

OAKURA BAY COASTAL HABITAT

Survey no. Q05/022
Survey date 3 February 1997
Grid reference Q05 329 448
Area 14 ha (9 ha duneland, 5 ha estuary)
Altitude 0-5 m asl

Ecological unit

- (a) Grass-rush sp. saltmarsh on estuary
- (b) Coastal sandfield on foredune

Landform/geology

Sandy beach with a small estuary at the southern end.

Vegetation

- (a) The estuarine area is vegetated in grasses and rushes. Pohutukawa is frequent, with harakeke, pohuehue, mangroves, saltmarsh ribbonwood, manuka, and *Convolvulus* sp. less common.
- (b) The sandy beach at Oakura Bay is sparsely vegetated.

Fauna

Northern NZ dotterel (Nationally Vulnerable), variable oystercatcher (Regionally Significant).

Significance

Presence of threatened and regionally significant bird species.

HELENA BAY REMNANTS

Survey no. Q05/023
Survey date 4 February 1997
Grid reference Q05 349 411, Q05 344 403, Q05 360 396, Q05 354 393,
Q05 356 395, Q05 349 391, Q05 342 396, Q05 354 411
Area 35 ha (7 ha estuary, 28 ha forest)
Altitude 0-60 m asl

Ecological unit

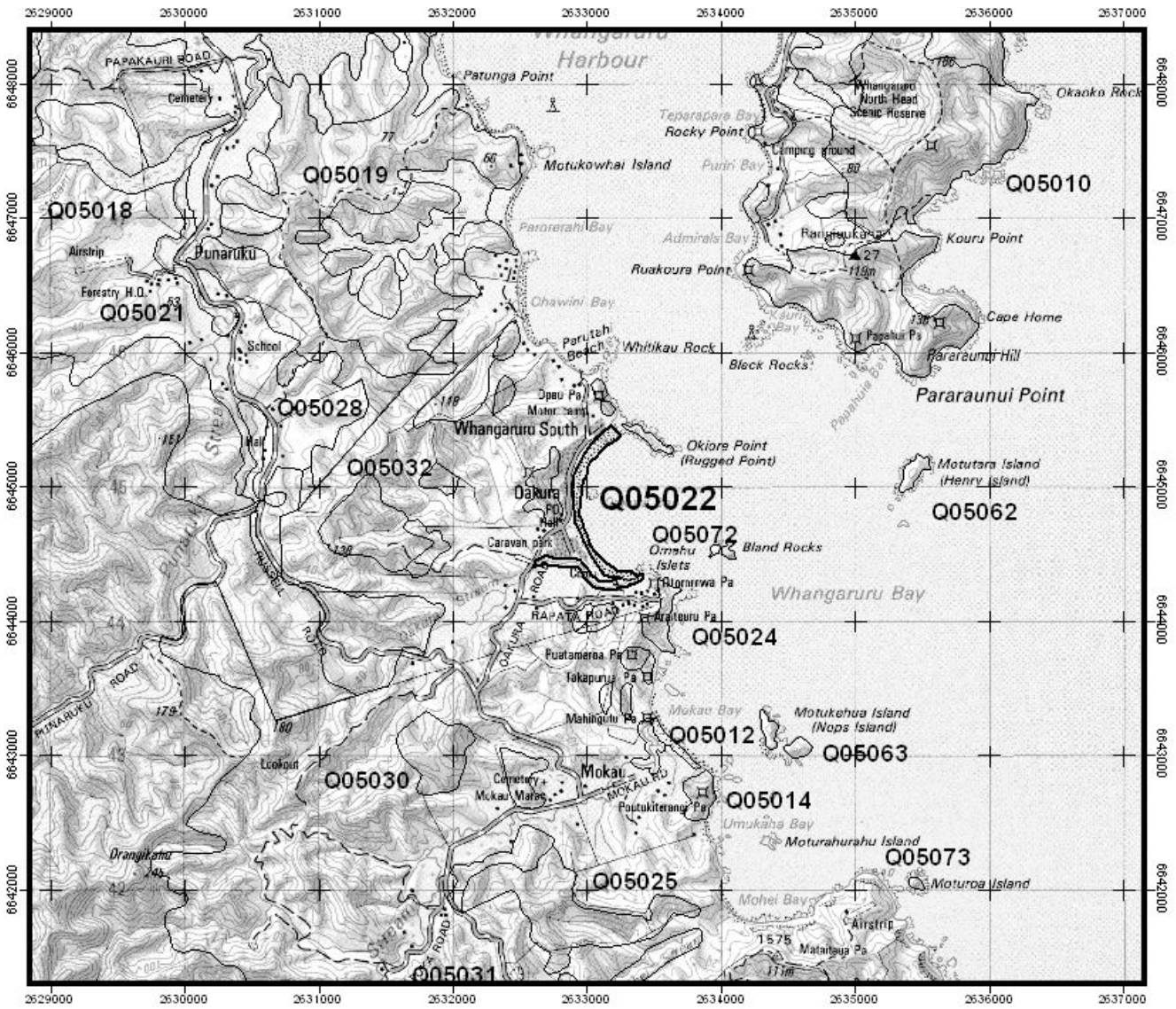
- (a) Pohutukawa-kanuka/manuka coastal forest on headland and hillslope
- (b) Kanuka/manuka-totara coastal forest on hillslope
- (c) Puriri-taraire-totara coastal forest on hillslope
- (d) Mangrove forest on estuary
- (e) Raupo reedland on alluvium

Landform/geology

Eight coastal remnants on cliffed coastal headlands in Waipapa Terrane greywacke.

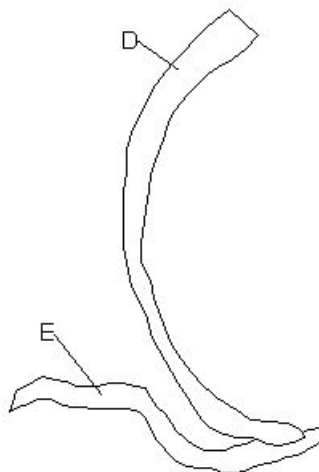
Vegetation

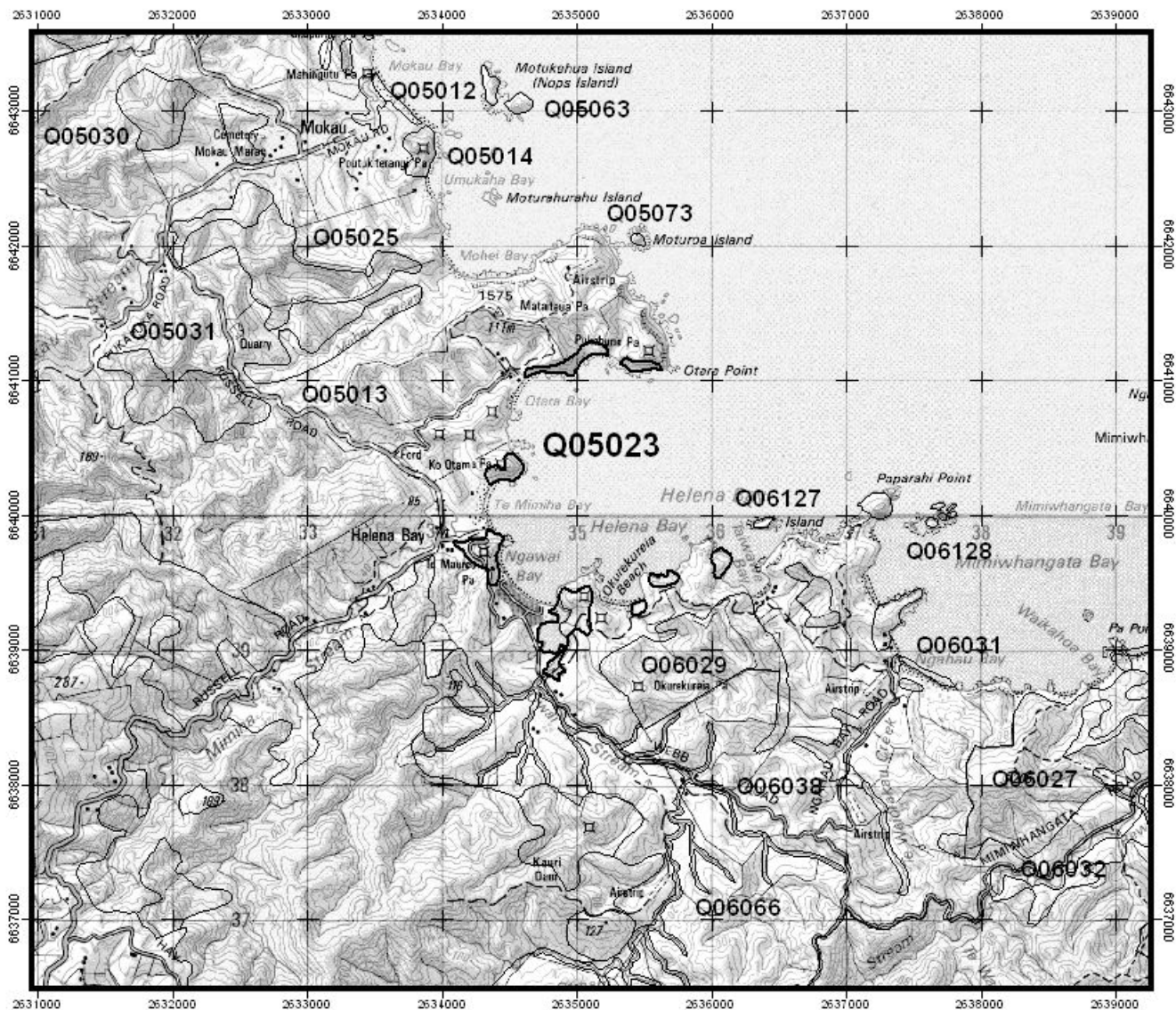
- (a) The headlands in the Helena Bay area feature pohutukawa-kanuka/manuka coastal forest. Puriri, kohekohe, and mamaku are scattered throughout. Kauri features as an emergent in some areas. This vegetation type is also found on the headland to the east of Ngawai Bay estuary. Associated species include kowhai, puriri, and totara.



Oakura Bay Coastal Habitat Q05/022

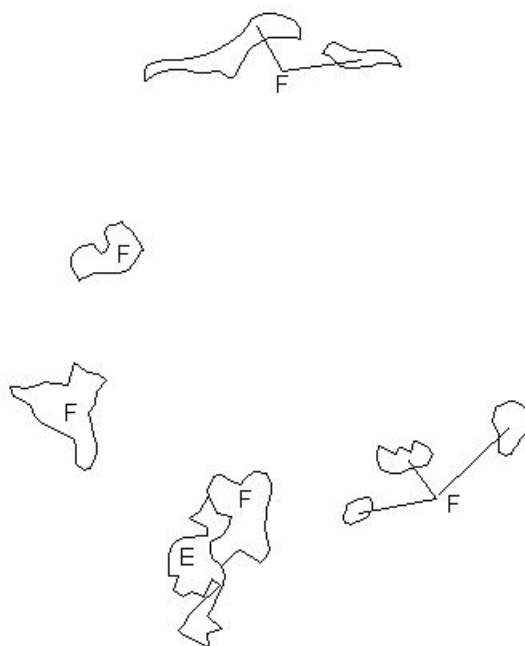
Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland





Helena Bay Remnants Q05/023

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
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 W = wetland
 E = estuarine
 D = duneland



(b) To the south-east of this area is a small piece of contiguous regenerating kanuka/manuka-totara secondary forest. Kauri, pohutukawa, ti kouka, and mamaku are present in low numbers.

(c) Further up the estuary is a small area of puriri-taraire-totara forest, which also contains kohekohe.

(d) The Ngawai Bay estuary is dominated by mangrove in the lower reaches. Further up the estuary, stock have impacted on the area, leaving only scattered vegetation which includes rushes and manuka.

(e) Adjacent to the forest behind Ngawai Bay is a small raupo wetland. Yellow ginger is present within the wetland. (This ecological unit is not shown on the map).

Significant flora

King fern (Serious Decline). *Fuchsia procumbens* (Sparse) is found in the forest at the north end of Ngawai Bay.

Fauna

The upper Ngawai Bay estuary is a very important roost site for pateke (Nationally Endangered). Bird species which utilise the estuary include pied shag (Sparse) and variable oystercatcher (Regionally Significant). Matuku (Nationally Endangered) have been reported from the estuarine area in the past.

Presence of the threatened snail *Schizoglossa worthyae* (Sparse).

Significance

The site contains a good example of coastal forest featuring a diversity of forest types including kauri.

Presence of threatened and regionally significant species. The estuarine area is a very important roost site for pateke, as well as supporting other bird species.

Representative site for type (b) kanuka/manuka-totara coastal forest, and type (c) puriri-taraire-totara coastal forest.

2.5 ha at this site are reserves administered by the Department of Conservation.

OAKURA BAY REMNANTS

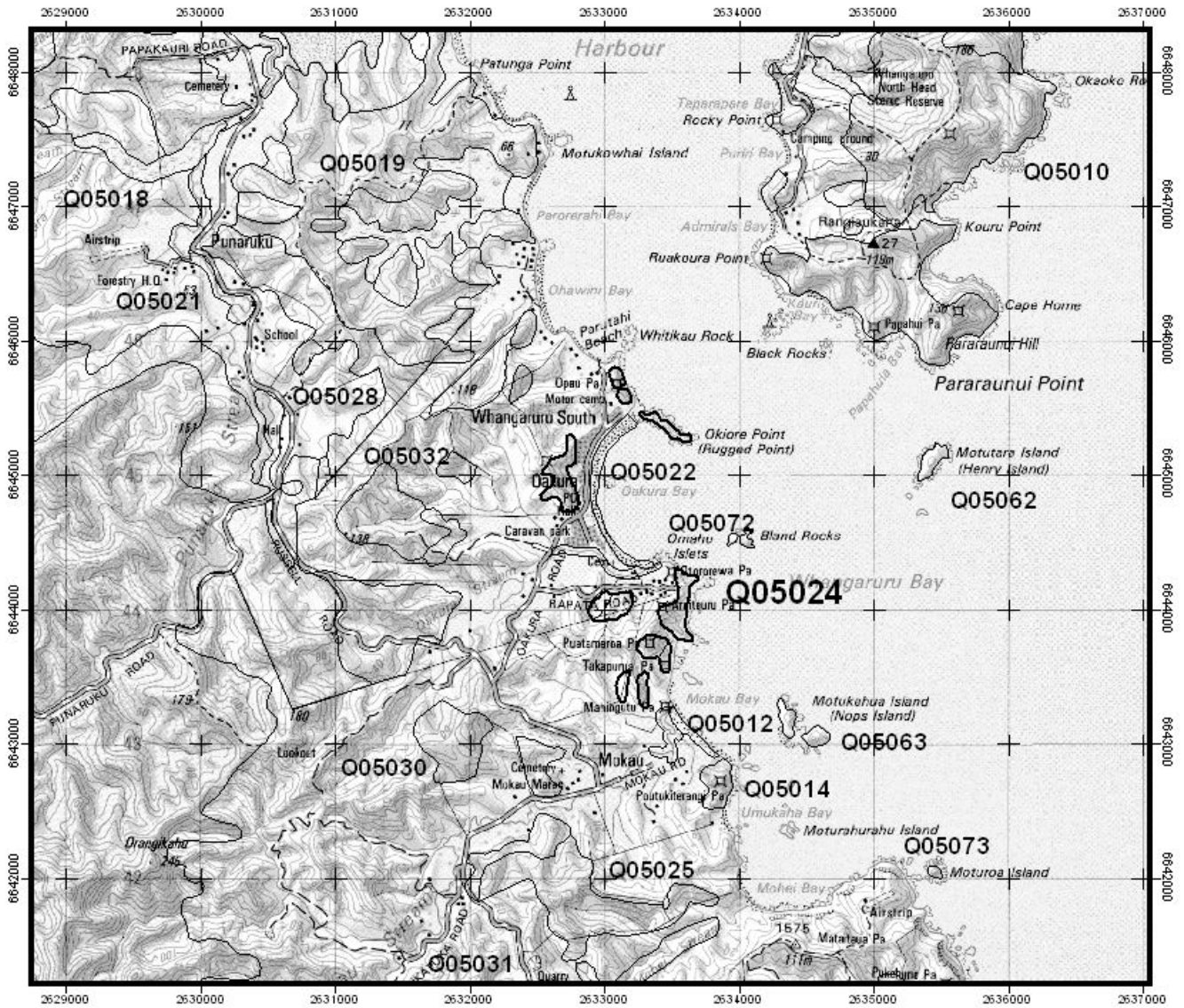
Survey no.	Q05/024
Survey date	3 February 1997
Grid reference	Q05 332 434, Q05 335 440, Q05 331 434, Q05 334 453, Q05 330 440, Q05 331 455, Q05 326 450, Q05 330 457, Q05 333 436
Area	33 ha (28 ha forest, 5 ha shrubland)
Altitude	0-80 m asl

Ecological unit

- (a) Pohutukawa coastal forest on headland and hillslope
- (b) Kanuka/manuka coastal shrubland on hillslope
- (c) Raupo reedland on alluvium

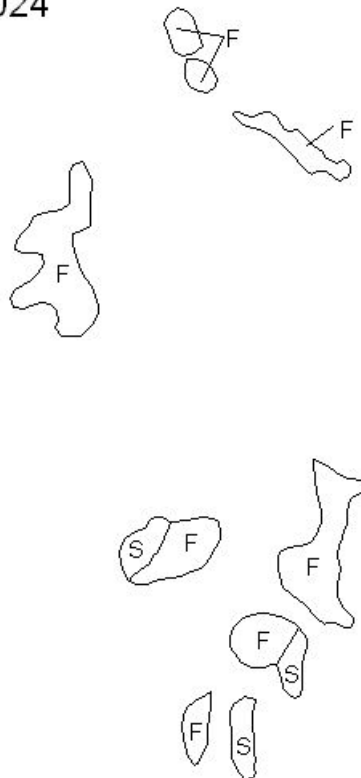
Landform/geology

Cliffed coastal headlands and coastal hills in Waipapa Terrane greywacke.



Oakura Bay Remnants Q05/024

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland



Vegetation

The site consists of several small coastal remnants adjacent to Oakura Bay.

(a) The small remnant at Opau Pa, at the northern end of the bay, consists of pohutukawa coastal forest which is partially grassed underneath. Frequent species include puriri, kohekohe, and karaka, with occasional kowhai.

Pohutukawa is also the dominant canopy species at the adjacent Okiore Point, which is a small, steep, rocky outcrop which is cut off from the mainland at high tide. Harakeke is frequent beneath the canopy, with the occasional kowhai.

Pohutukawa coastal forest is repeated again in the remnant behind Oakura Bay. Other canopy species include totara, puriri, kanuka, rimu, kauri, and tree fern. The understorey is virtually absent due to grazing by stock. Other trees are scattered along the adjacent hillside, but are discontinuous with the core of the habitat.

In the Takapurua Pa area, at the southern end of the bay, a discontinuous pohutukawa canopy occurs over grasses. Mamaku is also present.

(b) A small area of kanuka/manuka coastal shrubland of up to 2 m in height occurs at this site, with the occasional emergent pohutukawa.

(c) Raupo dominates the fertile wetland on the western side of the site. Manuka, mamaku, and wheki occur occasionally throughout. There is a presence of adventive species within the wetland such as yellow ginger, Mexican devil, and crack willow.

Type (b) shrubland also buffers the swamp. Occasionally occurring species include totara, mamaku, ti kouka, and ponga.

Fauna

Common forest birds such as grey warbler, NI fantail, and welcome swallow.

Significance

The coastal forest remnants of the area are an important landscape feature, and are a nationally rare forest type.

MOKAU BUSH

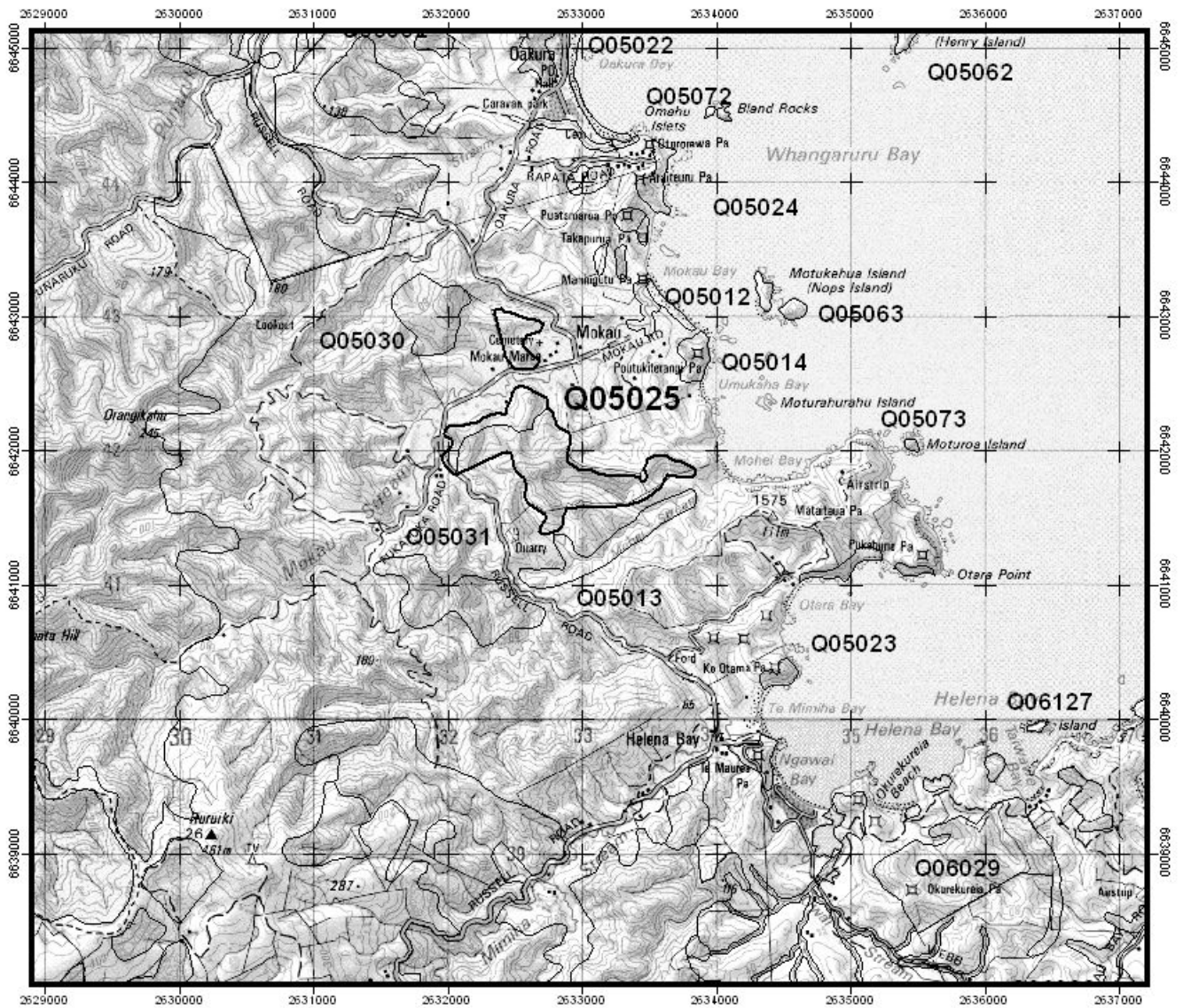
Survey no.	Q05/025
Survey date	3 February 1997
Grid reference	Q05 325 428, Q05 326 419
Area	78 ha (56 ha forest, 22 ha shrubland)
Altitude	20-110 m asl

Ecological unit

- (a) Puriri coastal forest on hillslope
- (b) Totara coastal forest on hillslope
- (c) Kanuka/manuka coastal shrubland on hillslope
- (d) Raupo reedland on alluvium

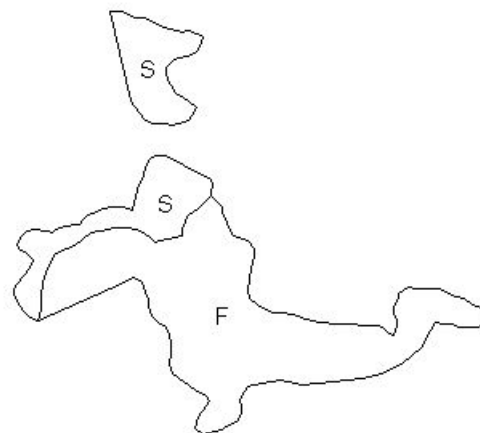
Landform/geology

Two remnants on dissected coastal hillcountry in Waipapa Terrane greywacke.



Mokau Bush Q05/025

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland



Vegetation

The site contains a mosaic of forest and shrublands at varying stages of regeneration, and a fertile wetland.

(a) To the north-east of the quarry on Russell Road, on the south-facing hillslopes, is an area of relatively mature puriri-dominant secondary forest. Towai, kanuka/manuka, totara, and emergent rewarewa are frequent, with occasional kahikatea, rimu, mamaku, nikau, ponga, and pohutukawa.

(b) To the north of this area, the forest is less mature, and is dominated by totara with some kanuka/manuka also present.

(c) The northern end of the site consists of kanuka/manuka shrubland of 2-4 m in height. Some totara, tanekaha, towai, and mamaku occurs occasionally throughout. Pate and puriri are present in damper gullies.

(d) A small wetland, dominated by raupo, is present at the north-western corner of the site. (This ecological unit is not shown on the map).

Fauna

Common forest and wetland birds are present, such as NI fantail, grey warbler, NZ kingfisher, pukeko and tui. Matuku (Nationally Endangered) and spotless crane (Sparse) and have been reported from the site in the past.

Significance

The site contains a raupo reedland and an area of puriri forest, both of which are uncommon in the District. Linkage function with adjacent wetland and pond, which are used by pateke.

Past records of threatened bird species.

Representative site for type (a) puriri coastal forest and type (b) totara coastal forest. Only record of type (a) in the Ecological District.

WHANGARURU HARBOUR REMNANTS

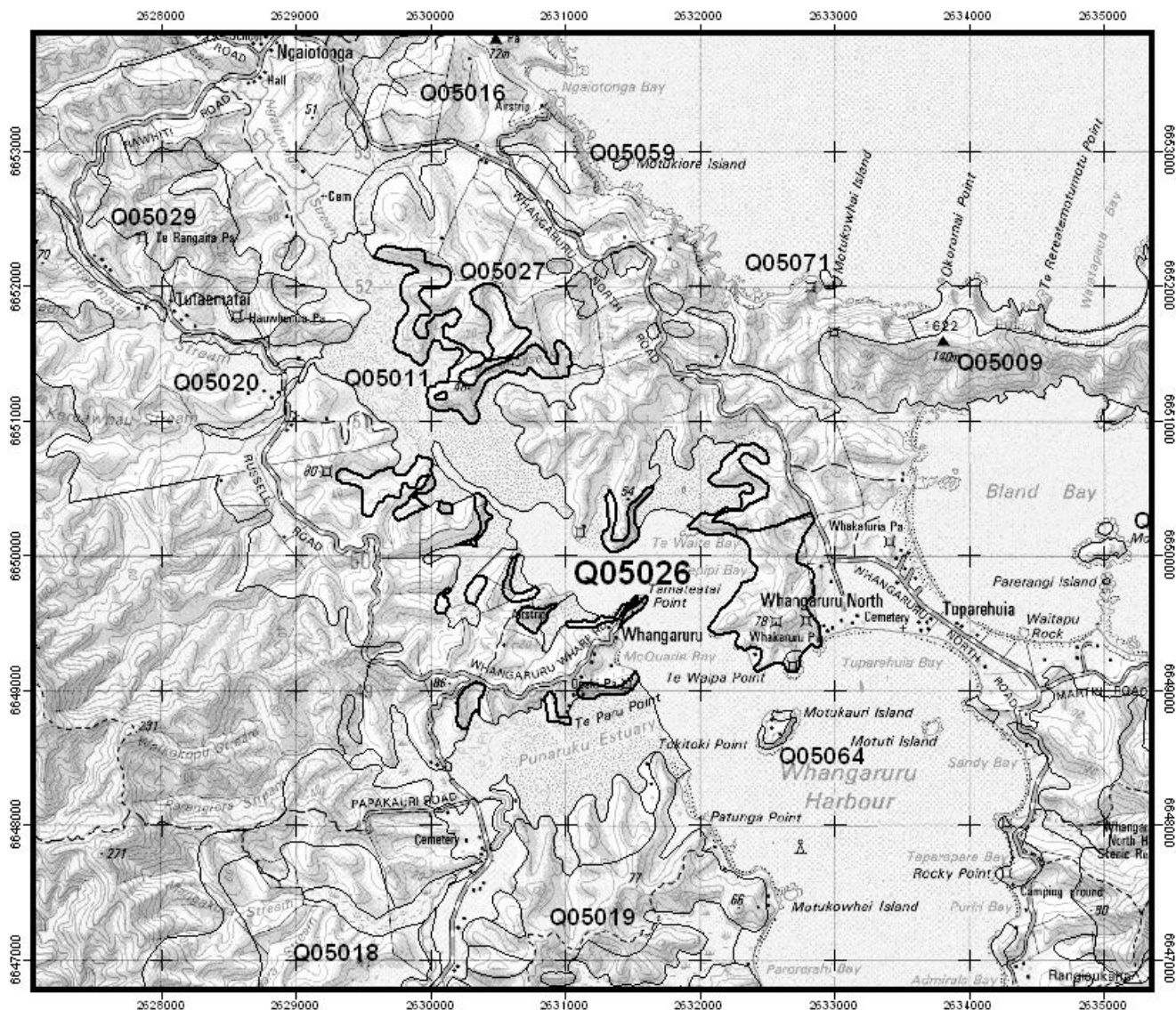
Survey no.	Q05/026
Survey date	4 February 1997
Grid reference	Q05 314 495, Q05 307 495, Q05 303 488, Q05 308 488, Q05 305 498, Q05 313 502, Q05 301 503, Q05 311 490, Q05 315 495, Q05 303 497, Q05 303 502, Q05 300 496, Q05 324 499, Q05 296 505, Q05 305 517, Q05 298 516
Area	170 ha (103 ha forest, 67 ha shrubland)
Altitude	0-100 m asl

Ecological unit

- (a) Kanuka/manuka-totara coastal forest on hillslope
- (b) Kanuka/manuka coastal shrubland on hillslope
- (c) Pohutukawa coastal forest on hillslope
- (d) Kanuka coastal forest on hillslope

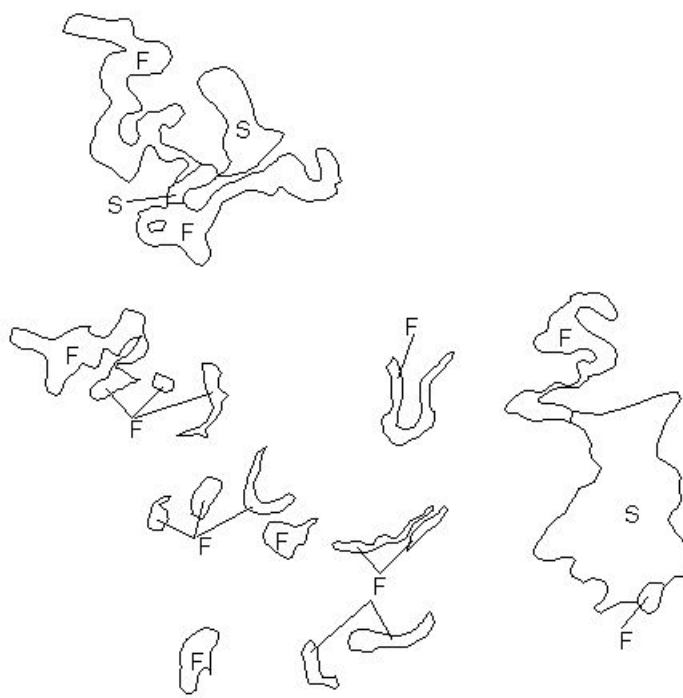
Landform/geology

Coastal headlands of Waipapa Terrane greywacke within Whangaruru Harbour.



Whangaruru Harbour Remnants Q05/026

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland



Vegetation

Series of small coastal remnants around the edge of the Whangaruru Harbour.

(a) Regenerating kanuka/manuka-totara forest occurs on hillslopes surrounding the harbour, and provides a buffer adjacent to the estuaries of the harbour. Ti kouka and puriri occur occasionally within this vegetation type. Type (a) vegetation also occurs at the Whangaruru Wharf Road junction. This site also contains taraire, towai, tanekaha, and ponga, with the occasional matai.

(b) The kanuka/manuka shrubland at this site varies in height from 2 to 5 m. In the Tepipi Bay area, the kanuka/manuka shrubland also features ti kouka and mamaku, while in other areas, shrubs such as hangehange and mapou are present with ponga. In the Te Waipa Point area, the kanuka/manuka shrubland also contains totara, pohutukawa, and puriri as occasional emergents, with frequent mamangi and mamaku.

(c) Coastal forest scattered around the harbour is pohutukawa dominant, with species such as houpara and kanuka/manuka also present. In some cases, the forest canopy is discontinuous, with scattered trees only.

(d) A remnant of regenerating mixed podocarp-broadleaf forest occurs on the estuary north of the Whangaruru North Road. This forest is kanuka-dominant, with totara, puriri, rimu, and kauri frequent. Some kowhai, rewarewa, and pohutukawa are present in low numbers.

Fauna

NI brown kiwi (Serious Decline) are possibly present. Common forest birds include NI fantail, grey warbler, shining cuckoo and tui.

Significance

Forest remnants around the Whangaruru Harbour fulfill an important role in providing a buffer to the harbour, reducing nutrient run-off from farmland surrounding the harbour. These areas also provide habitat for estuarine and forest wildlife. Historically, the threatened plant *Euphorbia glauca* (Serious Decline) is known from the shores of the Whangaruru Harbour. Matai, which is of limited occurrence in Northland, is present in one of the remnants surrounding the harbour.

Representative site for type (b) kanuka/manuka coastal shrubland, and type (c) pohutukawa coastal forest.

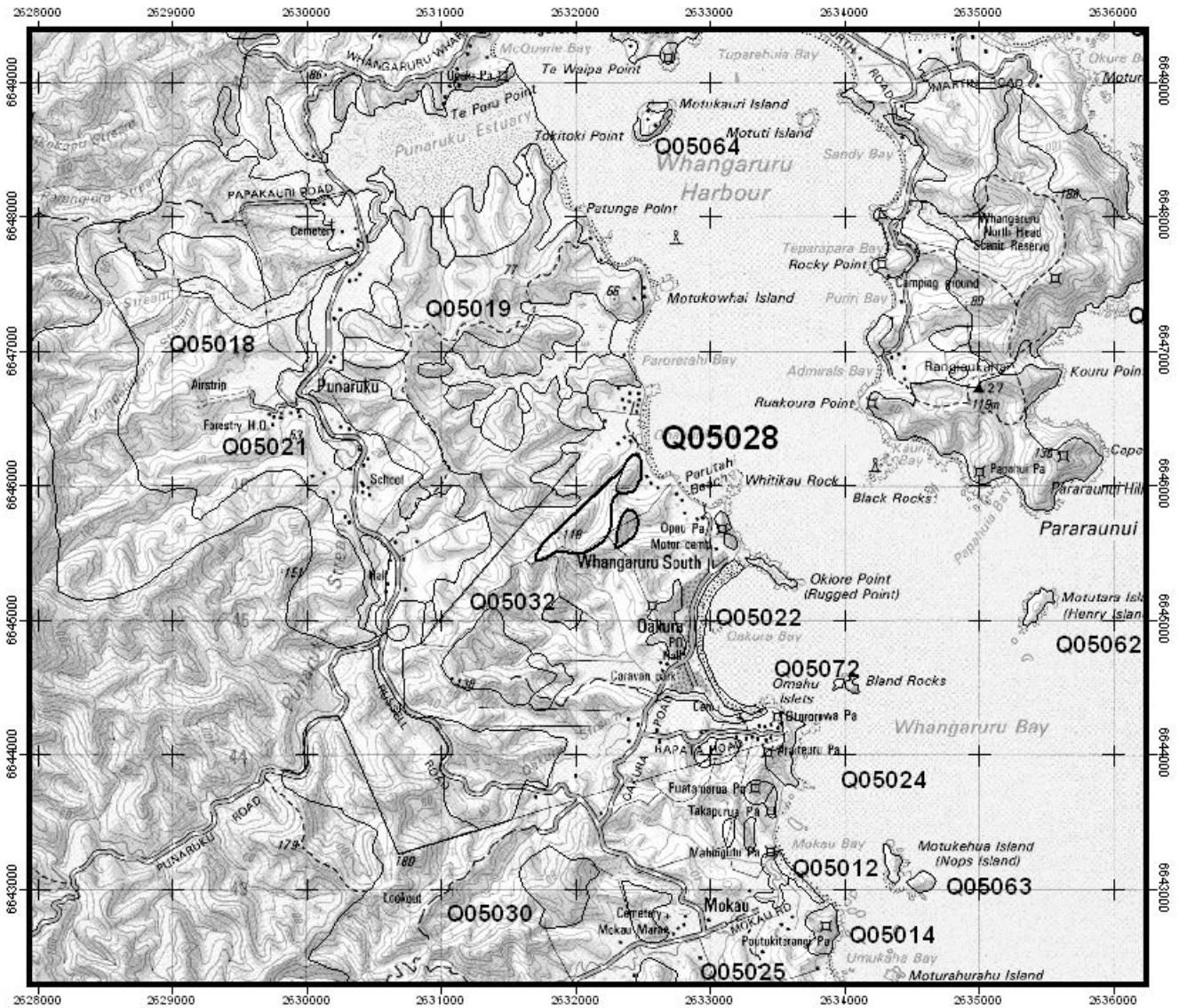
2.6 ha at this site are Scenic Reserve administered by the Department of Conservation.

OHAWINI BAY BUSH REMNANTS

Survey no.	Q05/028
Survey date	3 February 1997
Grid reference	Q05 323 456, Q05 320 458
Area	23 ha (7 ha forest, 16 ha shrubland)
Altitude	20-140 m asl

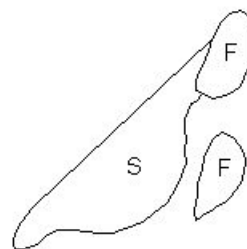
Ecological unit

- (a) Kanuka coastal forest on hillslope
- (b) Kauri-puriri coastal forest on hillslope



Ohawiwi Bay Bush Remnants Q05/028

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland



- (c) Kanuka/manuka coastal shrubland on hillslope
- (d) Kanuka/manuka-pohutukawa-totara coastal forest on hillslope

Landform/geology

Dissected coastal hillcountry in Waipapa Terrane greywacke.

Vegetation

The site consists of two small secondary forest/shrubland remnants adjacent to an area of plantation pines.

(a) The south-western remnant consists primarily of kanuka forest, with emergent kauri, puriri, and totara, as well as some nikau.

(b) The south-facing slopes of this remnant feature kauri-puriri secondary forest, with totara and rimu also present.

(c) Kanuka/manuka shrubland occurs on the edges of this remnant, and has emergent totara and kahikatea. Some *Pinus* sp. are also present.

(d) The north-eastern remnant contains two small areas of kanuka/manuka-pohutukawa-totara coastal forest adjacent to Ohawini Bay. Other species present include tree fern, emergent tanekaha, and rimu in small amounts.

Type (c) vegetation is repeated throughout the remainder of this remnant, and also contains frequent emergent totara and tanekaha.

Fauna

Not surveyed.

Significance

Coastal forest and shrubland are nationally threatened habitat types.

Representative site for type (b) kauri-puriri coastal forest.

TUTAEMATAI BUSH

Survey no.	Q05/029
Survey date	5 February 1997
Grid reference	Q05 289 522, Q05 284 523
Area	121 ha (92 ha forest, 29 ha shrubland)
Altitude	10-100 m asl

Ecological unit

(a) Kanuka/manuka coastal shrubland on hillslope

(b) Kanuka/manuka-rewarewa-totara coastal forest on hillslope

Landform/geology

Coastal hillcountry of Waipapa Terrane greywacke.

Vegetation

Forest remnant with small outlier adjacent to the upper Whangaruru Harbour.

(a) The kanuka/manuka shrubland area also contains frequent regenerating totara and rewarewa.

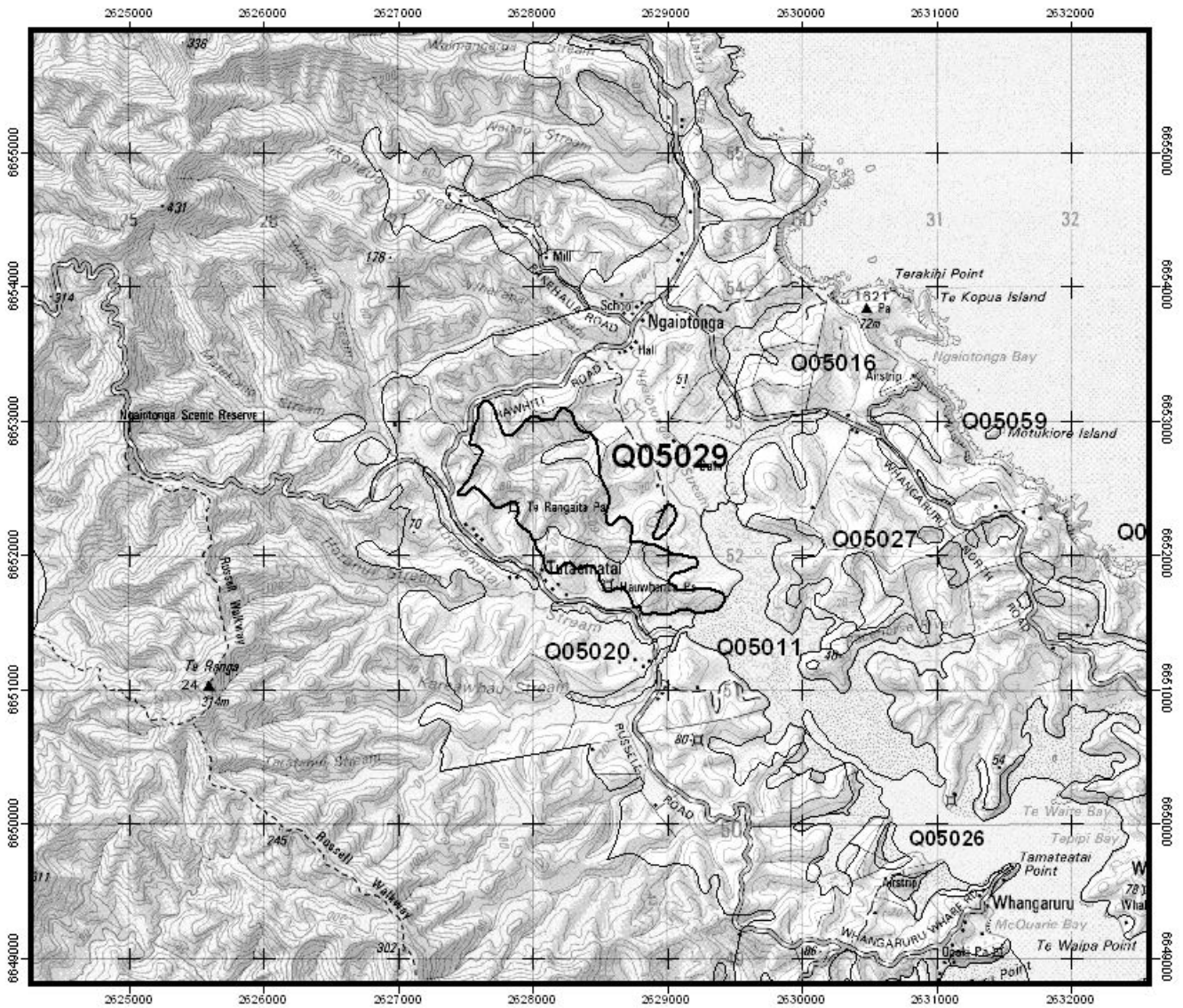
(b) The area of secondary forest is dominated by kanuka/manuka also, with rewarewa and totara common throughout.

Fauna

NI brown kiwi (Serious Decline).

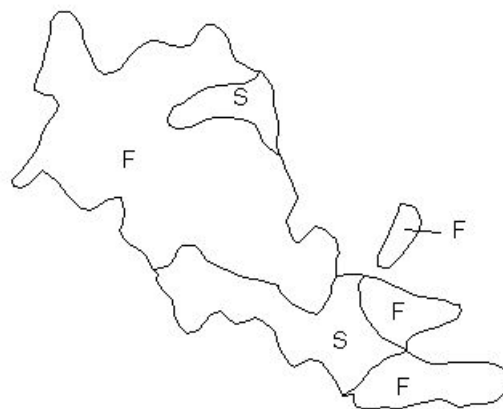
Significance

Presence of kiwi. The stream adjacent to the area is habitat for pateke (Nationally Endangered).



Tutaematai Bush Q05/029

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland



Links the upper Whangaruru Harbour with Russell Forest.

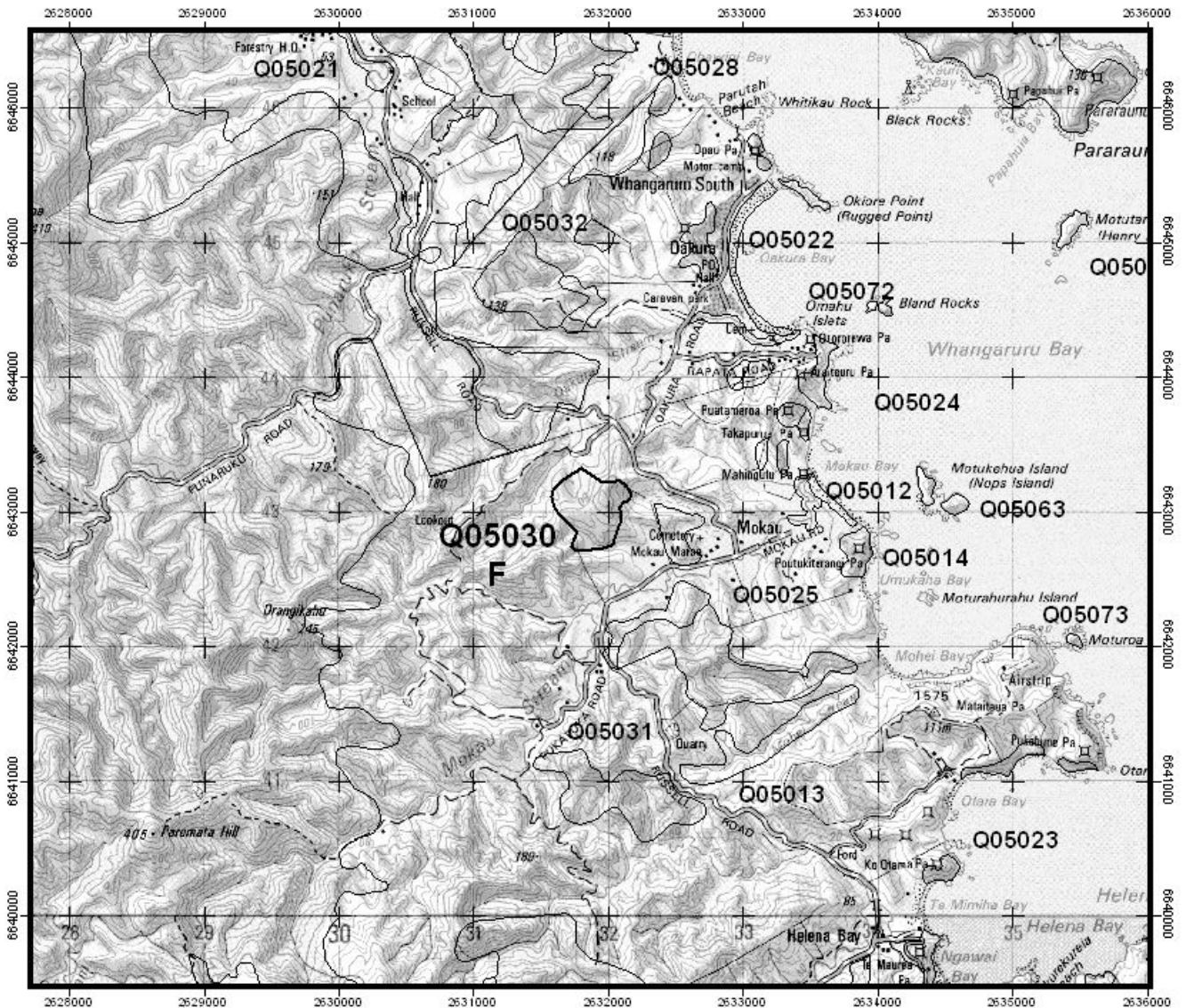
Representative site for type (b) kanuka/manuka-rewarewa-totara coastal forest.

OAKURA ROAD REMNANT

Survey no. Q05/030
 Survey date 12 September 1997
 Grid reference Q05 318 430
 Area 23 ha
 Altitude 10-100 m asl

Ecological unit

- (a) Kanuka/manuka-tanekaha forest on ridge (60%)
- (b) Taraire-puriri forest on hillslope (40%)



Oakura Road Remnant Q05/030

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland

Landform/geology

Hillcountry of Waipapa Terrane greywacke.

Vegetation

A small forest remnant surrounded by plantation pines.

(a) Ridges are vegetated with kanuka/manuka-tanekaha forest, with frequent totara, and occasional rimu and rewarewa.

(b) Hillslopes are dominated by taraire, with puriri common. Frequent species include tawa, nikau, and kohekohe, with occasional kahikatea, totara, tarata, karaka, rimu, towai, mamangi, and rewarewa.

Fauna

Not surveyed.

Significance

Representative site for both ecological units.

12.9 ha at this site are protected as a Conservation Covenant.

PUKAPUKA ROAD FOREST

Survey no.	Q05/031
Survey date	12 September 1997
Grid reference	Q05 320 408
Area	40 ha
Altitude	40-140 m asl

Ecological unit

(a) Kanuka/manuka-taraire forest on hillslope

Landform/geology

Hillcountry of Waipapa Terrane greywacke.

Vegetation

A small remnant surrounded by plantation pines.

(a) Dominated by kanuka/manuka-taraire forest, with frequent totara, towai, rimu, and puriri, and occasional kauri, tawa, and karaka.

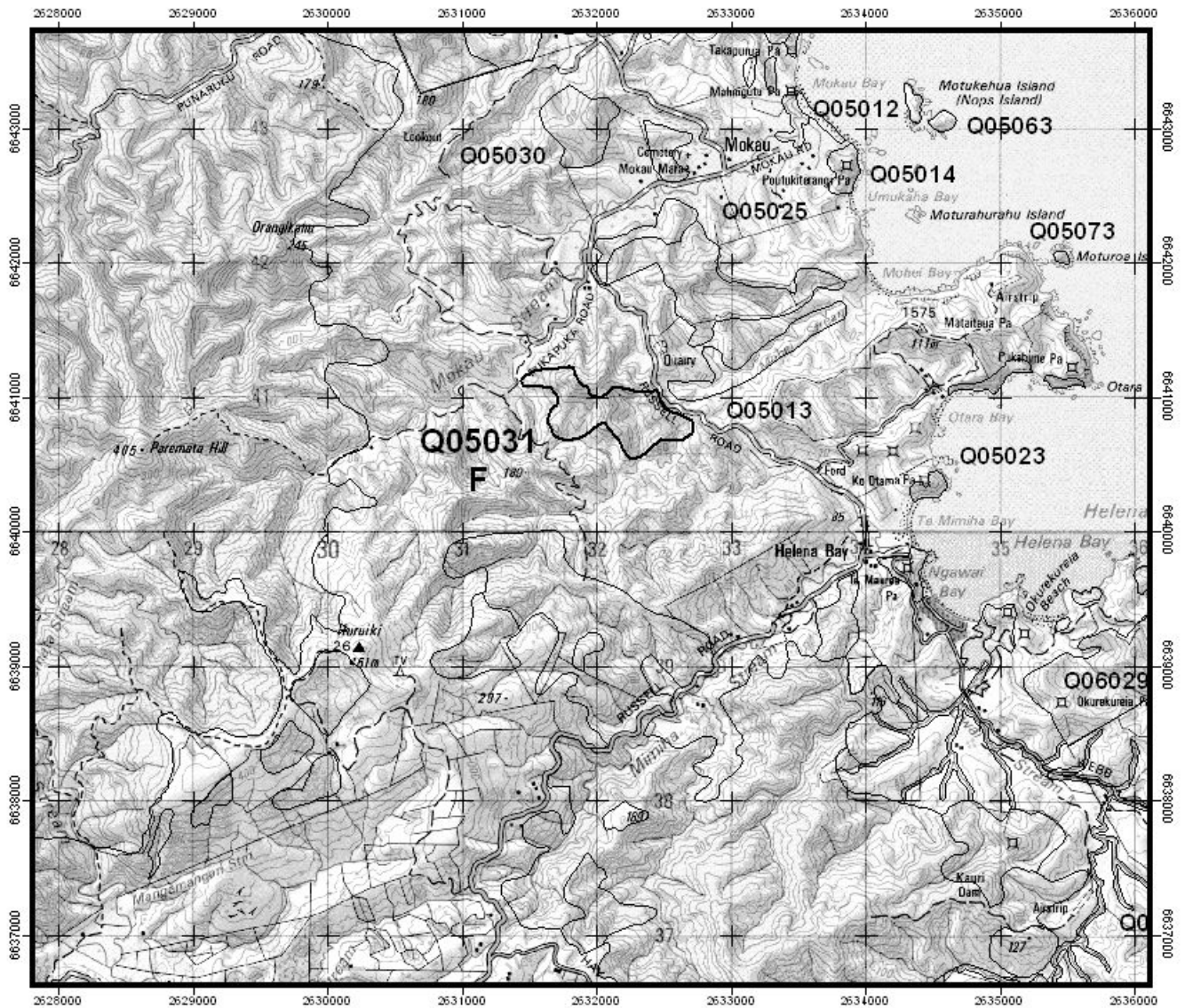
Fauna

Not surveyed.

Significance

Representative site, and only record of type (a) in the Ecological District.

27.5 ha at this site are protected as a Conservation Covenant.



Pukapuka Road Forest Q05/031

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland

RUAPEKAPEKA FOREST

Survey no. Q06/003
 Survey date 13 December 1994
 Grid reference Q06 099 398, Q06 132 371, Q06 120 399
 Area 1037 ha (850 ha forest, 187 ha shrubland)
 Altitude 40-260 m asl

Ecological unit

- (a) Kanuka/manuka-tanekaha forest on hillslope
- (b) Kanuka/manuka-tanekaha-towai forest on hillslope
- (c) Totara forest on hillslope
- (d) Taraire forest on hillslope
- (e) Tanekaha forest on ridges
- (f) Kanuka/manuka shrubland on hillslope