

5. Summary and conclusions

The Protected Natural Areas network in the Aupouri Ecological District is summarised in Table 1. Including the area of the three harbours, approximately 26.5% of the natural areas of the Aupouri Ecological District are formally protected, which is equivalent to about 9% of the total area of the Ecological District. Excluding the three harbours, approximately 48% of the natural areas of the Aupouri Ecological District are formally protected, which is equivalent to about 10.7% of the total area of the Ecological District. Protected areas are made up primarily of Te Paki Dunes, Te Arai dunelands, East Beach, Kaimaumu, Lake Ohia, and Tokerau Beach.

A list of ecological units recorded in the Aupouri Ecological District and their current protection status is set out in Table 2 (page 300), and a summary of the site evaluations is given in Table 3 (page 328).

TABLE 1. PROTECTED NATURAL AREA NETWORK IN THE AUPOURI ECOLOGICAL DISTRICT (areas in ha).

Key: CC = Conservation Covenant; QEII = Queen Elizabeth II National Trust covenant; SL = Stewardship Land; SR = Scenic Reserve; EA = Ecological Area; WMR = Wildlife Management Reserve; ScR = Scientific Reserve; RR = Recreation Reserve; MS = Marginal Strip; NR = Nature Reserve; HR = Historic Reserve; FNDC = Far North District Council Reserve; RFBPS = Royal Forest and Bird Protection Society

Site	Survey no.	Status												Total prot. area	Total site area		
		CC	QEII	SL	SR	EA	WMR	ScR	RR	MS	NR	HR	FNDC			RFBPS	
Te Paki Dunes	N02/013							1871								1871	1936
Te Paki Stream	N02/014								41.5							41.5	43
Parengarenga Harbour	N02/026							39.2								39.2	6449
Ninety Mile Beach & Dunes	N02/042	63.7		103.7							40					207.4	928
Te Arai Sandfields	N03/009			734.24	4.76											739	1253
Great Exhibition Bay	N03/015			271												271	755
Te Ramanuka Lakes & Shrubland	N03/019			340												340	423
Wairahi Swamp & Lake Taeore	N03/022					11.4										11.4	127
Rarawa Beach	N03/023			42												42	59
Kaimaumu-Motutangi Wetlands	N03/031			1889				929.3		7.3						2825.6	4075
Pohutukawa Remnant	N03/037	5.2		2.41												7.61	55
Arethusa Swamp	N03/039												12.5			12.5	15.3
East Beach	N03/040			577.9							0.4					578.3	627
Salt Lake	N03/046			3.4												3.4	9.5
Motu Puruhi Island & Terakautuhaka Island	N03/051											6.34				6.34	6.34
Far North Rd Shrublands & Wetlands	N04/002		30.65													30.65	206.8
Headquarters Pond	N04/007	5.77														5.77	5.77
Lake Ngatu Complex	N04/008								68.7							68.7	154.8
Lake Rotokawau & Pond	N04/009										3.6					3.6	24.9

Site no.	Survey CC	Status											Total prot. area	Total site area			
		QEII	SL	SR	EA	WMR	ScR	RR	MS	NR	HR	FNDC			RFBPS		
Lake Waiparera & Wetlands	N04/010	54.4							7.2							61.6	212.3
Waipapakauri Beach Coastal Shrubland	N04/015			15.8												15.8	16.6
Tangonge Wetland	N04/018			43.2												43.2	486
Lake Rotoroa & Wetlands	N04/022			29	0.4											29.4	32
Lake Heather	N04/023			7.5	0.8											8.3	11
Split Lake Wetland	N04/024	10.8														10.8	12.6
Mini & Round Lakes	N04/025	8.7														8.7	9.9
Turks Lake & Wetland	N04/026	8.1														8.1	12.4
Bacica Rd Lake	N04/027	3.5														3.5	3.5
Selwyn Flat Wetland	N04/028	8.9														8.9	11.7
Jones Lake	N04/031	0.98														0.98	1.75
Waimango Swamp	O03/001			118				20.6								138.6	297
Rotokawau Lakes & Puwheke Beach	O03/002								65.4							65.4	433.6
Maitai Bay	O03/003							10.4								10.4	23.9
Taupiroroa Range Shrublands	O03/004							21.9								21.9	945
Cape Karikari Shrubland	O03/005							64.3								64.3	444
Whangatupere Bay	O03/006						378	347	0.7							725.7	1018
Rangiputa Rd Shrublands	O03/007								3.3		5.5					8.8	73
S Urlich Rd Wetland 29	O03/008			12.79												12.79	
Karikari Bay	O03/009							24.2								24.2	136
Waiparera Creek Wetland	O04/221			7.4						0.6						8.0	22.5
Awanui River Forest Remnants	O04/222		10.4		3											13.4	46.3
Lake Ohia	O04/227			123.4						29						1263	1641
Lake Waiporohita	O04/228				8.1											8.1	8.3
Southern Tokerau Swamp	O04/229			66.8												66.8	84
Northern Tokerau Swamp	O04/230			68.4												68.4	71
Tokerau Beach	O04/232			225												225	376
Rangaunu Harbour	O04/233			36					53	7.83	1.0					97.83	10185
Walker Island	O04/235									7.1						7.1	26.5
TOTAL AREA		CC	QEII	SL	SR	EA	WMR	ScR	RR	MS	NR	HR	FNDC	RFBPS	Prot.	Site	
		170.05	41.05	5827.54	12.3	4.76	11.4	1346.5	2469.6	210.5	21.27	1.0	5.5	12.5	10859.6	34025.2	

5.1 PRIORITY NATURAL AREAS FOR PROTECTION IN THIS ECOLOGICAL DISTRICT

1. Habitat types where the remaining examples of each type are limited to remnants or are at risk of disappearing from the Ecological District

(a) Ephemeral wetlands

Tangonge Wetlands (N04/018) - partly protected (8.8%)*.

(b) Dune forest

The rarest forest type in Northland (DOC 1999). Only a few fragmented sites remain in the Aupouri Ecological District including:

Lake Waikanae (N02/044), Te Pua Point Pohutukawa Remnant (N02/053), Puriri-Karaka Remnant (N03/027), Hukatere Lookout (N03/032), Compartment 65 Forest Remnant (N04/003).

(c) Alluvial forest

One of the most under-represented forest types in Northland (DOC 1999). Remaining examples of this habitat type occur at:

Mangatete River Bush (O04/226) and Awanui River Forest Remnants (O04/222) - the latter partly protected (26.5%).

2. Nationally under-represented habitat types

(a) Peat bogs

Kaimaumau-Motutangi Wetland (N03/031) - partly protected (69.3%), Far North Rd Shrublands & Wetlands (N04/002) - partly protected (14.8%), Heath Rd Powerline Swamp (N04/006), Sweetwater Station Depressions (N04/017), Sandhills Rd Wetland No 1 (N04/021), Sweetwater Station Peat Bowl (N04/038), Paparore Wetland & Shrubland (O04/220), West Coast Rd Shrublands (O04/223).

(b) Coastal forest and shrubland, especially pohutukawa forest (includes offshore islands)

Matapia Island (N02/073), Henderson Bay Shrubland (N03/014), Hukatere Lookout (N03/032), Mt Camel (N03/035), Pohutukawa Remnant (N03/037) - partly protected (13.8%), Te Wakatehau Island (The Bluff) (N03/050), Taupiroroa Range Shrubland (O03/004) - partly protected (2.3%), Cape Karikari Shrublands (O03/005) - partly protected (14%), Whangatupere Bay (O03/006) - partly protected (72%), Moturoa Islands (O03/012).

(c) Dune lakes with threatened or endemic species present

Lake Waikanae (N02/044), Lake Te Kahika (N02/061), Lake Kihona & Forest Remnants (N02/060), Lake Austria (N02/069), Ngatuwhete Lake (N02/070), Lake Morehurehu (N03/021), Wairahi Swamp and Lake Taeore (N03/022) -

* Areas protected may not encompass all of the key ecological features.

partly protected (8.9%), Lake Waihopo & Shrublands (N03/025), Lake Wahakari (N03/026), Lake Ngatu Complex (N04/008) - partly protected (44.3%), Lake Rotokawau & Pond (N04/009) - partly protected (14.4%), Lake Waiparera & Wetlands (N04/010) - partly protected (29%), West Coast Rd Lake (N04/011), Turks Lake & Wetland (N04/026), Lake Ngakapua Complex (N04/030).

3. Wetlands and other sites with threatened or endemic species present

Karatia Wetland (N02/056), Upper Karatia Swamp (N02/068), Oromanga Rd Wetlands (N03/010), Te Raita Wetland (N03/030), Kowhai Swamps (N03/036), Lambs Rd Swamp (N03/044), Coal Creek (N04/004), Herberts Swamp (N04/029) and Jones Lake (N04/031) - partly protected (56.6%), Waimimiha Lakes (N04/034), Waiparera Creek Wetland (O04/221), Waimango Swamp (O03/001) - partly protected (46.6%), Rotokawau Lakes & Puwheke Beach (O03/002) - partly protected (15%), Puheke Rd Wetland (O03/011).

4. Other dunelands and dune lakes

(a) Dunelands

Te Paki Dunes (N02/013) - partly protected (96.6%), Ninety Mile Beach & Dunes (N02/042) - partly protected (22.3%), Kokota Spit (N02/051), Great Exhibition Bay (N03/015) - partly protected (35.8%), Rarawa Beach (N03/023) - partly protected (71%), Waikokopu Shrubland (N03/041), Rotokawau Lakes & Puwheke Beach (O03/002) - marginal strip around dunelakes only; Karikari Moana (O03/009) - partly protected (27.2%), Tokerau Beach (O04/232) - partly protected (59.8%).

(b) Foredunes or soft shores where northern NZ dotterel are present

Kokota Spit (N02/051), Henderson Bay & Kowhai Beach (N03/016), Karikari Moana (O03/009) - partly protected (17.7%).

(c) Other dune lakes not included in 1-3 above.

5. Enclaves, extensions or buffers to existing protected areas and ecological sequences

- Kaimaumu, Houhora and Rangaunu Harbours (intrinsically linked via East Beach) and linked to Kaimaumu-Motutangi Wetlands (N03/031) - partly protected (69.3%), with diverse habitats, and featuring an unbroken zonation of wetland sequences from saltwater to freshwater.
- Waiparera-Sweetwaters complex (see dunelakes and wetlands above)
- Karikari Peninsula - Rotokawau Lakes & Puwheke Beach (O03/002) - partly protected (15%), a large area, containing one of the best examples in the Ecological Region of a wide diversity of habitats including coastal wetlands stretching from the Rangiputa coast to Karikari Moana and also from Whatuwhiwhi to Maitai Bay.
- Lake Ohia links Rangaunu Harbour to Tokerau Beach and South Tokerau Swamp.

6. *Protective measures*

Measures which facilitate the exclusion of stock from estuarine zones (especially Parengarenga), protect roost sites for waders (including migratory bird species) around all three harbours, and protect shore birds from off-road vehicles.

7. *Priority sites*

This District is (or previously was) habitat for approximately 50 plant species listed in de Lange et al. (1999). This very high figure is indicative of the sensitivity of the habitats within the Ecological District to modification. For this reason, it is proposed that sites containing any of these species be considered priority sites, not least as indicators of the rarity of the habitat type and potential to support a diversity of species: (sites not otherwise included above):

Tangoake Shrublands (N02/052), Emauhu Point Shrublands (N02/058), Sandhills Rd Swamp (N04/016).

8. *Habitats containing ecological units not represented elsewhere which do not fall into any of the above categories*

Whakatereohao Stream Swamp (N02/057), Waipara & Dead Lakes (N02/065), Pretty Lake (N02/066), Wagener's Swamps (N03/024) and Waimanoni Creek Shrubland (O04/217).

TABLE 2. ECOLOGICAL UNITS RECORDED IN THE AUPOURI ECOLOGICAL DISTRICT AND PROTECTED STATUS.

Key: Pt = Site is partially protected, but unknown whether ecological unit falls within the protected area, CC = Conservation Covenant; QEII = Queen Elizabeth II National Trust Covenant; RR = Recreation Reserve; SL = Stewardship Land; SR = Scenic Reserve; EA = Ecological Area; WMR = Wildlife Management Reserve; NR = Nature Reserve; MS = Marginal Strip; * = Level 2 site; Part of = part of site is within geological description; **Bold pna numbers** = representative ecological units.

	Coastal foredunes	Holocene transverse dunes and deflation zones	DUNE BELTS				WETLANDS
			Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
FRESHWATER WETLANDS							
<i>Baumea</i> spp.							
<i>Baumea articulata</i>				N03/025			N02/065 N04/010 (PtCC,MS)
<i>Baumea articulata</i> - <i>Eleocharis sphacelata</i>				N03/019 (PtSL)			N04/029 N04/022 (PtSL,SR) N04/026 (PtCC) N04/030
<i>Baumea articulata</i> - <i>Eleocharis sphacelata</i> - harakeke-manuka							
<i>Baumea articulata</i> - <i>Eleocharis spacelata</i> - <i>Isolepis prolifer</i>							
<i>Baumea articulata</i> - <i>Eleocharis sphacelata</i> -raupo							
<i>Baumea articulata</i> - giant umbrella sedge- manuka-raupo							
<i>Baumea articulata</i> - <i>Juncus pallidus</i>							N02/065
<i>Baumea articulata</i> -manuka							N03/022 (PtWMR)
<i>Baumea articulata</i> - raupo							N04/028 (PtCC)
<i>Baumea buttonii</i>							

WETLANDS	OTHER HOLOCENE		CRETACEOUS–CENOZOIC ROCK UNITS				MIXED
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex
O04/223							O03/006 (PtRR,MS,SR)
N04/038							
N04/007 (PtCC) N03/039 N03/ 044 N04/037							
	N02/056						
N04/021							
N03/020							
N04/002 (PtQEII)							
N03/004							
O04/227 (PtSL,MS)							

	Coastal foredunes	Holocene transverse dunes and deflation zones	DUNE BELTS				WETLANDS
			Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
FRESHWATER WETLANDS (continued)							
<i>Baumea buttonii</i> - <i>B. juncea</i>							N03/001 (PtSL,RR)
<i>Baumea juncea</i>							
<i>Baumea juncea</i> - <i>Eleocharis sphacelata</i> -manuka							
<i>Baumea juncea</i> -manuka							N02/065
<i>Baumea rubiginosa</i>							
<i>Baumea rubiginosa/teretifolia</i> - manuka							N02/068
<i>Baumea teretifolia</i> - <i>Gleichenia dicarpa</i>							
<i>Baumea teretifolia</i> - <i>Schoenus brevifolius</i>							
<i>Coprosma</i> spp.-giant umbrella sedge association							
<i>Coprosma tenuicaulis</i> -manuka							
dune lake/open water		N03/009 (PtSL,EA)		N03/025			N02/061 N02/065 N02/066 N02/069 N03/003 N03/018 N03/021 N03/022 (PtW/MR) N03/046 (PtSL) N04/010 (PtCC,MS) N04/011

WETLANDS	OTHER HOLOCENE		CRETACEOUS–CENOZOIC ROCK UNITS				MIXED
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex
O04/227 (PtSL,MS) N04/009 (PtMS)							
N04/002 (PtQEII)							
O04/223							
	N02/057						
N04/002 (PtQEII)							N03/031 (PtCC, ScR,MS)
							N03/031 (PtCC, ScR,MS)
N04/008 (PtRR)							
	O04/221 (PtSL,MS)						
O03/002 (PtMS)							
N02/044 N02/070 N03/004 N03/020 N03/024 N03/026 N03/030 N03/039 *N03/042 N03/043 N03/044 N04/008 (PtRR)	N02/056 N02/057 N04/018 (PtSL)						N02/060

			DUNE BELTS				WETLANDS
	Coastal foredunes	Holocene transverse dunes and deflation zones	Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
FRESHWATER WETLANDS (continued)							
dune lake/open water (continued)							N04/022 (PtSL,SR) N04/023 (PtSL,SR) N04/024 (PtCC) N04/025 (PtCC) N04/026 (PtCC) N04/029 N04/030 N04/031 (PtCC) N04/034 O04/230 (PtSL)
<i>Eleocharis sphaelata</i>				N03/025	N02/061 N02/065 N02/069 N03/021 N04/010 (PtCC,MS) N04/011 N04/022 (PtSL,SR) N04/024 (PtCC) N04/030 N04/031 (PtCC)		
<i>Eleocharis sphaelata</i> - <i>Baumea articulata</i> -raupo							
<i>Eleocharis sphaelata</i> -wire rush							
<i>Eleocharis acuta</i> - <i>Isolepis prolifer</i> -jointed rush							N03/036
<i>Eleocharis acuta</i> - <i>Isolepis prolifer</i> - <i>Myriophyllum propinquum</i> - willow weed							

WETLANDS	OTHER HOLOCENE		CRETACEOUS–CENOZOIC ROCK UNITS				MIXED
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex
<p>N04/009 (PtMS) N04/017 N04/019 N04/021 N04/027 (CC) *N04/032 N04/035 N04/038 O03/002 (PtMS) O04/228 (PtSR)</p>							
<p>N03/004 N03/020 N03/024 *N03/ 042 N03/043 N03/044 N04/002 (PtQEII) N04/006 N04/008 (PtRR) N04/009 (PtMS) N04/017 N04/019 N04/021 N04/027 (CC) N02/044</p>	N02/057						
<p>N04/017 N03/020</p>							
N02/056							
<p>(PtRR) N04/008</p>							

	Coastal foredunes	Holocene transverse dunes and deflation zones	DUNE BELTS				WETLANDS
			Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
FRESHWATER WETLANDS (continued)							
<i>Eleocharis sphacelata</i> -raupo		N03/009 (PtSL,EA)					N04/025 (PtCC) N03/030 N04/023 (PtSL,SR)
giant umbrella sedge- swamp millet							N03/036
<i>Gleichenia dicarpa</i> -manuka							
<i>Gleichenia dicarpa</i> - <i>Schoenus brevifolius</i>							
harakeke							
harakeke-manuka							N04/030
harakeke-pampas-raupo							N04/005
harakeke-pampas-reed-toetoe							N02/043
harakeke-raupo							O04/229 (PtSL) N04/033
<i>Isolepis prolifer</i>			N03/019 (PtSL)			N02/044	
<i>Isolepis prolifer</i> - <i>Myriophyllum propinquum</i>							
knobby clubrush- <i>Juncus</i> sp.-oioi			N03/019 (PtSL)				
kanuka							
<i>Lepidosperma filiforme</i>							
manuka- <i>Cassytba</i>							

WETLANDS	OTHER HOLOCENE		CRETACEOUS–CENOZOIC ROCK UNITS				MIXED
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex
N03/020 N03/026 O04/228 (PtSR)							O03/005 (PtRR)
N03/026							
							N03/031 (PtCC, ScR,MS)
O03/002 (PtMS)							O03/008 (Pt SL)
							O03/008 (PtSL) N03/031 (PtCC, ScR,MS)
N04/038							
	N02/056						
O04/227 (PtSL,MS)							
N03/034							

	Coastal foredunes	Holocene transverse dunes and deflation zones	DUNE BELTS				WETLANDS
			Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
FRESHWATER WETLANDS (continued)							
manuka- <i>Eleocharis sphacelata</i>							N03/024
manuka-gorse							
manuka-raupo				*N03/011			N03/018
manuka-sedge							
manuka							N02/069 O03/001 (PtSL,RR) N04/030 O04/229 (PtSL)
manuka- <i>Schoenus brevifolius</i>							
oioi							N02/069 N03/003 N04/010 (PtCC,MS) N02/014 (PtRR)
oioi-pampas-water fern							N02/066
raupo		N03/009 (PtSL)	N03/019 (PtSL)		N03/014		N02/061 N03/018 N03/022 (PtWMR) N03/024 N03/036 *N03/045 N03/046 (PtSL) N04/010 (PtCC,MS) N04/025 (PtCC) N04/026 (PtCC) N04/030 N04/034 O03/001 (PtSL,RR) O04/230 (PtSL)

WETLANDS	OTHER HOLOCENE		CRETACEOUS–CENOZOIC ROCK UNITS					MIXED
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex	
O04/223								
N04/017	N04/018 (PtSL)							
								N02/060
N04/006 N04/008 (PtRR) N04/021 O03/002 (PtMS)	N02/057 O04/220 O04/221 (PtSL,MS)				N03/035			N03/031 (PtCC, ScR,MS)
O04/227 (PtSL,MS)								N03/031 (PtCC, ScR,MS)
N03/004 O03/002 (PtMS)								
N02/044 N03/002 N03/004 N03/010 N03/026 N04/002 (PtQEII) N04/027 (CC) *N04/032 N04/035 O03/002 (PtMS) O04/227 (PtSL,MS)	N02/056 O04/220 O04/221 (PtSL,MS)							N02/060

	Coastal foredunes	Holocene transverse dunes and deflation zones	DUNE BELTS				WETLANDS
			Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
<i>FRESHWATER WETLANDS (continued)</i>							
	raupo-sedge						N04/033
	raupo-oioi						N04/005
	raupo-rush						
	reed-sedge						
	<i>Schoenus brevifolius</i>						
	umbrella fern- <i>Schoenus</i> sp.						
	wire rush						
	wire rush- <i>Gleichenia dicarpa</i>						N02/061
<i>ESTUARY</i>							
	<i>Baumea</i> sp.-manuka						
	eelgrass						
	glasswort						
	oioi-sea rush						
	mangrove						
	mangrove-oioi						

WETLANDS	OTHER HOLOCENE		CRETACEOUS–CENOZOIC ROCK UNITS					MIXED
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex	
								N03/010
								N02/070
								O04/227 (PtSL,MS)
								O04/227 (PtSL,MS)
								O04/227 (PtSL,MS)
								N03/038
								N02/026 (PtSR) N03/038 O04/233 (PtSL,MS,NR,HR)
								N03/038 O04/233 (PtSL,MS,NR,HR)
								N02/026 (PtSR) O04/233 (PtSL,MS,NR,HR)
								O04/231 O04/233 (PtSL,MS,NR,HR) N02/026 (PtSR)
								N03/038

			DUNE BELTS			WETLANDS	
	Coastal foredunes	Holocene transverse dunes and deflation zones	Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
ESTUARY (continued)							
oioi							
saltmarsh							
sea rush							
shell bank							
COASTAL ASSOCIATIONS/SAND FIELDS							
buffalo grass							
<i>Coprosma acerosa</i> -oioi - pohuehue							
<i>Coprosma acerosa</i> - pohuehue							
<i>Dichondra</i> aff. <i>brevifolia</i> - native iceplant							
harakeke- pohuehue							
glasswort							
kikuyu-pohuehue						N02/042 (PtCC,SL,MS)	
kikuyu-sedge						N03/032	
knobby clubrush						004/232 (PtSL)	
knobby clubrush-oioi						N02/042 (PtCC SL,MS)	
knobby clubrush-oioi- pampas						N03/040 (PtSL,MS)	

WETLANDS	OTHER HOLOCENE		CRETACEOUS–CENOZOIC ROCK UNITS					MIXED
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex	
	O04/221 (PtSL,MS) N02/057	N03/038						N03/023 (PtSL)
			N02/058					
		O04/231						
		O04/233 (PtSL,MS,NR,HR)						
					N03/050			
O03/002 (PtMS)								
O03/002 (PtMS)								
					N03/050			
								N03/023 (PtSL)
					N03/050			

			DUNE BELTS			WETLANDS	
	Coastal foredunes	Holocene transverse dunes and deflation zones	Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
COASTAL ASSOCIATIONS/SAND FIELDS (continued)							
marram-pohuehue	N03/009 (PtSL,EA)						
marram- <i>Spinifex</i>		N03/015 (PtSL)					
mixed coastal turf		N03/009 (PtSL,EA)					N02/014 (PtRR)
native iceplant							
oioi		N03/032					
pingao		N03/016					
pingao- <i>Spinifex</i>		N02/051					
sandfield		N02/013 (PtRR) N02/051 *N03/006 N03/015 (PtSL) N03/016 N03/009 (PtSL,EA)					
<i>Spinifex</i>	N02/042 (PtCC SL,MS) N03/040 (PtSL,MS) O03/009 (PtRR) O04/232 (PtSL)	N03/016					
<i>Spinifex</i> -cape honey flower	O03/003 (PtRR)						
<i>Spinifex</i> -kanuka-pohutukawa		N03/037 (PtCC,SL)					
toetoe	N02/042 (PtCC SL,MS)						
toetoe-harakeke-oioi	N02/042 (PtCC SL,MS)						

WETLANDS	OTHER HOLOCENE		CRETACEOUS–CENOZOIC ROCK UNITS					MIXED	
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex		
N03/050									
O03/002 (PtMS)									
O03/002 (PtMS)								N03/050	N03/023 (PtSL)

	Coastal foredunes	Holocene transverse dunes and deflation zones	DUNE BELTS			WETLANDS	
			Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
ISLANDS							
	buffalo grass						
	coastal herbfield						
	Cook's scurvy grass						
	giant umbrella sedge-harakeke						
	giant umbrella sedge						
	glasswort-Mercury Bay weed						
	harakeke						
	kanuka					N02/055	
	karo						
	karamu-manuka-taupata						
	manuka						
	<i>Melicytus novae-zelandiae</i> -taupata						
	native iceplant						
	native iceplant-knobby clubrush						
	<i>Pimelea arenaria-Spinifex</i>						
	<i>Poa pusilla</i>						
	pohuehue						
	pohutukawa						
	rock platform						
	<i>Samolus repens</i> -glasswort						

WETLANDS	OTHER HOLOCENE		CRETACEOUS–CENOZOIC ROCK UNITS					MIXED
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex	
								O03/012
								O03/012
								N02/073
								O03/012
								N02/073
								N02/073
								O03/012
								O03/012
								O03/012
								O03/012
								O03/012
								O03/012
								O03/012
								N02/073
		O04/235 (PtNR)						
								O03/012
								O03/012
					N03/051 (NR)			
								N02/073
					N03/051 (NR)			

	Coastal foredunes	Holocene transverse dunes and deflation zones	DUNE BELTS				WETLANDS
			Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
ISLANDS (continued)							
<i>Spinifex</i>							
tawapou							
ti kouka- harakeke- manuka-pampas							
<i>Zoysia pauciflora</i>							
GRASSLAND							
marram							
pampas							
pasture							
SHRUBLAND							
black wattle- Sydney golden wattle							
bracken							
N03/019 (PtSL)							
gorse							
N03/019 (PtSL)							
gorse-kanuka							
gorse-manuka							
*N03/013 (Part of)							
gorse-pampas-wattle							

WETLANDS	OTHER HOLOCENE		CRETACEOUS-CENOZOIC ROCK UNITS					MIXED
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex	
	O04/235 (PtNR)							
			N03/051 (NR)					
								O03/012
								O03/012
N04/035								
O03/011								
								N03/031 (PtCC, ScR,MS)
	*N04/013 (Part of) N04/018 (PtSL)	*N04/013 (Part of)						
*N04/012								
N04/016 *N03/013 (Part of)								
	O04/221 (PtSL,MS)							

	Coastal foredunes	Holocene transverse dunes and deflation zones	DUNE BELTS				WETLANDS
			Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
SHRUBLAND (continued)							
	gorse-tobacco weed						N04/023 (PtSL,SR)
	<i>Hakea</i> sp.-manuka						N02/061
	kanuka		N03/041 N03/019 (PtSL)	*N03/011 *N03/013 N03/025 *N03/028 *N04/004	*N03/001	*N02/ 046 (Part of)	N02/065 N02/066 N02/069 N04/010 (PtCC,MS)
	kanuka- <i>Callistachys lanceolata</i>					N02/052	
	kanuka/ manuka		*N02/ 049				N03/022 (PtWMR) N03/036
	kanuka-manuka-gorse					N04/022 (PtSL,SR)	
	kanuka-manuka-wattle			*N03/017 (Part of)			
	kanuka-Sydney golden wattle			*N02/048		*N02/ 046 (Part of)	
	manuka			*N03/008	*N03/005		N02/068 N03/018 N04/010 (PtCC,MS) N03/046 (PtSL) N03/021 N04/026 (PtCC) N04/030
	prickly hakea-kanuka-kumarahou						

WETLANDS	OTHER HOLOCENE		CRETACEOUS–CENOZOIC ROCK UNITS				MIXED
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex
N03/026 N04/002 (PtQEII) N04/008 (PtRR) *N04/012 *N04/013 (Part of) N02/044	*N04/013 (Part of) N02/056	*N02/045 N02/058					*N02/046 (Part of) *N02/054 *N02/059 *N03/007 *N02/049
N02/047 N04/002 (PtQEII) N04/008 (PtRR) N04/006 O04/227 (PtSL,MS)	O04/220 O04/222 (PtQEII, SR)		N03/002				*N02/049 N03/031 (PtCC, ScR,MS) N02/060
N03/039							*N02/046 (Part of)
N03/010 N03/020 *N03/047 N04/009 (PtMS)							N02/060
			N03/002				

	Coastal foredunes	Holocene transverse dunes and deflation zones	DUNE BELTS			WETLANDS	
			Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
<i>SHRUBLAND (continued)</i>							
sandfield			N03/019 (PtSL)				
Sydney golden wattle					*N03/001		
Sydney golden wattle-kanuka/manuka							
ti kouka-manuka							
toetoe-bracken-kanuka							
wattle			N03/019 (PtSL)				N03/018
wattle-kanuka							
<i>COASTAL SHRUBLAND</i>							
<i>Astelia</i> sp.-kanuka							
harakeke					N03/014		
harakeke-kanuka			N04/015 (PtSL)				
harakeke-manuka			N03/032		N03/014		
gorse							O03/001 (PtSL,RR)
gorse-kanuka							
gorse-kikuyu							
gorse-kanuka/ manuka							
kanuka			N03/009 (PtSL,EA)		N03/014		

WETLANDS	OTHER HOLOCENE		CRETACEOUS–CENOZOIC ROCK UNITS					MIXED
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex	
O04/223								*N03/007
N04/006								
	O04/222 (PtQEII SR)							
N02/044								
O04/223								
N03/034								
					N03/035			
O03/002 (PtMS)								
								O03/004 (PtRR)
								O03/008 (PtSL)

	Coastal foredunes	Holocene transverse dunes and deflation zones	DUNE BELTS				WETLANDS
			Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
<i>COASTAL SHRUBLAND (continued)</i>							
kanuka-gorse							
kanuka-Sydney golden wattle		N03/037 (PtCC,SL)					
kanuka/ manuka-marram- toetoe		N03/009 (PtSL,EA)					
kanuka-manuka-wattle					N03/014 N03/029		
kanuka-manuka- Sydney golden wattle							
kanuka/ manuka							O03/001 (PtSL,RR)
manuka		N03/032			N03/014 N03/029		
taupata							
wattle		N03/016			N03/014 N03/029		
<i>BROADLEAF FOREST</i>							
kanuka							
kohekohe-puriri-taraire							
puriri							
puriri-taraire							

WETLANDS	OTHER HOLOCENE		CRETACEOUS–CENOZOIC ROCK UNITS					MIXED
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex	
								O03/004 (PtRR)
								*O03/007 (PtFNDC, MS)
O03/002 (PtMS)				N03/035		O03/006 (PtRR,MS, SR)	O03/005 (PtRR) O03/004 (PtRR)	
O04/223								*O03/007 (PtFNDC, MS)
				N03/050				
								N03/023 (PtSL)
								N02/060
								N02/060
								O04/222 (PtQEISR)
N02/044	O04/222 (PtQEII SR)							

	Coastal foredunes	Holocene transverse dunes and deflation zones	DUNE BELTS				WETLANDS
			Holocene fixed parabolic dunes	Pleistocene consolidated parabolic dunes & interdune flats	Pleistocene eroded and leached Awhitu Complex dunes	Pleistocene consolidated intertidal & estuarine sands forming low terraces	Ponded by Holocene dunes
<i>COASTAL BROADLEAF FOREST</i>							
kanuka							
kanuka-pohutukawa							
kanuka-puriri							
kohekohe							
pohutukawa	003/003 (PtRR)	N03/032 N04/003 N03/009 (PtSL,EA)			N03/014	N02/053	
pohutukawa-kanuka-puriri							
pohutukawa-toetoe N04/033							
puriri-karaka N03/027							
towai							
<i>PODOCARP-BROADLEAF FOREST</i>							
kahikatea-kanuka							
<i>PODOCARP FOREST</i>							
kahikatea							
totara							

WETLANDS	OTHER HOLOCENE		CRETACEOUS–CENOZOIC ROCK UNITS					MIXED
Ponded by Pleistocene dunes	Alluvial and swamp deposits	Harbour and estuaries	Mangakahia Complex mudstone & sandstone	Tangihua Complex igneous rocks	Houhora Complex sedimentary & igneous rocks	Matapia Formation pebbly sandstone	Karikari Plutonics intruding Houhora Complex	
								O03/006 (PtRR,MS,SR)
								O03/006 (PtRR,MS,SR)
								O03/004 (PtRR)
								O03/004 (PtRR)
								O03/006
O03/002 (PtMS)								O03/005 (PtRR)
				N03/035				
								O03/006 (PtRR,MS,SR)
			O04/226					
			O04/222 (PtQEII SR)					
			O04/217					

TABLE 3. SUMMARY OF SITE EVALUATIONS

(e.u. = ecological unit; reg. sign. = regionally significant species; rep. = representative)

LEVEL 1 SITES, Survey no.	REPRESENT-ATIVENESS ¹	RARITY ² /SPECIAL FEATURES	DIVERSITY AND PATTERN	NATURAL-NESS	BUFFER/LINKAGE/CORRIDOR	SIZE AND SHAPE
Te Paki Dunes N02/013	Rep. site.	Coastal dunes. Geo-preservation site of national importance. Flora: 1 threatened. Fauna: 2 threatened.	1 e.u.	Absence of adventive species. Pines border southeast.	N02/014 dissects. Adjoins N02/042. Adjacent to Te Paki ED sites.	1936 ha
Te Paki Stream N02/014	Rep. site.	Coastal, freshwater stream. Flora: 2 threatened, 1 reg. sign. Fauna: 3 threatened, 2 reg. sign.	2 e.u.s.	Relatively natural. High public use.	Dissects N02/013.	43 ha
Parengarenga Harbour N02/026	Rep. site.	High water quality. Diversity richness of biota. Important for endemic & indigenous migratory taxa. Geo-preservation site of national importance. Flora: 1 threatened (historical). Fauna: 10 threatened, 4 reg. sign. (1 historical).	3 e.u.s.	Few buffers on western side, some pine.	Vital stepping stone for migratory species; adjoins many other sites including a number in the Te Paki ED.	6449 ha
Ninety Mile Beach & Dunes N02/042	Rep. site for 4 e.u.s.	Coastal foredunes. Fauna: 6 threatened, 1 reg. sign. Flora: 3 threatened	5 e.u.s.	Pine forest adjoins. Weeds present.	Dune band. Buffers N02/043 from pine forestry. Adjoins numerous remnants/habitats.	928 ha, narrow band stretching N-S along W coastline of ED.
Waikanae Stream Wetland N02/043		West coast dune wetland. Fauna: Not surveyed. ³	1 e.u.	Weed component.	Enclosed within N02/042, links to N02/044.	2 ha
Lake Waikanae N02/044	Rep. site for 4 e.u.s.	Dune lake, broadleaf forest, shrubland. Flora: 1 threatened. Fauna: 1 threatened, 1 reg. sign.	7 e.u.s.	Weeds present. Pine forest adjoins.	Most of lake is buffered from adjacent pine forest. Partial link to N02/043.	252 ha, 6 remnants ⁴ , irregular shapes.

¹ Note that most sites have more than one ecological unit present. This column indicates whether or not the site has been selected as being a representative site for one or more ecological units.

² The rapid quantitative method used in this survey did not cover survey for rare species; in most cases species information in this column has been collated from other databases. It is likely that specific species surveys for all sites would reveal additional data on threatened and rare species, and in the case of Level 2 sites, a change in ranking.

³ Not surveyed: The Department of Conservation, Northland Conservancy, has not to date (April 2002) specifically surveyed for threatened species at this site.

⁴ Remnants in this column refers to the number of separate areas of habitat within the site.

LEVEL 1 SITES, Survey no.	REPRESENT-ATIVENESS	RARITY/SPECIAL FEATURES	DIVERSITY AND PATTERN	NATURAL-NESS	BUFFER/LINKAGE/CORRIDOR	SIZE AND SHAPE
Ngatuwhete Wetland N02/047		Swamp shrubland. Fauna: Not surveyed.	1 e.u.	Occasional willow.	Adjacent to N02/044.	8.7 ha, compact.
Kokota Spit N02/051	Rep. site.	Geo-preservation site of national importance. High tide roost site. Fauna: 7 threatened. Flora: 3 threatened.	2 e.u.s.	Pine forest adjoins; otherwise largely unmodified.	Southern entrance to Parengarenga Harbour. Adjoins N02/052.	1344 ha
Tangoake Shrubland N02/052		Fauna: Not surveyed. Flora: 1 threatened.	1 e.u.	Weeds present. Pine forest adjoins.	Buffer for Parengarenga Harbour.	138 ha, elongated.
Te Pua Point Pohutukawa Remnt N02/053	Rep. site.	Pohutukawa coastal forest. Fauna: Not surveyed.	1 e.u.	Small, isolated remnt.	Small buffer for Parengarenga Harbour.	6.3 ha, narrow strip.
Kaipohue Island N02/055	Rep. site.	Island habitat. Fauna: 5 threatened, 1 reg. sign. (past).	1 e.u.	Some weeds.	Part of Parengarenga Harbour ecosystem.	14.5 ha, compact.
Karatia Wetland N02/056	Rep. site for 4 e.u.s.	Dune wetland. Fauna: 1 threatened, 2 reg. sign. Flora: 2 threatened, 1 reg. sign.	5 e.u.s.	Pine forest adjoins. Limited exotics present, otherwise in good condition.	Links to Parengarenga Harbour & N02/068.	44 ha, elongated.
Whakatererohao Stream Swamp N02/057	Rep. site for 2 e.u.s.	Dune swamp/uncommon ecological sequence. Fauna: 2 threatened, 1 reg. sign.	5 e.u.s.	Good condition, forestry surrounds.	Links to Parengarenga Harbour.	18.4 ha, elongated with fork.
Emauhu Point Shrublands N02/058		Flora: 1 threatened (historical). Fauna: Not surveyed.	2 e.u.s.	Some weeds.	Buffer to upper reaches of Parengarenga Harbour.	31 ha, irregular.
Lake Kihona & Forest Remnants N02/060	Rep. site for 4 e.u.s.	Rare/uncommon vegetation types. Flora: 1 threatened (1984). Fauna: 2 reg. sign.	7 e.u.s. Habitat diversity.	Largely unmodified dune lake, some weeds. Forestry borders.	Part of suite of wetlands.	19 ha, elongated.
Lake Te Kahika N02/061	Rep. site for 3 e.u.s.	Wetland ecosystem/rare mosaic. Flora: 1 threatened, 1 reg. sign. Fauna: 1 threatened, 2 reg. sign.	5 e.u.s.	Unmodified lake/swamp. Weeds present. Forestry surrounds.	Link to coast & N02/051.	17.4 ha, 2 lakes, Lake Te Kahika is forked, smaller lake is narrow.
Waipara & Dead Lakes N02/065	Rep. site for 2 e.u.s.	Dune lakes. Fauna: 1 reg. sign. (reported).	6 e.u.s.	Some weeds present.	Proximity to N02/066 & N02/044.	9.8 ha, 2 remnts, main one compact.

LEVEL 1 SITES, Survey no.	REPRESENT-ATIVENESS	RARITY/SPECIAL FEATURES	DIVERSITY AND PATTERN	NATURAL-NESS	BUFFER/LINKAGE/CORRIDOR	SIZE AND SHAPE
Pretty Lake N02/066	Rep. site for 1 e.u.	Dune lake.	4 e.u.s.	Weeds present. Forestry surrounds.	Part of dune suite.	44.8 ha, elongated.
Upper Karatia Swamp N02/068	Rep. site.	Dune swamp. Flora: 1 threatened. Fauna: 1 reg. sign.	2 e.u.s.	Good condition. Mostly bordered by pines.	Links to N02/056.	34 ha, irregular.
Lake Austria & Shrubland N02/069	Rep. site for 2 e.u.s.	Dune lake. Fauna: 1 threatened, 4 reg. sign.	5 e.u.s.	Weeds present. Forestry surrounds.	Part of suite of wetlands.	19.7 ha
Ngatuwhete Lake N02/070		Large freshwater dune lake. Fauna: 1 threatened.	2 e.u.s.		Part of wetland chain. Close to N02/044. Unbuffered.	10 ha, compact round lake.
Matapia Island N02/073	Rep. site.	Island. Site endemic species Only known outcrop of Matapia Formation rocks. Fauna: 3 threatened, 1 reg. sign. Flora: 1 threatened.	5 e.u.s.	High quality.		2.3 ha
Te Ahu Rd N03/002		Flora: 1 threatened. Fauna: Not surveyed	3 e.u.s.	Weeds conspicuous.	Corridor between habitats.	179 ha, irregular.
Wild Horse Wetland N03/003	Rep. site for 1 e.u.	Dune wetland. Fauna: Not surveyed.	2 e.u.s.	Weeds present. Pines border.	Adjacent to coast & N02/042.	7.9 ha, compact round lake.
Pukekura Stream Wetland N03/004		Dune wetlands. Fauna: 2 reg. sign.	5 e.u.s.	Pines surround. Weeds present.	Series of linking wetlands to coast.	12 ha, 5 small remnts.
Te Arai Sandfields N03/009	Rep. site for 5 e.u.s.	Mobile duneland/rare mosaic of habitat types. Flora: 7 threatened, 2 reg. sign. Fauna: 3 threatened, 1 reg. sign.	9 e.u.s.	Habitat diversity. Pine forest adjacent. Weeds & horses present but retains a high level of naturalness.	Adjacent to coast & N02/042.	1253 ha
Oromanga Rd Wetlands N03/010		Dune wetland. Flora: 1 threatened. Fauna: Not surveyed.	3 e.u.s.	Forestry surrounds	Coastal link. Adjacent to N02/042	9.6 ha, elongated.
Henderson Bay Shrubland N03/014	Rep. site for 3 e.u.s.	Coastal shrubland. Flora: 2 reg. sign., at least 7 native orchids present. Fauna: 1 threatened, 1 reg. sign.	8 e.u.s.	Weeds present.	Adjacent to N03/016.	139.5 ha, 4 remnts, irregular shapes.
Great Exhibition Bay N03/015	Rep. site for 1 e.u.	Coastal dunes/rare habitat type. Flora: 1 threatened Fauna: 3 threatened.	2 e.u.s.	Limited modification. Marram & other weeds. Some pines.	Adjacent to N03/021-023, N02/051.	755 ha, stretching along E coast for c. 13 km.

LEVEL 1 SITES, Survey no.	REPRESENT-ATIVENESS	RARITY/SPECIAL FEATURES	DIVERSITY AND PATTERN	NATURAL-NESS	BUFFER/LINKAGE/CORRIDOR	SIZE AND SHAPE
Henderson Bay & Kowhai Beach N03/016	Rep. site for 2 e.u.s.	Important roost site. Flora: 1 threatened. Fauna: 5 threatened.	4 e.u.s.	Limited modification. Some weeds.	Adjoins N03/014, N03/024, 016, 036, N03/029, 038.	410 ha
Te Kao South Swamp N03/018	Rep. site for 1 e.u.	Dune wetland. Fauna: 1 threatened.	5 e.u.s.	Modified & weeds present. Portion adjacent to pine forest.	Linking wetlands. Part of suite.	83 ha, 2 remnts.
Te Ramanuka Lakes & Shrubland N03/019	Rep. site for 6 e.u.s.	Complex of lakes, wetlands, shrubland. Rare landform. Flora: 5 threatened. Fauna: 2 threatened, 4 reg. sign.	9 e.u.s.	Some water levels lowering, exotic weeds present.	Part of wetland suite of habitats.	423 ha, 1 main large remnt, sprawling, with 3 small outliers.
Henderson Bay Rd Wetlands N03/020	Rep. site for 1 e.u.	Dune wetlands. Fauna: 2 threatened, 1 reg. sign.	5 e.u.s.	Some weeds (margins). Surrounded by pasture.	Corridor.	10 ha, 3 remnts.
Lake Morehurehu & Wetland N03/021	Rep. site for 1 e.u.	Dune lake/ wetland. Flora: 1 threatened. Fauna: 1 threatened, 1 reg. sign.	3 e.u.s.	Pine forest surrounds majority of site. Good condition but some exotics present.	Adjoins N03/015.	56.6 ha, 3 remnts.
Wairahi Swamp & Lake Taeore N03/022	Rep. site for 2 e.u.s.	Dune wetland/ swamp. Soils of national importance. Flora: 1 threatened. Fauna: 3 threatened (2 past), 4 reg. sign. (1 past).	4 e.u.s.	Lake appears to be drying out. Weeds present.	Links to coast. Adjoins N03/015.	127 ha, 1 large & 1 smaller remnt.
Rarawa Beach N03/023	Rep. site for 1 e.u.	Coastal. Flora: 3 threatened. Fauna: 4 threatened.	4 e.u.s.	Mixed - some weeds, some areas in good condition.	Adjacent to N03/015 & N03/014.	59 ha
Wagener's Swamps N03/024	Rep. site for 1 e.u.	Swamp/ wetland. Fauna: 4 threatened.	5 e.u.s.	Pines & pasture border. Weeds present.	Link to coast. Adjoins N03/016 & 033. Close to N03/029	45 ha, 9 irregular shaped remnts.
Lake Waihopo & Shrublands N03/025	Rep. site for 2 e.u.s.	Dune lake/ wetland. Flora: 2 threatened. Fauna: 2 threatened, 1 reg. sign.	4 e.u.s.	Weeds present. Pines & pasture border.	Part of wetland suite of habitats.	101 ha, 3 irregular shaped remnts.
Lake Wahakari N03/026	Rep. site for 4 e.u.s.	Lake. Flora: 3 threatened. Fauna: 3 reg. sign.	5 e.u.s.	Generally good condition, some weeds present. Pines & pasture border.	Adjoins N03/002 & 007. Close to N03/008.	239 ha, large sprawling wetland.
Puriri-Karaka Remnant N03/027	Rep. site.	Broadleaf forest. Unique vegetation/ geomorphological combination. Flora: 1 notable.	1 e.u.	Isolated habitat type. Surrounded by pine.	Close to N03/009.	1.2 ha

LEVEL 1 SITES, Survey no.	REPRESENT-ATIVENESS	RARITY/SPECIAL FEATURES	DIVERSITY AND PATTERN	NATURAL-NESS	BUFFER/LINKAGE/CORRIDOR	SIZE AND SHAPE
Jackson Point Shrubland N03/029		Harbour habitat.	3 e.u.s.	Weeds present. Forestry borders NW end.	Important buffer to Harbour. Adjoins N03/024.	89 ha, 2 remnts. Elongated.
Te Raita Wetland N03/030	Rep. site for 1 e.u.	Dune wetland. Fauna: 1 threatened, 1 reg. sign.	2 e.u.s.	Weeds to margins.	Part of wetland suite of habitats.	9.9 ha, elongated.
Kaimaumau-Motutangi Wetlands N03/031	Rep. site for 7.e.u.s.	Oligotrophic wetland complex. Diverse habitats. Flora: 14 threatened, 3 reg. sign. Fauna: 8 threatened, 5 reg. sign.	9 e.u.s.	Weeds present. Mixed - some areas in excellent condition, others very weedy depending on water levels. Drier areas the weediest.	Adjoins Rangaunu Harbour & N03/040. Links with Houhora Harbour.	4075 ha
Hukatere Lookout N03/032	Rep. site for 4 e.u.s.	Coastal habitat. Fauna: Not surveyed.	5 e.u.s.	Weeds present but southern area in good condition. Forestry borders landward.	Adjoins N02/042.	207 ha, 5 remnts, 3 main, 2 outliers.
Houhora Heads Rd Wetland N03/034	Rep. site for 1 e.u.	Dune wetland. Fauna: Not surveyed.	2 e.u.s.	Limited modification. Weeds on border.	Buffered by shrubland.	9 ha, compact.
Mt Camel N03/035	Rep. site for 3 e.u.s.	Coastal forest/shrubland. Flora: 6 threatened (incl. 2 historical), 1 reg. sign. Fauna: 3 threatened, 3 reg. sign. (2 historical), & Northland endemic snails.	4 e.u.s.	Highly modified, regenerating. Weeds present, heavily grazed.	Buffer northern entrance to Houhora Harbour. Links N03/035 to Harbour.	291 ha, discontinuous, 1 main remnt, 7 outliers.
Kowhai Swamps N03/036	Rep. site for 3 e.u.s.	Wetland system/ uncommon habitat type. Fauna: 2 threatened.	4 e.u.s.	Forestry borders W side. Relatively weed free.	Coastal link. Adjacent to N03/016.	48 ha, fragmented, 3 remnts.
Pohutukawa Remnant N03/037	Rep. site for 1 e.u.	Rare habitat. Fauna: Not surveyed.	2 e.u.s.	Weeds present. Pine borders majority of site.	Coastal link. Adjoins N02/042.	55 ha, compact.
Houhora Harbour N03/038	Rep. site.	Harbour/ important for endemic & indigenous migratory taxa. Fauna: 9 threatened, 3 reg. sign.	5 e.u.s.	W side of harbour devoid of buffering vegetation. Modified in W & N by settlement & agriculture.	Vital habitat link with Rangaunu & Parengarenga Harbours.	c. 1534 ha
Arethusa Swamp N03/039		Dune wetland. Fauna: 1 threatened, 2 reg. sign.	3 e.u.s.	Prevalence of exotic/ weed sp. Pine borders E side.	Part of wetland suite of habitats.	15.3 ha, 4 remnts.
East Beach N03/040	Rep. site for 1 e.u.	Coastal foredune/ rare habitat type. Flora 2 threatened. Fauna: 6 threatened.	2 e.u.s.	Primarily indigenous foredune. Marram present.	Southern entrance Houhora Harbour. Adjoins N03/031 & O04/233.	627 ha

LEVEL 1 SITES, Survey no.	REPRESENT-ATIVENESS	RARITY/SPECIAL FEATURES	DIVERSITY AND PATTERN	NATURAL-NESS	BUFFER/LINKAGE/CORRIDOR	SIZE AND SHAPE
Waikokopu Shrubland N03/041	Rep. site.	Rare habitat type. Fauna: Not surveyed.	1 e.u.	Largely devoid of exotics. Surrounded by forestry.	Corridor habitat.	42 ha, rectangular.
Salvation Rd Swamp N03/043	Rep. site for 1 e.u.	Dune wetland. Fauna: 1 threatened, 1 reg. sign.	2 e.u.s.	Surrounded by pasture.	Part of suite of wetlands.	6.6 ha, rectangular.
Lambs Rd Swamp N03/044		Dune wetland. Fauna: 1 threatened.	3 e.u.s.	Grazed to margins.	Part of suite of wetlands.	8.4 ha, 2 remnants, irregular.
Salt Lake N03/046		Dune lake. Common waterbirds.	3 e.u.s.	Fenced.	Corridor.	9.5 ha, irregular.
Te Wakatehaua (The Bluff) Island N03/050	Rep. site for 5 e.u.s.	Island. Flora: 2 threatened, 1 notable. Fauna: 2 threatened	6 e.u.s.	Modification leeward side, otherwise high degree of naturalness.	Coastal. Links to N02/042.	7.2 ha
Motu Puruhi I. & Terakautuhaka I. N03/051	Rep. site for 3 e.u.s.	Island. Flora: 2 reg. sign. Fauna: 5 threatened.	4 e.u.s.	Predator & browser free. Good condition.		6.34 ha
Far North Rd Shrublands & Wetlands N04/002	Rep. site for 3 e.u.s.	Mosaic of shrubland & wetland habitats. Fauna: 2 threatened, 2 reg. sign.	8 e.u.s.	Weeds present. Some areas heavily grazed.	Corridor link.	206.8 ha, 8 remnants.
Compartment 65 Forest Remnant N04/003	Rep. site.	Coastal forest. Isolated vegetation type.	1 e. u.	Pines border. Small isolated habitat.	Close to N03/032, N02/042.	2.4 ha, compact.
Coal Creek Wetland N04/005	Rep. site for 1 e.u.	Rare habitat type. Flora: 1 threatened.	2 e.u.s.	3 separate small wetlands. Weeds present, pines border.	Coastal link. All 3 adjoin N02/042.	3.9 ha, 3 remnants.
Heath Rd Power-line Swamp N04/006	Rep. site for 1 e.u.	Swamp. Fauna: 2 threatened.	4 e.u.s.	Weeds present.	Close to Rangaunu Harbour & N04/002.	84.5 ha, 2 remnants.
Headquarters Pond N04/007	Rep. site.	Dune wetland. Flora: 1 threatened . Fauna: 2 threatened, 3 reg. sign.	1 e.u.	Some weeds. Forestry border.	Close to N04/002, 030	5.77 ha, elongated.
Lake Ngatu Complex N04/008	Rep. site for 6 e.u.s.	Dune lakes/wetlands. Flora: 1 threatened, 1 reg. sign. Fauna: 4 threatened, 2 reg. sign.	7 e.u.s.	Some weeds. Forestry & farming partially borders.	Close links to various wetland habitats.	154.8 ha, discontinuous, 1 main, 6 outliers.
Lake Rotokawau & Pond N04/009	Rep. site for 1 e.u.	Shallow lake. Flora: 2 threatened. Fauna: 2 threatened, 3 reg. sign.	4 e.u.s.	Good quality. Weeds on margin. 1 remnt grazed to margin.	Close links to various wetland habitats.	24.9 ha, 2 remnants.

LEVEL 1 SITES, Survey no.	REPRESENT-ATIVENESS	RARITY/SPECIAL FEATURES	DIVERSITY AND PATTERN	NATURAL-NESS	BUFFER/LINKAGE/CORRIDOR	SIZE AND SHAPE
Lake Waiparera & Wetlands N04/010	Rep. site for 3 e.u.s.	One of the best lake/wetland systems in ER. Flora: 3 threatened. Fauna: 3 threatened, 3 reg. sign.	7 e.u.s.	High quality. Exotics/weeds to margins. Forestry border SW portion.	Large area part of ED suite of wetland habitats.	212.3 ha, discontinuous, 1 main, 3 outliers.
West Coast Rd Lake N04/011		Dune lake. Flora: 1 threatened. Fauna: 2 threatened, 1 reg. sign.	2 e.u.s.	Good quality. Weedy margins, forestry & grassland border.	Corridor to various wetland habitats.	3.5 ha
Waipapakauri Beach Coastal Shrubland N04/015	Rep. site.	Rare vegetation type. Flora: 1 threatened. Fauna: Not surveyed.	1 e.u.	Kikuyu present.	Coastal link.	16.6 ha, compact, rectangular.
Sandhills Rd Swamp N04/016		Orchid habitat. Flora: 2 threatened, 2 reg. sign. Fauna: Not surveyed.	1 e.u.	Highly modified, planted exotics & weeds.	Close to N04/019.	0.6 ha
Sweetwater Station Depressions N04/017		Seasonally wet. Fauna: 1 threatened.	5 e.u.s.	Modified, weeds present. Grazed.	Close to N04/013, 021.	15 ha, 8 remnts.
Tangonge Wetland N04/018		Seasonally wet shrubland. Flora: 1 threatened (5 are historical). Fauna: 2 threatened, 2 reg. sign.	3 e.u.s.	Weeds present. Lowered watertable. Highly modified.	Close to O04/222 & various wetlands to the west.	486 ha, elongated.
Clarke Rd Wetland N04/019		Wetland. Common waterbirds.	2 e.u.s.	Grazed to margins.	Close to N04/016, 018.	3.1 ha, triangular.
Sandhills Rd Wetland No 1 N04/021	Rep. site for 1 e.u.	Peat swamp. Flora: 1 threatened. Fauna: 2 threatened.	4 e.u.s.	Some weeds. Areas grazed to margins.	Close to N04/017, N04/018,013.	14.1 ha, 3 remnts.
Lake Rotoroa & Wetlands N04/022	Rep. site for 2 e.u.s.	Dune lake. Flora: 2 threatened. Fauna: 2 threatened, 2 reg. sign.	4 e.u.s.	Some grazed, some weeds to margins/ planted exotics.	Largest lake in wetland suite in this area.	32 ha, discontinuous, 1 main, 2 outliers.
Lake Heather N04/023	Rep. site for 1 e.u.	Dune lake. Flora: 4 threatened, (1 historical). Fauna: 3 threatened, 1 reg. sign.	3 e.u.s.	Weeds present, fenced & being restored.	Part of suite of wetlands.	11 ha, 1 main, 1 outlier.
Split Lake Wetland N04/024	Rep. site for 1 e.u.	Suspended floating bog. Fauna: 1 threatened.	2 e.u.s.	Grazed to margins.	Part of suite of wetlands.	12.6 ha, irregular.
Mini & Round Lakes N04/025		Dune lake. Fauna: 2 threatened, 2 reg. sign.	3 e.u.s.	Grazed to margins.	Part of suite of wetlands.	9.9 ha, 4 remnts.
Turks Lake & Wetland N04/026	Rep. site for 2 e.u.s.	Dune lake. Flora: 1 threatened. Fauna: 1 reg. sign.	4 e.u.s.	Good quality. Exotics planted to margins. Forestry surrounds.	Part of suite of wetlands.	12.4 ha, rectangular.

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Bacica Rd Lake N04/027	Rep. site.	Dune lake. Flora: 1 notable. Fauna: 1 threatened, 1 reg. sign.	3 e.u.s.	Fenced. Forestry borders W boundary.	Part of suite of wetlands.	3.5 ha, compact.
Selwyn Flat Wetland N04/028	Rep. site for 1.e.u.	Dune lake. Flora: 1 threatened, 1 notable. Fauna: 1 reg. sign.	1 e.u.	Exotics planted to margins. Weeds present. Forestry border.	Part of suite of wetlands.	11.7 ha, triangular.
Herberts Swamp N04/029		Dune lake. Fauna: 2 threatened, 2 reg. sign.	2 e.u.s.	Relatively unmodified. Forestry SE. Some weeds, otherwise pasture to margins.	Part of suite of wetlands.	1.7 ha
Lake Ngakapua Complex N04/030	Rep. site for 5 e.u.s.	Dune lake/wetland complex. Flora: 3 threatened, 1 notable. Fauna: 2 threatened, 3 reg. sign.	8 e.u.s.	Weeds/exotics, some grazing, some fenced, some pines border.	Part of suite of wetlands.	30.6 ha, discontinuous, 7 remnts.
Jones Lake N04/031		Dune lake. Fauna: 1 threatened, 1 reg. sign.	2 e.u.s.	Some exotics to margins, incl. pines. Fenced.	Part of suite of wetlands.	1.75 ha
Gleeson's Lake N04/032		Dune lake. Common waterbirds.	2 e.u.s.	Grazed to margin.	Part of wetland suite.	2.6 ha
Ninety Mile Swamp N04/033	Rep. site for 2 e.u.s.	Freshwater wetlands. Flora: 1 threatened. Fauna: 1 threatened, 1 reg. sign.	3 e.u.s.	Pines border. Some weeds but relatively good condition.	Coastal link.	5.1 ha, 2 remnts.
Waimimiha Lakes N04/034	Rep. site.	Dune lake/wetland. Flora: 1 threatened (hist.). Fauna: 1 reg. sign.	2 e.u.s.	Grazed to margins.	Coastal link.	16.4 ha, 2 remnts.
Kaikoura Farms Wetland N04/035		Fauna: 1 threatened.	3 e.u.s.	Highly modified.	Part of wetland suite.	0.9 ha
Woolshed Swamp N04/037		Dune lake. Fauna: 1 reg. sign.	1 e.u.	Good quality.	Part of wetland suite.	1.15 ha
Sweetwater Station Peat Bowl N04/038	Rep. site for 2 e.u.s.	Dune wetland. Fauna: 1 reg. sign.	3 e.u.s.	Seasonally wet.	Part of wetland suite.	4.2 ha
Waimango Swamp O03/001	Rep. site for 3 e.u.s.	Coastal wetland. Flora: 5 threatened. Fauna: 10 threatened, 1 reg. sign.	5 e.u.s.	Some weeds but generally good condition.	Coastal link. Adjoins O03/004, O03/009.	297 ha, elongated.

LEVEL 1 SITES, Survey no.	REPRESENT-ATIVENESS	RARITY/SPECIAL FEATURES	DIVERSITY AND PATTERN	NATURAL-NESS	BUFFER/LINKAGE/CORRIDOR	SIZE AND SHAPE
Rotokawau Lakes & Puwheke Beach O03/002	Rep. site for 10 e.u.s.	Coastal complex/wetlands. Flora: 7 threatened (1 historical), 3 reg. sign. Fauna: 8 threatened, 3 reg. sign. (1 historical).	13 e.u.s. Dunes/wetlands/shrubland, dune lakes.	Weeds present, mostly at E end. Forestry adjoins SW corner. Recently cutover by subdivision development.	Coastal link/buffer. Close to O03/001.	433.6 ha, rectangular.
Maitai Bay O03/003	Rep. site for 1 e.u.	Sandy bay. Flora: 2 threatened, 1 reg. sign. Fauna: 5 threatened.	2 e.u.s.	Weeds present.	Coastal. Adjoins O03/006, 005.	23.9 ha, 2 remnts, coastal fringe.
Taupiroroa Range Shrublands O03/004	Rep. site for 3 e.u.s.	Large shrubland, coastal forest pockets. Flora: 5 threatened (incl. historical records).	7 e.u.s, sea level to 190 m.	Modified-regenerating by former & present clearance & fire. Some weeds/ exotics. Forestry adjoins SE & some in N.	Coastal & inland. Adjoins O03/009, 001.	945 ha, 6 remnts.
Cape Karikari Shrubland O03/005	Rep. site.	Area of pohutukawa coastal forest. Flora: 1 threatened (historical). Fauna: 1 threatened, 1 reg. sign.	3 e.u.s. Forest/shrubland/wetland.	Weeds present.	Link between Maitai & Karikari Moana (O03/009)	444 ha, 1 large area & remnt.
Whangatupere Bay O03/006	Rep. site for 5 e.u.s.	Coastal forest/shrubland. Flora: 2 threatened, 1 reg. sign. Fauna: 4 threatened, 3 reg. sign. & notable invertebrate	7 e.u.s.	Weeds present. Forestry border SW corner. Sense of naturalness augmented by size of area.	Coastal. Adjoins O03/003, links to O03/004.	1018 ha, large compact habitat.
S Ulrich Rd Wetland O03/008	Rep. site for 2 e.u.s.	Harakeke wetland. Fauna: 1 threatened.	3 e.u.s.	Weeds present in dry areas.	Coastal. Adjoins O04/232, O04/230.	29 ha, 2 remnts, separate wetlands, shrubland.
Karikari Moana O03/009	Rep. site.	Duneland. Flora: 4 threatened (1 historical). Fauna: 6 threatened.	1 e.u.	High quality.	Coastal. Adjoins O03/004 O03/001, 005.	136 ha, coastal band.
Puheke Rd Wetland O03/011		Flora: 2 threatened, 1 reg. sign. Fauna: Not surveyed.	1 e.u.	Drained pasture.	Close to O03/002.	0.4 ha
Moturoa Islands O03/012	Rep. site for 12 e.u.s.	Collection of islands. Important breeding area for seabirds. Fauna: 5 threatened, 2 reg. sign.	13 e.u.s.	Herbaceous weeds. 1 island modified but remainder in good condition. Islands possibly rat-free.		27.2 ha, 5 islands.
Waimanoni Creek Shrubland O04/217	Rep. site.	Alluvial flat. Fauna: Not surveyed.	1 e.u.	Weeds present.	Borders harbour.	3.4 ha
Paparore Wetland & Shrubland O04/220		Peat swamp shrubland. Flora: 1 reg. sign. Fauna: 2 threatened, 2 reg. sign.	3 e.u.s.	Some weeds.	Harbour link.	38 ha, 2 remnts, elongated.

LEVEL 1 SITES, Survey no.	REPRESENT-ATIVENESS	RARITY/SPECIAL FEATURES	DIVERSITY AND PATTERN	NATURAL-NESS	BUFFER/LINKAGE/CORRIDOR	SIZE AND SHAPE
Waiparera Creek Wetland O04/221	Rep. site for 3.e.u.s.	Freshwater wetland on margin of Rangaunu Harbour. Fauna: 2 reg. sign.	5 e.u.s.	Weeds present. Some stock damage.	Harbour link.	22.5 ha, rectangular.
Awanui River Forest Remnants O04/222	Rep. site.	On alluvial flat. Flora: 3 threatened, 3 reg. sign. Fauna: 3 threatened, 1 reg. sign.	5 e.u.s.	Highly modified. Most grazed.	River link, corridor.	50.5 ha, 18 remnants.
West Coast Rd Shrubland O04/223	Rep. site for 1 e.u.	Peat swamp/potential mudfish habitat. Flora: 1 threatened orchid. Fauna: 1 reg. sign.	4 e.u.s.	Weeds present.	Corridor.	21.8 ha, 1 main remnant, 3 outliers.
Mangatete River Bush O04/226	Rep. site.	Riverine forest. Fauna: Not surveyed.	1 e.u.	Unfenced, grazed and exotics, highly modified.	Links with harbour.	3.8 ha
Lake Ohia O04/227	Rep. site for 9 e.u.s.	Heath/ boglands. Nationally sign. soils. Flora: 10 threatened (1 historical), 3 reg. sign. Fauna: 4 threatened, 2 reg. sign.	11 e.u.s.	Some weeds present but large areas in good condition.	Links coast & inner harbour. Adjoins O04/232.	1641 ha, large sprawling habitat.
Lake Waiporohita O04/228		Freshwater lake. Flora: 2 threatened. Fauna: 3 threatened.	2 e.u.s.	Exotics/weeds present. Modified margins.		8.3 ha, compact.
Southern Tokerau Swamp O04/229	Rep. site.	Nationally threatened habitat type. Flora: 3 threatened (1 hist.), 1 reg. sign. Fauna: 2 reg. sign.	2 e.u.s.	Weeds present.	Contiguous with O04/227, 232.	84 ha, 2 remnants, irregular.
Northern Tokerau Swamp O04/230	Rep. site for 1 e.u.	Mineralised swamp. Flora: 2 threatened (historical). Fauna: 1 threatened, 1 reg. sign.	2 e.u.s.	Some weeds.	Adjoins O04/232.	71 ha, irregular.
Awapoko Estuary O04/231	Rep. site for 1 e.u.	Estuarine. Fauna: 7 threatened.	2 e.u.s.	Margins modified.	Coastal link. Adjoins O04/232, O04/227.	65 ha, elongated.
Tokerau Beach O04/232	Rep. site for 1 e.u.	Beach. Flora: 2 threatened. Fauna: 4 threatened, 1 reg. sign.	2 e.u.s.	Weeds throughout.	Adjoins O04/227, O04/229, 230, O03/ 008.	376 ha, coastal band.
Rangaunu Harbour O04/233	Rep. site.	Harbour/important for endemic & indigenous migratory taxa. Fauna: 9 threatened.	5 e.u.s.	High quality.	Vital habitat link with Houhora & Parengarenga Harbours. Adjoins many habitats incl. Lake Ohia, Kaimau-mau & Puwheke.	10 185 ha
Walker Island O04/235	Rep. site.	Island. Major roost site. Flora: 2 threatened. Fauna: 5 threatened.	2 e.u.s.		Major roost site.	26.5 ha, 2 islands.

LEVEL 2 SITES, Survey no.	RARITY/SPECIAL FEATURES	DIVERSITY AND PATTERN	NATURALNESS	BUFFER/LINKAGE/CORRIDOR	SIZE AND SHAPE
Tetehakehake Stream Shrubland N02/045	Fauna: Not surveyed.	1 e.u.	Regenerating.	Parengarenga Harbour buffer.	62 ha, discontinuous, 2 remnants, along harbour fringe.
Mitimiti Stream & Streak Hill Shrubland N02/046	Fauna: 1 threatened, 1 reg. sign.	2 e.u.s.	Regenerating. Weeds prevalent.	Buffer along stream, harbour from farmland.	76 ha, along harbour fringe & inland.
Sandhills Shrubland N02/048	Fauna: Not surveyed.	1 e.u.	Regenerating. Weeds common.	Corridor between forestry.	12 ha, narrow forked.
Te Karaka Point & Ngakarapu Stream Shrubland N02/049	Fauna: Not surveyed.	3 e.u.s.	Regenerating. Frequent weeds. Forestry adjacent N & W.	Buffer for harbour.	87 ha, 2 remnants separated by road.
Parengarenga Shrubland N02/054	Common bird species.	1 e.u.	Regenerating. Some weeds.	Buffer to harbour.	27 ha, 2 remnants.
Whawhakou Channel Shrublands N02/059	Fauna: Not surveyed.	1 e.u.	Regenerating.	Buffer to harbour. Narrow strip.	108 ha, discontinuous, 5 remnants, mostly narrow band along harbour edge.
Te Kao Shrublands N03/001	Fauna: Not surveyed.	2 e.u.s.	Regenerating. Weeds throughout. Forestry adjoins portion.	Corridor between habitats.	102 ha, 2 remnants, almost contiguous.
Te Keena Rd Shrublands N03/005	Fauna: Not surveyed.	1 e.u.	Regenerating. Weeds throughout. Forestry E side.	Corridor. Close to N03/021	58 ha, 2 remnants, adjacent, compact.
Oromanga Sandfield N03/006	Inland, dunes. Fauna: Not surveyed.	1 e.u.	Weeds throughout. Forestry surrounds.	Isolated.	2.3 ha
Te Kao Trig Shrubland N03/007	Fauna: Not surveyed.	2 e.u.s.	Regenerating. Weeds throughout. Forestry adjoins south.	Buffer to stream & corridor between N03/018, & 026.	44 ha, irregular.
Arterial Rd Shrublands N03/008	Fauna: Not surveyed.	1 e.u.	Regenerating. Some weeds. Forestry abuts south.	Partial corridor - N03/026 to N02/060.	12 ha, rectangular.
Salt Rd Shrubland N03/011	Fauna: Not surveyed.	2 e.u.s.	Regenerating. Some weeds.	Partial corridor.	19 ha, irregular.
Ngatamoroki Shrubland N03/013	Fauna: Not surveyed.	1 e.u.	Regenerating. Weeds present.	Buffer to wetland & corridor. Close to N03/009.	29 ha, rectangular.
Pahara Shrublands N03/017	Fauna: Not surveyed.	1 e.u.	Regenerating. Weeds conspicuous. Forestry adjoins portion.	Partial link to various habitats.	69 ha, rectangular with fork.

LEVEL 2 SITES, Survey no.	RARITY/SPECIAL FEATURES	DIVERSITY AND PATTERN	NATURALNESS	BUFFER/LINKAGE/CORRIDOR	SIZE AND SHAPE
Kimberley Shrubland N03/028	Not surveyed.	1 e.u.	Regenerating. Some weeds.	Isolated.	8.1 ha, compact.
Cemetery Rd Pond N03/042	Wetland. Common bird species.	2 e.u.s.	Very small area. Weeds on margins.		0.59 ha
Onepu Swamp N03/045	Raupo swamp Fauna: Not surveyed	1 e.u.	Fenced.	Near N03/046.	0.5 ha
Gully Lake N03/047	Common duck species.	1 e.u.	Weeds present. Forestry adjoins. Drying out.	Partial linkage.	1.2 ha
Big Flat Shrubland N04/004	Fauna: Not surveyed.	1 e.u.	Regenerating. Weeds frequent. Forestry borders south.	Partial link between various habitats.	11.9 ha, rectangular.
Airstrip Shrubland N04/012	Fauna: Not surveyed.	2 e.u.s.	Regenerating. Weeds frequent.	Partial link between various habitats.	71 ha, 2 remnts, almost contiguous.
Sweetwater Station Shrublands N04/013	Fauna: Not surveyed.	2 e.u.s.	Highly modified.	Partial link between various habitats.	43 ha, 2 remnts, elongated.
Rangiputa Rd Shrublands O03/007	Common waterbirds.	2 e.u.s.	Weeds present. Some forestry adjoins remnts.	Buffer to harbour/coast. Close to O03/002 & O04/223.	73 ha, mostly compact.

6. Acknowledgements

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