

# TERRESTRIAL AREAS OF SIGNIFICANT CONSERVATION VALUE

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# **PR14**

OTANGA

Pukeamaru

2A.1

665923: 615925

Recommended Area For Protection

AREA NAME: NZMS 260 Y14: STATUS: ECOLOGICAL DISTRICT: MAP:

Area Alt. range

Tawa-puriri-mangeao forest Tawa-puriri-(Kahikatea) forest Mangeao-puriri-tawa forest Puriri-pohutukawa forest Kahikatea-rimu(puriri) forest (Rimu)/tawa-pohutukawa-rimu forest on colluvial hillslope Pohutukawa forest (Pohutukawa)-Pittosporum Tenuifolium- ngaio-Hebe parviflora var. arborea - (mangeao) forest Tawa-pohutukawa-puriri forest (Mangeao)/manuka scrub Pohutukawa treeland Manuka-Cassinia-kanuka shrubland Cassinia/introduced grasses shrubland Glasswort - (sea celery) rockland

184 ha 0-360 m on hillslope on hillslope on hillslope on colluvial hillslope on colluvial hillslope

> on sea cliff on hillslope on hillslope on hillslope on sea cliff on hillslope, colluvial hillslope on hillslope on rock platform

NZMS 260 Y14: 641915 STATUS: Recommended Area for Protection ECOLOGICAL DISTRICT: Pukeamaru MAP: 2A.1 Area Alt. range Kahikatea-tawa-matai rimu forest Tawa-puriri forest (Rimu) - Tawa-puriri-broadleaved species forest Tawa forest (Rimu)-tawa-rewarewa/nikau-mahoe-ponga forest Pittosporum tenuifolium-mamaku-five finger forest Kanuka scrub Manuka scrub Raupo reedland

AREA NAME:

One of the largest of the few forested areas remaining on the Matakaoa Range. Tawa dominant forest with variable proportions of puriri and mangeao is interspersed with windthrow areas of broadleaved species forest. Included are remnants of podocarp forest on alluvial terrace and a small raupo swamp inhabited by fernbird.

Two of the few remaining remnants on the northern coast of the District. The larger area to the east has a high diversity of vegetation types while the smaller area is largely comprised of a mangeodominant community unique in the District. Mangeao has a local distribution in the District centered on the Matakaoa Range.

Podocarp associations close to the coast as found here, are rate elsewhere in the District. Manuka-Cassinia-Kanuka shrubland and scrub towards the margin of the natural area provides a good buffer.

Contains proposed local purpose recreation reserve (Transitional District (Waiapu County District Scheme) Plan).

1

# **PR36**

WAENGA

320 ha 20-377 m

on alluvial terrace on hillslope ridge on hillslope on hillslope on hillslope on hillslope, ridge on hillslope on hillslope on alluvial flat



**PR29** 

			AREA NAME:	Hicks Bay Dunes
AREA NAME:	Aunui		NZMS 260 Z14:	775886
NZMS 260 Y14:	700918		STATUS:	Recommended Area
STATUS:	Recommended Area fo	or Protection	ECOLOGICAL DISTRICT:	Pukeamaru
ECOLOGICAL DISTRICT:	Pukeamaru		MAP:	2A.2; 2A.3; 2A.4
MAP:	2A.1			
			Area	
Area	25	50 ha	Alt range	
Alt range	0-	510 m	-	
			Five finger-mahoe-(kohekohe)-	(tawa)-(pohutukawa)-
Pohutukawa forest	or	n sea cliff	(houpara) forest	
Tawa forest	or	n hillslope, ridge	<u>Spinifex hirsutus</u> - (pingao)gras	s-sandfield
Kamahi-Quintinia forest	or	n hillslope, ridge	<u>Carex pumila</u> - (pingao) sedge-	sandfield
Rewarewa/Pittosporum tenuifol	<i>lium</i> forest or	n hillslope	<u>juncus manumus</u> rusmanu Trialochin striatum-Scirpus cer	nuus herhfield
Broadleaved species-nikau-Hel	be parviflora var.		Plagianthus divaricatus-Leptoc	arpus similis
arborea-mamaku scrub	Or	hillslope	sedge-shrubland	<u>,</u>
Kanuka forest	or	hillslope	Scripus nodsus-Leptocarpus s	imilis- introduced grasses,
Manuka scrub	or	hillslope ridge	grass-sedgeland	
Introduced gracese	OI OI	hillslope	Sandfield	
แแบบนแลน นูเสรรสร	U	1 IIIISIOPE	Manuka scrup	

The largest area of intact tawa and broadleaved species forest on the northern coastal slopes of the District. Tawa forest with mangeao (a typical associated on the Matakaoa Range), hinau and rewarewa comprises the largest part of the forest and scrub-covered catchment. Very few puriri are associated with tawa despite the coastal location. Near the high point (510 m) on a coastal facing slope occur kamahi, Quintinia and Pseudopanax edgerleyi, an association typical of the lower montane zone (above 600 m).

High wildlife value assigned to an area due to the presence of the rare native frog leiopelma hochstetteri.

A high diversity of representative vegetation types is associated with the lagoon, Wharekahika River mouth, dune system and extensive sand plain. The largest colonies of pingao (rare) in the region are located at Hicks Bay amongst Spinifex on foredunes, and Carex pumila on sand plain.

Lupin shrubland

Vegetation zonation patterns, associated with tide levels, are evident along the lagoon and at the Wharekahika River mouth with <u>J. maritimus</u> and <u>L. similis</u> above high tide level and <u>T. striatum</u> (abundant), S. cernuus and J. maritimus below mean high tide level. Raupo and S. medianus grow in clumps in the lagoon. Associations of P. divaricatus-L. similis and S. nodosus-L. similis occur on sand plains beyond the mean tidal influence.

The vulnerable Carmichaelia williamsii and rare Brahcglottis perdicioides are found on the adjacent sea cliff predominantly covered with broadleaved species. Wildlife values are high with large numbers of estuarine birds including white heron (only periodically sighted).

Contains proposed local purpose scenic reserve (111) (Transitional District (Waiapu County District Scheme) Plan).

# ded Area for Protection

125 ha 0-140 m on sea cliff on foredune, sand plain on foredune, sand plain on tidal flat on tidal flat on sand plain on sand plain on sand plain on hillslope on foredune, rear dune, in dune hollow.



# **G11 Schedule**

# PP0

**PR20** 

AREA NAME:	Hicks Bay Conser	vation Area		
STATUS:	Protected Natural	Area (Conservation area)		
ECOLOGICAL DISTRICT	: Pukeamaru			
MAP:	2A.3; 2A.4			
Field Centre:	Gisborne	Inventory	y Ref:	Z14001
Local Authority:	Gisborne DC	File Ref:	LSC	3004
Sub Region:	Eastern Coast	Area (ha):	20.8	9868

Local Authority:	Gisborne DC	File Ref:	LSC
Sub Region:	Eastern Coast	Area (ha):	20.9
Tangata Whenua:	Wharekahika; Te Whanau-a-	CMP:	No
	Tuwhakairiora		
Legal Description:	Sections 2 and 24, Block VIII, Ma	atakaoa SD.	
General Description:	Duneland, wetland, pasture.		

# **Natural and Historic Values**

Exotic grasses, rushland (Juncus maritimus), sedgeland, sandfield. Species of interest include pingao and *Carex pumila*. 'Exceptional' botanical value. Part of a highly diverse example of representative vegetation types (Beadel 1989). This consists of duneland (50% wetland, 50% grassland). It is part of a category 1 Recommended Area for Protection (Regnier et al 1988).

Fauna include New Zealand dotterel, bittern, banded dotterel.

There is potential for general coastal recreation at the site.

# Threats to Natural and Historic Values

Pests include: domestic stock. Other threats include low-moderate (seasonal) visitor pressure.

# **Management**

Management needs: Pest control (Plant pest inventory); (stock exclusion); fencing; grazing licence; resource inventory; archaeological survey.

AREA NAME:	Waikohu
NZMS 260 Z14:	762888, 752882
STATUS:	Recommended Area
ECOLOGICAL DISTRICT:	Pukeamaru
MAP:	2A.3; 2A.4
Area	35 ha
Alt range	40-12
Black beech forest	on hil
Tawa-puriri-pohutukawa forest	on hil
Tawa-puriri-forest	on hil
-	

Two small remnants of coastal forest are associated with the marine terrace. Pohutukawa and black beech occur together on the terrace flank; an association which is almost certainly unique to the District, (J. Nicholls, pers. comm.). The remnant of tawa-puriri forest is the only remaining forest on marine terraces occurring throughout the Whangaparaoa-Wharekahika land system.

for Protection

20 m

llslope llslope Ilslope, marine terrace



# **PR1**

AREA NAME: NZMS 260 Z14: STATUS: ECOLOGICAL DISTRICT: MAP:

Area Alt range

Tawa-puriri forest Puriri-tawa forest Tawa forest Tawa-kohekohe forest Puriri-pohutukawa-tawa forest Black beech forest Pohutukawa forest Kohekohe-pohutukawa forest Kamahi-tawari-tawa forest (Pohutukawa)/kanuka scrub Phormium cookianum-manuka shrub-flaxland Rewarewa/five finger-Pittosporum tenuifolium - cabbage tree forest Broadleaved species scrub and forest Rewarewa/manuka scrub Five finger-cabbage tree-bracken shrubland Kanuka forest Manuka and Broadleaved species scrub Manuka-bracken fern-shrubland Reverting pasture grassland

Te Koau 772850 Recommended Area for Protection Pukeamaru 2A.3: 2A.5

> 1250 ha 0-673 m

on hillslope, ridge on hillslope, ridge, marine terrace on hillslope on colluvial hillslope on hillslope, knoll, sea cliff on ridge on hillslope on hillslope on hillslope, ridge on sea cliff on hillslope, sea cliff

on hillslope on marine terrace, hillslope, ridge on marine terrace on hillslope on hillslope on hillslope, marine terrace on hillslope, marine terrace, ridge The coastal associations are of particular importance as they do not occur in Pukeamaru Scenic Reserve. Tawa-puriri and puriri-pohutukawa-tawa forests in the natural area are the best representative examples in the District. In the latter type the rare <u>Brachyglottis perdicioides</u> is found in sea cliffs. <u>Olearia solandri</u> growing on the coast at Te Koau is the only sighting in the District. The endangered species, <u>Plantago picta</u> also occurs on sera cliffs here. Scattered stands of black beech, a distribution pattern typical of the district are most common here. In the adjacent Pukeamaru Scenic Reserve only a few isolated trees rather than stands of black beech, have been noted.

The broadleaved species forest and rewarewa/manuka scrub types here are the best examples in the District. <u>*Pittosporum ralphii*</u> found in rewarewa-five finger-<u>*Pittosporum tenuifolium*</u>-cabbage tree forest is at its northern limit (37° 35'), as specified by Druce (1972). The manuka scrub community is diverse and supports the only known population of <u>*Schizaea bifida*</u> in the district.

Early successional vegetation types (for example, rewarewa/manuka scrub, manuka scrub, and broadleaved species forest) provide a continuous vegetation cover between coastal and semi-coastal forests in the natural area and forests in Pukeamaru Scenic Reserve. The compact shape and size that this provides adds to the viability of the area.

Thick beds of limestone and associated caves occur near Haupara Pt with more extensive beds along the Nukutaharua Stm (ongley and MacPherson, 1928). Species typically associated with limestone may be found in a more intensive survey.

Contains three proposed local purpose scenic reserves.

Together, Te Koau natural area and Pukeamaru Scenic Reserve provide the only continuous altitudinal sequence from coastal and lowland to lower-montane and upper-montane vegetation types in the district.



PR6

AREA NAME:	Te Araroa		AREA NAME:	Kakanui ozosos
NZMS 260 Z14: STATUS: ECOLOGICAL DISTRICT:	810840 Recommeno Pukeamaru	ded Area for Protection	STATUS: ECOLOGICAL DISTRICT:	Recommended Area fo Pukeamaru
MAP:	2A.5		MAP:	2A.5, 2A.0
Area		210 ha	Area	1735 ha
Alt range		0-10 m	Alt range	10-384 r
<u>Triglochin striatum</u> - ( <u>Limosella li</u> <u>Spinifex hirsutus</u> - <u>Carex pumila</u> ( <u>Scirpus nodosus</u> ) sand-gravelfie Raupo reedland Raupo- <u>Phormium tenax</u> flax-reed <u>Scirpus nodosus</u> sedgeland Kanuka-manuka scrub	<u>neata</u> ) herbfield sedge-grassland eld dland	on tidal flat on foredune on sand-gravel plain in dune hollow in dune hollow on rear dune on rear dune	Puriri forest Tawa-puriri forest Tawa forest Rewarewa-tawa-puriri forest Black beech forest Hard beech forest	on marin on marin on marin on marin on ridge on marin
Manuka scrub		on rear dune, in dune hollow	Hard beech-kamahi forest Pohutukawa/kawakawa-tutu Pho	on hillsic o <i>rmium cookianum</i> -bracken
Kahikatea/ <u>Cyperus ustulatus</u> tree Cabbage tree - <u>willow/juncus</u> Lupin scrub	e-sedgeland	on alluvial terrace on alluvial terrace on rear dune	shrubland <u>Pittosporum tenuifolium-(P. ralph</u>	on hillslo <u>nii)-</u> tutu-supplejack-mahoe
			forest	on hillslo

The shingle dune system is a unique land form in this district comprising a series of parallel shingle dune ridges and hollows that represent old shorelines. The area includes a range of vegetation types that reflect drainage and salinity gradients. The freshwater wetlands in the poorly-drained hollows support manuka scrub, Phormium tenax flaxland, raupo reedlands and a small area of kahikatea-Cyperus ustulatus tree-sedgeland. The well-drained ridges have a cover of mainly manuka and lupin scrub.

The coastal wetlands comprise one of the few and most extensive salt meadows in the district. Coastal herbs include the threatened Mazus pumilio, and other uncommon species such as Lilaeopsis sp., Myriophyllum propinguum and Ranunculus acaulis.

Remnant kahikatea occur on a poorly drained alluvial terrace adjacent to the dune system. Coprosma propingua and Polygonum dicipiens, both found in association with Kahikatea, are in the district.

Both freshwater and saline wetlands have high wildlife values, with the lagoon at the Karakatuwhero River mouth supporting the highest number of wetland birds in the district.

Contains wildlife protection reserve (108) and proposed riverbank reserve (113) (Transitional District (Waiapu County District Scheme) Plan).

Kanuka-rewarewa forest

Kanuka-pohutukawa-mamaku forest

Tawa-kanuka-mamaku-five finger forest

Five finger-Pittosporum ralphii-mamaku scrub

Broadleaved species-hard beech-(kamahi) forest

Kanuka-five finger-mamaku forest

Kanuka-broadleaved species forest

Kanuka-Phormium cookianum shrubland

Phormium cookianum flaxland

(Rewarewa)/kanuka

Kamahi forest

Kanuka forest

Kanuka scrub

Manuka Scrub

Kanuka-manuka scrub

PR2

# for Protection

m ine terrace ine terrace ine terrace, hillslope, colluvial hillslope ine terrace, hillslope е ine terrace, gully, hillslope, ridge lope, ridge lope, sea cliff on hillslope on marine terrace on hillslope on hillslope, ridge on hillslope on hillslope on hillslope on ridge on hillslope, ridge on marine terrace, hillslope, colluvial hillslope, alluvial terrace on hillslope, ridge on hillslope on marine terrace on marine terrace Bracken-Phormium cookianum-manuka shrubland on marine terrace, hillslope on hillslope on marine sea cliff



Kakanui natural area includes the most extensive marine terrace system in the district, with some unique, and some of the best examples of landform-vegetation associations.

Unique in the district are the two vegetation types, one a relatively large, monodominant stand of puriri forest, and the other hard beech forest associated with the marine terrace. Also occurring here are some of the better examples in the district of tawa-puriri, tawa, and rewarewa-tawa-puriri forests on terraces, and broadleaved species forest on hillslope. Occasional black beech occur on ridges and an earlier survey recorded the nationally unique (J. Nicholls, pers. comm) association of black beech and pohutukawa. Another example of this association was found on the present survey at Waikohu.

Ecological patterns include a vegetation sequence from coastal shrubland, scrub and forest to lowland forest, and successional patterns resulting from slipping on unstable sandstone and from burning. Two plants of the endangered kaka beak, at two different sites, were found in seral vegetation. It is likely that others exist as it was very common in this locality in the early 1900's (R. McConnell, pres. comm.). *Pittosporum ralphii* is common in seral forest and scrub here but has a limited distribution elsewhere in the district.

Scattered plants of the wood rose (vulnerable) were found on the present survey on hillslopes associated with the marine terraces. These are the remnants of what was probably once a much larger population depleted by pig rooting and wood-rose collecting. The remnant population is one of few occurring outside the Volcanic Plateau area and is the only one known in the East Cape Ecological Region.

Adjacent to one of the terraces is a springfed wetland occupying a small basin in which grow a number of species, <u>Sparganium subglobosum</u>, <u>Spilobium pallidiflorum</u>, and <u>Drosera binata</u>, that are uncommon elsewhere in the district. <u>Epilobium chionanthum</u>, <u>E. billardieranum</u>, <u>Carex fascicularis</u> and <u>Hydrocotyle pterocarpa</u>, also found in the wetland, are new records for the district.

Waipuhake Stream, flowing through the natural area, is the only known locality of red-finned bully in the District (NZ Fisheries Research Division, unpublished).

Contains local purpose scenic and historic reserve (37) (Transitional District (Waiapu County District Scheme) Plan).

# **PR35**

AREA NAME:	Taikawakawa
NZMS 260 Z14:	927793
STATUS:	Recommended Area fo
ECOLOGICAL DISTRICT:	Pukeamaru
MAP:	2A.6
Area	400 ha
Alt range	60-309 ו
Tawa forest	on hillslo
Tawa-(puriri) forest	on hillslo
Hard beech forest	on ridge
Broadleaved species forest	on hillslo

One of the better remnants of forest in this part of the District with a vegetation pattern probably typical of the original cover of the now extensively cleared East Cape Land System. A reasonable sized area of tawa and tawa-(puriri) forests in excellent condition with scattered small stands of hard beech forest. Tawa forest on ridges has associate species such as Quintinia, <u>Dracophyllu latifolium</u> and heketara that are commonly found in hard beech forests.

or Protection

m

lope, ridge lope, colluvial hillslope e lope



PR19

AREA NAME:	Hautai			
NZMS 260 Z14:	955788		AREA NAME:	Rangiata
STATUS:	Recommena	led Area for Protection	NZMS 260 Y14:	986763
ECOLOGICAL DISTRICT:	Pukeamaru		STATUS:	Recommended Area
MAP:	2A.6; 2A.7		ECOLOGICAL DISTRICT:	Pukeamaru
			MAP:	2A.7
Area		225 ha		
Alt range		0-40 m	Area	20 ha
			Alt range	20-140
<u>Spinifex hirsutus</u> grassland		on foredune		
Scirpus nodosus-Cyperus ustulatu	<u><i>u</i>s</u> sedgeland	on sand plain	Kohekohe-puriri-tawa-tawapou	forest on hills
(Carex pumilla(Limosella lineata	) sandfield	on sand plain	Tawa-puriri-pohutukawa forest	on collu
Kanuka forest		on sand dune	Kanuka-manuka scrub	on hills
Pohutukawa/lupin scrub		on sand dune		
Lupin scrub		on sand dune, sand plain	The only example in the distr	ict of tawapou (other than
Sandfield		on sand dune, sand plain	nearby, NA 17). It is likely to	be the most viable southerr
			southern limit near Tolaga Bay.	

The Hautai area comprises a lupin dominant dune system with an extensive shifting sand plain that is unique in the district. <u>Austrofestuca littoralis</u>, a species with a local distribution nationally, is scattered along the base of the <u>Spinifex hirsutus</u>-covered foredune. <u>Mazus pumilio</u> (vulnerable, found in only two other localities in the district) occurs throughout pasture turf on poorly-drained depressions of the sand plain. Kanuka forest on sand dunes with an understorey of ongaonga is unique in the District.

The area is also of archaeological interest.

The canopy of the puriri-tawa-kohekohe-tawapou forest is in good condition although the understorey and ground cover are severely grazed. A single parapara (*Pisonia brunoniana*, the bird-catching plant) was known from this area until about five years ago when it was blown over in a storm. It was one of the last naturally occurring examples on the mainland, the only other being a recent unconfirmed sighting in Rodney County.

**PR16** 

for Protection

m

slope luvial hillslope, gully slope, ridge

n a few plants found at Lighthouse Reserve n population as only a few trees occur at the



**PR17** 

AREA NAME:	Lighthouse Reserve		
NZMS 260 Z14:	992753, 978732	AREA NAME:	Whangaokeno
STATUS:	Recommended Area for Protection	NZMS 260 Z14:	017750
ECOLOGICAL DISTRICT:	Pukeamaru	STATUS:	Recommended Are
MAP:	2A.7		Protected Area (Wil
		ECOLOGICAL DISTRICT:	Pukeamaru
Area	70 ha	MAP:	2A.7
Alt range	0-144 m		
		Area	25 ha
Puriri-tawa forest	on colluvial hillslope	Alt range	0-129
Kanuka- <u>Pittosporum tenuifolium</u> f	orest on hillslope		
Phormium cookanum-Pittosporur	<u>n tenuifolium</u> -	Introduced grasses ( <i>Festuca ar</i>	<u>undinacea</u> -dominant)
manuka shrub-flaxland	on hillslope, ridge	grassland	on hi
Kanuka scrub	on hillslope	(( <u><i>Plantago picta</i>))</u> rockland	on se
Kanuka-manuka- <u>Cassinia</u> scrub	on hillslope	(from B.D. Clarkson, 1984)	
(Coprosma repens)-(sea-celery)-	<u>Poa anceps</u> var.		
condensata)-(Plantago picta) rocl	land on sea cliff	Whangaokeno is the largest is	sland in the district and

The major feature of the Lighthouse Reserve is the sea cliff (height range 5-100m) with a sparse vegetation cover including the endangered species *Plantago picta*. It is the best example of this landform-vegetation association on the mainland in the district. The association also occurs offshore on Whangaokeno (NA 5).

Regenerating forest, scrub, flatland and a small patch of mature tawa-puriri forest (containing some tawapou) on hillslope behind the highest sea cliff, all in excellent condition, adds to the diversity of the natural area.

# Wildlife values are very high due to the presence of breeding colonies of fluttering shearwater, greyfaced petrel, sooty shearwater and probably black-winged petrel. White-faced storm petrel and little blue penguin are also present. Kiore is established here and has caused the extinction of the green

The endangered species *Plantago picta* is scattered on sea cliffs. Other notable species are *Sonchus* kirkii, Senecio banksii and a prostrate form of Hebe stricta var. macroura (B.D. Clarkson, pers. comm.).

Of historical interest is the old lighthouse site and artefacts that remain since its abandonment in 1922.

East Island (Wildlife Refuge Reserve)

15

na 29 m

PR5

a for Protection. Idlife Refuge Reserve)

illslope ea cliff

has high botanical and wildlife values. The "Wildlife Refuge" designation however does not provide adequate protection (Kelly, 1980).

form of tuatara known only from Whangaokeno (Moors, 1980).



Field Centre:	Gisborne	Inventory Ref:	Z14008
Local Authority:	Gisborne DC	File Ref:	ISL003
Sub Region:	Eastern Coast	Area (ha):	8.0937
Tangata Whenua:	Te Whanau-a-Hunaara	CMP: No	
Legal Description:	Whangaokino Maori Bloc	k, Block XVI, East Ca	be SD.
General Description:	Historic, Wildlife Refuge,	Coastal Vegetation, R	ockland.

# **Natural and Historic Values**

The reserve has a mixture of coastal herb and shrubfield, exotic grassland and rockland. There are four species of botanical significance including: Sonchus kirkii, Senecio banksii, a prostrate form of Hebe stricta, var. macroura and the endangered Plantago spathulata, var. picta. 'Exceptional' botanical conservation value (Beadel 1989). The reserve has been designated a category 1 RAP (Regnier et al 1988).

Fauna include: sea birds such as black wing petrel, fluttering sooty shearwater, blue penguins. 'Moderate' SSWI ranking (Rasch 1989).

The island is the site of an historic lighthouse and there are at least 17 recorded shipwrecks in the vicinity.

The Island is not available for recreational use.

### **Threats to Natural and Historic Values**

Pests include Norway rat, boxthorn.

#### Management

Management needs: pest control; interpretation; rehabilitation planting; archaeological/historic survey; reclassification (possible historic or marine reserve).

#### AREA NAME: Port Awanui NZMS 260 Z15: 895615 STATUS: **Recommended Area for Protection** ECOLOGICAL DISTRICT: Waiapu MAP: 2A.8; 2A.9

Total Area Percent primary Alt range **Bioclimatic zone:** 

This RAP is situated in the northeast of the Ecological District as Port Awanui. It consists of three separate, small remnants of pohutukawa treeland growing on steep, eroding hillsides running down onto the beach. of these, the northern two are the most extensive and least modified. Although the canopy trees are for the most part in good health, all three stands are very open, and weeds, in particular pampas and gorse, have the potential to cause problems. Other species present include Pinus radiata, ngaio, cabbage tree, manuka, kanuka, tauhinu, wharariki, and taupata.

Although the RAP is small, fragmented, and in poor condition, the ranking given it reflects the value of the pohutukawa stands it contains. Few healthy stands of this species remain in the Ecological District, and only one of these at Waimahuru By, is more extensive. Given that the future of pohutukawa now seems largely dependent on active management, this stand would seem to have high potential for restoration, which would require control of domestic stock, feral goats, and possums, removal of weeds, and perhaps supplementary planting of young pohutukawa and associated coastal species.

WR6

16 ha 87% 0-160m coastal



**G11 Schedule** 

# WR8

AREA NAME: NZMS 260 Z15: STATUS: ECOLOGICAL DISTRICT: MAP:

Kuratau 875593 Recommended Area for Protection Pukeamaru 2A.9

Total Area	49 ha
Percent primary	33%
Alt range	0-300 m
Bioclimatic zone	coastal

Situated northeast of Ruatoria and adjacent to the Kuratau Conservation Area, this RAP contains both steep hillslopes facing eastwards to the coast and gentler hillslopes facing inland and to the southwest. It contains a mix of primary forest and secondary forest and scrub, the primary forest dominated by kohekohe, puriri, and tawa, with pohutukawa and karaka on the coastal faces, and the secondary scrub and forest dominated by kanuka, except on more eroded coastal sites, where manuka and tauhinu are dominant. Both introduced weeds and soil erosion would present a problem to future reserve management.

The significance of this RAP reflects the value not only of the coastal and semi-coastal primary forest it contains, including the small stands of pohutukawa, but also the variety of primary and secondary successional communities dominated by either kanuka or manuka, with the latter unusual in the context of the Ecological District. It would strongly complement the values of the adjacent Conservation Area, which contains only small enclaves of primary forest and is dominated by a large, eroding gully.

# WP2

AREA NAME:	Ahikouka/Kuratau Co
STATUS:	Protected Natural Are
ECOLOGICAL DISTRICT:	Waiapu
MAP:	2A.9

# Ahikouka Land Conservation Area

Field Centre:	Gisborne	
Local Authority:	Gisborne DC	File Re
Sub Region:	Eastern Coast	Area (
Tangata Whenua:	Ngati Porou (Runanga)	
Legal Description:	Section 3, Block X, Waiapu	u SD, Part
General Description	: Coastal forest.	

# **Natural and Historic Values**

Coastal forest.

Details of natural, historic and recreational values unknown.

### **Threats to Natural and Historic Values**

Unknown.

### Management

Management needs: archaeological survey; botanical and faunal survey.

(2) Kuratau Conservation Area (=63 ha) is located on the coast northeast of Ruatoria. It contains both a small remnant of coastal forest dominated by tawa, kohekohe, and puriri, and areas of secondary vegetation dominated by kanuka on more intact soils, and by manuka, tauhinu, and toetoe on eroded sites with more skeletal soils. One small patch of pohutukawa grows at the eastern or coastal end of the Conservation Area. Much of the reserve has been badly affected by erosion, and this, together with browsing by feral goats and domestic stock, has allowed invasion by numerous weeds including gorse, sweet briar, privet and blackberry.

nservation Area ea (Land Conservation Area)

Z15003 **Inventory Ref:** 8/124 ef: (ha): 14.5560 CMP: No Ahikouka 2A Block



# **WR16**

AREA NAME: NZMS 260 Z15: STATUS: ECOLOGICAL DISTRICT: MAP:

**Total Area** Percent primary Alt range **Bioclimatic zone** 

Mataahu 804445 Recommended Area for Protection Waiapu 2A.11

> 376 ha nil 20-355m coastal to semi-coastal

Although lying between RAP 15 and the coast, this RAP differs markedly in the character of its landforms, consisting of an elevated plateau surrounded by steep, often precipitous slopes. This steeper relief reflects the base geology of Tokomaru sandstone, which has much higher mass strength than the surrounding Whangai Formation argillite/mudstones, and is therefore much less easily eroded. As such it is somewhat atypical of the Waipiro subdistrict, and is ecologically more akin to landforms of the Tokomaru subdistrict. The vegetation cover is predominantly secondary scrub and forest in which kanuka is dominant. However, advanced regeneration of forest species such as rewarewa and tree ferns, along with scattered wildling pines, occurs over quite large areas, particularly on less accessible parts of the main plateau and in sheltered gullies. Other important floristic elements include a number of large pohutukawa on some of the high cliffs, and areas of tauhinu-manuka scrub on eroded, steep coastal slopes in the southeast. Two small wetlands occur on the plateau (Photo 5), and these are dominated by raupo, baumea, Eleocharis, and/or sphagnum.

The high significance accorded to this RAP reflects its extensive areas of advanced secondary vegetation on a wide range of aspects and landforms, the high conservation value of its wetlands, which - with the exception of those on similar sites in the Waipare and Nuhiti scenic reserves - are less modified that any others seen in the Ecological district, and the presence of pohutukawa. The RAP also contains the site of a major historic Maori settlement, and has very high significance for local Maori.

WP5

AREA NAME:	Waimahuru Bay Sce
STATUS:	Protected Natural Are
ECOLOGICAL DISTRICT:	Waiapu
MAP:	2A.12; 2A.13

### Waimahuru Bay Scenic Reserve

Field Centre:	Gisborne
Local Authority:	Gisborne DC
Sub Region:	Eastern Coast
Tangata Whenua:	Whanau-a-Ruatauparea;Iritekura
Legal Description:	Lot 1 DP 8481 & Section 2, Block VI
<b>General Description</b>	: Coastal forest, Landscape

# **Natural and Historic Values**

It consists of a small conservation area located in the north of this subdistrict, augmented by an area recently purchased by the Department of Conservation. It contains an area of predominantly secondary coastal vegetation on steep coastal hill slopes, with kanuka the most widespread and dominant tree species. Growing in association with the kanuka are rewarewa and five finger in the canopy and Helichrysum aggregatum, raukumara, and/or prickly mingimingi in the understorey. Remnants of primary forest survive in gullies, generally containing tawa, kohekohe, rewarewa, tree ferns, and occasional large puriri. An extensive area of pohutukawa treeland occurs on the steep slopes along the coastal fringe.

Southernmost extent of significant pohutukawa on the eastern side of the North Island. Kohekohe, kowhai, raukumara (Brachyglottis perdicioides; 80% of its total, population). 'Very High' botanical conservation value (Beadel 1989).

Fauna include nesting seabirds and representative intertidal and subtidal marine animals (offshore).

There are general marine recreational opportunities in the reserve, such as diving. The area also has rare potential as a marine reserve, associated with one of the best examples of remnant coastal forest between Cape Paliser and East Island. The area is significant to Ngati Hineiti.

nic Reserve ea (Scenic Reserve)

#### **Inventory Ref:** Z16006 File Ref: CCL003 Area (ha): 264.6751 CMP: No III, Waipiro SD



# Threats to Natural and Historic Values

Pests include: possums, goats, pigs, cats, domestic stock, wilding pines, cannabis, broom. Other threats include adjacent forestry activities.

# **Management**

Management Needs: Fencing inventory; possum and goat control (high priority); plant pest control (wilding pine removal); name change; archaeological survey; rare plant (Raukumara daisy) monitoring; marine reserve.

#### AREA NAME: Tauhiti 785 325 NZMS 260 Z16: STATUS: Recommended Area for Protection ECOLOGICAL DISTRICT: Waiapu MAP: 2A.13

Total Area: Percent primary: Altitudinal range: **Bioclimatic zone:** 

Situated on the coast at the northern end of Tokomaru Bay, this large RAP occupies an extensive area of relatively high altitude and steep relief on a large block of Tokomaru Sandstone (cf. RAPs 16, 23, 25, 26), immediately south of the Waimahuru Bay Scenic Reserve. The central and western parts are drained by streams running generally north-south, and draining either into Tokomaru Bay or Waipiro Bay. Slopes are particularly steep in the east where faces drop of to the sea, and in the south towards Tokomaru Bay.

**WR19** 

The bulk of the area is occupied by secondary forest dominated by kanuka, which varies widely in age and in the amount of regeneration of forest species. Highly modified remnants of the original forest, mainly tawa, kohekohe, and puriri, survive mostly on sites protected from fires such as in the middle sections of some of the more deeply incised streams. A few black been trees have also survived on one or two sites in the centre of the RAP. Older secondary stands, often with good regeneration of forest species, predominate on the main plateau, but are less widespread on the steep south-facing slopes behind Tokomaru Bay where young stands with small enclaves of pasture predominate. Small groups of *Pinus radiata* are scattered throughout, mainly on upper slopes and ridgecrests. The eastern coastal faces are covered generally with secondary scrub and forest on the upper slopes, but vegetation on the lower slopes is generally more open, with large pohutukawa scattered through a mixture of shrubland, exotic pasture species, and active erosion surfaces. Manuka is locally dominant on eroded and/or more recently burnt areas, particularly on the coastal faces in the east.

The significance of this RAP stems largely from the quality of its secondary vegetation, which is extensive, contains good regeneration of primary forest species, and occurs over a wide range of altitudes and topographic units. Just as important, sufficient seed sources of tall forest species occur over most of the area to allow ongoing succession to tall broadleaved forest. The area also has high scenic qualities, providing an impressive backdrop to Tokomaru Bay.

1741 ha 3% 0-520 m coastal to lowland



# WP7

AREA NAME: STATUS: ECOLOGICAL DISTRICT: MAP: Waipare and Nuhiti Q Scenic Reserve Protected Natural Area (Scenic Reserve) Waiapu 2A.14; 2A.15

(7) Waipare and Nuhiti scenic reserves (=2137 ha combined) occupy the high plateau and its steep flanks to the north-west of the Anaura Bay reserve. They consist of secondary forest and scrub, with small primary forest remnants dominated by species such as kohekohe, tawa, pukatea, and nikau remaining in some of the deeper gullies. Kanuka, rewarewa, and kamahi are dominant over large areas, but black beech is locally dominant on dry ridges. Important features include cliff sites on which kowhai ngutukaka has been found, relatively unmodified wetlands on the plateau top, and the presence of a wide range of fauna including brown kiwi. Cliff sites are dominated by wharariki, karamu, <u>Gahnia pauciflora</u>, and kowhai. The wetlands are dominated by manuka, harakeke, toetoe, raupo, <u>Hebe stricta</u>, and species of <u>Carex</u>, <u>Baumea</u>, and <u>Eleocharis</u>.

# Waipare Scenic Reserve

Field Centre:	Gisborne	Inventory Re	ef: Z160	)14
Local Authority:	Gisborne DC	File Ref:	RSN037	
Sub Region:	Tairawhiti	Area (ha):	996.	6370
Tangata Whenua:	Ngati Whakara	CMP:	No	
Legal Description:	Tokomaru L and	M Blocks and Section	1, Blocks XI,	XII, XV and XVI
	Tokomaru SD			
General Description:	Wetland, shrublan	d.		

# **Natural and Historic Values**

Shrubland composed of kanuka/manuka with mingimingi, olearia, ti ngahere and tauhinu. There is a wetland on the Waipare Plateau with raupo, harakeke, toetoe, manuka and kiokio. The area is the only intact wetland surrounded by an indigenous forest catchment in the Waiau Ecological District. The reserve contains the endangered plant kowhai ngutukaka (*Cliathus punicius*, otherwise known as 'kaka beak') (Beadel 1988).

Fauna include bush birds such as weka, kereru, pied tit and whitehead, with falcon and possible kiwi. It is possible the 'giant gecko' (kawakaweau) is also present in the reserve.

There is a recorded historic pit site (Z16/159) and other possible unrecorded sites. The area is culturally significant to Ngati Whakara. Recreational opportunities include hunting.

# **Threats to Natural and Historic Values**

Pests include: goats, possums, cats, mustelids, domestic stock. wilding pine, thistles.

# <u>Management</u>

Management needs: fencing complete (NE boundary); possum and goat control (high priority); wilding pine control; access; adjacent land acquisition; archaeological survey; recreational development.

# Nuhiti Q Scenic Reserve

Field Centre:	Gisborne	
Local Authority:	Gisborne DC	File R
Sub Region:	Tairawhiti	
Tangata Whenua:	Ngati Whakara	
Legal Description:	Lot 1. DP 7090, BI	ocks XI an
General Description:	Secondary lowland	d forest

# Natural and Historic Values

Secondary lowland forest (with a history of clearance for farming activities) including kanuka-rewarewakamahi forest, manuka shrubland and tawa forest. Fauna include bush birds (weka, kereru, pied tit, whitehead) falcon and possible kiwi. it is also possible that the 'giant gecko' (kawakaweau) is present in the reserve.

There is one recorded pa site with associated terraces (Z16/199) in the reserve.

The reserve has few recreational opportunities although recreational hunting is encouraged.

# **Threats to Natural and Historic Values**

Pests include: goats, possums, domestic stock, cats, mustelids, wilding pines. Other threats include fire.

# <u>Management</u>

Management needs: fencing; possum and goat control (high priority); wilding pine control; archaeological survey (historic places register).

 Inventory Ref:
 Z16017

 ef:
 RSN037

 Area (ha):
 1140.00

 CMP:
 Yes

 nd XII, Tokomaru SD



Altitudinal range:

**Bioclimatic zone:** 

# G11 Schedule

# WR22

AREA NAME:	Mauhai Point
NZMS 260 Z16:	795222
STATUS:	Recommended Area for Protection
ECOLOGICAL DISTRICT:	Waiapu
MAP:	2A.14
<b>T</b> ( ) <b>A</b>	<i>.</i>
lotal Area:	1 ha
Percent primary:	100%

This RAP consists of a small and isolated stand of pohutukawa forest situated on a coastal hilltop and adjacent steep, eroding faces on Mawhai Point, at the southern end of Tokomaru Bay. Although not visited on the ground, it was identified during an aerial inspection of coastal sites, and was estimated to contain 30 or more large canopy trees in relatively good health.

60-100 m

coastal

The significance of this RAP stems from the health pohutukawa forest it contains, a community now rare in the Ecological district. The only other substantial stands are located at Port Awanui (RAP 6), in the Waimahuru Bay Scenic Reserve, and on the coastal parts of Tawhiti (RAP 19). The area is currently unfenced and subject to grazing by domestic stock.

# WP6

AREA NAME: STATUS: ECOLOGICAL DISTRICT: MAP: Anaura Bay Scenic Reserve Protected Natural Area (Scenic Reserve) Waiapu 2A.15

(6) Anaura Bay Scenic Reserve (225 ha) extends from the coast at Anaura Bay 2 km inland on the northern side of the Anaura Stream. Approximately one-third of this area supports diverse primary mixed broadleaved forest on gently sloping terrain, dominated by tawa and puriri, kohekohe, and some kowhai, rewarewa, titoki, cabbage tree, kahikatea, and pohutukawa.

The remainder of the area is secondary forest, much of it on dry, exposed hill slopes, dominated by kanuka along with rangiora, bracken, rewarewa, lancewood, mahoe, kohuhu and tree ferns. Some large puriri, kohekohe, tawa and kahikatea occur in the gullies.

Field Centre:	Gisborne	
_ocal Authority:	Gisborne DC	File Re
Sub Region:	Eastern Coast	Area (I
Fangata Whenua:	Ngati Whakara	
_egal Description:	Sections 11-13, 15	5 and 16, B
General Description:	Primary coastal to	semi-coas

# **Natural and Historic Values**

Coastal to semi-coastal primary mixed broadleaved forest with tawa-kohekohe-puriri forest with pohutukawa. Species of particular importance are: raukumara (*Brachyglottis perdicioides*), a 'vulnerable' plant; tawhai rauriki *Nothofagus solandri*, var. *solandri*) or black beech; and tawapou *Planchonella costata*). 'Exceptional' botanical conservation value (Beadel 1989). Fauna include: common bush birds and a possible 'giant gecko' (kawakaweau).

There are 16 recorded historic sites in the reserve, including: pits (Z16/12, Z16/13, Z16/47-50, Z16/53, Z16/54, Z16/56, Z16/117), midden/pits (Z16/10); pits/ditch (Z16/11); pits/terraces (Z16/16, Z16/57, Z16/113); pits/terraces/midden (Z16/59).

Recreational opportunities in the reserve include: walking, birdwatching and general sight-seeing. Recreational facilities include: the Anaura Bay Walkway (3.5 km long, partly within Hikurangi Forest Farms private land); signage and stiles.

# **Threats to Natural and Historic Values**

Pests include: goats, possums, domestic stock, cats, mustelids, thistles. There is a seasonal visitor pressure (high from December-January). Other threats include fire.

# **Management**

Management Needs: fencing (stock exclusion; possum and goat control (high priority); archaeological survey; assess management of archaeological sites; grazing; facilities (signs and styles).

Inventory Ref: Z16015 ef: RSN030 (ha): 225.3401 CMP: Yes Block XVI Tokomaru SD. stal forest.



# WR24

AREA NAME:	Anaura Bush	AREA NAME:	Motuora Island
NZMS 260 Z16:	744150	NZMS 260 Z16:	770145
STATUS:	Recommended Area for Protection	STATUS:	Recommended
ECOLOGICAL DISTRICT:	Waiapu	ECOLOGICAL DISTRICT:	Waiapu
MAP:	2A.15	MAP:	2A.15
Total Area:	33 ha	Total Area:	
Percent primary:	77%	Percent primary:	
Altitudinal range:	20-200 m	Altitudinal range:	
Bioclimatic zone:	coastal	Bioclimatic zone:	

This RAP lies in a gently sloping basin of southerly aspect on the coast approximately 1km south of the Anaura Bay Scenic Reserve. The majority of the area is covered in primary forest in which tawa, puriri, and kohekohe are dominant, with pukatea, hinau, lacebark, rewarewa, cabbage tree, lancewood and karaka also present. The balance is secondary kanuka forest which also contains scattered puriri, putaputaweta, and kowhai, with <u>Coprosma rhamnoides</u> dominant in the understorey. A number of introduced silk tree occur along one margin, and may cause problems if they spread into the secondary stands.

Although the semi-coastal forest of this RAP is similar in composition to that found in the nearby Anaura Bay Scenic Reserve, protection has been recommended because of the comparatively small amount of primary forest left in this subdistrict. Motuora Island 770145 Recommended Area for Protection Waiapu

**WR32** 

This island, which lies 700m of the beach at Anaura Bay, supports a mosaic of secondary vegetation the composition of which is strongly influenced by aspect. On the northern side eroding, bare rockfaces predominate, but small pockets of scrub and low forest contain <u>*Pittosporum ralphii*</u>, kakamu, titoki, mapou, mahoe, and cabbage tree. In contrast, the southern face and western end are mainly vegetated, and support low coastal forest dominated by titoki, whau, mahoe, kohekohe, mapou and <u>*Pittosporum ralphii*</u>, karaka occur on the lower spurs. A wide range of introduced plant species are also present.

The significance of the RAP stems mainly from its distinctive island character, its archaeological sites, and the presence of breeding populations of seabirds, including probably grey-faced petrels. It has an SSWI (Site of Special Wildlife Interest) ranking of 'moderate'.

17 ha nil 0-107 m coastal



# **WR34**

AREA NAME:	Raponga Stream
NZMS 260 Z16:	753111
STATUS:	Recommended Area for Protection
ECOLOGICAL DISTRICT:	Waiapu
MAP:	2A.16
Total Area:	5 ha
Percent primary:	nil
Altitudinal range:	40 m
Bioclimatic zone:	coastal

This RAP, very similar in character to RAP 10, is located near the coast above Marau Beach, between Tolaga Bay and Anaura Bay. It contains a small, elongated area of wetland vegetation which occupies a very gently sloping site in the head of the Raponga Stream, a catchment draining away from the coast towards the west. The vegetation consists predominantly of raupo reedland in wetter areas, with Cyperus ustulatus and Carex geminata more abundant towards the better drained margins. Cabbage trees are scattered throughout.

Although modification by stock threatens the ecological integrity of the site, it remains significant given the relative paucity of wetlands in the Ecological District.

#### AREA NAME: Kaiaua Bush NZMS 260 Z16: 760104 STATUS: **Recommended Area for Protection** ECOLOGICAL DISTRICT: Waiapu MAP: 2A.16 Total Area: Percent primary: Altitudinal range:

This RAP is located in a gently sloping, southward-facing basin on the coast at the northern end of Kaiaua Bay. It contains a fine example of primary mixed coastal forest, which occupies a full sequence of landforms from ridges, through gentle sideslopes, to alluvial valley floor. The canopy is dominated by tawa, puriri and kohekohe, with rewarewa, northern rata, kahikatea, titoki, hinau, laceback and ngaio also common. Smaller areas of scrub to the east contain woolly nightshade and gorse, and these may cause problems if there is any disturbance to the canopy.

**WR35** 

This RAP has been ranked highly given that it contains the best example of primary semi-coastal forest on hillslopes left in the subdistrict, and arguably one of the best examples of such forest in the entire Ecological District. It has an SSWI (Site of Special Wildlife Interest) ranking of 'moderate', with common bush and field birds including kereru recorded. Grazing of domestic stock is causing ongoing modification of the understorey, but given the fertility of the site and the warm climate, good recovery could be expected if the block were fenced. Remains of the old coastal road which runs through the RAP are still visible, including some of the original culverts constructed from puriri.

# **WP12**

AREA NAME: STATUS: ECOLOGICAL DISTRICT:

Bioclimatic zone:

Tatarahake Cliffs Waiapu

Tatarahake Cliffs (12). These are located along the northern perimeter of Tolaga Bay stretching from Te Karaka Point in the northeast almost to State Highway 35 in the southwest, and are covered with scattered scrub and low forest interspersed with erosion scars.

31

62 ha 100% 20-180 m coastal

Protected Natural Area (Open Space Covenant)



# **WR36**

AREA NAME:	Tolaga Bay Estuary
NZMS 260 Z17:	740997
STATUS:	Recommended Area for Protection
ECOLOGICAL DISTRICT:	Waiapu
MAP:	2A.17
Total Area:	48 ha
Percent primary:	Nil
Altitudinal range:	0 m
Bioclimatic zone:	coastal

AREA NAME: NZMS 260 Z17: STATUS: ECOLOGICAL DISTRICT: MAP:

Pourewa Island 767995 **Recommended Area for Protection** Waiapu 2A.17

**WR37** 

Total Area: Percent primary: Altitudinal range: Bioclimatic zone:

Located immediately southeast of Tolaga Bay township, this RAP consists of an estuary formed where a southern tributary of the Uawa River has been enclosed by a sand dune spit. At the southern end of the estuary and along its western margins, oioi-Isolepis sedgeland occurs on the lowest lying areas, while saltmarsh species such as marsh ribbonwood and Muehlenbeckia complexa dominate the margins (Photo 6). Vegetation on the sandspit has been subject to severe modification. Recently burnt areas are covered by spinifex and marram, but elsewhere these species have been overtopped by a range of woody weeds including boxthorn, gorse, and blackberry, and plated *Pinus radiata*. Behind the camping ground there are small areas of <u>Spartina</u> and mangrove, both of which have been plated, and a number of individuals of Olearia solandri, a shrub with a very localised region distribution.

The RAP has very high significance, containing the only sizeable estuary in the entire Ecological District. As such it contains a number of plant species which in the Ecological District are almost entirely restricted to this site. It has an SSWI (Site of Special Wildlife Interest) ranking of 'moderatehigh', with a diverse range of wader and field species including banded dotterel and reef heron recorded. The western margins of the estuary have been heavily modified by cattle grazing and rubbish dumping, and some protection/amelioration would greatly benefit the area.

Pourewa Island lies at the entrance to Tolaga Bay immediately adjacent to Cook's Cove, and is separated from the mainland by only a small channel, shallow enough to be waded at low tide. Although the western faces of the island are only moderately steep, the northern, eastern and southern slopes are mostly precipitous and unvegetated, reflecting their much greater degree of exposure to erosion by wave action. The vegetation is highly variable, reflecting its periodic disturbance as a result of prolonged human use. Rank pasture has been gradually invaded by woody species, so that scrub and low forest now predominate over approximately half the island, and particularly on steep sites. It consists of varying proportions of manuka, karo, bush wattle, kawakawa, wharariki and tutu. Bracken and exotic pasture species are dominant on the balance of the vegetated area, generally on sites of moderate slope. One small area with poor drainage is dominated by raupo.

In common with Motuoroi Island (RAP 32), this RAP has high conservation value given its distinctive island character, breeding populations of several common seabirds, and very high archaeological and historical values. However, it lacks the diversity of vegetation and the breeding populations of burrowing seabirds of the former. It has an SSWI (Site of Special Wildlife Interest) ranking of 'moderate-high'.

39 ha Nil 0-100 m coastal



# WR38

AREA NAME:	Hauiti Coastal Karaka Forest
NZMS 260 Z17:	758968
STATUS:	Recommended Area for Protection
ECOLOGICAL DISTRICT:	Waiapu
MAP:	2A.18
Total Area:	4 ha
Percent primary:	100%
Altitudinal range:	85-220 m
Bioclimatic zone:	coastal

This small RAP is located on a very steep face surrounded by unstable coastal cliffs, approximately 3 km south of Cook's Cove. Although small, it has been given a high ranking because is contains the only reasonably extensive example of coastal karaka-dominant forest remaining in the Ecological District. Other species present include kohekohe, mahoe and puriri. Lancewood, kowhai, kohuhu and *Pittosporum ralphii* are common around the margins, and tauhinu and exotic grasses are dominant on vegetated parts of the adjacent unstable faces. Removal of feral goats would greatly enhance the viability of the forest.

WR49

AREA NAME:	Waihau Road Wetland
NZMS 260 Z17:	710910
STATUS:	Recommended Area for Protection
ECOLOGICAL DISTRICT:	Waiapu
MAP:	2A.18; S2.19
Total Area:	8 ha
Percent primary:	nil
Altitudinal range:	80 m
Bioclimatic zone:	coastal

This wetland RAP is situated in a very gently sloping valley bottom, just to the south of RAP 48 (see also Nos 47, 48 and 50). The vegetation is dominated by raupo, manuka and harakeke, but with a sedge and rush-lined margin. Blackberry, sweet briar, and willows also occur around the margins. As already noted, comparatively few wetlands occur in the Ecological District, and areas such as this are valuable despite their ongoing modification by grazing, particularly by cattle, which present a significant threat to the long-term integrity of the site.

AREA NAME:	Whangara Beach
NZMS 260 Y18:	658800
STATUS:	Recommended Area f
ECOLOGICAL DISTRICT:	Waiapu
MAP:	2A.20

Total Area: Percent primary: Altitudinal range: Bioclimatic zone:

**Bioclimatic zone:** 

This RAP consists of a relatively narrow string of duneland stretching approximately 1 km north along the coast from the settlement of Whangara. The vegetation over most of the area consists of spinifex and/or marram, with occasional <u>Isolepis nodosa</u>, harestail, Indian doab, ratstail, catsear, <u>Calystegia</u> <u>soldanella</u>, <u>Zoysia pauciflora</u>, <u>Coprosma acerosa</u> and one patch of planted pingao. This is one of three coastal RAPs clustered together in this subdistrict (see also Nos 56 and 58), all of which are significant given the relative scarcity of dunelands in the Ecological district.

# WR56

AREA NAME:	Waiomoko River Mout
NZMS 260 Y18:	650788
STATUS:	Recommended Area for
ECOLOGICAL DISTRICT:	Waiapu
MAP:	2A.20; 2A.21
Total Area:	
Percent primary:	1
Altitudinal range:	

This is one of a cluster of three RAPs situated on the coast in the east of this subdistrict (see also Nos 55 and 58), and consists of dunelands stretching southwards from the mouth of the Waiomoko River. It is probably the most valuable of these coastal RAPs. The vegetation is notable for the dominance by native grasses and sedges, including <u>Spinifex</u>, <u>Zoysia</u>, <u>Deveuxia</u>, <u>Isolepis</u> and <u>Austrofestuca</u>, the latter a threatened species of very local distribution. Although introduced marram is also present, it is restricted to two relatively small areas. The area has an SSEI (Site of Special Wildlife Interest) ranking of 'moderate', with a range of waders and waterfowl recorded, including banded dotterel.

for Protection

22 ha nil 0-5 m coastal

th

for Protection

16 ha nil 0-5 m coastal



# WR57

AREA NAME:	Whitiwhiti Stre
NZMS 260 Y18:	628783
STATUS:	Recommende
ECOLOGICAL DISTRICT:	Waiapu
MAP:	2A.21
Total Area:	

Percent primary: Altitudinal range: Bioclimatic zone: hitiwhiti Stream Bush 8783 ecommended Area for Protection aiapu 1.21

> 15 ha 100% 20-100 m semi-coastal

This RAP consists of a small fragment of primary coastal hillslope forest growing on moderately steep hillslopes, approximately halfway between the Waiomoko and Pouawa river mouths. Kohekohe, puriri, and tawa are dominant in the canopy, with rewarewa, kanuka, pukatea, titoki, matai, white maire, lacebark, and ngaio also present. The RAP is unfenced and subject to grazing; as a consequence, the margins are becoming quite ragged.

Despite its small size and high degree of modification this RAP contains the most sizeable piece of coastal forest remaining in the southeast of the Ecological District. An adjacent small fragment to the west has been excluded as, given its small size, it is unlikely to form a viable unit for protection in the long term.

AREA NAME: NZMS 260 Y18: STATUS: ECOLOGICAL DISTRICT: MAP:

Total Area:

Percent primary:

Altitudinal range:

Bioclimatic zone:

Pouawa River Mouth 615755 Recommended Area for Protection Waiapu 2A.21

**WR58** 

This is a third of a cluster of three RAPs situated on the coast in the east of this subdistrict (see also Nos 55 and 56), and consists of a small area of estuary and duneland centred on the mouth of the Pouawa River. A small area of ponded estuary along the northern margin is lined by <u>Juncus</u> and <u>Carex</u> species. Duneland on both sides of the river mouth is dominated by <u>Spinifex</u> and marram, along with **Isolepis nodosa**, <u>Carex pumila</u>, harakeke, and a wide range of introduced species. A long established patch of pingao grows on the eastern side of the river mouth, and a small area of willow-dominated shrubland lies along the road margin in the northeast. The area has high significance both for its duneland and estuarine vegetation and for the feeding and breeding habitats it offers to coastal and wading birds.

# WP20

AREA NAME:	Makarori Point Recre
STATUS:	Protected Natural Are
ECOLOGICAL DISTRICT:	Waiapu
MAP:	2A.22

(20) Makarori Point Recreation Reserve (7 ha) to the north contains a small area of modified coastal forest and secondary vegetation on a steep southeast-facing slope. Wharariki, tutu, and tauhinu are dominant in open vegetation on steep eroded faces and cliffs at the eastern end. At the western end more intact vegetation is dominated by <u>Hebe stricta</u> var. <u>macroura</u>, kohekohe, ngaio and karaka, with populations of raukumara and Hebe sp. unnamed (<u>Hebe</u> sp. n of Eagle 1982). Given the presence of these latter two species, the suitability of its current designation as Recreation Reserve should perhaps be reviewed.

13 ha nil 0-5 m coastal

eation Reserve eas (Recreation Reserve)



# **WP19**

AREA NAME: STATUS: ECOLOGICAL DISTRICT: MAP:

Okitu Bush Scenic Reserve Protected Natural Area (Scenic Reserve) Waiapu 2A.22

Field Centre:	Gisborne	Inventor	y Ref:	Y18070
Local Authority:	Gisborne DC	File Ref:	RSI	1027
Sub Region:	Eastern Coast	Area (ha):	3.26	500
Tangata Whenua:	Ngati Oneone	CMP:	No	
Legal Description:	Lot 4 DP 5793, Block IV, Turanganui SD			
General Description:	Coastal forest, community involvement, scenic value			

Okitu Scenic Reserve consists largely of planted coastal forest, supplementing a small area of natural puriri-kohekohe-karaka forest. Other species include mahoe, cabbage tree, five finger, totara, tanekaha, kohuhu, titoki and lacebark. Planted species include pohutukawa, with ngaio, karo, akeake, tarata, taupata, and a range of Hebe and Pseudopanax cultivars.

# **Natural and Historic Values**

Mixed broadleaved forest, manuka scrub, native plantings. 'High' botanical conservation value. Pocket of vegetation in farmed and residential area. Fauna include: common bush birds.

Recreational opportunities include: picnicking, walking. There is also community planting associated with the reserve. Facilities include: tracks, signage, carpark, toilet and rubbish pit.

# **Threats to Natural and Historic Values**

Pest include: willow and thistle. Other threats include: fire and domestic rubbish.

### Management

Management needs: fencing; adjacent land use (sub-division); recreation opportunities.

AREA NAME: Wainui Beach Esplanade Reserve STATUS: ECOLOGICAL DISTRICT: Waiapu MAP: 2A.22 Field Centre:

Local Authority: Sub Region: Tangata Whenua: Legal Description: **General Description:** 

Gisborne Y18073 Inventory Ref: Gisborne DC File Ref: 8/1022 Eastern Coast Area (ha): 1.3304 Ngati Oneone CMP: No DP 1307, Blk VIII, Turanganui SD Coastal duneland, amenity and coastal value

TP

# **Natural and Historic Values**

Coastal duneland area comprising steep foredune face fronted by incipient dune and beach foreshore. The duneland has been extensively modified by insensitive human development. Duneland flora comprises a range of exotic and indigenous plants typical of suburban coastal settlements. Fauna is mostly exotic, with remnant indigenous species (blue penguin and others) negatively impacted by introduced pests. No known historic values however there are significant historic values in the vicinity.

Recreational opportunities include: walking, beach recreation. The dunelands provide for public access to and along the foreshore, and are an important amenity value.

# Threats to natural and historic values

The integrity of the duneland is threatened by insensitive human developments; housing development to the crest of the dune, public and private accessways across the dunes, property protection works along the face of the dunes, insensitive recreational use of the dunelands, introduced plant and animal pests.

#### Management

Maintenance of the integrity of the dune system for its value as a natural protection against erosion and inundation by the sea (in accordance with the NZCPS policy 3.4.3), maintenance and enhancement of public access cross and along the dunelands but manage adverse effects (NZCPS policies 3.5.1 - 3) Enhancement and maintenance of the amenity values of the dunelands.

Protected Natural Area (Esplanade Reserve)



# TR2

AREA NAME: NZMS 260 Y18: STATUS: ECOLOGICAL DISTRICT: MAP:

Total Area: Percent primary: Altitudinal range: **Bioclimatic zone:** 

Selliera-ice plant herbfield tauhinu shrubland wharariki flaxland tutu-rangiora-karamu shrubland

Tuaheni Point 507650 Recommended Area for Protection Turanga 2A.22: 2A.23

> 34 ha nil 0-60 m coastal

on cliff terrace on hillslope on cliff on hillslope, cliff

This RAP consists of a triangular-shaped coastal promontory separating Sponge Bay to the west and Shark Bay to the east. Rising steeply from the rocky Sponge Bay and Point shorelines are high Miocene mudstone and sandstone sea cliffs which are continually slipping and slumping, and are largely bare. On the more stable faces particularly the upper cliffs are pockets of tauhinu shrubland and introduced pasture grasses. Hillslopes immediately behind the cliffs have mixed shrublands and flaxlands dominated by native species, although introduced gorse, boxthorn and grasses are also common. Above the sea cliffs at the Point are a series of benches and slump backslopes which have pockets of herbfield dominated by Selliera radicans, ice plant, Poa anceps ssp. anceps and sea celery. The gentler east-sloping hills above Shark Bay have poor quality pasture which scattered tauhinu shrubs and are grazed.

Tuaheni Point is the best and largest example of coastal herbfield and shrubland on coastal cliffs and terraces remaining in the district. There are also many roosting sites for sea birds e.g., pied shag. Of historical interest at the Point is a lighthouse which was abandoned in 1955 in favour of one on an adjacent ridge.

At the time of survey, cattle had strayed into the shrub - and flax-covered hillslopes above Sponge Bay. Stockproof fences will need to be maintained to minimise erosion and damage to vegetation.

#### AREA NAME: Tuamotu Island NZMS 260 Y18: 490652 STATUS: Recommended Area for Protection ECOLOGICAL DISTRICT: Turanga MAP: 2A.23 Total Area:

Karaka forest Wharariki flaxland Sandfield Fennel-Isolepis herbfield Isolepis-fennel sedgeland Ice plant herbfield on terraceFennel-tree mallow herbfield Cape ivy vineland Cocksfoot grassland

Altitudinal range:

Landscape Unit:

**Bioclimatic zone:** 

This small steep-sided island consists of secondary native and exotic vegetation that have developed following periodic occupation, burning and farming by Maori. it was occupied (Uruhangenge Pa) in 1769 when Captain Cook arrived in Poverty Bay (MacKay 1966). The island has been further modified by quarrying late last, and early this century.

The gentler slopes, concentrated in the eastern half, are highly modified with exotic weeds and pasture grasses and occasional planted trees e.g. Norfolk pine. Wharariki flaxland covers most of the steeper slopes and a small pocket of karaka forest grows on a midden site. Coastal Shrubs, e.g. kawakawa and *Pimelea prostrata* s.s., are also present on the hillslopes. Other minor areas of native-dominated vegetation include ice plant herbfield, Isolepis nodosa-fennel sedgeland and sparsely vegetated sandfield

Planting trials of the endangered plant (Given 1990) kakabeak (*Clianthus puniceus*) have recently been carried out in the wharariki flaxland by the Department of Conservation. These plants are being regularly monitored.

The ice plant-dominated terrace at the eastern extremity is a well populated sea bird roost, although Tuamotu Island is not listed in Rasch (1989).

TR6

3.3 ha 0-36 m island coastal on hillslope on hillslope on sand hillslope on lower hillslope on colluvial toeslope

on ridge on terrace on terrace



Although the vegetation is highly modified, it has the potential to recovery, Troublesome weeds such as Cape ivy and blackberry, and the planted exotic trees should be removed to facilitate the natural succession.

Tuamotu is the sole island in the Turanga Ecological District.

# TP8

AREA NAME:	Kaiti Hill (Titirangi)			Field Centre:	Gisborne
STATUS:	Protected Natural A	rea (Recreation Reserv	/e)	Local Authority:	Gisborne DC
ECOLOGICAL DISTRICT:	Turanga			Sub Region:	Eastern Coas
MAP:	2A.23			Tangata Whenua:	Ngati Oneone
				Legal Description:	Lot 1 DP 7903
Total Area:		38.2 ha		General Description:	Historv. cultur
Altitudinal range:		0-129 m			,, , ,
Grid Reference:		Y18 476684		Natural and Historic V	alues
Landscape Unit		plain surrounded isla	ind	Matural and mistoric values	
Bioclimatic zone:		coastal		This is the site of Capt	ain Cook's first
five finger-karo-tutu scrub		on hillslope, colluvial	toeslope 2.0 ha	collected by Bank's.	
tutu-karamu scrub		on cliff, hillslope	4.0 ha		
wharariki flaxland		on cliff 3.0 ha		It has a possible record	ed historic site (
native plantation		on hillslope 2.5 ha		(of Ngati Oneone) as it	is where the fir
exotic plantation		on hillslope 3.0 ha		between two cultures.	
exotic grassland		on hillslope 23.7 ha			
-		•		The reserve has anneal	as a tourist attr

This reserve, in two main parts, encompasses steep, erosion-prone, seaward slopes of Kaiti Hill and some gentler landward hillslopes. It is mainly in pasture with small pockets of primary flaxland, secondary scrub, exotic and native (some planted very recently) plantations. Most of the native vegetation is on seaward hillslopes in the south-east half. Here five finger-karo-tutu scrub, unrepresented elsewhere in the district protected areas, is well developed on the colluvial toeslopes and extends up onto the lower hillslopes. The unnamed koromiko, <u>Hebe</u> "Wairoa", classified as local by Given (1990), was growing on steep slopes among shrubs of tutu, karamu, rangiora and <u>Hebe stricta</u> var. <u>macroura</u>. <u>Hebe</u> "Wairoa" is concentrated in the Wairoa-Gisborne region, growing mainly on the coast (large populations are at Makarori Beach) but is also found inland along the Parikanapa and Tarndale Roads (all sites are outside the district). In the Turanga Ecological District it was only otherwise recorded at Te Aroha RAP. Reclassification, affording greater statutory protection, is desirable for those parts of Kaiti Hill Recreation Reserve with significant ecological units.

AREA NAME:Cook Landing SiteSTATUS:Protected Area (National Historic Reserve)ECOLOGICAL DISTRICT:TurangaMAP:2A.23

eld Centre:	Gisborne	Inventory Ref:	(18047
ocal Authority:	Gisborne DC	File Ref:	RHS004
ub Region:	Eastern Coast	Area (ha):	0.4561
angata Whenua:	Ngati Oneone (Ngati Hau)	CMP:	No
egal Description:	Lot 1 DP 7903 and Lot 57 DP78	19, Block IV, Turanganu	i SD
eneral Description:	History, culture.		

This is the site of Captain Cook's first landing in New Zealand in 1769. It has plantings for species collected by Bank's.

It has a possible recorded historic site (Y18/52, midden) and the area is highly significant to Ngati Hau (of Ngati Oneone) as it is where the first meeting with Cook took place. It is the site of first meeting between two cultures.

The reserve has appeal as a tourist attraction and for general recreational users. There are spot lights, seats, a stone memorial and commemorative plaques.

# **Threats to Natural and Historic Values**

Threats include: aesthetic pollution from adjacent industrial land use (logging industry) and vandalism. Visitor pressure is low-moderate.

# **Management**

Management needs: archaeological survey; interpretation; cone of vision review; active management (according to Historic Resource Strategy); raise local and national profile of Bank's Garden (landscape plan).

Tta



# **TR12**

Total Area: Altitudinal range: Landscape Unit: Bioclimatic zone:

Marsh ribbonwood-oioi shrubland Sea rush-sea couch tussockland Oioi-sea couch sedgeland Exotic grassland Awapuni Lagoon 422683 Recommended Area for Protection Turanga 2A.23: 2A.24

> 2 ha 1-3 m tidal flat, new beach coastal

on dune mound on dune hollow on dune on rear dune

The sole remnant of a salt marsh vegetation type which was once widespread around the Awapuni Lagoon. This lagoon covered more than 300 ha between the Waipaoa River mouth and Awapuni Road on the outskirts of Gisborne City, but was drained in the late 1950's for farm development.

The small strip of marsh ribbonwood dominated shrubland, the largest remaining population in the district, would have been part of a narrow zone along the margin of the lagoon. At the lagoon/sand dune interface sea rush tussockland would have predominated and the oioi sedgeland would have been typical of parts of the rear dunes between the lagoon and the sea.

Poor quality pasture surrounds the native-dominated vegetation which is fenced into a larger paddock.

The main threats to the RAP are cattle/sheep damage and further lowering of the water table by artificial drainage (flooding still occurs during periods of heavy rain and surface water is removed by pumping into drainage channels, J. D. Galilee, pers. comm.).

# TR11

AREA NAME: NZMS 260 Y18: STATUS: ECOLOGICAL DISTRICT: MAP: Waipaoa River Mouth - Wherowhero Lagoon 395645; 392607 Recommended Area for Protection Turanga 2A.24; 2A.25; 2A.26 45

Total Area:	110 ha
Altitudinal range:	0-5 m
Landscape Unit:	tidal fla
Bioclimatic zone:	coasta
<u>Ruppia</u> herbfield	in estu
<u>Bolboschoenus</u> sedgeland	in estu
Salt water	in estu
<u>Sarcocornia</u> herbfield	on mu
<u>Spartina</u> grassland	on mu
Sea couch-sickle grass grassland	on mu
Sea rush tussockland	on est
Sea rush/ <u>Selliera</u> tussockland	on dur
<u>Spinifex</u> grassland	on fore
Exotic grassland	on fore

This large RAP includes the northern and southern portions of the Wherowhero Lagoon estuary which, as a whole, extends over 200 ha. The middle portion of 69 ha is protected under Queen Elizabeth II Open Space Covenant. The RAP also includes the dunefield and wetlands between the northern end of the lagoon and the Waipaoa River mouth, similar terrain south of the lagoon mouth, and the sandspit enclosing the lagoon.

Although adventive species such as spartina, sea couch and sickle grass dominate large areas, there are some interesting native vegetation types, e.g. <u>Ruppia</u> herbfield, glasswort herbfield, sea rush tussockland, <u>Bolboschoenus</u> sedgeland and spinifex grassland. Several of these types are already protected in the QE II covenant.

Wherowhero Lagoon estuary has high ranking as a Site of Special Wildlife Interest (Rasch 1989). Thirty-four species of coastal waders and shorebirds, including the endangered (Bell 1986) white heron, and threatened wrybill, Caspian tern, banded dotterel and New Zealand dotterel, have been recorded at the estuary. Other uncommon birds include golden plover, royal spoonbill, eastern bar-tailed godwit, little egret, <u>Asiatic whimbrel</u>, pectoral sandpiper, and red-necked stint (Rasch 1989; based on Ornithological Society records). Waipaoa River Mouth is also listed as a Site of Special Wildlife Interest and has a Moderate-High ranking.

Cattle have access to, and have heavily trampled, parts of the estuary, especially those near Waipaoa River Mouth, the mudflats are particularly susceptible. Aggressive adventive plants such as spartina, common in parts of the mudflats, are rapidly spreading. These problems will need to be addressed for future management.

a, 75 ha

at, new beach

iary iarine lagoon iary, estuarine lagoon dflat dflat dflat uary/rear dune interface ne hollow edune

edune



(b)

spinifex grassland

# **G11 Schedule**

TP4

AREA NAME: NZMS 260 Y18: STATUS: ECOLOGICAL DISTRICT: MAP:	Wherowhero (Foxley) 385625 Protected Natural Area (QEII Open Space Covenant) Turanga 2A.24; 2A.25	AREA NAME: NZMS 260 Y18: STATUS: ECOLOGICAL DISTRICT: MAP:	Young Nicks hea 398599; 398594 Recommended A Turanga 2A.26
Total Area: Altitudinal range: Landscape Unit: Bioclimatic zone:	69.2 ha 0-5 m tidal flat coastal estuarine vegetation on estuary 22.2ha	Total Area: Altitudinal range: Landscape Unit: Bioclimatic zone:	
<ul> <li>(a) sea rush tussockland</li> <li>(b) sea couch grassland</li> <li>(c) <u>Spartina</u> grassland</li> <li>(d) glasswort herbfield</li> </ul>	estuary/rear dune interface mudflat mudflat salt water in estuary 40.0 ha sand field vegetation on sand dune 7.0 ha sand dune	Karaka-kohekohe forest sea rush tussockland <u>Bolboschoenus</u> sedgeland glasswort herbfield mud salt water exotic grassland	

The covenant protects approximately the middle third of Wherowhero lagoon which extends from Waipaoa River mouth south to Young Nicks Head. The vegetation is largely modified with swards of the aggressive adventive grasses, spartina and sea couch, covering mudflats, and numerous adventive herbs and grasses on the sand dunes. Patches of native vegetation include sea rush tussockland and glasswort herbfield on and around mudflats, and spinifex grassland on sand dune. A few individuals of marsh ribbonwood were noted on an estuarine island (J. D. Galilee, pers. comm.).

sand dune

Wherowhero Lagoon is listed as a Site of Special Wildlife Interest (Rasch 1989) and has a High ranking - the top ranked site in the district. Thirty-four species of coastal waders and shorebirds, including the endangered (Bell 1986) white heron, and threatened wrybill, Caspian tern, banded dotterel and New Zealand dotterel, have been recorded at the estuary. Other uncommon birds include golden plover, royal spoonbill, eastern bar-tailed godwit, little egret, Asiatic whimbrel, pectoral sandpiper and red-necked stint (Rasch 1989); based on Ornithological Society Records.

The estuary is a smaller version of the adjacent Wherowhero Lagoon estuary with similar native vegetation types. In contrast, the troublesome adventive grass, spartina, common at Wherowhero, was not recorded. The small creeping native musk <u>Mimulus repens</u> was noted growing in the sea rush tussockland; this is the sole record for the district.

Many waders and waterfowl are present in the estuary which is given a Moderate ranking as a Site of Special Wildlife Interest (Rasch 1989; Orongo Lagoon). Threats to the estuary are mainly grazing and trampling by cattle which have periodic access. The unit is fenced on the north-east boundary but requires ring-fencing.

Four hundred metres north of the estuary is a small pocket of the only karaka-kohekohe coastal forest on former island in the district. However, it is heavily stock damaged with very depleted understorey and ground cover layers, and some canopy breakdown has occurred

**TR14** 

head (Te Kuri)

ded Area for Protection

- 3 ha (forest) 19 ha (estuary) 40-120 m 0-3 m former island, tidal flat coastal
- on hillslope
- on mudflat
- on mudflat
- on mudflat
- on mudflat
- in estuary
- on reclaimed mudflat



**G11 Schedule** 

# **TN44**

AREA NAME: NZMS 260 Y19: ECOLOGICAL DISTRICT:

Total Area: Altitudinal Range: **Bioclimatic Zone:** 

WAIKOURA STREAM BUSH 359494 Tiniroto

> 158.03 ha 140-180 m Coastal

# Description

This PMA includes a small compact forest remnant amongst mature pines in the north-eastern corner of the Ecological District near its boundary with the Turanga Ecological District, and an extensive area of easterly-facing coastal cliffs, steep slopes and narrow stream gullies. The forest remnant extends from midslope to ridge crest in a small subcatchment of the Waikoura Stream. A narrow band of pines runs between the forest and the coastal slopes and faces. The vegetation of the forest remnant is tall primary coastal tawa-dominated forest, with hinau, pukatea, and rewarewa along the northern ridge. Karaka, ngaio and large lancewood are also scattered amongst the canopy. Kohekohe dominates the subcanopy. It fades to a small area of kanuka forest in the north-western corner. The vegetation on the steep coastal faces is dominated by secondary manuka scrub with tauhinu, and kanuka scrub [] low forest. The more stable areas of the cliffs have scattered karaka amongst the scrub. The moister stream gullies have remnants of primary coastal broadleaved forest dominated by karaka, with kohekohe, titoki and mahoe,

Feral goats likely graze the understory of the forest and part of the cliffs, however long term exclusion of domestic stock (due to the establishment of the pine plantation) and buffering from the pines has probably allowed the forest understory to regenerate and become more diverse and healthy.

#### Significance and Justification

This PMA is significant as it contains compact area of primary forest within the coastal bioclimatic zone, of which only c. 6 ha remains. It also contains an extensive tract of coastal cliffs and steep coastal facing hill slopes and stream gullies. It is continuous with PMA TN 46 along its southern boundary.

# **TN46**

AREA NAME NZMS 260 Y19 ECOLOGICAL DISTRICT: Wharekakaho Stream Bush 345462 Tiniroto

Total Area: Altitudinal Range: **Bioclimatic Zone:** 

# Description

The PMA encompasses virtually all of the catchment of the Wharekakaho Stream, together with areas of coastal faces (including Waikara Stream) to the south and an additional small catchment and cliffs to the north. It forms part of the eastern or coastal faces of the Wharerata Ranges, rising from sea level to c. 450 m. There are broad ridges and some moderately sloping upper basins falling steeply to the main stream and coast. In its lower reaches the stream is sharply incised, with a small fan delta at its mouth. There is evidence of slumping and instability on the coastal faces in the past, but modern erosion is minimal except on the sea cliffs and stream margin. Railway Reserve land that transects the area is up to 250 m wide in parts and totals almost 30 ha. Paritu Road and SH2 bound the PMA to the west, with Wharekakaho Road bounding it to the north.

The vegetation pattern of the PMA reflects a history of fire and grazing. The coastal faces are a mosaic of secondary tauhinu scrub (lower coastal faces) and kanuka scrub II forest (small clumps on the lower coastal faces and moist fertile sites). A small raupo-dominated wetland lies on narrow shelves of colluvial debris on the coastal face (c. 30-40 m a.s.l.). Coastal herbfields (with sea primrose and wild celery) are present on the rock slopes in the splash/spray zone.

Manuka scrub dominates on the slopes above the cliffs and on ridges throughout the PMA. It varies in height and associated species, according to age and soil factors. Scattered broadleaved trees and kanuka are present amongst the canopy in the older scrub. Young bracken (manuka) scrub is present at the southern end of the RAP, the result of a recent fire. Manuka dominates the secondary vegetation in the more fertile sites and the small northern catchment with scattered karaka and kohekohe amongst the tall even canopy. The oldest broadleaved vegetation lies in the moister gullies and lower stream slopes of the Wharekakaho catchment. It ranges from karaka treeland (small patches around the stream mouth and lower coastal faces), (pukatea)/mahoe-koekohe forest (stream margins and lower faces), to tawa-rewarewa-kohekohe-mahoe forest (upper slopes and gullies - the most extensive broadleaved type)

416.06 ha

0-450 m Coastal to Semi-coastal



TN47

Wilding pines, blackberry, old man's beard (moderately abundant on the upper slopes near Wharekakaho Road), pampas grass (present in low numbers near the stream bed), were all noted within the PMA. However, only the later two are potentially invasive and will require control. The feral goat problem is substantial. Their browsing is preventing succession of the tauhinu shrubland to forest and keeping the understory of the forest open. Their control is also a priority.

# Significance and Justification

The PMA has significant ecological values relating to the integrity of the stream catchment and the continuity and diversity of indigenous vegetation - from coastal forest to herbfield, to the head to the of the Wharekakaho Stream (3 km inland). It is the best coastal catchment in the Tiniroto Ecological District. The PMA also has a SSWI ranking of 'moderate' with common field and bush birds recorded. A small pa site occupies a narrow ridge crest about 70 m above the sea immediately south of the Wharekakaho Stream.

TOTAL AREA	WAIPARAH
NZMS 260 Y19:	358438
ECOLOGICAL DISTRICT:	Tiniroto

Tiniroto Area: Altitudinal Range: Bioclimatic Zone:

### Description

This PMA lies less than 100 m off the eastern coast of the Tiniroto Ecological District. It is a small rock stack with coastal shrub and herb vegetation.

### Significance and Justification

This PMA is one of only a few coastal rock stacks present within the Ecological District. The stack is a grey-faced petrel breeding site and has a 'High' SSWI ranking. This site was not visited during this survey.

PARA STACK

0.5 ha 0 - 10 m Coastal



# **TN48**

AREA NAME: NZMS 260 Y19: ECOLOGICAL DISTRICT:

Total Area: Altitudinal Range: Bioclimatic Zone: TIKIWHATA STREAM BUSH 345420 Tiniroto

> 224.5 ha 20 - 420 m Coastal to Semi-coastal

# Description

This PMA covers almost the entire catchment of the Tikiwhata Stream in the narrow coastal section of the Tiniroto Ecological District. The slopes of the stream catchment are moderate to steep with scattered exposed rocky bluffs, long wide ridges and narrower spurs. The main stream has a narrow rocky bed that becomes incised towards the coast. The slopes end in steep coastal cliffs to the east. The Palmerston North-Gisborne railway line runs through the upper section of the PMA and includes 4 tunnels. The PMA is bounded by pine plantations to the north and fades to young scrub and pasture to the west and south. Paritu Road lies less than a kilometre to the west.

The vegetation within the PMA is typical of that which occurs after burning and clearance for pasture; manuka dominated scrub on the ridges and upper slopes, with coastal broadleaved forest and swards of tree ferns in the moister stream gullies. The ridges and upper slopes have the youngest manuka scrub, with mingimingi and tauhinu and *Corprosma rhamnoides* abundant in the understory. The scrub has patches of hard fern amongst it. Older manuka dominated areas on the midslopes and shallow gullies have emergent rewarewa, with kohekohe, mamaku, tree ferns, pigeonwood, heketara, *Pittosporum ralphii*, wineberry, five finger and rare young tawa. The moist stream gullies are dominated by primary and advanced secondary broadleaved forest. The primary forest patches are tawa-dominated with emergent rewarewa, scattered titoki, epiphytic puka, nikau and pukatea. Kohekohe dominates the subcanopy with scattered larger trees present amongst the canopy. Kiekie, pigeonwood and mapoiu are also present in the subcanopy. The rest of the broadleaved forest is a mosaic of mainly kohekohe and titoki with karaka, pigeonwood, mahoe, tree fuchsia and mamaku. The moist stream side banks, particularly those inaccessible to stock, support *Novellana sinclairii*, houhere, rangiora, kawakawa, common willowherb, gully fern and common shield fern.

Vegetation disturbance and modification has been long term and ongoing within this PMA; burning (both for clearance and sparked by the fires of steam trains that used the line), clearance for pasture, possible logging (on the accessible upper slopes) and earth movement during the construction of the railway line and tunnels.

Domestic stock and feral goats have also had a marked impact with most of the PMA accessible to them and grazing/browsing noted in all but the most inaccessible slopes and sections of the stream banks. Mexican daisy, the only invasive weed noted, was abundant in some parts of the understory and in places along the stream. Kereru and Silver eye were noted.

# Significance and Justification

This PMA is significant as it covers virtually an entire stream catchment system in the coastal-semicoastal bioclimatic zone of the Tiniroto Ecological District. The steep dry coastal slopes of the eastern part of the district have suffered severe modification through fires and clearance with most of the coastal forest now reduced to narrow strips in gullies. It is the second largest vegetated stream catchment remaining in the series of sea flowing catchments that extend between Whareongaonga high point in the north and Mahanga in the south. The vegetation covers a very wide altitudinal gradient (20-420 m) and a full diversity of landforms.



# **TN49**

AREA NAME NZMS 260 Y19: ECOLOGICAL DISTRICT: HAURAKI STREAM BUSH 342398 Tiniroto

Area: Altitudinal Range: Bioclimatic Zone: 69.4 ha 20-400 m Coastal to Semi-coastal

# Description

This PMA covers most of the upper catchment of the Hauraki Stream, a small steeply incised sea flowing stream that lies c.6 km north of Mahanga. The slopes of the catchment are moderate to steep with long narrow spurs and ridges bounding the smaller incised side gullies. The PMA has some paddock fencing and fades to young scrub, hardfern, fernland or pasture on most boundaries. Paritu Road lies c.50 m away to the west.

Most of the vegetation is secondary, with pockets of primary trees and advanced secondary broadleaved shrubland  $\prod$  forest in the lower stream gully slopes. Manuka dominates the secondary scrub with tauhinu, hardfern, mingimingi, *Coprosma rhamnoides*, and occasional kanuka. The advanced and primary vegetation is a mixture of titoki, tawa, kohekohe, karaka, pigeonwood, nikau, mahoe and swards of tree ferns.

The catchment has suffered long term modification, including burning and clearance and grazing by domestic stock and goats. Older vegetation remains only in the moist lower gully slopes and along the banks of the central incised stream valley.

# Significance and Justification

This RMP is significant as a largely vegetated, mostly coastal stream catchment in the highly modified coastal zone of the Tiniroto Ecological District. It is one in the series of three sea flowing catchments that extend between Whareongaonga high point in the north and Mahanga in the south all of which are PMAs (PMA TN 46 and 48). It encompasses a wide altitudinal sequence (200-400 m) and contains a diversity of successional vegetation from hardfern fernland  $\Pi$  manuka scrub  $\Pi$  coastal broadleaved forest.



# **OUTSTANDING NATURAL LANDSCAPES IN THE COASTAL ENVIRONMENT**

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# LANDSCAPE UNIT 1

Unit Name: NZMS 260 Map Ref: Landscape Type: Map: Cape Runaway to Matakaoa Point Y14, Z14 Cape 2A.1; 2A.2; 2A.3

# **Physical Description:**

This unit faces due north and comprises a long dramatic landform separating the Bay of Plenty form the Gisborne coastline. The unit is characterised by steep hills and escarpments often with an apron of flatter plateau land stretching out to a rugged coastline. The coast around Matakaoa Point contains a series of marine terraces that have been recognised by the Geological Society for New Zealand as being of regional significance. The strong east west orientation of the range which forms the backbone of this unit is a dramatic landform feature as is the entire unit.

The land cover of the unit comprises good pasture on the lower, flatter land and rough pasture and regenerating bush on the steeper slopes and gullies. The unit is exposed and there is little tree cover. There is a limited coastal fringe of Pohutukawa. The coastline is dramatic, rugged with rocky fingers extending out into the sea.

# Visibility:

#### Low.

The unit has a relatively low visibility due to very limited road access. The main road, State Highway 35, passes through the valley to the south of this landform.

Visual Quality:	High.
Visual Absorption Capability:	Low

# **Enhancers:**

Rocky coastal edge Dramatic landform

**Detractors:** Extent of bare pasture slopes.

# **Visual Sensitivity:**

This unit has a high visual quality and very little existing opportunity for the integration of visual change, apart from the reinforcement of natural landscape patterns through revegetation. Visual sensitivity is high due to the steepness of much of the terrain and the nature of its land cover.

#### **Outstanding Natural Features and Landscapes:**

Entire unit 1.

# LANDSCAPE UNIT 2

Unit Name:	Hicks Bay, Te Araroa	
NZMS 260 Map Ref:	Z14	
Landscape Type:	Cape	
Мар:	2A.3; 2A.4; 2A.5	

### **Physical Description:**

This unit encompasses three sandy duneland bays and the two headlands separating them. In the north Hicks Bay is the outlet for the Wharekahika River and smaller Te Kapa Stream. The Wharekahika River is notoriously unstable and has in the past migrated from one side of the bay to the other. The bay itself has a history of accretion.

Hicks Bay was also formerly the scene of a busy frozen meat industry. The wharf at the northern end of the bay and derelict buildings further inland remain as testimony to this former era. Fishing boats habitually moor in Hicks Bay. Separated from Hicks Bay proper by a small rocky headland is the small enclosed Onepoto Bay. There is a small bach settlement located here, much of it on low-lying land. The beach is also accreting here, although there is no substantial foredune to protect the settlement.

The Haupara Point, rocky headland protrudes strongly eastward separating Hicks Bay from Kawakawa Bay and Te Araroa. This rocky headland, covered predominantly in native vegetation ,is a dramatic landform feature. Kawakawa Bay is the outlet for the Karakatuwhero and Awatere Rivers. The beach in the north has a history of accretion whilst in the south, near to the township of Te Araroa there has been a reversal to erosion.

Coastal erosion has exposed geological features of some importance along the coast both at Hicks Bay and in the cliffs at Te Araroa. Both Hicks and Kawakawa Bays have a deep coastal plain with strong enclosure provided by the surrounding hills and escarpments. There are three marae within the unit; one within the settlement of Hicks Bay, one at the northern end of Kawakawa Bay near the camp ground and one in the settlement of Te Araroa. The pohutukawa in Te Araroa, Te Waha-o-Rerekohu is reputed to be one of the largest in New Zealand.

### Visibility:

#### High

The unit's visibility is due to the relatively flat bay landscape and high vantage point provided by the road transversing the Haupara Point headland. There is also a public lookout at a high point although the path to the lookout requires maintenance.

Visual Quality:	Modera
Visual Absorption Capability:	Modera

# Enhancers:

Landform. Rivers, lagoons. Natural flatland vegetation Bush covered headland. Rock outcrops. Wharf. ate High. ate Low



# **Detractors:**

Visual prominence of Hicks Bay Motel units. Lack of building integration with landscape.

# Visual Sensitivity:

This unit has a moderate-high visual sensitivity. Some opportunity for successful integration of Visual Change is offered at the back of the bay by the variable landform at the foot of the enclosing hills. Mature vegetation also provides integration.

# **Outstanding Natural Features and Landscapes:**

Haupara Point. Entire unit 2.

# LANDSCAPE UNIT 3

Unit Name:	East Cape
NZMS 260 Map Ref:	Z14, Z15
Landscape Type:	Cape
Мар:	2A.5; 2A.6; 2A.7; 2A.8

### Physical Description:

This unit has a narrow coastal environment with steep hill faces and scarps providing a clearly defined inland edge. The coastline alternates between rocky shores with rock terraces extending out into the sea and sandy shores and dunelands. The width of flatland also varies with at times a narrow strip between hill and sea whilst in other areas there is a wide coastal plain. The Te Awakari stream and numerous other small streams flow out to the sea within this unit.

The predominant land use is pastoral farming with small areas of exotic forestry, and regenerating native bush cover. The land is exposed and the duneland forms are susceptible to wind erosion and 'blow outs'.

The East Cape lighthouse - now decommissioned - and East Island are highly memorable components of the unit.

The area of East Cape and East Island was identified by DOC as an ASCV.

# Visibility:

### Moderate

A no exit road follows tightly around the coastal edge of this unit between Te Araroa and East Cape. Beyond this there is no public road access and the unit is difficult to experience except by air. The road to the lighthouse is a popular tourist experience with a high number of visitors especially during the summer period.

Visual Quality: Visual Absorption Capability:

# Enhancers:

Landform. Rock shelves. Streams. Pohutukawa. East Island. Distant headlands.

**Detractors:** 

Power lines. Settlement without integrating vegetation. Masts at lighthouse.



# **Visual Sensitivity:**

The unit has a high visual sensitivity due to the nature of the landform, lack of integrating features and high visibility.

# **Outstanding Natural Features and Landscapes:**

East Island. Otiki (Lighthouse Knoll). Rock Shelves. Entire Unit 3.

# LANDSCAPE UNIT 4

Unit Name: Waiapu River Estuary NZMS 260 Map Ref: Z15 Landscape Type: Hill Country Map: 2A.8

# Physical Description:

This unit is dominated by the wide, braided Waiapu River and smaller Waikawa Stream mouth and a long low hill landform with a north east, south west orientation which parallels the coast in the south of the unit. Both the Rangitukia, north of the river mouth, and Te Wharau beaches are accreting. They are sandy beaches with large drifts of log flotsam carried down the Waiapu River. The lagoon/estuary at the river mouth was identified by DOC as an ASCV. The sea cliffs south of Te Wharau Beach Road have a number of active landslides.

Landuse on the hill country consists of grazing whilst on the river flats cropping prevails. There is scattered housing throughout with the township of Tikitiki located further west up the Waiapu River valley.

The silt plume at the river mouth is very marked with strong banded colouration of the immediate coastal waters.

Visibility: Moderate-High. The Rangitukia Beach and Te Wharau Beach Roads provide access to the beach although both are no exit roads.

Visual Quality: **Visual Absorption Capability:**  Moderate

# Enhancers:

Long sweep of beach. Enclosing headlands. River/Habitat. Central isolated hill landform. Bush backdrop and hills Scattered gravestones.

# **Detractors:**

Patterns of landuse. Weed species. Erosion. Lack of integration for built structures.

# Visual Sensitivity:

Moderate. The open flatness and relatively steep and eroding hills provide limited opportunity for integration of visual change. However, on the upper dune terraces, with planting, development can be integrated successfully.

**Outstanding Natural Features:** 

Waiapu River Estuary.

Moderate-Low



# LANDSCAPE UNIT 5

Unit Name: NZMS 260 Map Ref: Landscape Type: Map:

Koutunui Head to Koutunui Point Z16 Mountain Ranges 2A.12; 2A.13

# **Physical Description:**

This unit divides Waipiro from Tokomaru Bay. It is rugged, steep and incised with an indented coastal edge. Cliffs rise abruptly from rocky shelves to steep bushed slopes and peaks of up to 500 metres in height. Streams serving these ranges have eroded deep ravines and punctuate the coast at regular intervals. There is evidence of a major land slip immediately below the Upoki where two gently sloping terraces contrast sharply with the landform elsewhere on this section of coastline.

Much of the unit is inaccessible and difficult to farm, so it still benefits from significant native bush cover and all but the steepest and most rugged slopes are heavily vegetated. One or two small areas have, however, been cleared. These bushed headlands and coastal hill slopes in the north of the unit have been recognised as having particular ecological value and are designated as Areas of Significant Conservation Value. The Waimatau Bay Forest Heritage Fund Acquisition and the Koutunui Head Conservation Area comprise the largest catchment system under indigenous forest on the east coast and the adjacent inter-tidal and sub-tidal habitats exhibit good examples of marine habitat succession.

The unit is remote, one of the most inaccessible areas of the Gisborne Coast and consequently has no settlements within the coastal environment.

Low.

High

Low-Moderate

Visibility: No vehicular access to the coastal edge.

Visual Quality: **Visual Absorption Capability:** 

#### **Enhancers:**

Intact Bush. Landform. Coastal Edge. Islands.

# **Detractors:**

Entire Unit 7.

None.

# Visual Sensitivity:

Moderate-High. Much of the unit has protection from its various designations, whilst the inaccessibility and topography makes development difficult.

**Outstanding Natural Features and Landscapes:** 

LANDSCAPE UNIT 6

Unit Name: NZMS 260 Map Ref: Landscape Type: Map:

Mawhai Point Z16 Mountain Ranges 2A.14

### **Physical Description:**

The unit consists of Mawhai Point. The headland is dramatic with its naturally eroding face. The area has a long history of European habitation. The coast is rocky and cliffed forming part of Mawhai Headland.

The enclosing hills contain a mix of pasture, erosion, regenerating native bush and exotic trees with the northern part of the unit having a more intact and diverse pattern of landuse and land cover and the southern part being steeper and more barren.

Mawhai Point itself is a dramatic rocky Headland with a bulbous seaward knoll and thin low-lying connection back to the land.

#### Visibility: High

Roads access the coastal edge around the northern and central bay and provide good visual access to the unit. The southern side of the bay has no public vehicle access but is clearly visible at a distance across the bay.

**Visual Quality:** Moderate **Visual Absorption Capability:** Moderate

#### Enhancers:

Dramatic headland. Bay enclosure. Fine sandy beach. Vegetation.

### **Detractors:**

Some erosion.

#### Visual Sensitivity:

Moderate. There is some opportunity for enhancement with a moderate visual quality and moderate visual absorption capability.

**Outstanding Natural Features:** Mawhai Point.



# LANDSCAPE UNIT 7

Unit Name: NZMS 260 Map Ref: Landscape Type: Map:

Nuhiti Z16 Mountain Ranges 2A.14; 2A.15

# **Physical Description:**

This unit is relatively remote with public access extending from Anaura Bay in the south just over the ridge. It stops however at the private entry to Nuhiti Farm on the hills above the coast. The coastline is gently indented with a sandy bay located behind Motuhina, a small picturesque island.

# Visibility:

l ow.

Access to the coast is only available across private land with public access limited to the hills overlooking the southern part of the unit. From the north Mawhai Point screens views of the unit from Tokomaru Bay.

**Visual Quality: Visual Absorption Capability:**  Moderate-High Moderate-High

#### Enhancers:

Dramatic coastline. Headlands. Remnant bush. Motuhina. Sandy bays.

# **Detractors:**

Erosion.

# **Visual Sensitivity:**

Moderate. The bay areas within this unit have considerable opportunity for the integration of change whilst the northern, steeper and more hilly coastline has little opportunity to integrate change.

# **Outstanding Natural Features:**

Motuhina Island.

LANDSCAPE UNIT 8

Unit Name: Motuoroi Island / Marau Point NZMS 260 Map Ref: Z16, Z17 Landscape Type: Island 2A.15 Map:

# Physical Description:

This unit comprises two bays with extensive golden sandy beaches enclosed by prominent headlands at the northern and southern extremes of the unit. Marau Point which defines the southern edge is a large promontory of sedimentary rock, its strata clearly visible tilted up toward the north presenting a fractured and eroded scarp face backed by a more gentle-slope. Morutoroi Island, lysing a short distance offshore was once part of this truncated range and its present separation from the mainland bears witness to the erosive nature of the sea on this coast. This island was once inhabited by Maori, renowned by their skill in the art of working greenstone, brought up from the South Island.

Bush remnant vegetation is scattered throughout the unit although larger areas are in evidence in the north. Here the Anaura Bay Scenic Reserve extends to the shore. It is designated as such by virtue of its rare mountain - coastal vegetation succession. In addition the bay as a whole is recognised by DOC as a site of National Historic and Cultural importance. A monument has been erected on the beach by the Historic Places Trust to commemorate Cook's visit in 1769.

The predominant land use is pastoral with some crops grown on the coastal stream flats. Dispersed groupings of exotic forestry species are located in three discrete areas on the hilltops but otherwise the unit is exposed with soil creep and patches of erosion apparent on the grassed hill slopes.

Access to the unit is limited with only the Anaura Road extending, part metalled, to the narrow coastal strip behind Anaura beach. Here, the small settlement is dispersed along the coast edge. It includes the Anaura Marae named Hinetamatea after the wife of the grandson of a famous Hauiti from Uawa. Here too is located a school and an attractive camp ground.

Marau Point extends almost 2 km out from the shoreline.

# Visibility:

(Anaura) High

Access to the coast is provided by Nuhiti Road. The road skirts the coastal flats to give access to Nuhiti Farm and homestay.

Visual Quality: **Visual Absorption Capability:** 

# Enhancers:

Motuoroi Island. Headlands. Golden Sandy beach. Camp ground. Road position.

Moderate-High Low-Moderate



# **Detractors:**

Pattern of land use. Erosion.

# **Visual Sensitivity:**

Topography and a lack of vegetation cover around Anaura allow little scope for large scale integration of development. Sensitive small scale change may be accommodated.

# **Outstanding Natural Features:**

Motuoroi Island. Marau Point.

# LANDSCAPE UNIT 9

Unit Name:
NZMS 260 Map Ref:
Landscape Type:
Мар:

Karaka Bay Z17 Hill Country 2A.17

# Physical Description:

Tokatea Rocks have, in the past, experienced major land slips as a result of coastal erosion. This has given rise to the 'slumped' appearance of the headland.

Around Karaka Bay the topography appears more denuded, broad stream flats and low rounded ridges provide extensive areas for pasture.

Partly due to the lack of tree and shrub cover (only isolated kanuka and weed species such as gorse remain), erosion of the hillside is a notable problem. Large land slips caused by coastal erosion are relatively frequent, but more apparent are the areas of bare rock, exposed by minor slippages and sheet erosion.

The lack of tree cover means that shade and shelter are scare - a problem recognised by the users of the camp site and beach.

Visibility: No road or vehicular access to the coastal edge.

Visual Quality: Visual Absorption Capability: Low-Moderate

Enhancers: Beach. Enclosure provided by headlands.

Detractors: Erosion.

Visual Sensitivity:

Little opportunity for integration exists with Kaiaua Bay, part due to the high visibility of the area, part to the steep topography and low levels of vegetation cover.

**Outstanding Natural Features:** Island off Te Karaka Point.

(Karaka Bay) Low

Low-Moderate



# LANDSCAPE UNIT 10

Unit Name: NZMS 260 Map Ref: Landscape Type: Map:

Tolaga Bay North Z17 Hill Country 2A.17

# Physical Description:

The unit is relatively small, confined to the discrete by area. Its edges are clearly defined by the towering white cliffs to the south and the upthrust strata of Te Karaka Point which continues inland as a narrow ridge visually separating the coast area from the inland flood plain of the Uawa River. The river, meandering across the broad flood plain has been unable to breach this ridge. It swings briefly to the west prior to passing through a break in the ridge and entering Tolaga Bay. Around the river mouth the bay is sheltered from the erosive forces of the open sea and has been an area of significant deposition. The extensive coastal flats, the long sandy beach, lagoon and spit all point to an accumulation of material both from the Uawa River and from littoral action.

Much of the estuarine margins of the Uawa River estuary are zoned in the Cook County Scheme as Conservation Zones by virtue of its Moderate - High Site of Significant Wildlife Interest (SSWI) rating. The rush sedge estuarine wetland, mud flats and adjacent dune lands support diverse birdlife and the river supports one of the most notable Whitebait fisheries in the region.

Vegetatively, the area is denuded of native bush cover. Small pockets cling to the steeper gully slopes on the higher land inland from the coast, but elsewhere pasture is dominant. Around the settlement of Tolaga Bay some amenity planting has been carried out in the past.

A number of settlements are scattered around the mouth of the Uawa River. Hauiti, across the river from Tolaga, has developed along Highway 35. Predominantly a farming settlement, Hauiti draws on the coastal and valley flats where vineyards, extensive pasture and more intensive cropping are in evidence. Titirangi is a small settlement at the base of the steep coastal ridge on the southern side of Tolaga Bay, spreading onto the sandy spit enclosing the lagoon.

The area is well served by the road network. Highway 35 skirts the coast at the mouth of the Uawa River and minor roads on both sides of the bay give access to the base of the cliffs.

Moderate-High

### Visibility:

Roads extending from Tolaga Bay allow visibility throughout most of the unit.

Visual Quality: Moderate **Visual Absorption Capability:** Moderate

**Enhancers:** Cliffs.

Beach. River.

Detractors: None.

#### **Visual Sensitivity:**

The settlement of Tolaga Bay, and nearby settlements offer potential for integration of new development. Elsewhere, however, the topography has discouraged development and the open aspect of the unit would make change difficult.

#### **Outstanding Natural Features:**

Te Karaka Point Escarpment. Uawa River Estuary.



# LANDSCAPE UNIT 11

Unit Name: NZMS 260 Map Ref: Landscape Type: Map:

Pourewa Z17 Hill Country 2A.17; 2A.18

# **Physical Description:**

This unit divides Tolaga Bay from Waihau Bay. It has a continuous rocky and cliffed shore line and includes the offshore Pourewa Island.

The cliffs vary in height and appearance considerably as the land rises and falls and are deeply eroded with gullies, reflecting the heavy run-of from the pasture above. Scattered bush remains on the steeper coastal scarp slopes but elsewhere the area is denuded of trees and scrub vegetation. At the base of the cliffs broken water indicates offshore rock outcrops and wave cut platforms. They become more pronounced around Pourewa Island and the unnamed headland that defines the southern edge of the unit.

The area around Pourewa Island has been designated an Area of Significant Conservation Values in recognition of its breeding populations of seabirds, forest vegetation on Pourewa Island and scenic value. A monument at Cook's Cove commemorates Cook's visit in October 1769.

The steep and rugged topography has prevented both settlement and access into the coastal area of this unit.

Low

Visibility: The unit is only visible from the sea or by air.

**Visual Quality: Visual Absorption Capability:**  Moderate-High Low-Moderate

# **Enhancers:**

Rugged coastline/Landform. Islands. Cliffs and Rock Outcrops.

**Detractors:** Pattern of vegetation clearance. Erosion.

# **Visual Sensitivity:**

Low-Moderate. Visibility is low throughout the unit, however, there is little vegetation cover to offer opportunities for integration of development but the steep topography, whilst making construction difficult, does provide the possibility of concealing development amongst the landform.

# **Outstanding Natural Features and Landscapes:**

Entire unit 13 (including Pourewa Island).

# LANDSCAPE UNIT 12

Unit Name: NZMS 260 Map Ref: Landscape Type: Map:

Waihau Bay, Waiharehare Bay Z17 Hill Country 2A.18; 2A.19; 2A.20

# **Physical Description:**

This unit, some 13 kilometres in length is enclosed at either end by massive rocky promontories, their rugged cliffs fall sheer for more than 100 metres to broken rocky shelves at sea level. Between these two headlands the curving sweep of the coast is interrupted by shallow sandy bays and smaller rocky outcrops. The continued erosion of this coastline has resulted in extensive wave cut platforms being formed at the base of the cliffs.

Along this coast the north-east, south-west geological pattern reflects the predominant orientation of the Raukumara Range which forms the spine of the peninsula. At intervals, outcrops of a more resistant sand stone intersect the coast. These outcrops are marked by the incidence of wave cut platforms, between which bands of less resistant rock are characterised by the shallower bays of Puatai and Waiharehare. The Geological Society of New Zealand has identified their shore platforms as being of particular value.

The coastal strip tends to be very narrow, the scarp slope rising sharply from the beach of the upland areas. Here, the hills are frequently punctuated by deeply cut stream valleys flowing rapidly down to sea level.

Vegetation cover comprises mainly grassland with regenerating Manuka scrub on some valley slopes. Erosion is a problem and attempts have been made to address this by establishing plantations of soil conservation trees.

Access to the area is poor, Highway 35 runs some distance inland, behind the coastal ranges and only the Waihau Road provides vehicular access to Waihau Beach.

Visibility: Road access is only feasible to the north of Waihau Bay, terminating at Loisel's.

Visual Quality: Visual Absorption Capability:

Enhancers:

Long visible coastline. Headlands. Remnant Bush. Beach. Surf.

**Detractors:** Erosion. Lack of vegetation.

**Visual Sensitivity:** Moderate.

**Outstanding Natural Features:** None identified.

Low-Moderate

Moderate to High Low-Moderate



# LANDSCAPE UNIT 13

Unit Name:	Whang
NZMS 260 Map Ref:	Y18
Landscape Type:	Hill Cou
Мар:	2A.20;

Whangara, Waiomoko Y18 Hill Country 2A.20; 2A.21; 2A.22

### **Physical Description:**

Within this unit three distinct landform types are in evidence, influencing the character of the coastal edge. The coast between Gable End Foreland to the Pakarae River is similar in character to that of previous units; steep cliffs and denuded scarp slopes rising from a rocky wave cut platform to eroded and dissected hills and a coastal edge that alternates between craggy headland and sheltered bay. To the west of Pakarae River, a series of several holocene terraces formed by uplift due to earthquake activity, has been identified as an important geological feature.

The low-lying plain across which the Pakarae and Waiomoko Rivers meander presents a very different coastal edge. The marine/land interface comprises a narrow beach behind which sand dune systems have developed. The two alluvial flood plains are divided by a low ridge composed of mudstones. The Waiomoko River estuary has been designated by DOC as an Area of Significant Conservation Value by virtue of its fauna, flora and wildlife values.

From the edge of Waiomoko flood plain, south to Turihaua Point, the landform increases in height once more. Parikonohi Point is a striking feature; a flat topped headland edged by scarp cliffs which are deeply furrowed with gullies and clad with scattered native vegetation. Below this feature, the Pouawa River flows into a small lagoon created by littoral action damming the river mouth.

Throughout this unit the land use is predominantly pastoral. The hill slopes are denuded of vegetation with fragmentary remnants remaining in the gullies and steeper slopes around Parikonohi Point.

Access to the unit is restricted to Pah Road which serves Whangara. This settlement contains Whitireia Meeting House. On this building a carving commemorates Paikea, who travelled to New Zealand on the back of a whale. Access to the coast is also possible at Turihaua Point via Highway 35.

Visibility: Moderate

Visual Quality: Visual Absorption	Moderate Capability:	Low-Moderate
Enhancers:		
Beaches.		
Islands.		
Detractors:		
Poorly integrated ho	ousing develop	ment.
Visual Sensitivity:		
Moderate.		
<b>Outstanding Natur</b>	al Features:	
Whangara Island.		
Reefs.		
Waiomoko River mo	outh, Pouawa.	
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# LANDSCAPE UNIT 14

Unit Name:	Tatapouri, Makorori
NZMS 260 Map Ref:	Y18
Landscape Type:	Hill Country
Мар:	2A.21; 2A.22

# **Physical Description:**

The unit comprises a short section of uniform coastline dominated by Tatapouri Point. The headland has in the past been subject to bedding plane failure resulting in a major land slip. This demonstrates the high sheer stress experienced by the cliffs of the coastline induced by coastal erosion. Tatapouri Point divides the unit into two sections. A long sandy beach extends south to Makorori Point whilst, to the north, the narrow coastal edge is traced by Highway 35. The road is confined to an artificial causeway sandwiched between the steep coastal hill slopes and the beach. It skirts Turihaua Point and continues along the coastal edge before climbing on a direct route over Tatapouri Point. The road surface is visible for some distance from the beach as it climbs over the headland despite sitting comfortably within an existing valley. The wider planer shore platform at Tatapouri has been identified as a landform of scientific, educational and scenic value by the Geological Society of New Zealand.

Patches of remnant karaka cling to the steeper slopes and mature plantings of exotic tree species are associated with homesteads. More recent native planting has taken place at Tatapouri but elsewhere the rugged landscape is primarily pastoral.

The settlements have generally developed on flat, sheltered land associated with the headlands. Makorori and Tatapouri occupy opposite sides of Tatapouri Point whilst other scattered settlements and homesteads cluster on the more exposed hillsides.

Access along the coastal edge is maintained by Highway 35 providing a high visibility to the entire unit.

Visibility:	High.
Visual Quality:	Modera
Visual Absorption Capability:	Low-M
Enhancers:	
Beach.	
Rock Shelves.	
Detractors:	
None.	
Visual Sensitivity:	
Low-Moderate.	
Outstanding Natural Features:	
Reefs.	
Tatapouri.	

ate Ioderate



# **LANDSCAPE UNIT 15**

Unit Name: NZMS 260 Map Ref: Landscape Type: Map:

Wainui/Tuahine Y 18 Hill Country 2A.22; 2A.23

# **Physical Description:**

This unit comprises a long sweeping sandy bay, terminated by Tuahine Point, an isolated and rocky finger of sand stone projecting out from the coast.

Immediately back from the beach, a low foredune, under considerable erosive pressure as a result of unrestricted access, extends the length of the bay. Beyond the coastal edge a swathe of residential development runs along Highway 35 making up the settlement of Wainui. In Wainui the majority of residential development has taken place along the coastal edge largely to take advantage of the beachfront location. The hills here are low and rounded with deeply cut and attractively bushed valleys.

Behind Tuahine Point the urban area spills out onto the flat reclaimed dune land, now primarily under pasture. Whilst little vegetation remains on the open hill slopes, the settlements have extensive amenity planting. Semi-mature Pohutukawa, Norfolk Island Pine and other coastal species thrive in the maritime environment. On the agricultural land behind Tuaheni Point, mature exotic shelter belts delineate the field boundaries.

**Visual Quality: Visual Absorption Capability:** 

Enhancers: Amenity planting. Sandy Beach. TuahIne Point.

Visibility:

**Detractors:** New subdivision on ridge.

**Visual Sensitivity:** Moderate.

**Outstanding Natural Features: Tuahine Point.** 

High.

Moderate Moderate

# LANDSCAPE UNIT 16

Unit Name: Tuamotu Island NZMS 260 Map Ref: Y18 Landscape Type: Island Map: 2A.23; 2A.24; 2A.25; 2A.26

### **Physical Description:**

This unit is striking in its contrast to those flanking it primarily due to the heavily populated settlement of Gisborne, but also as a result of its extensive spectacular view and wide sweeping bay, exaggerated by the low-lying flood plain of the Waipaoa River. Two dramatic rocky headlands - both with sheer cliffs enclose the bay, delineating the extent of the unit.

The city of Gisborne has developed around the mouth of the Turanganui River. It is limited in its growth to the east by sand stone uplands of which Tuaheni Point is composed, however, to the west, on the extensive flood plain there are no such restrictions on its growth. Only a small proportion of the city is in contact with the coastal edge.

Titirangi Park, originally a Maori Pa site, has recently been established as a recreational reserve. It screens much of the east of the city from the coast, rising about 129 metres above sea level.

Whilst a small park with some mature tree cover at the river mouth provides some screening, unattractive industrial and wharf storage areas still intrude on the coastal zone. On the east side of the river an area of reclaimed land accommodates timber storage yards and petro-chemical silos.

To the west of the city the beach extends in a broad crescent, traced by Centennial Marine Drive which terminates at the mouth of the Waipaoa River. Much of the flood plain is devoted to intensive agricultural cropping, although nearer the coast, salt marshes dominate the landscape. Between the Waipaoa River and Young Nicks Head, a large area of sand accretion has developed in the lee of the headland.

The Wherowhero and Waipaoa estuaries are particularly notable for the ecological value of their wetland, estuary and coastal lagoon habitats. The Wherowhero estuary comprises a 200 hectare coastal lagoon estuary and in addition an associated 30 hectare tidal mud flat occurs at the mouth of the Waipaoa River. The site has been designated as a Priority One Recommended Area for Protection (RAP) in the Turanga Ecological District PNA Survey report. Wherowhero lagoon has a high SSWI rating for its coastal wader population and the Waiapu River mouth has a SSWI rating of Moderate -High.

Wherowhero lagoon, separated from the bay by a long sand spit was once a section of the river before coastal erosion provided a shortened route to the sea. Consequently this section was abandoned and gradually became silted up and isolated.

Taller vegetation is scattered in sparse pockets around the unit. Little exists on the flood plain with the exception of the occasional shelter belt but within Gisborne, native and exotic trees have been established in the cities coastal parks.



Access to the coast is comprehensive throughout the unit by road, and Gisborne's port allows easy access by sea.

Visibility: The unit contains a centre of population.

**Visual Quality: Visual Absorption Capability:** 

**Enhancers:** Headlands/Cliffs. Beach. Amenity planting.

**Detractors:** Some industrial scale/activity and associated works.

**Visual Sensitivity:** Low-Moderate.

**Outstanding Natural Features:** Tuaheni Point. Young Nicks Head - Te Kuri. Sponge Bay Island.

High

Low/moderate-Moderate Low/moderate-Moderate Unit Name: NZMS 260 Map Ref: Landscape Type: Map:

Whareongaonga Y18, Y19 Mountain Ranges 2A.27

# Physical Description:

This unit, the most southerly in the study is one of the more extensive, including 16 kilometres of coastline. Generally the landform is fairly uniform throughout the unit, steep hills with deeply eroded stream gullies falling to dissected coastal cliffs and rocky shelves. Intermittently this pattern is broken by small rocky headlands and shallow sandy bays. Occasionally exceptions interrupt this general pattern. Whareongaonga, for example is a large stratified headland edged by sheer indented cliffs which enclose small bays. This headland has been designated an Area of Significant Conservation Value by virtue of its scenic value and is recognised as being representative of the coastal features and landforms in this region. At a number of locations along the cliffs bedding plane failure and other slippages are evident indicating a coastal system in erosive retreat.

Vegetation cover is predominantly pastoral with encroaching blocks of exotic forestry in some areas. Indigenous bush vegetation is regenerating on many of the valley sides and on the steeper coastal edge slopes.

There are no settlements along the coastal edge and little vehicular access. In the south of the unit the railway runs briefly parallel to the coast, its cut platform clearly visible from the sea and air. Forestry tracks allow limited access to the back of the coastal zone.

Visibility:

Low

Visual Quality: Visual Absorption Capability: Moderate

Enhancers: Landform. Coastal Edge.

Detractors: Pattern of land use.

Visual Sensitivity: Low-Moderate.

**Outstanding Natural Features:** Taungaatura to Waiparapara (including Whareongaonga).

# LANDSCAPE UNIT 17

Low-Moderate



# MARINE AREAS OF SIGNIFCANT CONSERVATION VALUE

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# Site Number: 05-013

Site Name:	Lottin Point/Matakaoa
NZMS 262:	(1:250,000) map series
Sheet No:	Y14 & Z14
Grid Reference:	670.950
Map:	2A.1; 2A.2; 2A.3

### Locality Description and Site Summary:

The Matakaoa Volcanic coast is located at the tip of the East Cape between Cape Runaway in the West and Hicks Bay in the East, some 34 Kilometres. Lottin Point is located near the centre and is representative of the whole site. The Lottin Point- Hicks Bay Site has significant marine, as well as terrestrial, ecological flora and fauna values, outstanding underwater scenery and outstanding terrestrial natural features and coastal landscape values.

### **Protected Areas:**

On every relevant ground of scenic and environmental guality and scientific interest. Lottin Point must be ranked in the first priority for gazetting as a Marine Reserve. (Morton, J., 1989)

Part of the adjacent land area is a proposed local purpose Recreation Reserve. Transitional Gisborne District Plan.

Part of the adjacent land area is recommended for protection in the Pukeamaru Ecological District PNA Survey report as being one of the Districts rare remnants of coastal forest with a high diversity of vegetation types (Regnier, C., 1988).

#### **Ecosystems, Flora and Fauna Habitats:**

Lottin Point has marine biogeographic features which are unique. The site is located in close proximity to the Kermadec Trench and has many of the biogeographic features of a clean steep off-shore island, including a species of vermetid gastropod (Dendropoma novastoa lamellosum) not found elsewhere on the N.Z. mainland (Morton, J., 1989). Lottin Point is located at the centre of the Matakaoa volcanic region and supports an unusual assemblage of marine plant and animal life including examples of northern algae species (Vidalia colensoi, Xiphophora chondrophulla, Carpophyllum plumosum and C.angustifolium) and of southern algae species (Halopteris congesta, Halopteris funicularis, Chaetomophora coliformis) (MAFISH 1987).

# Scenic Values:

The Lottin Point subtidal area is nationally recognised as an outstanding dive location. The underwater scenery, clear water and the diversity and abundance of marine life attract divers the year round (MAFISH 1987).

The steep coastal hills between Cape Runaway and Lottin Point are listed under Regionally Significant Features and Landscape in the Boffa Miskell Assessment of Coastal Landscape for EBOP. The coastal landscape between Matakaoa Headland and Waiaka, west of Lottin Point, is of outstanding quality and also the best representative example of its type in the region (Smale, S., 1993).

# Boundary of Area of Significant Conservation Value:

All that part of the Coastal Marine Area between Waiaka Point at Map Ref: Y14 640.933 in the West, and Hicks Bay at Map Ref: Z14 787.899 in the East, contained by the Line of Mean High Water Springs and a line running parallel one nautical mile off-shore.

- $\succ$ Protection of communities and associations of all indigenous species of flora and fauna, and their habitats.
- Maintenance of a high standard of water quality.  $\geq$
- $\triangleright$ Maintenance of the ecological linkages between terrestrial, freshwater and marine ecosystems.
- Protection of the outstanding and significant natural features and coastal landscapes.  $\triangleright$
- $\triangleright$ Preservation of the natural character of this coastal environment.



# Site Number: 05-014

Hicks Bay
(1:250,000) map series
Z14
775.885
2A.3; 2A.4

# Locality Description and Site Summary:

Located at Hicks Bay this site comprises the Wharekahika River estuary and associated coastal lagoons and intertidal beach. The site has significant ecological, fauna and flora and wildlife values.

### Wetlands, Estuaries, Coastal Lagoons:

The Wharekahika estuary and associated coastal lagoon has a high SSWI rating and is a Priority One (nationally important) RAP in the Pukeamaru Ecological District PNA Survey Report; for its estuarine and freshwater flora; a high diversity of representative vegetation types associated with the lagoon, and fauna; the presence of nationally threatened wildlife- NZ Dotterel (Charadrius obscurus), Banded Dotterel (Charadrius bicinctus bicinctus) and other coastal birds. The adjacent dunelands support the largest population of the rare plant Pingao (Desmoschoenus spiralis) in the region (Regnier, C., 1988). The site has a rating of national significance on the WERI index for its diverse avifauna.

#### Marine Mammals and Birds:

The Wharekahika estuary and associated coastal lagoon has a high SSWI rating for its estuarine and freshwater lagoon habitat and wildlife species list it supports including rare and endangered and migratory species: NZ Dotterel (Charadrius obscurus), Banded Dotterel (Charadrius bicinctus bicinctus), White Heron (Egretta alba modesta) and large numbers of waders including Pied Stilts (Himantopus himantopus) and Variable Oyster Catcher (Haematopus unicolor), waterfowl and field birds (Rasch, G., 1989).

### **Ecosystems, Flora and Fauna habitats:**

The Wharekahika estuary and associated coastal lagoon supports a high diversity of representative vegetation types including intertidal species; Juncus maritimus, Triglochin striatum, Cyprus ustulatus and Scirpus cernuus, Raupo and Scirpus medianus. The adjacent sand dune area supports the largest population of the rare plant Pingnao (Desmoschoenus spiralis) in the region (Regnier, C., 1988).

The Wharekahika estuary and associated coastal lagoon has a high SSWI rating for its estuarine and freshwater lagoon habitat and wildlife species list it supports including rare and endangered and migratory species: NZ Dotterel (Charadrius obscurus), Banded Dotterel (Charadrius bicinctus bicinctus), White Heron (Egretta alba modesta) and large numbers of waders including Pied Stilts (Himantopus himantopus) and Variable Oyster Catcher (Haematopus unicolor), waterfowl and field birds (Rasch, G., 1989). Whitebait (Galaxias maculatus) spawn in the upper estuary (Hogan, K., pers. obs.).

#### **Boundary of Area of Significant Conservation Value:**

All that part of the Coastal Marine Area between Map Ref Z14 777.898 in the West and Map Ref Z14 780.875 in the East, contained by the line of Mean High Water Springs, including upstream of the Wharekahika River to the effective Coastal Marine Area boundary, and a line running parallel to the shore following the 5 metre depth contour.

- $\succ$ Protection of communities and associations of all indigenous species of flora and fauna, and their habitat.
- $\geq$ Maintenance of a high standard of water quality.
- $\geq$ Maintenance of the ecological linkages between terrestrial, freshwater, estuarine and marine ecosystems.
- $\geq$ Preservation of the natural character of the coastal environment.



# Site Number: 05-015

Site Name:	Karakatuwhero River Estuary.
NZMS 262:	(1:250,000) map series
Sheet No:	Z14
Grid Reference:	15.841
Map:	2A.5

### Locality Description and Site Summary:

Located two kilometres West of Te Araroa township, this site comprises the Karakatuwhero River Estuary, associated coastal lagoons and the beach area. The site has significant ecological, fauna and flora and wildlife values and also significant landscape and landform values.

### Wetlands, Estuaries, Coastal Lagoons:

The Karakatuwhero River mouth passes through a shingle dune system comprising a series of parallel shingle dune ridges and hollows that represent old shorelines, which is a unique landform in the ecological district (Regnier, C., 1988). The river is very unstable and likely to migrate 1.5km either side of its present position (Gibb, J., 1981). The river mouths periodic migration has formed several coastal lagoons and an estuary. The site is a priority one (nationally important) Recommended Area for Protection in the Pukeamaru Ecological District for its unique coastal landform and the flora and fauna values in the coastal lagoons and estuary (Regnier, C., 1988). The site has a national significance rating for its avifauna values.

#### Marine Mammals and Birds:

Both the freshwater and the saline wetlands have high wildlife values with the lagoon at the Karakatuwhero River mouth supporting the highest number of nesting coastal birds and wading birds in the Ecological District. Species include nationally threatened species; NZ Dotterel (Charadrius obscurus) and Banded Dotterel (Charadrius bicinctus bicinctus), waterfowl and field birds (Rasch, G., 1989).

### **Ecosystems, Flora and Fauna Habitats:**

The Karakatuwhero coastal wetlands comprise the most extensive salt meadow in the Ecological District. Coastal herbs include the threatened Mazus pumilio, and other uncommon species such as Lilaeopsis sp., Myriophyllum propinguum and Rununculus acaulis. Whitebait (Galaxias maculatus) spawn in the estuary (Hogan, K., pers. obs.).

# Scenic Values:

The best representative example of a coastal landscape of its type in the region (Smale, S., 1993).

#### **Coastal Landforms and Associated Processes:**

The shingle dune system is a unique landform in the Pukeamaru Ecological District comprising a series of parallel shingle dune ridges and hollows that represent old shorelines.

### Boundary of Area of Significant Conservation Value:

All that part of the Coastal Marine Area between Map Ref. Z14 805.853 in the West to Map Ref. Z14 826.834 in the East, contained by the line of Mean High Water Springs, including upstream to the effective Coastal Marine Area Boundary, and a line running parallel to the shore along the 5 metre water depth contour.

- $\triangleright$ Protection of communities and associations of indigenous species of flora and fauna, and their habitats.
- $\triangleright$ Maintenance of a high standard of water quality.
- $\triangleright$ Maintenance of the ecological linkages between the terrestrial, freshwater, estuarine and marine ecosystems.
- $\succ$ Protection of the significant landform and landscape values at the site.
- $\geq$ Preservation of the natural character of this coastal environment.



# Site Number: 05-016

Site Name:	Kakanui
NZMS 262:	(1:250,000) map series
Sheet No:	Z14
Grid Reference:	855.830
Мар:	2A.5

# Locality Description and Site Summary:

An outstanding coastal landscape located immediately east of the Te Araroa township. Significant terrestrial ecological values adjacent.

### **Ecosystems, Flora and Habitat:**

The most extensive marine terrace system in the Pukeamaru Ecological District contains some unique and some best examples of landform and vegetation types in the District. A category one Recommended Area for Protection in the Pukeamaru Ecological District PNA Survey Report (Regnier, C., 1988).

# **Scenic Values:**

An outstanding coastal landscape and the best representative example of a coastal landscape type in the region (Smale, S., 1993).

#### Boundary of Area of Significant Conservation Value:

All that part of the Coastal Marine Area contained by the line of Mean High Water Springs and a line running parallel to it, one nautical mile off-shore, between the East Bank of the Awatere River at Map Ref. Z14 846.827 in the West, and Maruhou Point at Map Ref. Z14 865.827 in the East.

# **Desired Environmental Outcomes:**

- > Protection of the outstanding natural features and coastal landscape at the site.
- Preservation on the natural character of the coastal environment.

# Site Number: 05-017

Site Name:	East Island/Whangaokeno
NZMS 262:	(1:250,000) map series
Sheet No:	Z14
Grid Reference:	017.750
Мар:	2A.7

#### Locality Description and Site Summary:

The Coastal Marine Area around East Island and adjoining the East Cape. The site has significant ecological, fauna and flora and wildlife values and is located adjacent to a National Wildlife Reserve which is also a significant regional landform.

### **Protected Areas:**

Whangaokeno/East Island is the largest island in the Pukeamaru Ecological District and has high botanical values, and very high wildlife values notably the presence of breeding colonies of seabirds. The island is a gazetted Wildlife Refuge Reserve (Regnier, C., 1988). Extensive intertidal and subtidal reef systems occur around the island which are utilised as habitat by the wildlife. The reefs are proposed as a site for Marine Reservation (MAFISH, 1987).

#### Marine Mammals and Birds:

A gazetted Wildlife Refuge Reserve. A priority one (nationally significant) RAP in the Pukeamaru Ecological District Survey report for its high botanical and very high wildlife values. The largest island (8 Hectares) in the Pukeamaru Ecological District. Has very high wildlife values, especially the presence of breeding colonies of seabirds; Fluttering Shearwater (*Puffinus gavia gavia*), Sooty Shearwater (*Puffinus griseus*), Grey-faced Petrel (*Pterodroma macroptera*), Black Petrel (*Pterodroma nigripennis*), White-faced Storm Petrel (*Pelagodroma marina maoriana*), and Northern Blue Penguins (*Eudyptula minor iredalai*) (Regnier, C., 1988).

### **Ecosystems, Flora and Fauna:**

The largest island (8 Hectares) in the Pukeamaru Ecological District It has very high wildlife values, especially the presence of breeding colonies of seabirds; Fluttering Shearwater (*Puffinus gavia gavia*), Sooty Shearwater (*Puffinus griseus*), Grey-faced Petrel (*Pterodroma macroptera*), Black Petrel (*Pterodroma nigripennis*), White-faced Storm Petrel (*Pelagodroma marina maoriana*), and Northern Blue Penguins (*Eudyptula minor iredalai*). The botanical values on the island include the presence of the rare plant *Plantago picta* (Regnier, C., 1988), Extensive intertidal and subtidal reef systems occur around the island the biology of which is yet to be studied in detail. The reefs are utilised as habitat by the island's wildlife (Hogan, K., pers. obs.).



Appendix 3.3

# **Coastal Landforms and Associated Processes:**

The largest island (8 Hectares) in the Pukeamaru Ecological District. A gazetted Wildlife Refuge Reserve. A priority one (nationally significant) RAP in the Pukeamaru Ecological District Survey report for its high botanical and very high wildlife values (Regnier, C., 1988).

# **Boundary of Area of Significant Conservation Value:**

All that part of the Coastal Marine Area contained by the line of Mean High Water Springs on the mainland between Map Ref. Z14 994.756 in the North, and the Tunanui Stream in the South at Map Ref. Z14 991.745, and a line located one nautical mile East of East Island running parallel to the shore of the Island; confined in the North by a straight line running from Map Ref, Z14 994.756 to intersect the Northern most part of the Eastern Boundary line; confined in the South by a straight line running from Map Ref. Z14 991.745 to intersect with the southernmost part of the Eastern boundary line.

# **Desired Environmental Outcomes:**

- Protection of communities and associations of all indigenous flora and fauna, and their habitats.  $\geq$
- Maintenance of the ecological linkages between terrestrial, freshwater and marine ecosystems.
- $\triangleright$ Preservation of the natural character of this coastal environment.

# Site Number: 05-018

Site Name:	Waiapu Estuary
NZMS 260:	(1:250,000) map series
Sheet No:	Z15
Grid Reference:	925.655
Map:	2A.8

# Locality Description and Site Summary:

Located 15 km south of East Cape, the Waiapu River mouth has an estuary and coastal lagoon system which has significant fauna and wildlife values.

# Wetlands, Estuaries, Coastal Lagoons:

The estuary and coastal lagoon provide a stepping stone for migratory bird species along the coastal tract (Rasch, G., 1989).

# Marine Mammals and Birds:

The river estuary has a high SSWI rating for its wildlife habitat value, large numbers of wildfowl, coastal birds, migratory birds and the presence of threatened species Banded Dotterel (Charadrius bicinctus bicinctus) (Rasch, G., 1989).

# **Ecosystems, Flora and Fauna Habitats:**

The river estuary has a high SSWI rating for its wildlife habitat value, large numbers of wildfowl, coastal birds, migratory birds and the presence of threatened species Banded Dotterel (Charadrius bicinctus bicinctus) (Rasch, G., 1989).

# **Coastal Landforms and associated Processes:**

The Waiapu River is the major source of beach material from the Waiapu River mouth, north to Matakaoa Point at Hicks Bay (Gibb, J., 1981). The River mouth has an estuary and coastal lagoons maintained by the presence of a persistent shingle/cobble spit at the river mouth. WERI index rating of regional importance for catchment authority values (WERI).

# Boundary of Area of Significant Conservation Value:

All that part of the Coastal Marine Area contained by the line of Mean High Water Springs from the river mouth upstream along both banks to the effective Coastal Marine Area Boundary on the river.

# **Desired Environmental Outcome:**

- Protection of communities and associations of all indigenous flora and fauna, and their habitats.  $\geq$
- Maintenance of the ecological linkages between terrestrial, freshwater, estuarine and marine  $\geq$ ecosystems.
- Preservation of the natural character of the coastal environment.  $\triangleright$

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# Site Number: 05-019

Site Name:	Waimahuru Bay.
NZMS 260:	(1:250,000) map series
Sheet No:	Z16
Grid Reference:	810.350
Мар:	2A.12; 2A.13

### Locality Description and Site Summary:

Located on the headland between Waipiro Bay in the North and Tokomaru Bay in the South. This site contains the only intact coastal forest catchment area between East Cape and Cape Palliser. The site is now reserved, part as a Conservation Area and part as a forest heritage acquisition. This site represents a unique opportunity to put in place a land-sea reservation continuum on the East Coast. The site has unique terrestrial ecological, fauna and flora values and representative marine ecological values and significant landscape values.

### **Protected Areas:**

The 77 Hectare Koutunui Head Conservation Area and the adjacent 203 Hectare Waimahuru Bay Forest Heritage Fund Acquisition together comprise a site of very high or exceptional ecological significance. The site is the largest catchment system that is essentially all in indigenous forest on the East Coast of the North Island from East Cape to Cape Palliser. A regionally and nationally rare diverse coastal forest. The adjacent intertidal and subtidal habitats provide a rare opportunity for a land/marine continuum of protection of a down shore succession of marine habitats representative of marine habitats in the area including the marine habitat successions around an off-shore island.

#### **Ecosystems, Flora and Fauna Habitats:**

Very high or exceptional terrestrial ecological values in the adjacent catchment area, the largest catchment system that is essentially all in indigenous forest on the East Coast of the North Island from East Cape to Cape Palliser, a regionally and nationally rare and diverse coastal forest (Ward, C., 1991). A rare opportunity for a land/marine continuum of protection of a down shore succession of marine habitats representative of marine habitats in the area including the marine habitat successions around an off-shore island. The marine habitats have not been studied in detail. It is known that the intertidal rocky shore succeeds to a reef system which drops steadily away to a sediment bottom at 25 metres water depth. Around the Island the marine habitats drop steeply away to the sediment substrate (Hogan, K., 1991).

# Scenic Values:

The only intact representative example of a forested coastal catchment landscape in the region (Smale, S., 1993).

# **Boundary of Area of Significant Conservation Value:**

All that part of the Coastal Marine Area contained by the line of Mean High Water Springs between Map Ref. Z16 813.365 near Koutunui Point in the North to Map Ref. Z16 813.334 at Te Upoko in the South; and by a straight line running due East from Map Ref. Z16 813.365 near Koutunui Point, to Map Ref. Z16 830.365, then due South to Map Ref. Z16 830.334 then due West to Map Ref. Z16 813.334 at Te Upoko.

- $\succ$ Protection of communities and associations of all indigenous species of flora and fauna, and their habitats.
- $\geq$ Maintenance of the ecological linkages between terrestrial, freshwater and marine ecosystems.
- $\triangleright$ Protection of the significant natural features and coastal landscape values at the site.
- $\triangleright$ Preservation of the natural character of this coastal environment.



# Site Number: 05-020

Site Name:	Tokomaru Bay Wharf
NZMS 260:	(1:250,000) map series
Sheet No:	Z16
Grid Reference:	794.300
Map:	2A.13

# Locality Description and Site Summary:

The historic wharf structure at Tokomaru Bay.

# **Historic Values:**

The Tokomaru Bay Wharf is classified as of historical significance by the Historic Places Trust. The Wharf was built together with the Tokomaru Bay Freezing Works in 1909. The wharf handled 400 coastal shipping movements per year between 1913 and 1916 (Mackey, A.).

# **Boundary of Site of Significant Conservation Value:**

All that part of the Coastal Marine Area contained by the line of Mean High Water Springs at the landward end of the structure, and by a line located 5 metres from, and running parallel to, the outermost part of the entire structure.

# **Desired Environmental Outcomes:**

Preservation of the Historic and Cultural values at the site. 

# Site Number: 05-021

Site Name:	Anaura Bay
NZMS 260:	(1:250,000) map series
Sheet No:	Z16
Grid Reference:	755.145
Мар:	2A.15

# Locality Description and Site Summary:

Located 50 km north of Gisborne, Anaura Bay is a site of national historic and cultural importance. The site is located adjacent to a national scenic reserve and has significant coastal landscape values.

### **Protected Areas:**

The Anaura Bay Scenic Reserve extends to the sea shore at the Northern end of the Bay. The Reserve is the coastal end of a rare montane-coastal vegetation succession in the Waiapu Ecological District. The Anaura Bay Walkway traverses the Scenic Reserve and the adjacent Waipare Farm settlement.

# Scenic Values:

An outstanding coastal landscape, and the best representative example of an East Coast sandy bay in the Region (Smale, S., 1993).

# **Historic Values:**

Cooks Landing Place 1789 (NZMS 260 Z16 Tokomaru Bay). The Historic Places Trust erected a monument on the beach at Anaura Bay to commemorate Cook's visit on 23 October 1769. The site is historically important as it is the first place a comprehensive written description of Maori horticulture was undertaken.

# Boundary of Area of Significant Conservation Value:

All that part of the Coastal Marine Area contained by the line of Mean High Water Springs between the Northern headland of the Bay at Map Ref. Z16 771.178 and the Southern headland of the Bay at Map Ref. Z16 766.134, and a line running parallel to it, one nautical mile from shore.

# **Desired Environmental Outcomes:**

- $\triangleright$ Protection of the Historical and cultural values at the site.
- Protection of the outstanding and significant natural features and coastal landscape at the site.  $\geq$
- $\triangleright$ Preservation of the natural character of this coastal environment.

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# Site Number: 05-022

Site Name:	Uawa River Estuary
NZMS 260:	(1:50,000) map series
Sheet No:	Z17
Grid Reference:	738.000
Мар:	2A.17

# Locality Description and Site Summary:

The Uawa River Estuary is located at Tolaga Bay. The site has significant ecological, fauna and flora and wildlife values.

# **Protected Areas:**

Much of the estuarine margins of the Uawa River Estuary are zoned in the Transitional (Cook County) District Plan as Conservation zones to protect their natural values.

# Wetlands, Estuaries, Coastal Lagoons:

The Uawa Estuary is rated moderate/high (SSWI) for its habitat value; a rush sedge estuarine wetland, mudflats and adjacent dunelands and for its wildlife values; its diverse wader and field species including threatened species Banded Dotterel (Charadrius bicinctus bicinctus) and Reef Heron (Egretta sacra sacra) (Rasch, G., 1989). The Uawa River supports one of the better whitebait fisheries in the Gisborne Region. Whitebait (Galaxias maculatus) spawning areas have been reported in the upper reaches of the estuary (Bassett, A., pers com.).

# Marine Mammals and Birds:

The Uawa Estuary is rated moderate/high (SSWI) for its habitat value; a rush sedge estuarine wetland, mudflats and adjacent dunelands and for its wildlife values; its diverse wader and field species including threatened species Banded Dotterel (Charadrius bicinctus bicinctus) and Reef Heron (Egretta sacra sacra) (Rasch, G., 1989).

# **Ecosystems, Flora and Fauna Habitats:**

The Uawa Estuary is rated moderate/high (SSWI) for its habitat value; a rush sedge estuarine wetland, mudflats and adjacent dunelands and for its wildlife values; its diverse wader and field species including threatened species Banded Dotterel (Charadrius bicinctus bicinctus) and Reef Heron (Egretta sacra sacra) (Rasch, G., 1989). There are few habitats for wading species in the ecological district hence the importance of this site. The Uawa River supports one of the better whitebait fisheries in the Gisborne Region. Whitebait (Galaxias maculatus) spawning areas have been reported in the upper reaches of the estuary (Bassett, A., pers com.).

# **Boundary of Area of Significant Conservation Value:**

All that part of the Coastal Marine Area contained by the line of Mean High Water Springs at the mouth of the Uawa River upstream along both banks to the Waimaunu Stream confluence.

- $\geq$ Protection of communities and associations of all indigenous species of flora and fauna, and their habitats.
- Maintenance of a high standard of water quality in the estuary.  $\geq$
- $\geq$ Maintenance of the ecological linkages between terrestrial, freshwater and marine ecosystems.
- $\triangleright$ Preservation of the natural character of this coastal environment.



# Site Number: 05-024

Cooks Cove
(1:50,000) map series
Z17
745.997
2A.17; 2A.18

# Locality Description and Site Summary:

Located on the Southern headland of Tolaga Bay, this site has significant ecological, fauna and flora and wildlife values, significant historic and cultural values and significant coastal landscape values.

# Marine Mammals and Birds:

Mitre Rocks and Pourewa Island have high and moderate/high SSWI ratings, respectively, as nesting areas for breeding populations of common seabirds and the presence of muttonbird burrows (Rasch, G., 1989).

# **Ecosystems, Flora and Fauna Habitats:**

Pourewa Island is one of only two islands in the Waiapu Ecological District which support tall shrub or forest vegetation. The presence of Paratrophis banksii is notable (Daniel, L., 1985).

# Scenic values:

The Cooks Cove National Walkway is the most popular walk in the Gisborne area. The site encompasses seascapes considered remarkable by Cook and Banks in 1769, including the "hole in the wall' described by Banks "as an extraordinary natural curiosity." An outstanding coastal landscape which encompasses the sea cliffs east of Tolaga Bay, Pourewa Island, Mitre Rocks and Cook's Cove (Smale, S., 1993).

#### **Historic Values:**

Historic Cooks Landing Site. The Historic Places Trust erected a monument here to commemorate Cook's visit on 23 October 1769. The Historic significance of the site is due to Cook spending six days with the local people learning their customs and country. Banks undertook botanical studies and collected specimens of flora and fauna.

# **Boundary of Area of Significant Conservation Value:**

All that part of the Coastal Marine Area contained by the line of Mean High Water Springs between Map Ref. Z17 750.997 in the North along the coast to Map Ref. Z17 760.982 in the South, and a line running parallel to it, one nautical mile off-shore.

- $\geq$ Protection of communities and associations of all indigenous species of flora and fauna, and their habitats.
- $\geq$ Maintenance of the ecological linkages between terrestrial, freshwater and marine ecosystems.
- $\triangleright$ Protection of the Historical values at the site.
- Protection of the significant natural features and outstanding coastal landscape at the site.  $\geq$
- $\succ$ Preservation of the natural character of this coastal environment.



# Site Number: 05-023

#### Site Name: **Tolaga Bay Wharf** NZMS 260: (1:50,000) map series Z17 Sheet No: 745.997 Grid Reference: 2A.17 Map:

# Locality Description and Site Summary:

The Historic Wharf Structure is located south of Tolaga Bay.

# **Historic Values:**

The Tolaga Bay Wharf was built between 1926 - 1929 at a cost of £90,000 to accommodate coastal shipping. It is the longest ferro-concrete wharf in the country, at 660 metres. It was closed to shipping in 1967. The wharf is classified as of historic significance (category II) by the Historic Places Trust (Bain, P., 1993).

# **Boundary of Area of Significant Conservation Value:**

All that part of the Coastal Marine Area contained by the line of Mean High Water Springs at the landward end of the structure, and by a line located 5 metres from, and running parallel to, the outermost part of the entire structure.

# **Desired Environmental Outcomes:**

Preservation of the Historic and Cultural values at the site.

# Site Number: 05-025

Site Name:	Waiomoko River Estuary
NZMS 260:	(1:50,000) map series
Sheet No:	Y18
Grid Reference:	647.787
Мар:	2A.20

# Locality Description and Site Summary:

Located at Whangara, 20 km North of Gisborne, this site comprises the Waiomoko River Estuary which has significant ecological, flora and fauna and wildlife values.

# Marine Mammals and Birds:

The Estuary has a moderate SSWI rating for its wildlife values; the presence of waders, Pied Stilt (Himantopus himantopus leucocephalus), Variable Oyster Catcher (Haematopus unicolor), waterfowl and nesting threatened species, NZ Dotterel (Charadrius obscurus), Banded Dotterel (Charadrius bicinctus bicinctus) (Rasch, G., 1989).

# **Ecosystems, Flora and Fauna Habitats:**

A 10 hectare estuarine system with associated dunes, mudflats and estuarine vegetation. The Estuary has a moderate SSWI rating for its wildlife values; the presence of waders, Pied Stilt (Himantopus himantopus leucocephalus), Variable Oyster Catcher (Haematopus unicolor), waterfowl and nesting threatened species, NZ Dotterel (Charadrius obscurus), Banded Dotterel (Charadrius bicinctus bicinctus), (Rasch, G., 1989). The dunes at the Waiomoko River mouth rated 12 (highest score on the East Coast) in an inventory of North Island dune vegetation for its size intactness and the presence of the vulnerable plant Austrofestuca littoralis (Partridge, T., 1990). The dune system is of high botanical conservation value for its intactness and species diversity and the presence of endangered plants (Beadle, S., 1990).

# Boundary of Area of Significant Conservation Value:

All that part of the Coastal Marine Area contained by the line of Mean High Water Springs across the river mouth and extending upwards along both banks to the effective Coastal Marine Area Boundary.

- Protection of communities and associations of all indigenous species of flora and fauna, and  $\geq$ their habitats.
- $\geq$ Maintenance of the ecological linkages between terrestrial, freshwater, estuarine and marine ecosystems.
- Preservation of the natural character of this coastal environment. 20



# Site Number: 05-026

Site Name:	Ariel Bank
NZHO Chart:	Cape Runawa
Sheet No:	N.Z. 55
Grid Reference:	178°18'E. 38°
Map:	1

# ay to Table Cape °44'S

# Locality Description and Site Summary:

The Ariel Bank is located 8.6 nautical miles East South East of Tatapouri Boat Ramp which is 10 km North of Gisborne. The site is one of a small number of, and by far the largest, hard-rock reef systems located in open water off the Gisborne Coast. It has significant ecological and fauna and flora values and is recognised for the quality of its underwater scenery.

# **Ecosystems, Flora and Fauna Habitats:**

An offshore (8.6 nautical mile from Tatapouri) hard rock reef system which rises from the seabed at 40 metres to within 7.6 metres of the surface. Located in relatively calm off shore waters the reef has a reputation of supporting a diverse and abundant assemblage of benthic and demersal species, unique to the region, which are yet to be surveyed in detail (Quirke, J., 1993).

# Scenic Values:

The underwater scenery of the Ariel Reef is reputed to be the best in the Gisborne area. It is equal to the Lottin Point underwater scenery which has a nationally significant reputation (Quirke, J., 1993).

# **Coastal Landforms and Associated Processes:**

The only significant hard rock reef system off the Gisborne Coast.

# **Boundary of Area of Significant Conservation Value:**

All that part of the Coastal Marine Area of the Ariel Bank located above the 40 metre depth contour line, as shown or indicated on NZHGO Chart NZ55.

# **Desired Environmental Outcomes:**

- $\geq$ Protection of communities and associations of all indigenous species of flora and fauna, and their habitats.
- Protection of the outstanding underwater scenery at the site.
- Preservation of the natural character of this coastal environment.

# Site Number: 05-027

Site Name:	Wherowhero/Waipaoa Estua
NZMS 260:	(1:50,000) map series
Sheet No:	Y18
Grid Reference:	390.620
Мар:	2A.24; 2A.25; 2A.26

### Locality Description and Site Summary:

Located at the south eastern end of Poverty Bay, the site comprises the estuaries of the Waipaoa River and the adjacent Wherowhero Stream and associated coastal lagoons. The site has significant ecological, fauna and flora and wildlife values.

# Wetland, Estuaries, Coastal Lagoons:

The Wherowhero estuary is a 200 hectare coastal lagoon estuary. An associated 30 hectare tidal mudflat occurs at the mouth of the Waipaoa River. The site is a Priority One (nationally important) RAP in the Turanga Ecological District PNA Survey Report. The site includes the estuarine lagoon and adjacent dunelands and spits. The natural values at the site include the range of native vegetation types such as Ruppia sp. herbfield, Glasswort herbfield, sea rush tussockland, Bolboschoenus sp. sedgeland and spinifex grass land: and the wildlife values; Wherowhero Lagoon has a high SSWI rating for the presence of 34 species of coastal waders, migrating and shorebirds including the endangered White Heron (Ardea alba modesta) and the threatened Wrybill (Anarhynchus frontalis), Caspian Turn (Hydroprogne caspia), Banded Dotterel (Charadrius bicinctus bicinctus), NZ Dotterel (Charadrius obscurus). The Waipaoa River mouth has an SSWI rating of moderate/high (Clarkson, B., 1991).

#### Marine Mammals and Birds:

The Wherowhero Lagoon has a high ranking as a Site of Special Wildlife Interest. Thirty four species of coastal waders, migrating birds and shore birds are present including the endangered White Heron (Ardea alba modesta) and the threatened Wrybill (Anarhynchus frontalis), Caspian Turn (Hydroprogne caspia), Banded Dotterel (Charadrius bicinctus bicinctus), NZ Dotterel (Charadrius obscurus). Other uncommon birds include the Golden Plover (Pluvialis fulva), Royal Spoonbill (Platalea regia), Eastern Bar-tailed Godwit (Limosa lapponica baueri), Red-necked Stint (canutus canutus), (Clarkson, B., 1991). The Waipaoa River mouth has an SSWI rating of moderate/high (Clarkson, B., 1991).

# **Ecosystems, Flora and Fauna Habitats:**

Refer to the information listed under the heading: Wetland, Estuaries, Coastal Lagoons.

aries



# **Boundary of Area of Significant Conservation Value:**

All that part of the Coastal Marine Area contained by the line of Mean High Water Springs from the mouth of the Waipaoa River upstream along both banks to the effective Coastal Marine Area Boundary at the Railway bridge and all that part of the Coastal Marine Area contained by the line of Mean High Water Springs from the mouth of the Wherowhero stream upstream to the effective Coastal Marine Area Boundary.

# **Desired Environmental Outcomes:**

- $\triangleright$ Protection of communities and associations of all indigenous species of flora and fauna, and their habitats.
- Maintenance of a high standard of water quality.  $\geq$
- $\geq$ Maintenance of the ecological linkages between terrestrial, freshwater, estuarine and marine ecosystems.
- $\geq$ Preservation of the natural character of this coastal environment.

# Site Number: 05-028

Site Name:	Whareongaonga
NZMS 260:	(1:50,000) map series
Sheet No:	Y19
Grid Reference:	370.485
Map:	2A.27

# Locality Description and Site Summary:

The Whareongaonga headland is located twelve kilometres south of Poverty Bay. The site has significant coastal landscape values.

# Scenic Values:

The Whareongaonga headland, its associated intertidal reef system and the adjacent open water, is a significant natural feature on the south Gisborne coast and the best representative example of a coastal landscape of its type in the region (Smale, S., 1993).

# Boundary of Area of Significant Conservation Value:

All that part of the Coastal Marine Area contained by the line of Mean High Water Springs and occurring within 1 km radius from the seaward end of the Whareongaonga headland at Map Ref. Y19 368.486.

- Protection of the natural features and significant coastal landscape of the site.  $\geq$
- Preservation of the natural character of this coastal environment.  $\geq$