

## Schedule 4 – Significant indigenous biodiversity

This schedule identifies indigenous species, ecosystems and habitats identified as being regionally significant for their coastal indigenous biodiversity values.

Schedule 4A includes a table identifying coastal indigenous flora and fauna species identified as threatened or at risk of extinction as defined by the New Zealand Threat Classification System and the International Union for Conservation of Nature and Natural Resources classification. Regionally Distinctive species are also included in this table. Naturally rare and uncommon ecosystem types found on the Taranaki coast are listed below the table.

Schedule 4B identifies sensitive marine benthic habitats found within or in the vicinity of the Taranaki CMA.

### Schedule 4A – Significant species and ecosystems

#### Threatened, At Risk and Regionally Distinctive Species

	Group	Scientific name	NZTCS <sup>1</sup> category and (conservation status)	IUCN <sup>2</sup> Classification	Regionally Distinctive	Found			
						Estuary (CMA or Land)	Intertidal (CMA)	Coastal bioclimatic zone (above CMA)	Marine (CMA)
Bird	Antarctic prion	<i>Pachyptila desolata</i>	At Risk ((Naturally Uncommon))	Least concern					✓
	Antipodean wandering albatross	<i>Diomedea antipodensis antipodensis</i>	Threatened (Nationally Critical)	Vulnerable					✓
	Australasian bittern	<i>Botaurus poiciloptilus</i>	Threatened (Nationally Critical)	Endangered	✓	CMA, Land		✓	
	Banded dotterel	<i>Charadrius bicinctus bicinctus</i>	Threatened (Nationally Vulnerable)		✓	CMA, Land	✓	✓	
	Banded rail	<i>Gallirallus philippensis assimilis</i>	At Risk (Declining)		✓	CMA, Land			
	Black petrel	<i>Procellaria parkinsoni</i>	Threatened (Nationally Vulnerable)	Vulnerable					✓
	Black shag	<i>Phalacrocorax carbo novaehollandiae</i>	At Risk (Naturally Uncommon)			CMA, Land		✓	
	Black-fronted tern	<i>Chlidonias albostratus</i>	Threatened (Nationally Endangered)	Endangered	✓	CMA, Land	✓	✓	✓
	Broad-billed prion	<i>Pachyptila vittata</i>	At Risk (Relict)	Least concern					✓
	Buller's shearwater	<i>Puffinus bulleri</i>	At Risk (Naturally Uncommon)	Vulnerable					✓
	Caspian tern	<i>Hydroprogne caspia</i>	Threatened (Nationally Vulnerable)	Least concern	✓	CMA, Land	✓	✓	✓

<sup>1</sup> New Zealand Threat Classification System.

<sup>2</sup> International Union for Conservation of Nature and Natural Resources.

	Group	Scientific name	NZTCS <sup>1</sup> category and (conservation status)	IUCN <sup>2</sup> Classification	Regionally Distinctive	Found			
						Estuary (CMA or Land)	Intertidal (CMA)	Coastal bioclimatic zone (above CMA)	Marine (CMA)
	Eastern bar-tailed godwit	<i>Limosa lapponica baueri</i>	At Risk (Declining)			CMA, Land	✓	✓	
	Fairy prion	<i>Pachyptila turtur</i>	At Risk (Relict)	Least concern					✓
	Far-eastern ew	<i>Numenius madagascariensis</i>	Non-resident Native (Migrant)	Vulnerable		CMA, Land	✓		
	Flesh-footed shearwater	<i>Puffinus carneipes</i>	Threatened (Nationally Vulnerable)	Least concern					✓
	Fluttering shearwater	<i>Puffinus gavia</i>	At Risk (Relict)	Least concern				✓	✓
	Grey-faced petrel	<i>Pterodroma macroptera gouldi</i>	Not Threatened		✓			✓	✓
	Grey-headed mollymawk	<i>Thalassarche chrysostoma</i>	Threatened (Nationally Vulnerable)	Endangered A4bd					✓
	Hutton's Shearwater	<i>Puffinus huttoni</i>	Threatened (Nationally Vulnerable)	Endangered					✓
	Lesser knot	<i>Calidris canutus rogersi</i>	Threatened (Nationally Vulnerable)			CMA, Land	✓	✓	
	Little black shag	<i>Phalacrocorax sulcirostris</i>	At Risk (Naturally Uncommon)	Least concern		CMA, Land		✓	
	New Zealand pipit	<i>Anthus novaeseelandiae novaeseelandiae</i>	At Risk (Declining)			CMA, Land		✓	
	New Zealand white-faced storm petrel	<i>Pelagodroma marina maoriana</i>	At Risk (Relict)						✓
	North Island fernbird	<i>Bowdleria punctata vealeae</i>	At Risk (Declining)		✓	Land			
	Northern blue penguin	<i>Eudyptula minor iredalei</i>	At Risk (Declining)			CMA, Land	✓	✓	✓
	Northern diving petrel	<i>Pelecanoides urinatrix urinatrix</i>	At Risk (Relict)					✓	✓
	Northern giant petrel	<i>Macronectes halli</i>	At Risk (Naturally Uncommon)	Least concern					✓
	Northern New Zealand dotterel	<i>Charadrius obscurus aquilonius</i>	At Risk (Recovering)		✓	CMA, Land	✓	✓	
	Northern royal albatross	<i>Diomedea sanfordi</i>	At Risk (Naturally Uncommon)	Endangered					✓
	Pied shag	<i>Phalacrocorax varius varius</i>	Threatened (Nationally Vulnerable)			CMA, Land	✓	✓	
	Pied stilt	<i>Himantopus himantopus leucocephalus</i>	At Risk (Declining)			CMA, Land	✓	✓	
	Red-billed gull	<i>Larus novaehollandiae scopulinus</i>	Threatened (Nationally Vulnerable)			CMA, Land	✓	✓	✓
	Reef heron	<i>Egretta sacra sacra</i>	Threatened (Nationally Endangered)		✓	CMA, Land	✓	✓	
	Royal spoonbill	<i>Platalea regia</i>	At Risk (Naturally Uncommon)	Least concern	✓	CMA, Land	✓	✓	
	Salvin's Albatross	<i>Thalassarche salvini</i>	Threatened, nationally critical	Vulnerable					✓

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						Estuary (CMA or Land)	Intertidal (CMA)	Coastal bioclimatic zone (above CMA)	Marine (CMA)
	Sooty shearwater	<i>Puffinus griseus</i>	At Risk (Declining)	Near threatened				✓	✓
	Sooty tern	<i>Onychoprion fuscatus serratus</i>	At Risk (Naturally Uncommon)				✓		✓
	South Island pied oystercatcher	<i>Haematopus finschi</i>	At Risk (Declining)	Near threatened		CMA, Land	✓	✓	
	Spotless Crake	<i>Porzana tabuensis tabuensis</i>	At Risk (Declining)		✓	CMA, Land			✓
	Variable oystercatcher	<i>Haematopus unicolor</i>	At Risk (Recovering)	Least concern	✓	CMA, Land	✓	✓	
	Westland Petrel	<i>Procellaria westlandica</i>	At Risk, Nationally uncommon	Vulnerable					✓
	White heron	<i>Ardea modesta</i>	Threatened (Nationally Critical)		✓	CMA, Land			
	White-capped Albatross	<i>Thalassarche cauta steadi</i>	At Risk (Declining)	Near threatened					✓
	White-chinned Petrel	<i>Procellaria aequinoctialis</i>	At Risk (Declining)	Vulnerable					✓
	Wrybill	<i>Anarhynchus frontalis</i>	Threatened (Nationally Vulnerable)	Vulnerable	✓	CMA, Land	✓	✓	
Marine mammal	Bottlenose dolphin	<i>Tursiops truncatus</i>	Threatened (Nationally Endangered)						✓
	Killer whale	<i>Orcinus orca Type A</i>	Threatened (Nationally Critical)						✓
	<b>Māui dolphin</b>	<i>Cephalorhynchus hectori maui</i>	Threatened (Nationally Critical)	Endangered	✓				✓
	New Zealand fur seal	<i>Arctocephalus forsteri</i>	Not Threatened	Least concern	✓				✓
	Southern right whale	<i>Eubalaena australis</i>	Threatened (Nationally Endangered)	Least concern					✓
	Pygmy blue whale	<i>Balaenoptera musculus brevicauda</i>	Non-resident Native (Migrant)	Critically endangered	✓				✓
Freshwater mollusc	Freshwater mussel	<i>Echyridella menziesii</i>	At Risk (Declining)	Least concern	✓	CMA		✓	✓
Marine Invertebrate	Cushion star	<i>Eurygonias hyalacanthus</i>	At Risk (Naturally Uncommon)						✓
	Hydrozoan	<i>Nemertesia elongata</i>	At Risk (Naturally Uncommon)						✓
	Spider crab	<i>Leptomithrax tuberculatus mortenseni</i>	At Risk (Naturally Uncommon)						✓

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						Estuary (CMA or Land)	Intertidal (CMA)	Coastal bioclimatic zone (above CMA)	Marine (CMA)
	Stony coral	<i>Madrepora oculata</i>	Threatened (Nationally Vulnerable)						✓
	Whelk	<i>Cominella quoyana griseicalx</i>	At Risk (Naturally Uncommon)						✓
Invertebrate	Katipo spider	<i>Latrodectus katipo</i>	At Risk (Declining)		✓	Land		✓	
	Moth	<i>Notoreas perornata</i> s.l., TK/NN populations	Threatened (Nationally Vulnerable)		✓			✓	✓
Freshwater fish	Banded <b>kōkōpu</b>	<i>Galaxias fasciatus</i>	Not Threatened	Least concern	✓	CMA		✓	✓
	Bluegill bully	<i>Gobiomorphus hubbsi</i>	At Risk (Declining)	Vulnerable A4bc	✓			✓	✓
	Giant <b>kōkōpu</b>	<i>Galaxias argenteus</i>	At Risk (Declining)	Vulnerable A4ac	✓	CMA		✓	✓
	<b>Īnanga</b>	<i>Galaxias maculatus</i>	At Risk (Declining)	Least concern		CMA		✓	✓
	Koaro	<i>Galaxias brevipinnis</i>	At Risk (Declining)	Least concern	✓	CMA		✓	✓
	Lamprey	<i>Geotria australis</i>	Threatened (Nationally Vulnerable)	Data Deficient	✓	CMA		✓	✓
	Longfin eel	<i>Anguilla dieffenbachii</i>	At Risk (Declining)			CMA		✓	✓
	Redfin bully	<i>Gobiomorphus huttoni</i>	At Risk (Declining)	Near threatened		CMA		✓	✓
	Shortjaw <b>kōkōpu</b>	<i>Galaxias postvectis</i>	Threatened (Nationally Vulnerable)	Endangered	✓	CMA		✓	✓
	Torrent fish	<i>Cheimarrichthys fosteri</i>	At Risk (Declining)	Vulnerable A2bc		CMA		✓	✓
Reptile	Brown skink	<i>Oligosoma zelandicum</i>	At Risk (Declining)	Least concern	✓			✓	
	Common skink	<i>Oligosoma polychroma</i>	Not Threatened		✓			✓	
	Goldstripe gecko	<i>Woodworthia chrysoretica</i>	At Risk (Relict)		✓			✓	
	Ornate skink	<i>Oligosoma ornatum</i>	At Risk (Declining)		✓			✓	
	Tamatea skink	<i>Oligosoma aff. infrapunctatum</i> "Southern North Island"	Threatened (Nationally Vulnerable)		✓			✓	
Vascular Plant	Button daisy	<i>Leptinella dispersa</i> subsp. <i>rupestris</i>	Threatened (Nationally Critical)					✓	
	Coastal cress	<i>Lepidium flexicaule</i>	Threatened (Nationally Endangered)					✓	
	Coastal kowhai	<i>Sophora chathamica</i>	Not Threatened		✓			✓	
	Coastal tree daisy	<i>Olearia solandri</i>	Not Threatened		✓			✓	

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						Estuary (CMA or Land)	Intertidal (CMA)	Coastal bioclimatic zone (above CMA)	Marine (CMA)
	Coastal woodrush	<i>Luzula banksiana</i> var. <i>banksiana</i>	Not Threatened		✓			✓	
	Cooks scury grass	<i>Lepidium oleraceum</i>	Threatened (Nationally Endangered)					✓	
	Coprosma hybrid	<i>Coprosma</i> aff. <i>acerosa</i> (AK 36799; Taranaki)	At Risk (Naturally Uncommon)		✓			✓	
	Crassula mataikona	<i>Crassula mataikona</i>	At Risk (Naturally Uncommon)					✓	
	Creeping button daisy	<i>Leptinella dispersa</i> subsp. <i>dispersa</i>	At Risk (Naturally Uncommon)					✓	
	Dwarf buttercup	<i>Ranunculus recens</i>	Threatened (Nationally Vulnerable)		✓			✓	
	Dwarf musk	<i>Mazus novaezeelandiae</i> subsp. <i>Impolitus</i>	Threatened (Nationally Vulnerable)					✓	
	Eelgrass	<i>Zostera muelleri</i> subsp. <i>novazelandica</i>	At Risk (Declining)			✓	✓		✓
	Einadia	<i>Einadia allanii</i>	At Risk (Naturally Uncommon)					✓	
	Euchiton	<i>Euchiton polylepis</i>	At Risk (Naturally Uncommon)					✓	
	Flat leaved rush	<i>Juncus caespiticius</i>	Not Threatened		✓			✓	
	Forget-me-not	<i>Myosotis pansa</i> var. <i>pansa</i>	Threatened (Nationally Endangered)					✓	
	Golden sand sedge	<i>Ficinia spiralis</i>	At Risk (Declining)					✓	
	Kauri sedge	<i>Schoenus tendo</i>	Not Threatened		✓			✓	
	Koheriki	<i>Scandia rosifolia</i>	At Risk (Declining)					✓	
	Koromiko	<i>Hebe stricta</i> var. <i>macroura</i>	Not Threatened		✓			✓	
	Leafless rush	<i>Juncus pauciflorus</i>	Threatened (Nationally Vulnerable)					✓	
	Limosella 'Manutahi'	<i>Limosella (b)</i> (CHR 55038; Manutahi)	Threatened (Nationally Critical)					✓	
	Minute succulent	<i>Crassula manaia</i>	Threatened (Nationally Vulnerable)					✓	
	Myosotis	<i>Myosotis brevis</i>	Threatened (Nationally Vulnerable)					✓	
	New Zealand hazel	<i>Pomaderris apetala</i> subsp. <i>maritima</i>	Threatened (Nationally Critical)		✓			✓	
	New Zealand mint	<i>Mentha cunninghamii</i>	At Risk (Declining)					✓	
	Ngaio	<i>Myoporum laetum</i>	Not Threatened		✓			✓	

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						Estuary (CMA or Land)	Intertidal (CMA)	Coastal bioclimatic zone (above CMA)	Marine (CMA)
	NZ spinach	<i>Tetragonia tetragonoides</i>	At Risk (Naturally Uncommon)					✓	
	Otakeho wollyhead	<i>Craspedia 'Otakeho'</i>	Not listed (Not listed)		✓			✓	
	Parahebe	<i>Parahebe lanceolata</i>	Not Threatened		✓			✓	
	<b>Paritūtū</b> korokio	<i>Corokia cotoneaster</i>	Not Threatened		✓			✓	
	Peperomia	<i>Peperomia urvilleana</i>	Not Threatened		✓			✓	
	Pickly sow thistle	<i>Sonchus kirkii</i>	At Risk (Declining)					✓	
	Pigmy forget-me-not	<i>Myosotis pygmaea</i>	At Risk (Declining)					✓	
	Pinatoro	<i>Pimelea carnososa</i>	Not Threatened		✓			✓	
	Round-leaved selliera	<i>Selliera rotundifolia</i>	At Risk (Declining)					✓	
	Saltmarsh ribbonwood	<i>Plagianthus divaricatus</i>	Not Threatened		✓	✓		✓	
	Sand coprosma	<i>Coprosma acerosa</i>	At Risk (Declining)					✓	
	Sand daphne	<i>Pimelea villosa</i>	At Risk (Declining)					✓	
	Sand gunnera	<i>Gunnera arenaria</i>	At Risk (Declining)					✓	
	Sand spike sedge	<i>Eleocharis neozelandica</i>	At Risk (Declining)					✓	
	Sand tussock	<i>Poa billardierei</i>	At Risk (Declining)					✓	
	Sea sedge	<i>Carex litorosa</i>	At Risk (Declining)					✓	
	Sebaea	<i>Sebaea ovata</i>	Threatened (Nationally Critical)					✓	
	Shore hard fern	<i>Blechnum blechnoides</i>	Not Threatened		✓			✓	
	Shore koromiko	<i>Hebe elliptica</i>	Not Threatened		✓			✓	
	Shore spurge	<i>Euphorbia glauca</i>	At Risk (Declining)					✓	
	Shore stonecrop	<i>Crassula peduncularis</i>	Threatened (Nationally Critical)					✓	
	Sneezeweed	<i>Centipeda minima subsp. minima</i>	Threatened (Nationally Endangered)					✓	
	Titirangi	<i>Hebe speciosa</i>	Threatened (Nationally Vulnerable)					✓	
	Turf carrot	<i>Chaerophyllum (a)</i> (CHR 364086; "minute flower")	At Risk (Naturally Uncommon)					✓	

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						Estuary (CMA or Land)	Intertidal (CMA)	Coastal bioclimatic zone (above CMA)	Marine (CMA)
	Tussock sedge	<i>Schoenus carsei</i>	Threatened (Nationally Endangered)					✓	

## Rare and uncommon ecosystem types found on the Taranaki coast

### Coastal systems:

- Active sand dunes
- Coastal turfs
- Shingle beaches
- Coastal rock stacks
- Coastal cliffs of acid rocks

### Vertebrate induced:

- Seabird burrowed soils
- Marine mammal rookeries and haul outs.

### Coastal wetlands:

- Dune slacks
- Estuaries
- Lagoons
- Ephemeral wetlands

Detailed descriptions of these ecosystem types can be found at <http://www.landcareresearch.co.nz/publications/factsheets/rare-ecosystems>.