

Schedule 6 – Significant indigenous biodiversity

This schedule identifies indigenous species, ecosystems and habitats identified as being regionally significant for their coastal indigenous biodiversity values. Schedule 6A includes a table identifying coastal indigenous flora and fauna species identified as threatened or at risk of extinction and another table identifying naturally rare and uncommon ecosystem types found on the Taranaki coast. Schedule 6B identifies sensitive marine benthic habitats.

Schedule 6A

Threatened and At Risk Species

	Group	Scientific Name	NZTCS ¹ category and (conservation status)	IUCN ² 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					✓
	Black petrel	<i>Procellaria parkinsoni</i>	Threatened (Nationally Vulnerable)	Vulnerable					✓
	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	✓	✓	✓
	Fairy prion	<i>Pachyptila turtur</i>	At Risk (Relict)	Least concern					✓
	Flesh-footed shearwater	<i>Puffinus carneipes</i>	Threatened (Nationally Vulnerable)	Least concern					✓
	Grey-faced petrel	<i>Pterodroma macroptera gouldi</i>	Not Threatened		✓			✓	✓
	Grey-headed mollymawk	<i>Thalassarche chrysostoma</i>	Threatened (Nationally Vulnerable)	Endangered A4bd					✓
	New Zealand white-faced storm petrel	<i>Pelagodroma marina maoriana</i>	At Risk (Relict)						✓
	Northern royal albatross	<i>Diomedea sanfordi</i>	At Risk (Naturally Uncommon)	Endangered					✓

¹ New Zealand Threat Classification System.

² International Union for Conservation of Nature and Natural Resources.

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					Estuary (CMA or Land)	Intertidal (CMA)	Coastal bioclimatic zone (above CMA)	Marine (CMA)
Sooty tern	<i>Onychoprion fuscata serratus</i>	At Risk (Naturally Uncommon)				✓		✓
Southern royal albatross	<i>Diomedea epomophora epomophora</i>	At Risk (Naturally Uncommon)	Vulnerable					✓
Banded dotterel	<i>Charadrius bicinctus bicinctus</i>	Threatened (Nationally Vulnerable)		✓	CMA, Land	✓	✓	
Black-fronted tern	<i>Chlidonias albostratus</i>	Threatened (Nationally Endangered)	Endangered	✓	CMA, Land	✓	✓	✓
Far-eastern curlew	<i>Numenius madagascariensis</i>	Non-resident Native (Migrant)	Vulnerable		CMA, Land	✓		
Fluttering shearwater	<i>Puffinus gavia</i>	At Risk (Relict)	Least concern				✓	✓
Lesser knot	<i>Calidris canutus rogersi</i>	Threatened (Nationally Vulnerable)			CMA, 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					✓
Pied shag	<i>Phalacrocorax varius varius</i>	Threatened (Nationally Vulnerable)			CMA, Land	✓	✓	
Sooty shearwater	<i>Puffinus griseus</i>	At Risk (Declining)	Near threatened				✓	✓
White-fronted tern	<i>Sterna striata striata</i>	At Risk (Declining)				✓	✓	✓
Banded rail	<i>Gallirallus philippensis assimilis</i>	At Risk (Declining)		✓	CMA, Land			
Bittern	<i>Botaurus poiciloptilus</i>	Threatened (Nationally Endangered)	Endangered	✓	CMA, Land			
Black shag	<i>Phalacrocorax carbo novaehollandiae</i>	At Risk (Naturally Uncommon)			CMA, Land		✓	
Eastern bar-tailed godwit	<i>Limosa lapponica baueri</i>	At Risk (Declining)			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		✓	
North Island fembird	<i>Bowdleria punctata vealeae</i>	At Risk (Declining)		✓	Land			
Northern New Zealand dotterel	<i>Charadrius obscurus aquilonius</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		✓	CMA, Land	✓	✓	

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						Estuary (CMA or Land)	Intertidal (CMA)	Coastal bioclimatic zone (above CMA)	Marine (CMA)
			Endangered)						
	Royal spoonbill	<i>Platalea regia</i>	At Risk (Naturally Uncommon)	Least concern	✓	CMA, Land	✓	✓	
	South Island pied oystercatcher	<i>Haematopus finschi</i>	At Risk (Declining)	Near threatened		CMA, Land	✓	✓	
	Spotless Crake	<i>Porzana tabuensis tabuensis</i>	At Risk (Relict)		✓	CMA, Land			✓
	Variable oystercatcher	<i>Haematopus unicolor</i>	At Risk (Recovering)	Least concern	✓	CMA, Land	✓	✓	
	White heron	<i>Ardea modesta</i>	Threatened (Nationally Critical)		✓	CMA, Land			
	Wrybill	<i>Anarhynchus frontalis</i>	Threatened (Nationally Vulnerable)	Vulnerable	✓	CMA, Land	✓	✓	
Marine mammal	Maui's dolphin	<i>Cephalorhynchus hectori maui</i>	Threatened (Nationally Critical)	Endangered	✓				✓
	Killer whale	<i>Orcinus orca Type A</i>	Threatened (Nationally Critical)						✓
	Southern/Antarctic blue whale	<i>Balaenoptera musculus brevicauda</i>	Non-resident Native (Migrant)	Critically endangered	✓				✓
	Southern right whale	<i>Eubalaena australis</i>	Threatened (Nationally Endangered)	Least concern					✓
	Bottlenose dolphin	<i>Tursiops truncatus</i>	Threatened (Nationally Endangered)						✓
	New Zealand fur seal	<i>Arctocephalus forsteri</i>	Not Threatened	Least concern	✓				✓
Freshwater mollusc	Freshwater mussel	<i>Echyridella menziesii</i>	At Risk (Declining)	Least concern	✓	CMA		✓	✓
Marine invertebrate	Hydrozoan	<i>Nemertesia elongata</i>	At Risk (Naturally Uncommon)						✓
	Whelk	<i>Cominella quoyana griseicalx</i>	At Risk (Naturally Uncommon)						✓
	Spider crab	<i>Leptomithrax tuberculatus mortenseni</i>	At Risk (Naturally Uncommon)						✓
	Cushion star	<i>Eurygonias hyalacanthus</i>	At Risk (Naturally Uncommon)						✓
	Stony coral	<i>Madrepora oculata</i>	Threatened (Nationally Vulnerable)						✓
Invertebrate	Moth	<i>Notoreas perornata</i> s.l., TK/NN populations	Threatened (Nationally Vulnerable)		✓			✓	✓

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						Estuary (CMA or Land)	Intertidal (CMA)	Coastal bioclimatic zone (above CMA)	Marine (CMA)
	Katipo spider	<i>Latrodectus katipo</i>	At Risk (Declining)		✓	Land		✓	
Freshwater fish	Bluegill bully	<i>Gobiomorphus hubbsi</i>	At Risk (Declining)	Vulnerable A4bc	✓			✓	✓
	Longfin eel	<i>Anguilla dieffenbachii</i>	At Risk (Declining)			CMA		✓	✓
	Torrent fish	<i>Cheimarrichthys fosteri</i>	At Risk (Declining)	Vulnerable A2bc		CMA		✓	✓
	Giant kokopu	<i>Galaxias argenteus</i>	At Risk (Declining)	Vulnerable A4ac	✓	CMA		✓	✓
	Koaro	<i>Galaxias brevipinnis</i>	At Risk (Declining)	Least concern	✓	CMA		✓	✓
	Banded kokopu	<i>Galaxias fasciatus</i>	Not Threatened	Least concern	✓	CMA		✓	✓
	Inanga	<i>Galaxias maculatus</i>	At Risk (Declining)	Least concern		CMA		✓	✓
	Shortjaw kokopu	<i>Galaxias postvectis</i>	Threatened (Nationally Vulnerable)	Endangered	✓	CMA		✓	✓
	Lamprey	<i>Geotria australis</i>	Threatened (Nationally Vulnerable)	Data Deficient	✓	CMA		✓	✓
	Redfin bully	<i>Gobiomorphus huttoni</i>	At Risk (Declining)	Near threatened		CMA		✓	✓
Reptile	Tamatea skink	<i>Oligosoma aff. infrapunctatum</i> "Southern North Island"	Threatened (Nationally Vulnerable)		✓			✓	
	Ornate skink	<i>Oligosoma ornatum</i>	At Risk (Declining)		✓			✓	
	Brown skink	<i>Oligosoma zelandicum</i>	At Risk (Declining)	Least concern	✓			✓	
	Goldstripe gecko	<i>Woodworthia chrysosiretica</i>	At Risk (Relict)		✓			✓	
	Common skink	<i>Oligosoma polychroma</i>	Not Threatened		✓			✓	
Vascular Plant	Mangrove	<i>Avicennia marina</i> subsp. <i>australasica</i>	Not Threatened		✓	✓		✓	
	Shore hard fern	<i>Blechnum blechnoides</i>	Not Threatened		✓			✓	
	Sea sedge	<i>Carex litorosa</i>	At Risk (Declining)					✓	
	Sneezeweed	<i>Centipeda minima</i> subsp. <i>minima</i>	Threatened (Nationally Endangered)					✓	
	Turf carrot	<i>Chaerophyllum</i> (a) (CHR 364086; "minute flower")	At Risk (Naturally Uncommon)					✓	
	Sand coprosma	<i>Coprosma acerosa</i>	At Risk (Declining)					✓	



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Coprosma hybrid	<i>Coprosma aff. acerosa</i> (AK 36799; Taranaki)	At Risk (Naturally Uncommon)		✓			✓	
Paritutu korokio	<i>Corokia cotoneaster</i>	Not Threatened		✓			✓	
Otakeho wollyhead	<i>Craspedia 'Otakeho'</i>	Not listed (Not listed)		✓			✓	
Minute succulent	<i>Crassula manaia</i>	Threatened (Nationally Vulnerable)					✓	
Crassula mataikona	<i>Crassula mataikona</i>	At Risk (Naturally Uncommon)					✓	
Shore stonecrop	<i>Crassula peduncularis</i>	Threatened (Nationally Critical)					✓	
Einadia	<i>Einadia allanii</i>	At Risk (Naturally Uncommon)					✓	
Sand spike sedge	<i>Eleocharis neozelandica</i>	At Risk (Declining)					✓	
Euchiton	<i>Euchiton polylepis</i>	At Risk (Naturally Uncommon)					✓	
Shore spurge	<i>Euphorbia glauca</i>	At Risk (Declining)					✓	
Golden sand sedge	<i>Ficinia spiralis</i>	At Risk (Declining)					✓	
Sand gunnera	<i>Gunnera arenaria</i>	At Risk (Declining)					✓	
Shore koromiko	<i>Hebe elliptica</i>	Not Threatened		✓			✓	
Titirangi	<i>Hebe speciosa</i>	Threatened (Nationally Vulnerable)					✓	
Koromiko	<i>Hebe stricta var. macroura</i>	Not Threatened		✓			✓	
Flat leaved rush	<i>Juncus caespiticus</i>	Not Threatened		✓			✓	
Leafless rush	<i>Juncus pauciflorus</i>	Threatened (Nationally Vulnerable)					✓	
Coastal cress	<i>Lepidium flexicaule</i>	Threatened (Nationally Endangered)					✓	
Cooks scury grass	<i>Lepidium oleraceum</i>	Threatened (Nationally Endangered)					✓	
Creeping button daisy	<i>Leptinella dispersa subsp. dispersa</i>	At Risk (Naturally Uncommon)					✓	
Button daisy	<i>Leptinella dispersa subsp. rupestris</i>	Threatened (Nationally Critical)					✓	
Limosella 'Manutahi'	<i>Limosella (b) (CHR 55038; Manutahi)</i>	Threatened (Nationally Critical)					✓	
Coastal woodrush	<i>Luzula banksiana var. banksiana</i>	Not Threatened		✓			✓	

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	Dwarf musk	<i>Mazus novaezeelandiae</i> subsp. <i>Impolitus</i>	Threatened (Nationally Vulnerable)					✓	
	New Zealand mint	<i>Mentha cunninghamii</i>	At Risk (Declining)					✓	
	Ngaio	<i>Myoporum laetum</i>	Not Threatened		✓			✓	
	Myosotis	<i>Myosotis brevis</i>	Threatened (Nationally Vulnerable)					✓	
	Forget-me-not	<i>Myosotis pansa</i> var. <i>pansa</i>	Threatened (Nationally Endangered)					✓	
	Pigmy forget-me-not	<i>Myosotis pygmaea</i>	At Risk (Declining)					✓	
	Coastal tree daisy	<i>Olearia solandri</i>	Not Threatened		✓			✓	
	Parahebe	<i>Parahebe lanceolata</i>	Not Threatened		✓			✓	
	Peperomia	<i>Peperomia urvilleana</i>	Not Threatened		✓			✓	
	Pinatoro	<i>Pimelea carnosae</i>	Not Threatened		✓			✓	
	Sand daphne	<i>Pimelea villosa</i>	At Risk (Declining)					✓	
	Saltmarsh ribbonwood	<i>Plagianthus divaricatus</i>	Not Threatened		✓	✓		✓	
	Sand tussock	<i>Poa billardierei</i>	At Risk (Declining)					✓	
	New Zealand hazel	<i>Pomaderris apetala</i> subsp. <i>maritima</i>	Threatened (Nationally Critical)		✓			✓	
	Dwarf buttercup	<i>Ranunculus recens</i>	Threatened (Nationally Vulnerable)		✓			✓	
	Koheriki	<i>Scandia rosifolia</i>	At Risk (Declining)					✓	
	Tussock sedge	<i>Schoenus carsei</i>	Threatened (Nationally Endangered)					✓	
	Kauri sedge	<i>Schoenus tendo</i>	Not Threatened		✓			✓	
	Sebaea	<i>Sebaea ovata</i>	Threatened (Nationally Critical)					✓	
	Round-leaved selliera	<i>Selliera rotundifolia</i>	At Risk (Declining)					✓	
	Pickly sow thistle	<i>Sonchus kirkii</i>	At Risk (Declining)					✓	
	Coastal kowhai	<i>Sophora chathamica</i>	Not Threatened		✓			✓	
	NZ spinach	<i>Tetragonia tetragonoides</i>	At Risk (Naturally Uncommon)					✓	
	Eelgrass	<i>Zostera muelleri</i> subsp. <i>novaezeelandica</i>	At Risk (Declining)			✓	✓		✓

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>

Schedule 6B - Sensitive marine benthic habitats

The information included within Table 2 has been taken from Cawthron, (August 2016), *Sensitive Habitats and Threatened Species in the Taranaki Coastal Marine Area (TCMA) – Database Investigation*. Information on the marine benthic habitats within the Taranaki CMA is still very limited with only a small area actually having been sampled. Consequently sensitive habitats identified in the vicinity of the Taranaki CMA have also been listed as these may also occur within the Taranaki CMA.

Table 2: Sensitive marine benthic habitats found within or in the vicinity of the Taranaki Coastal Marine Area.

Sensitive Marine Benthic Habitats	Present Within the Taranaki Coastal Marine Area	Present within 200m of the Taranaki Coastal Marine Area
(Beds of) large bivalve molluscs	✓	
Brachiopods	✓	
Bryozoans (thickets)	✓	
Calcareous tube worm (thickets)	✓	
Macro-algal (beds)	✓	
Sponge (gardens)	✓	
Rhodolith (maerl beds)	✓	
Chaetopteridae worm (fields)		✓
Sea pens (field)		✓
Stony coral (thickets)		✓
Xenophyophores (sessile protozoan beds)		✓