricta</i> (koromiko)	Scrophulariaceae	Not threatened	Occasional	
<i>Hedycarya arborea</i> (pigeonwood)	Monimiaceae	Not threatened	Occasional	
<i>Helichrysum lanceolatum</i> var. <i>aggregatum</i> (niniao)	Asteraceae	Not threatened	Local	
<i>Hoheria populnea</i> (lacebark)	Malvaceae	Not threatened	Rare	Mainly seedlings
<i>Knightia excelsa</i> (rewarewa)	Proteaceae	Not threatened	Occasional	
<i>Kunzea ericoides</i> s.l. (kanuka)	Myrtaceae	Not threatened	Common	
<i>Leptospermum scoparium</i> (manuka)	Myrtaceae	Not threatened	Common	
<i>Leucopogon fascicularis</i> var. "southern" (mingimingi)	Epacridaceae	Not threatened	Occasional	
<i>Leucopogon fraseri</i> agg.	Epacridaceae	Not threatened	Local	
<i>Macropiper excelsum</i> subsp. <i>excelsum</i> (kawakawa)	Piperaceae	Not threatened	Occasional	

<i>Melicytus micranthus</i> (small-leaved mahoe)	Violaceae	Not threatened	Rare	
<i>Melicytus ramiflorus</i> (mahoe)	Violaceae	Not threatened	Common	
<i>Metrosideros diffusa</i> (climbing rata)	Myrtaceae	Not threatened	Rare	
<i>Metrosideros perforata</i> (climbing rata)	Myrtaceae	Not threatened	Rare	
<i>Muehlenbeckia australis</i> (large-leaved pohuehue)	Polygonaceae	Not threatened	Occasional	
<i>Myrsine australis</i> (red matipo)	Myrsinaceae	Not threatened	Occasional	
<i>Olearia furfuracea</i> var. "southern NI"	Asteraceae	Not threatened	Occasional	
<i>Passiflora tetrandra</i> (native passionfruit)	Passifloraceae	Not threatened	Rare	
<i>Pennantia corymbosa</i> (kaikomako)	Icacinaceae	Not threatened	Rare	
<i>Pittosporum ralphii</i>	Pittosporaceae	Not threatened	Occasional	
<i>Pseudopanax arboreus</i> (five-finger)	Araliaceae	Not threatened	Common	
<i>Pseudopanax crassifolius</i> (lancewood)	Araliaceae	Not threatened	Occasional	
<i>Rubus cissoides</i> (bush lawyer)	Rubiaceae	Not threatened	Rare	
<i>Rubus fruticosus</i> agg. (blackberry)*	Rubiaceae	Exotic	Occasional	
<i>Rubus schmidelioides</i> var. <i>schmidelioides</i> (bush lawyer)	Rubiaceae	Not threatened	Occasional	
<i>Schefflera digitata</i> (pate)	Araliaceae	Not threatened	Rare	
<i>Sophora tetraptera</i> (kowhai)	Fabaceae	Not threatened	Common	
<i>Urtica ferox</i> (bush nettle)	Urticaceae	Not threatened	Local	
<i>Weinmannia racemosa</i> (kamahi)	Cunoniaceae	Not threatened	Common	

Dicot herbs (inc. Composites)	Family	Threat ranking	Abundance at site	
<i>Acaena novae-zelandiae</i> (bidibid)	Rosaceae	Not threatened	Occasional	
<i>Achillea millefolium</i> (yarrow)*	Asteraceae	Exotic	Occasional	
<i>Arctium minus</i> (burdock)*	Asteraceae	Exotic	Rare	
<i>Bellis perennis</i> (everlasting daisy)*	Asteraceae	Exotic	Common	
<i>Callitriche stagnalis</i> (starwort)*	Callitrichaceae	Exotic	Occasional	
<i>Cardamine hirsuta</i> (bitter cress)*	Brassicaceae	Exotic	Rare	
<i>Carduus tenuiflorus</i> (winged thistle)*	Asteraceae	Exotic	Rare	
<i>Cerastium fontanum</i> (mouse-ear chickweed)*	Caryophyllaceae	Exotic	Occasional	
<i>Cerastium glomeratum</i> (annual chickweed)*	Caryophyllaceae	Exotic	Rare	
<i>Cirsium vulgare</i> (Scotch thistle)*	Asteraceae	Exotic	Occasional	

<i>Digitalis purpurea</i> (foxglove)*	Scrophulariaceae	Exotic	Occasional	
<i>Epilobium rotundifolium?</i>	Onagraceae	Not threatened	Local	ID Uncertain
<i>Helichrysum filicaule</i>	Asteraceae	Not threatened	Rare	
<i>Euchiton</i> sp. (Group II, example 1 of Drury 1972)	Asteraceae	Unknown	Local	
<i>Euphrasia cuneata</i>	Scrophulariaceae	Not threatened	Rare	
<i>Galium aparine</i> (cleavers)*	Rubiaceae	Exotic	Rare	
<i>Gamochaeta purpurea</i> (creeping cudweed)*	Asteraceae	Exotic	Local	
<i>Geranium</i> sp.	Geraniaceae		Rare	
<i>Gonocarpus aggregatus</i>	Haloragaceae	Not threatened	Local	
<i>Haloragis erecta</i>	Haloragaceae	Not threatened	Occasional	
<i>Hieracium pilosella</i> (mouse-ear hawkweed)*	Asteraceae	Exotic	Local	
<i>Hydrocotyle elongata</i>	Apiaceae	Not threatened	Local	
<i>Hypericum androsaemum</i> (tutsan)*	Clusiaceae	Exotic	Rare	
<i>Hypochoeris radicata</i> (catsear)*	Asteraceae	Exotic	Common	
<i>Lactuca virosa</i> (acrid lettuce)*	Asteraceae	Exotic	Rare	
<i>Lapsana communalis</i> (nipplewort)	Asteraceae	Exotic	Occasional	
<i>Lathyrus tingitanus</i> (Tangier pea)*	Fabaceae	Exotic	Rare	ID Unconfirmed, First record for Hawke's Bay?
<i>Linum catharticum</i> (purging flax)*	Linaceae	Exotic	Local	
<i>Lotus peduncularis</i> (lotus)*	Fabaceae	Exotic	Occasional	
<i>Ludwigia palustris</i> *	Onagraceae	Exotic	Local	ID Uncertain
<i>Mycelis muralis</i> (wall lettuce)*	Asteraceae	Exotic	Occasional	
<i>Myosotis laxa</i> (water forget-me-not)*	Boraginaceae	Exotic	Occasional	
<i>Oxalis magellanica</i>	Oxalidaceae	Not threatened	Rare	
<i>Parentucellia viscosa</i> (tarweed)*	Scrophulariaceae	Exotic	Local	
<i>Plantago australis</i> (swamp plantain)*	Plantaginaceae	Exotic	Local	
<i>Plantago lanceolata</i> (narrow-leaved plantain)*	Plantaginaceae	Exotic	Occasional	
<i>Plantago raoulii</i>	Plantaginaceae	Not threatened	Occasional	
<i>Plantago raoulii</i>	Plantaginaceae	Not threatened	Rare	
<i>Polygonum hydropiper</i> (water pepper)*	Polygonaceae	Exotic	Occasional	
<i>Prunella vulgaris</i> (selfheal)*	Lamiaceae	Exotic	Common	
<i>Ranunculus glabrifolius</i>	Ranunculaceae	Not threatened	Rare	
<i>Ranunculus reflexus</i> (hairy buttercup)	Ranunculaceae	Not threatened	Local	
<i>Ranunculus repens</i> (creeping buttercup)*	Ranunculaceae	Exotic	Occasional	
<i>Rorippa nasturtium-aquaticum</i> (watercress)*	Brassicaceae	Exotic	Occasional	
<i>Scandia rosifolia</i> form (i)	Apiaceae	Sparse	Rare	On rock face beside track

<i>Senecio binnatisectus</i> (Australian fireweed)*	Asteraceae	Exotic		
<i>Senecio jacobea</i> (ragwort)*	Asteraceae	Exotic	Occasional	
<i>Sherardia arvensis</i> (field madder)*	Rubiaceae	Exotic	Occasional	
<i>Solanum americanum</i>	Solanaceae	Not threatened	Occasional	
<i>Solanum aviculare</i> f. "aviculare" (poroporo)	Solanaceae	Not threatened	Rare	
<i>Solanum nigrum</i> (black nightshade)*	Solanaceae	Exotic	Rare	
<i>Soliva sessilis</i> (Onehunga weed)*	Asteraceae	Exotic	Occasional	
<i>Sonchus asper</i> (prickly sow thistle)*	Asteraceae	Exotic	Rare	
<i>Sonchus oleraceus</i> *	Asteraceae	Exotic	Occasional	
<i>Stellaria media</i> (chickweed)*	Caryophyllaceae	Exotic	Rare	
<i>Stellaria parviflora</i>	Caryophyllaceae	Not threatened	Rare	
<i>Taraxacum officinale</i> (dandelion)*	Asteraceae	Exotic	Occasional	
<i>Trifolium arvense</i> (haresfoot trefoil)*	Fabaceae	Exotic	Rare	
<i>Trifolium repens</i> (white clover)*	Fabaceae	Exotic	Occasional	
<i>Urtica incisa</i> (nettle)	Urticaceae	Not threatened	Local	
<i>Verbascum thaspis</i> (woolly mullein)*	Scrophulariaceae	Exotic	Occasional	
<i>Viola lyallii</i>	Violaceae	Not threatened	Rare	
<i>Wahlenbergia</i> sp.	Campanulaceae	Not threatened	Local	

Monocots (except orchids, grass)	Family	Threat ranking	Abundance at site	
<i>Cordyline australis</i> (cabbage tree)	Agavaceae	Not threatened	Occasional	
<i>Elodea canadensis</i> (Canadian pondweed)	Hydrocharitaceae	Exotic	Common	
<i>Hydrilla verticillata</i> (hydrilla)*	Hydrocharitaceae	Exotic	Common	
<i>Libertia grandiflora</i>	Iridaceae	Not threatened	Local	
<i>Libertia micrantha</i>	Iridaceae	Not threatened	Local	
<i>Luzula</i> sp.	Juncaceae		Local	
<i>Potamogeton cheesemanii</i>	Potamogetonaceae	Not threatened	Hofstra <i>et al.</i> , 2002	
<i>Potamogeton crispus</i>	Potamogetonaceae	Exotic	Hofstra <i>et al.</i> , 2002	
<i>Potamogeton ochreateus</i>	Potamogetonaceae	Not threatened	Hofstra <i>et al.</i> , 2002	
<i>Ripogonum scandens</i> (supplejack)	Smilacaceae	Not threatened	Local	
<i>Typha orientalis</i> (bulrush)	Typhaceae	Not threatened	Local	

Orchids	Family	Threat ranking	Abundance at site	
<i>Diplodium alobulum</i> (ex. <i>Pterostylis alobula</i>)	Orchidaceae	Not threatened	Rare	
<i>Earina mucronata</i>	Orchidaceae	Not threatened	Rare	
<i>Thelymitra longifolia</i>	Orchidaceae	Not threatened	Rare	
<i>Thelymitra</i> sp.	Orchidaceae		Rare	

Grass	Family	Threat ranking	Abundance at site	
<i>Dactylis glomerata</i> (cocksfoot)*	Poeae	Exotic	Common	
<i>Elymus rectisectus</i>	Hordeae	Not threatened	Occasional	
<i>Festuca rubra</i> subsp. <i>commutata</i> (Chewings fescue)*	Poeae	Exotic	Local	
<i>Glyceria declinata</i> (glaucous sweet grass)*	Meliceae	Exotic	Occasional	Some plants terrestrial
<i>Hierachloe redolens</i>	Phalaridinae	Not threatened	Rare	
<i>Holcus lanatus</i> (Yorkshire fog)*	Aveninae	Exotic	Occasional	
<i>Lachnagrostis filiformis</i> (tumble grass)	Agrostidinae	Not threatened	Rare	
<i>Paspalum dilatatum</i> *	Paniceae	Exotic	Occasional	
<i>Poa anceps</i> subsp. <i>anceps</i>	Poeae	Not threatened	Occasional	
<i>Poa annua</i> (annual poa)*	Poeae	Exotic	Local	
<i>Poa trivialis</i> (rough-stalked poa)*	Poeae	Exotic	Local	
<i>Rytidosperma racemosum</i> *	Danthoniinae	Exotic	Occasional	
<i>Rytidosperma</i> sp.*	Danthoniinae	Exotic	Common	

Rushes and Sedges	Family	Threat ranking	Abundance at site	
<i>Baumea rubiginosa</i>	Cyperaceae	Not threatened	Hofstra <i>et al.</i> , 2002	
<i>Baumea teretifolia</i> (pakihi rush)	Cyperaceae	Not threatened	Rare	
<i>Carex geminata</i> "large"	Cyperaceae	Not threatened	Local	
<i>Carex geminata</i> s.s.	Cyperaceae	Not threatened	Occasional	
<i>Carex secta</i> (niggerhead)	Cyperaceae	Not threatened	Common	
<i>Carex solandri</i>	Cyperaceae	Not threatened	Rare	
<i>Carex virgata</i>	Cyperaceae	Not threatened	Rare	
<i>Eleocharis acuta</i> (sharp spike-sedge)	Cyperaceae	Not threatened	Local	
<i>Isolepis reticularis</i>	Cyperaceae	Not threatened	Rare	
<i>Juncus acuminatus</i> (sharp-fruited rush)*	Juncaceae	Exotic	Local	
<i>Juncus articulatus</i> (jointed rush)*	Juncaceae	Exotic	Local	
<i>Juncus edgarae</i> (<i>J. gregiflorus</i>)	Juncaceae	Not threatened	Occasional	
<i>Juncus effusus</i> (soft rush)*	Juncaceae	Exotic	Occasional	
<i>Juncus tenuis</i> (slender rush)*	Juncaceae	Exotic	Local	
<i>Luzula</i> sp.	Juncaceae	Not threatened	Occasional	
<i>Machaerina sinclairii</i>	Cyperaceae	Not threatened	Rare	
<i>Morelotia affinis</i>	Cyperaceae	Not threatened	Rare	
<i>Schoenus maschalinus</i> (dwarf bog-rush)	Cyperaceae	Not threatened	Local	
<i>Uncinia fuscovaginata</i>	Cyperaceae	Not threatened	Occasional	
<i>Uncinia uncinata</i> (hook grass)	Cyperaceae	Not threatened	Occasional	

Ferns and allies	Family	Threat ranking	Abundance at site	
<i>Adiantum cunninghamii</i> (common maidenhair fern)	Pteridaceae	Not threatened	Occasional	

<i>Asplenium bulbiferum</i> subsp. <i>bulbiferum</i> (hen and chickens fern)	Aspleniaceae	Not threatened	Occasional	
<i>Asplenium bulbiferum</i> subsp. <i>gracillimum</i>	Aspleniaceae	Not threatened	Rare	
<i>Asplenium flaccidum</i> subsp. <i>flaccidum</i> (hanging spleenwort)	Aspleniaceae	Not threatened	Occasional	
<i>Asplenium hookerianum</i> var. <i>colensoi</i>	Aspleniaceae	Not threatened	Local	
<i>Asplenium hookerianum</i> var. <i>hookerianum</i>	Aspleniaceae	Not threatened	Local	
<i>Asplenium oblongifolium</i> (shining spleenwort)	Aspleniaceae	Not threatened	Occasional	
<i>Blechnum fluviatile</i> agg.	Blechnaceae	Not threatened	Occasional	
<i>Blechnum membranaceum</i>	Blechnaceae	Not threatened	Occasional	
<i>Blechnum minus</i> (swamp kiokio)	Blechnaceae	Not threatened	Local	
<i>Blechnum novaezelandiae</i> (kiokio)	Blechnaceae	Not threatened	Occasional	
<i>Botrychium bifforme</i>	Ophioglossaceae	Locally Significant	Rare	
<i>Cyathea dealbata</i> (silver fern)	Cyatheaceae	Not threatened	Occasional	
<i>Cyathea medullaris</i> (mamaku)	Cyatheaceae	Not threatened	Occasional	
<i>Cyathea smithii</i> (soft fern)	Cyatheaceae	Not threatened	Rare	
<i>Dicksonia fibrosa</i> (wheki-ponga)	Dicksoniaceae	Not threatened	Rare	
<i>Dicksonia squarrosa</i> (wheki)	Dicksoniaceae	Not threatened	Local	
<i>Grammitis ciliata</i>	Grammitidaceae	Not threatened	Rare	
<i>Histiopteris incisa</i> (water fern, mata)	Dennstaedtiaceae	Not threatened	Local	
<i>Hymenophyllum revolutum</i>	Hymenophyllaceae	Not threatened	Local	
<i>Lastreopsis glabella</i>	Dryopteridaceae	Not threatened	Rare	
<i>Lycopodiella scariosum</i>	Lycopodiaceae	Not threatened	Local	
<i>Microsorium pustulatum</i> (hounds-tongue fern)	Polypodiaceae	Not threatened	Occasional	
<i>Paesia scaberula</i> (hard fern)	Dennstaedtiaceae	Not threatened	Local	
<i>Pellaea rotundifolia</i>	Pteridaceae	Not threatened	Rare	
<i>Pneumatopteris pennigera</i>	Thelypteridaceae	Not threatened	Occasional	
<i>Polystichum richardii</i> (common shield fern)	Dryopteridaceae	Not threatened	Rare	
<i>Polystichum sylvaticum</i>	Dryopteridaceae	Not threatened	Rare	
<i>Pteridium esculentum</i> (bracken)	Dennstaedtiaceae	Not threatened	Occasional	
<i>Pteris tremula</i> (shaking brake fern)	Pteridaceae	Not threatened	Rare	
<i>Pyrrosia elaeagnifolia</i> (serpent's tongue fern)	Polypodiaceae	Not threatened	Occasional	

Hofstra, D.E; Champion, P.D; Clayton, J.S. 2002. hydrilla - An operational plan for containment and eradication research (Draft).