

Bay of Plenty  
Conservancy

Schedule of Sites of  
Significant Conservation  
Value.

WESTERN BAY OF  
PLENTY

Volume 2 B (U14/110 - V15/9)



Bay of Plenty  
Conservancy

**DRAFT**

## Schedule of Sites of Significant Conservation Value

### WESTERN BAY OF PLENTY

Compiled by:

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Contributions by:

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C. Richmond, B. Norton, W. Shaw, A.  
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Volume 2b (U14/110 - V15/9)

**INFOVISION #**

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Prepared for:  
Department of Conservation • Te Papa Atawhai  
Rotorua.



SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/110

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine and freshwater wetland

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WBOPDC Map: E6

Name: Waipapa Estuary

Area:

Protection Status: Unprotected except for esplanade reserve along the river.

Map Series: NZMS260

Grid Reference: 756 903

Aerial photo no: 170715

Date Flown:

Landform: Streambanks, flats and escarpment.

**Habitat Description:**

Wetland located in upper reaches of Waipapa Estuary, alongside Waipapa River, above railway bridge. Wetland has a wide variety of vegetation types dominated by oioi sedgelands (70% of area) with a mixed mosaic of searush sedgeland, mangrove shrubland, raupo reedland, manuka scrubland, marsh ribbonwood scrub, *Olearia solandri* scrub, flaxland, grey willow forest, toetoe grassland, *Baumea* sp. sedgeland, *Cyperus ustulatus* and *Isolepis cernua* sedgeland. Adventive plants are scattered throughout the wetland margins. They include gorse, bracken, woolly nightshade, blackberry, pampas and wilding pines. Steep faces on northern side have regenerating forest.

The banded rail and North Island fernbird are present at this site.

(Source: Owen, 1993a).

Vegetation also mapped and described in Beadel (1992a) and described in Beadel (1993).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value. This site contains a representative, relatively large area of high quality oioi sedgeland inland from the main harbour adjacent to a tidal stream. It was identified as a Category one area in Beadel (1992a). (Source: Beadel, 1993).

**Wildlife:** Assessed as having high wildlife habitat values for wildlife. (Owen, 1993a).

**Other:** Natural character and water and soil values.

**THREATS AND REMARKS:**

see Owen (1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

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**LANDOWNER VISITS:**

1. P. Altham, 24 Pahoia Road. Legal Description: Lot 2 DPS 54678. Visited by V. Froude (DOC), B. Hawkins (WBOPDC) on 8.8.94.

Outcome of visit:

Site boundaries amended.

**Agreements between WBOPDC and Landowners:**

1. Altham: The site excludes the steep hill-faces on the Altham property except for the area of regenerating indigenous forest near the northern boundary of the property. (see map E6).

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/111

Date of completion: 2.12.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Apata Estuary

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 745 912

Aerial photo no: 170731

Date Flown: 24.3.93

Landform:

**Habitat Description:**

A large, good quality mangrove stand with relatively narrow areas of saltmarsh along the margins (Oioi sedgeland, searush tussockland, local freshwater wetlands, Raupo reedland and willow forest. (Source: Beadel, 1992a).

Vegetation is mapped in Beadel (1992a) and described in Owen (1993a) and Beadel (1993).

The Australasian bittern, banded rail and NI fernbird are present in this site. (Owen, 1993a).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value for reason in above habitat description. (Beadel, 1993).

**Wildlife:** The larger part of the site being Apata estuary is assessed as having outstanding wildlife habitat quality for marshbirds and the rest of site is assessed as having moderate habitat quality for marshbirds. (See Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

See (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/112

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Islet vegetation

Name: Opureora Islet

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 826 938

Aerial photo no:

Date Flown:

Landform: Islet

**Habitat Description:**

Small unnamed islet near Opureora Settlement, Matakana Island. Islet vegetation dominated by searush sedgelands (75%) with oioi sedgelands and marsh ribbonwood scrub. On higher ground mixed associations of manuka scrub and *Olearia solandri* scrub can be found with localised *Stipa stipoides* grassland, gorse, wattle, red mapou, blackberry, *Carmichaelia arborea*, cabbage tree, *Coprosma robusta*, tree tobacco and pohutukawa vegetation.

The North Island banded rail is present at this site.

(Source: Owen, 1993a).

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CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are other better quality examples of similar vegetation elsewhere in the Tauranga Harbour. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17.  
Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/113

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Opureora Inlet

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 820 935

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

Small, narrow tidal inlet near Opureora settlement. Inlet has a narrow band of searush sedgelands around its margins with limited areas of oioi sedgelands and marsh ribbonwood shrub and occasional *Cyperus ustulatus*, manuka scrub, cabbage tree, grey willow forest and wattle. Tree tobacco, blackberry and pampas are found around wetland edge.

The NI Fernbird is found at this site.

(Source: Owen, 1993a).

Vegetation mapped in Beadel (1992a).

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CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are better quality larger examples of similar vegetation elsewhere in the ecological district. (S.M. Beadel, per comm).

**Wildlife:** Assessed as having moderate wildlife habitat values for marshbirds. (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/114

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Waiherehere road

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 821 959

Aerial photo no: 170749

Date Flown: 4.2.93

Landform:

**Habitat Description:**

Narrow inlet, with estuarine vegetation, near Hunters Creek. A shallow band of *Schoenoplectus pungens* sedgelands with mixed searush and oioi sedgelands merging into a mixed association of marsh ribbonwood scrub, manuka scrub, cabbage tree, raupo reedland, tree fern and wilding pines. Further inland a freshwater wetland gully comprises dense grey willow forest with an understorey dominated by *Baumea* sp. sedgeland, Spanish heath scrub, *Coprosma robusta*, *Coprosma tenuicaulis*, blackberry, *Blechnum* "blackspot" and emergent cabbage trees.

The banded rail is present at this site.

(Source: Owen, 1993a).

Vegetation mapped in Beadel (1992a).

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CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Not ranked.

**Wildlife:** Assessed as having moderate wildlife habitat quality for marshbirds. (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/115

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: sandspit and saltmarsh vegetation.

Name: Tahunanmau Spit

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 803 948

Aerial photo no: 170729

Date Flown: 4.2.93

Landform:

**Habitat Description:**

Small tidal area of saltmarsh on the inland side of a narrow sandspit near Tahunamanu Island, Matakana Island. Saltmarsh comprises of searush and oioi sedgeland, marsh ribbonwood scrub and a herbfield dominated by *Triglochin striata* and *Cotula coronopifolia*. Sandspit has local areas of *Carex pumila* sedgeland, New Zealand iceplant, *Cotula coronopifolia*, *Stipa stipoides*, searush and gorse.

(Source: Owen, 1993a).

Vegetation mapped in Beadel (1992a).

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CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Not ranked.

**Wildlife:** Assessed as having moderate wildlife habitat quality for marshbirds. (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation.  
Report prepared for Bay of Plenty Regional Council,  
Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat  
Survey, Vol 2, Technical Report Series No.17.  
Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/116

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Blue Gum Bay 1

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 816 977

Aerial photo no: 170754 & 170753

Date Flown: 4.2.93

Landform:

**Habitat Description:**

Extensive estuarine vegetation sequence. The seaward side has small areas of *Schoenoplectus pungens* sedgelands, mangrove scrub (0.2m - 0.5m high) merging into substantial areas of mixed sedgelands dominated by searush and oioi with scattered *Baumea juncea* sedgelands and marsh ribbonwood scrublands. These in turn give way to low manuka scrub, cabbage trees, oioi sedgeland, *Olearia solandri* scrub, marsh ribbonwood scrub and flaxland associations which merge into manuka forest with a mixed understorey of *Coprosma tenuicaulis*, *Baumea* sp., *Schoenus* sp. and *Gleichenia dicarpa* fernlands. Further inland there is a wide band of grey willow forest with an understorey dominated by manuka, hangehange, *Coprosma robusta*, *Coprosma propinqua*, *Coprosma tenuicaulis*, *Baumea* sp. and *Schoenus* sp.

The banded rail and NI fernbird are present at this site.

(Source: Owen, 1993a).

Vegetation mapped in Beadel (1992a) and described in Beadel (1993).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as exceptional botanical conservation value. An extensive wetland, much of which is relatively unmodified, comprising a representative example of the estuarine and freshwater vegetation of Tauranga Harbour (Beadel, 1992a). It was identified as a category one area in Beadel (1992a). (Source: Beadel, 1993).

**Wildlife:** Assessed as having outstanding wildlife habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

See (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/117

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type:

Name: Tirohanga

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 800 986

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

Vegetated strip along the western side of Blue Gum Bay. Localised patches of *Schoenoplectus pungens* sedgelands with mangrove scrub and shrublands (northern end), mixed sedgelands of oioi, searush and *Baumea juncea* merging into a thin band of mixed marsh ribbonwood shrub, *Olearia solandri* scrub, flaxlands, raupo and *Baumea articulata* reedlands. Localised areas of manuka and Spanish heath scrub, grey willow forest and cabbage trees prevail along the upper shoreline.

The banded rail and NI fernbird are found at this site.

(Source: Owen: 1993a).

Vegetation is mapped in Beadel (1992a).

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CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are other better quality examples of similar vegetation elsewhere in the Tauranga Harbour.

**Wildlife:** Assessed as having moderate wildlife habitat quality for marshbirds. (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/118

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Rangiwaea Island Foreshore

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 834 940

Aerial photo no:

Date Flown:

Landform: Foreshore

**Habitat Description:**

This estuarine margin strip forms part of a larger wildlife habitat site.

The larger site is described as a strip of estuarine vegetation along part of western side of Rangiwaea Island. Area totally dominated by extensive searush sedgelands (20 - 50m wide) with some oioi sedgelands and a narrow band of marsh ribbonwood scrub and manuka scrub further inshore. Occasional marsh ribbonwood scrub, *Stipa stipoides* grassland and flaxland along with a few wilding pines and wattles are found on a narrow raised beach along part of wetland. Near the seaward edge of the wetland *Sarcocornia quinqueflora* and remuremu herbfields are found. An occasional mangrove seedling is found growing along the shore.

The North Island fernbird is found at this site.

(Source: Owen, 1993a).

The vegetation of this site is mapped in Beadel (1992a).

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CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are other better quality examples of similar vegetation elsewhere in the Tauranga Harbour. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat quality for marshbirds. (Owen, 1993a).

This estuarine margin strip is part of the larger wildlife site and should be given the same conservation considerations to vegetation to preserve the wildlife values.

**Other:**

**THREATS AND REMARKS:**

See (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/119

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Rangiwaea Island Estuary.

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 845 922

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

Estuary on western side of Rangiwaea Island. Mouth of the estuary is protected by a small sandspit. The lower and middle sections of the estuary comprise exposed tidal flats with isolated mangroves (0.1m - 0.3m high) and a margin of searush sedgeland. In the upper reaches of the estuary there are mixed associations of oioi and searush sedgeland with a wide band of 3 - 4m high manuka scrubland. Associated with the manuka is an understorey of mamaku, *Coprosma robusta*, *Blechnum* "blackspot", *Schoenus* sp. and *Carex* spp. Estuary surrounded by farmland, forestry plantations and secondary native/exotic vegetation including a karaka grove near estuary mouth.

The North Island fernbird is found at this site.

(Source Owen, 1993a).

The vegetation is mapped and described in Beadel (1992a) and described in Beadel (1993).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value. A good example of manuka scrub on sand, contiguous with saltmarsh. These vegetation types are characteristic of Tauranga ecological district. Pingao is present on the sandspit at this site (classed as local). It was identified as a Category Two Area in Beadel (1992a). (Source: Beadel, 1993).

**Wildlife:** Assessed as having high wildlife habitat quality for marshbirds. (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

- Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.
- Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.
- Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/120

Date of completion: 4.2.93

Category: B

Ecological District: TGA

Habitat Type: Sandspit and Estuarine vegetation

Name: Pitua Road

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 822 886

Aerial photo no: 170718

Date Flown: 4.2.93

Landform:

**Habitat Description:**

Coastal tidal embayment with sandspit and estuarine vegetation at Te Puna Beach. Most of vegetation heavily modified. Vegetation largely searush sedgelands with scattered areas of estuarine herbfields, marsh ribbonwood scrub and gorse. A few mangroves are found in drains. Sandspit vegetation largely lost through human modification.

The North Island fernbird is found at this site.

(Source: Owen, 1993a).

The vegetation of this site is mapped in Beadel (1992a).

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CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Unranked

**Wildlife:** Assessed as having moderate wildlife habitat quality for wildlife (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/121

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Freshwater wetland

Name: Kuka Road

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 815 888

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

Coastal freshwater wetland near Tuterenga Marae, Te Puna. Vegetation comprises of a small area of oioi and searush sedgeland (nearest coast) with local areas of marsh ribbonwood scrub, raupo reedland and manuka scrubland and an extensive area of tall grey willow forest extending well inland. Other vegetation scattered throughout the area includes gorse, karo, wattle, pampas, flax, blackberry, bracken, tree tobacco and gum trees.

(Source: Owen, 1993a).

The vegetation of this site is mapped in Beadel (1992a).

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CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are better quality examples of similar vegetation elsewhere in Tauranga harbour. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/122

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Sandspit and duneland vegetation

Name: Waipa Road

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 806 888

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

Sandspit and beach along the north-eastern shoreline of Oтуру Creek Inlet. Estuarine vegetation is dominated by a narrow band of mixed searush and oioi sedgeland with scattered stands of mangrove scrub (0.4m to 1.2m high) along the seaward side. Inland of the sedgeland are localised pockets of raupo reedland, marsh ribbonwood scrub, manuka scrub and grey willow forest. Pampas, gorse and flax dominate an existing low stopbank (now breached by the sea) which lies parallel to the shore between the mangroves and sedgeland. *Stipa stipoides* grassland and estuarine herbfield vegetation cover parts of the sandspit.

The banded rail and North Island fernbird are found at this site.

Ooh vegetation of this site is mapped in Beadel (1992a).

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CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are better quality examples of similar vegetation elsewhere in the ecological district. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

- Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.
- Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/123

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine wetland

WBOPDC Map: E6

Name: Omokoroa Station Road

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 788 898

Aerial photo no: 170718, 170716

Date Flown: 4.2.93

Landform:

**Habitat Description:**

Small enclosed embayment (semi-circular in shape) at end of Omokoroa Station Road. Estuarine vegetation surrounding tidal flats has a mixed association of searush and oioi sedgelands and marsh ribbonwood scrub. *Stipa stipoides* grassland, marsh ribbonwood scrub, remuremu and *Samolus repens* herbfields cover the small sandspit on the seaward side. Pines, pampas, gorse and rank grasses surround wetland.

(Source: Owen, 1993a)

The vegetation of this site is mapped in Beadel (1992a).

This site continues below mean high water spring where it comes within the jurisdiction of Bay of Plenty Regional Council and its proposed Regional Coastal Environment Plan.

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are other better quality examples of similar vegetation in the ecological district. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

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**LANDOWNER VISITS**

1. Tony Yahoo, 401 Omokoroa Station Road. Legal Description: Lot 4, DPS 9288, visited on 10.08.94 by V.Froude (DOC) and Bruce Hawkins (WBOPDC).

Outcome of visit: Reduced extent of mapped site.

Agreement between WBOPDC and Landowner:

1. Site only includes the saltmarsh and estuarine scrub, and the fringe of predominantly native plants on the small sandspit. The surrounding mown and grazed pasture is not part of the site.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/124

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Wainui

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 720 927

Aerial photo no: 170733

Date Flown: 4.2.93

Landform:

**Habitat Description:**

This estuarine margin strip is part of a larger wildlife and botanical site.

The larger site is described as a relatively large good quality example of the following vegetation types characteristic of Tauranga harbour.

Vegetation types present are

- Mangrove scrub
- Mangrove shrubland
- Manuka shrubland
- Searush tussockland
- Oioi-marsh ribbonwood shrub-sedgeland
- Baumea juncea*-marsh ribbonwood-oioi sedgeland
- Oioi sedgeland
- Raupo reedland

(Source: Beadel, 1993).

The vegetation of this site is mapped in Beadel (1992a).

The site is also mapped and described in Owen (1993a).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value, for the reasons in above habitat description and being contiguous with U14/102. (Beadel, 1993).

**Wildlife:** Three wildlife habitat assessments have been given to this large site. They are mapped and described in Owen (1993a).

The estuarine margin strip is part of this larger wildlife habitat site and should be given the same conservation considerations to vegetation to preserve the wildlife habitat values.

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

- Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.
- Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.
- Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/125

Date of completion: 1.12.93

Category: A

Ecological District:

Habitat Type: Estuarine wetland

Name: Blue Gum Bay 2

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 809 975

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

This site is mapped in Beadel (1992a) and described in Beadel (1993a). The following vegetation types are present;

Cabbage tree-grey willow-manuka forest  
Grey willow forest  
Searush tussockland  
Oioi sedgeland  
*Schoenoplectus pungens* sedgeland  
Estuary margin vegetation.

(Source: Beadel, 1993).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value. It is contiguous with and complementary to the Blue Gum Bay Category One Area ( U14/138) which is a large good quality, representative example of the wetland vegetation of Tauranga Harbour. (Beadel, 1993).

**Wildlife:** Assessed as having moderate wildlife habitat value in Owen (1993a). Site 50.

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/126

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Wetland

Name: Tirohanga Road

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 800 972

Aerial photo no: 170748

Date Flown:

Landform:

Habitat Description:

Grey willow forest (S.M. Beadel, pers comm).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Unranked. Nearby a Category Two site in Beadel (1992). (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm. 1994).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/127

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type:

Name: Waiherehere Road Wetland

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 814 972

Aerial photo no: 170748

Date Flown:

Landform:

Habitat Description:

Grey willow forest

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** unranked but should be included in schedule. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm. 1994).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/128

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Matahui Road

DRAFT

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 705 967

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

Mangrove scrub is dominant with minor areas of searush tussockland and oioi sedgeland. (S.M. Beadel, pers comm).

The vegetation of this site is mapped in Beadel (1992a).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are better quality examples of similar vegetation elsewhere in the ecological district. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate habitat quality for marshbirds (Owen, 1993a). Site 51.

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/129

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Forest and treeland

Name: Ngakautuakina Point

DRAFT

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 764 930

Aerial photo no:

Date Flown:

Landform:

Habitat Description:

Pohutukawa forest and treeland (S.M. Beadel, pers comm).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical value. There are other better quality examples of similar vegetation elsewhere in the ecological district. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having potential wildlife habitat value (K.L. Owen, pers comm. 1994).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/130

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Forest and treeland

Name: Omokoroa Beach

DRAFT

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 787 917

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

Pohutukawa forest and treeland plus adventive species (S.M. Beadel, pers comm).

Vegetation of this site is mapped in Beadel (1992a).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are other better quality examples of similar vegetation elsewhere in the ecological district. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having potential wildlife habitat value (K.L. Owen, pers comm. 1994).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/131

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Oikimoke Point

**DRAFT**

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 831 882

Aerial photo no: 170718

Date Flown: 4.2.93

Landform:

**Habitat Description:**

An area of estuarine vegetation and adjoining sandspit, directly south of Oikimoke Point, near Te Puna Beach. Wetland dominated by extensive mixed associations of oioi and searush sedgeland. Along the edges are marsh ribbonwood scrub, *Olearia solandri* scrub, *Coprosma robusta*, *Leucopogon fasciculatus*, manuka scrub, grey willow forest, wattle, flax and pampas. On the seaward side (of wetland) is scattered mangrove scrub. Further inland, but divided from this area by a large stopbank, is a mixed searush sedgeland, manuka scrub and grey willow forest association. The sandspit is largely unvegetated.

The banded rail, spotless crake and North Island fernbird are found at this site.

(Source: Owen, 1993a).

Mapped in Beadel (1992a).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:**

**Wildlife:** Assessed as having high wildlife habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

- Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.
- Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.
- Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/132

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine wetland

DRAFT

Name: Jess Road

Area:

Protection Status: Inland wetland belongs to DOC and is currently leased long term.

Map Series: NZMS260

Grid Reference: 786 882

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

Two large estuarine wetland areas in Te Puna Estuary split into two by railway embankment. The seaward part (about  $\frac{1}{2}$  total area) is completely dominated by 0.5m to 1.5m high mangrove scrub and scrublands with several tidal channels running through area. On the inland side of the railway embankment the area comprises degraded searush sedgelands, remuremu and *Cotula coronopifolia* herbfields, extensive areas of rank grass with manuka scrublands (0.5m to 2.5m high) at each end. A small area of raupo reedland is at the northern end. A small mangrove scrubland area is found at the southern end.

The banded rail is present at this site.

(Source: Owen, 1993a).

The vegetation of this site is mapped in Beadel (1992a).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:**

**Wildlife:** Assessed as having moderate wildlife habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

- Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.
- Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.
- Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/133

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type:

DRAFT

Name: Wairoa river mouth western bank

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 832 865

Aerial photo no: 170862

Date Flown: 24.3.93

Landform:

**Habitat Description:**

A riparian strip of estuarine vegetation on the seaward side of an extensive stopbank lying on the western bank of the Wairoa River mouth. Vegetation comprises a narrow (5m to 40m) wide band of principally searush sedgelands with some oioi sedgelands. In scattered localities both appear as varied associations. There are areas of marsh ribbonwood scrub on the inland edge and local stands of mangrove scrub and shrublands with *Spartina* sp. present at the northern end.

The North Island fernbird is found at this site.  
(Owen, 1993a).

This site is mapped in Beadel (1992a).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:**

**Wildlife:** Assessed as having moderate wildlife habitat quality for marshbirds (Owen, 1993).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/134

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Oturu creek inlet

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 807 882

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

Narrow inlet with vegetated margins. Inlet has an outer band of scattered to dense mangrove scrub and shrublands on both sides. Along the western side oioi sedgelands with some searush sedgelands, marsh ribbonwood scrub, manuka scrub and grey willow forest dominates the area. Along the eastern side oioi and searush sedgelands form a narrow band along the foreshore with manuka scrub and grey willow forest further inland. Native and adventive vegetation such as gorse, mamaku, poplar, pines and blackberry is found along the terrestrial margins of the inlet.

The Australasian bittern, North Island fernbird and banded rail are found at this site.

(Source: Owen, 1993a).

The vegetation of this site is mapped in Beadel (1992a).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are other better quality examples of similar vegetation elsewhere in the ecological district. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

- Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.
- Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/135

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Inlet with Estuarine vegetation.

Name: Mangawhai Bay Inlet

DRAFT

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 775 888

Aerial photo no: 170716

Date Flown: 4.2.93

Landform:

**Habitat Description:**

Inlet with narrow strips of estuarine vegetation along the north and south sides and a more extensive area at its head. The north and south sides are dominated by mixed associations of oioi and searush sedgelands with local areas of marsh ribbonwood scrub, gorse, manuka scrub, grey willow forest, raupo reedland, and *Glyceria maxima* grassland along the margins. At the head of the inlet scattered areas of mangrove scrub and shrubland (0.3m to 1.0m high) are found along the tidal creek. These merge with extensive areas of oioi sedgelands with mixed associations of searush and oioi sedgelands further inland. The shoreline vegetation has local areas of gorse, pampas and raupo reedland associated with pasture grasses.

The banded rail and North Island fernbird are present at this site.

(Source: Owen, 1993a).

The vegetation of this site is mapped in Beadel (1992a).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are better quality examples of similar vegetation elsewhere in the ecological district.

**Wildlife:** Assessed as having moderate habitat quality for marshbirds (Owe, 1993a).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/136

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Te Hopai Island

DRAFT

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 745 935

Aerial photo no: 170731

Date Flown: 4.2.93

Landform:

**Habitat Description:**

Large, low-lying, flat, unmodified island with a diverse mosaic of estuarine vegetation types. Vegetation dominated by mangrove scrub and shrublands (0.2m to 0.5m high) and *Sarcocornia quinqueflora* herbfields. These associations grow throughout the southern half and the top end of the island except the margins. Scattered, mixed associations of searush and oioi sedgeland with marsh ribbonwood scrubland are found along the southern and eastern margins. A very dense mixed oioi sedgeland, marsh ribbonwood scrubland and manuka scrubland mosaic, with associated *Olearia solandri* scrub, toitoi grassland and flaxland as emergents, dominates the northern and western parts of the island. *Coprosma propinqua* and marsh ribbonwood scrublands, with ngaio as an emergent (2m high), are located along the eastern margins.

The banded rail and North Island fernbird are present at this site.

(Source: Owen, 1993a).

This site is mapped and described in Beadel (1992a) and described in Beadel (1993).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as exceptional botanical conservation value. Probably the least modified substantial area of estuarine vegetation in Tauranga Harbour and contains a high quality, diverse, representative vegetation sequence. Several of the vegetation types occur nowhere else in the harbour (Beadel 1992a). (Source; Beadel 1993).

**Wildlife:** Assessed as having outstanding wildlife habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

- Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.
- Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.
- Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/137

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Emeny Road

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 789 875

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

Small bay containing estuarine vegetation on the south-western side of Te Puna Estuary. Seaward part of area comprises of a mangrove shrubland area (0.3m to 0.5m high). On the inland side of this is a band of searush sedgelands extending along the shore. The immediate shore is dominated by pasturelands. A pa site is located on an adjoining hill top.  
(Source: Owen, 1993a).

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:**

**Wildlife:** Assessed as having moderate habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/139

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Waipapa Estuary 2

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 765 920

Aerial photo no: 170731

Date Flown: 4.2.93

DRAFT

Landform:

**Habitat Description:**

This estuarine margin strip is part of 3 larger wildlife habitat sites constituting a large good quality example of mangrove stands and saltmarsh. (Beadel, 1992a).

These larger sites are mapped and described in Beadel (1992a) and described in Beadel (1993) and Owen (1993a).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value. A relatively large, good quality example of mangrove stands and saltmarsh. Mangrove scrub and shrublands form the cover over much of the site. (Beadel, 1993).

**Wildlife:** There are three rankings given to the different habitat sites. See Owen (1993a) for a description and ranking of each site.

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

- Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.
- Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.
- Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/140

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Oikimoke Road

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 833 874

Aerial photo no: 170718

Date Flown:

Landform:

**Habitat Description:**

A large area of estuarine vegetation to the east of Oikimoke Road, near the mouth of the Wairoa River. Apart from scattered mangrove scrub on the seaward side, the bulk of the area comprises mixed searush and oioi sedgelands associations with very localised remuremu herbfields. On the stopbanks and inland margins of the wetland are mixed associations of marsh ribbonwood scrub, *Olearia solandri* scrub, pampas, gorse, manuka scrub and flaxland. Pastureland and some orchard shelterbelts are found along the inland side of the wetland.

The Australasian bittern, banded rail and North Island fernbird are found at this site.

(Source: Owen, 1993a).

The vegetation of this site is mapped in Beadel (1992a).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are better quality examples of similar vegetation elsewhere in Tauranga Harbour.

**Wildlife:** Assessed as having high wildlife habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/141

Date of completion: 1.12.93

Category: A -total site

Ecological District: TGA

Habitat Type: Estuarine wetland

WBOPDC Map: D5

Name: Morton Road

Area:

Protection Status: Unprotected

DRAFT

Map Series: NZMS260

Grid Reference: 734 945

Aerial photo no:

Date Flown:

Landform: Estuarine margin

**Habitat Description:**

The Australasian bittern banded rail and North Island fernbird are found at this site.

The vegetation of this site is mapped in Beadel (1992a).

Most of the site is below MHWS and so is under the jurisdiction of the Bay of Plenty Regional Coastal Environment Plan. The total site consists of a mixed association of mangrove shrubland; oioi and searush sedgelands; with manuka-*Plagianthus* and pines/manuka-pampas further inland. (V. Froude, pers obs. 1994).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are better quality examples of similar vegetation elsewhere around Tauranga Harbour.

**Wildlife:**

**Other:** Natural character of estuary margins.

**THREATS AND REMARKS:**

Site of illegal reclamation (S.M. Beadel, pers comm), and see (Owen, 1993).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

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**LANDOWNER VISITS:**

1. Brian Alexander, 159/160 Morton Road Katikati. Legal description: to come. Visited by V. Froude (DOC) on 19.8.94.

Outcome of visit:  
Modified site boundaries.

**Agreements between Landowner and WBOPDC:**

1. Alexander: The site is the estuarine fringe. Pines are not part of the site and so can be removed in a way that does not damage the native vegetation on the site.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/142

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Prestidges Road

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 729 939

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

A grossly modified area of estuarine vegetation lying between Prestidges Road and Bardfield's Piggery along the northern side of Wainui River. Site comprises several large areas of mangrove shrubland and scrub (0.2m to 0.8m high) as 'islands' of vegetation along the seaward side of the piggery embankment and to the north. The northern shoreline (inside the mangrove areas) has modified oioi and searush sedgelands with scattered grey willow forest and rank grasses on the immediate shoreline.

The banded rail and North Island fernbird are present at this site.

(Source: Owen 1993a).

The vegetation of this site is mapped in Beadel (1992a).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value. This site is part of a large site which is a relatively good quality example of the above wetland vegetation types, which are characteristic of Tauranga Harbour. (Beadel, 1993).

**Wildlife:** Assessed as having moderate habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/143

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Mangawhai Bay

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 781 902

Aerial photo no: 170716

Date Flown:

Landform:

**Habitat Description:**

An area of estuarine vegetation on the western side of Mangawhai Bay. Vegetation in the outer bay is scattered to dense mangrove scrub (0.2m to 1.0m high). Inland of this are areas of taller mangrove shrublands (2.0m high). Along the foreshore are searush sedgelands with mixed searush and oioi sedgelands interspersed with mangrove shrublands. There are narrow strips of scattered shoreline vegetation dominated by marsh ribbonwood scrub, *Cyperus ustulatus* and scattered manuka scrub with gorse, blackberry, grey willow forest, tree tobacco, and hawthorn on higher ground along with pasture grasses.

The banded rail is present at this site.

(Source: Owen, 1993a).

The vegetation of this site is mapped in Beadel (1992a).

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:**

**Wildlife:** Assessed as having moderate habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/144

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine and Sandspit vegetation

Name: Ngakautuakina Road

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 763 925

Aerial photo no: 170731

Date Flown:

Landform:

**Habitat Description:**

Small enclosed wetland directly south of Nga Kautuakina Point. Narrow sandy spit protects estuarine vegetation from harbour. Sandspit has oioi, searush, *Isolepis nodosa* and *Carex pumila* sedgeland and an area of estuarine herbfield. At the base of the spit marsh ribbonwood scrub, searush sedgeland, gorse, pines and pampas prevail. Scattered stands of mangroves are commonly found on the seaward side and inland side of spit especially along the outer edge of the foreshore. Saltmarsh which comprises searush and oioi sedgeland along with marsh ribbonwood scrub, pampas, gorse, wattle and she-oaks are found on the inland side.

The North Island fernbird is found at this site.

(Source: Owen, 1993a).

The vegetation of this site is mapped in Beadel (1992a).

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:**

**Wildlife:** Assessed as having moderate wildlife habitat value for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

See (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/145

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Te Pungaatai Inlet

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 761 920

Aerial photo no: 170731

Date Flown:

DRAFT

Landform:

**Habitat Description:**

Small tidal inlet on eastern side of Pahoia Road peninsula. Estuarine vegetation comprises extensive areas of mangrove scrub and shrublands (0.5m to 1.0m high) interspersed with a mixed association of oioi sedgelands with some searush sedgelands. A narrow margin of marsh ribbonwood scrub, gorse, blackberry, privet, grey willow, wattle, *Festuca arundinacea* and other rank grasses are present along the inland edges. Remuremu herbfield meadows are also present.

The banded rail and North Island fernbird are present at this site.

(Source: Owen, 1993a).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are better quality examples of similar vegetation elsewhere around Tauranga Harbour. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having high habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

- Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.
- Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/146

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Omokoroa

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 783 890

Aerial photo no: 170716

Date Flown:

Landform:

**Habitat Description:**

Two small adjoining inlets on south side of Mangawhai Bay near Omokoroa Station. Scattered mangrove scrub (<0.5m high) is found in both inlets. In the eastern inlet *Samolus repens* herbfield and *Stipa stipoides* grassland dominates a small sandspit. The inlet here is dominated by searush sedgelands with local areas of oioi sedgelands and marsh ribbonwood scrub. The western inlet in contrast is dominated by oioi sedgelands with limited searush sedgelands and scattered marsh ribbonwood scrub. Adventive plants, rank grasslands and shelter belts (pines) are present along the inland edge of both inlets.

The banded rail is found at this site.

(Source: Owen, 1993a)

The vegetation of this site is mapped in Beadel (1992a).

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are better quality examples of similar vegetation elsewhere around Tauranga Harbour. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

- Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.
- Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U14/147  
**Category:** B  
**Habitat Type:** Estuarine wetland

**Date of completion:** 1.12.93  
**Ecological District:** TGA

WBOPDC Map: E7, Te Puna (1:5000)

**Name:** Newnham Road  
**Area:**  
**Protection Status:** Unprotected

DRAFT

**Map Series:** NZMS260  
**Grid Reference:** 796 876  
**Aerial photo no:** 170716

**Date Flown:**

**Landform:** Estuary margins

**Habitat Description:**

Small bay in Te Puna Estuary. Wetland vegetation chiefly mangrove scrub and shrubland (0.3m to 2.0m high) with a narrow riparian strip of oioi and searush sedgelands with isolated marsh ribbonwood scrub. On the inland side (at eastern end) a manuka scrubland (0.5m to 3.0m high) borders the wetland edge. Around the margins can be found a mixed association of native and exotic vegetation. Species present include gorse, mamaku, *Coprosma robusta*, grey willow forest and woolly nightshade. Inland margins surrounded by horticulture shelter belts.

The Australasian bittern, banded rail and North Island fernbird are present at this site. (Owen, 1993a).

The vegetation is mapped in Beadel (1992a).

Part of this site is below Mean High Water Springs and so comes within the jurisdiction of the Bay of Plenty Regional Council's Regional Coastal Environment Plan.

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:**

**Wildlife:** Assessed as having moderate wildlife habitat value for marshbirds (Owen, 1993a).

**Other:** Natural character/landscape values.

**THREATS AND REMARKS:**

See (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

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**LANDOWNER VISITS:**

1. Barry Knight, 142 Newnham Road, Te Puna. Legal description: DPS 66451  
Visited by V. Froude (DOC), K. Owen (DOC) and Bruce Hawkins (WBOPDC) on 3.8.94.

Outcome: Amended site description and boundaries.

**Agreements between WBOPDC and Landowners:**

1. B. Knight: The inland boundary of the site is the upland edge of the manuka stand. The site also includes the manuka stand in the main gully.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/148

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Motutangaroa Isle Foreshore

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 843 930

Aerial photo no: 170728

Date Flown:

Landform:

**Habitat Description:**

Estuarine vegetation along the middle section of the western side of Rangiwaea Island. Vegetation forms a relatively narrow band along the foreshore dominated by extensive areas of searush sedgelands with scattered but local areas of oioi sedgelands and marsh ribbonwood scrubland. There is a patchy distribution of estuarine herbfield vegetation, chiefly *Sarcocornia quinqueflora*, remuremu and *Samolus repens* within the area. At the southern end a band of native and exotic vegetation forms a buffer to the wetland.

The North Island fernbird is found at this site.

(Source: Owen 1993a).

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are other better quality examples of similar vegetation elsewhere in the Tauranga Harbour. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/149

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Aongatete Estuary

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 715 955

Aerial photo no: 170745

Date Flown:

Landform:

**Habitat Description:**

A narrow to wide band (between 40 and 200 metres wide) of estuarine vegetation along the northern side of the river mouth. Vegetation is dominated by dense and scattered mangrove shrublands interspersed with oioi sedgelands. Further inshore oioi and searush sedgelands abound. Along the stopbank margin a mixed association of oioi and searush sedgelands, marsh ribbonwood shrubland, *Olearia solandri* scrub, flaxland, pampas and gorse is found in a narrow 40 metre wide band.

The Australasian bittern, banded rail and North Island fernbird are found at this site.

(Source: Owen, 1993a).

The vegetation of this site is mapped and described in Beadel (1992) and described in Beadel (1993).

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as exceptional botanical value. Contains large areas of representative mangrove stands which are diverse in stature and density. These stands are contiguous with saltmarsh of high quality characteristic of Tauranga Harbour (Beadel, 1992a). (Source: Beadel, 1993).

**Wildlife:** Assessed as having outstanding habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES**

- Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.
- Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.
- Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/150

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Turner Road

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 741 920

Aerial photo no: 170732

Date Flown:

Landform:

**Habitat Description:**

A narrow coastal strip of estuarine vegetation with isolated stands of scattered mangrove shrublands and scrub. A narrow band of oioi and searush sedgelands merging into a mixed association of shoreline vegetation comprising raupo reedland, *Olearia solandri* scrub, manuka scrub, grey willow forest, flaxland, pohuepohue, blackberry and rank grasses is found further inland.

The banded rail and North Island fernbird are found at this site.

(Source: Owen, 1993a).

The vegetation of this site is mapped in Beadel (1992a).

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:**

**Wildlife:** Assessed as having moderate wildlife habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

- Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.
- Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/151

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Walker Road East.

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 705 980

Aerial photo no: 170846

Date Flown:

Landform:

**Habitat Description:**

A wide band of estuarine vegetation on each side of Waitekohe Stream mouth. Seaward side (but also part of inland side) dominated by dense (and some scattered) mangrove scrub and shrublands (0.5m -1m high). Further inshore extensive searush sedgelands dominate. Oioi sedgelands interspersed with searush sedgelands (but less frequent) are found further inland again. Marsh ribbonwood scrub is commonly found along the inland side with a mixed association of *Olearia solandri* scrub, flaxland, toetoe, merging into grey willow forest, gorse and wattle on drier ground.

The banded rail and North Island fernbird are found at this site.

(Source: (Owen, 1993a).

The vegetation of this site is mapped in Beadel (1992a).

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are other better quality examples of similar vegetation elsewhere in the ecological district.

**Wildlife:** Assessed as having high habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Beadel, S.M., 1992a: Tauranga Harbour Wetland vegetation. Report prepared for Bay of Plenty Regional Council, Whakatane. 82pp plus maps.

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/152

Date of completion: 1.12.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine wetland

Name: Puketutu Point

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 705 990

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

Relatively narrow strip of estuarine vegetation around edge of harbour with small sandspit on seaward side. Vegetation comprises estuarine herbfields of shore pimpernel, remuremu and goosefoot along with searush and oioi sedgelands, occasional mangroves, marsh ribbonwood shrub, *Baumea articulata* reedlands merging into grey willow forest, blackberry and associated adventive plants. Orchard shelterbelts are found on inland side.

The North Island fernbird is present at this site.

(Source: Owen, 1993a).

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:**

**Wildlife:** Assessed as having moderate habitat quality for marshbirds (Owen, 1993a).

**Other:**

**THREATS AND REMARKS:**

see (Owen, 1993a).

**REFERENCES:**

Owen, K.L., 1993a: Tauranga Harbour Marshbird Habitat Survey, Vol 2, Technical Report Series No.17. Department of Conservation, Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/153

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Forest

Name: Kaituna River Bush 1

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 053 753

Aerial photo no: 170919

Date Flown:

Landform:

Habitat Description:

Kahikatea/pukatea forest with scattered cabbage tree around the margins. (S.M. Beadel, pers comm).

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as very high botanical value. This small site contains the only example of Kahikatea/ pukatea forest remaining in Tauranga ecological district. Kahikatea forest would probably have once been common on the plains in the district. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm).

**Other:**

**THREATS AND REMARKS:**

This site is currently heavily grazed and stock should be excluded from this site. (S.M. Beadel, pers comm).

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U14/154

Date of completion: 1.12.93

Category: A

Ecological District: TGA

Habitat Type: Forest

Name: Kaituna River Bush 2

Area:

Protection Status: Unprotected

DRAFT

Map Series: NZMS260

Grid Reference: 054 762

Aerial photo no: 170919

Date Flown:

Landform:

Habitat Description:

Kahikatea forest (S.M. Beadel, pers comm).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value. This site contains a very small example of kahikatea forest. It is one of only two examples of Kahikatea dominant forest remaining in the Tauranga ecological district. Kahikatea forest would once have been common on the plains in the district. (S.M. Beadel, pers comm).

**Wildlife:**

**Other:**

**THREATS AND REMARKS:**

This site is currently heavily grazed. Stock should be excluded from this site. (S.M. Beadel, pers comm).

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: V14/1

Date of completion: 25.11.93

Category: A

Ecological District: TGA

Habitat Type:

DRAFT

Name: Maketu Sandspit

Area:

Protection Status: Western Bay of Plenty District Council  
Recreation Reserve.

Map Series: NZMS260

Grid Reference: 130 770

Aerial photo no: 170921

Date Flown: 24.3.93

Landform: Sandspit

Habitat Description:

Breeding place for the NZ dotterel. (Owen, pers comm).

Spinifex sandfield on the foredune on top of foredune and behind  
spinifex grassland *Isolepis nodosa*/*Muehlenbeckia complexa*  
sedge-vineland with local spinifex sandfield behind foredune  
(S.M. Beadel, pers comm).

**CONSERVATION VALUES AND JUSTIFICATIONS:**

**Botanical:** Identified as moderate botanical conservation value by Beadel (pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat value as a breeding site for the variable oystercatcher and native lizards (K.L. Owen, pers comm).

**Other:**

**THREATS AND REMARKS:**

Pines present on the spit are soon to be removed.  
Kermadec pohutukawa on the spit should also be removed (S.M. Beadel, pers comm).

**REFERENCES:**

Owen, K.L. 1991. A Preliminary Directory of Bay of Plenty Wetlands of International Importance. Department of Conservation, Bay of Plenty.

Forbes, S. & Bridgewater, G. 1990. Coastal Resource Inventory, First Order Survey. Bay of Plenty Conservancy.



**CONSERVATION VALUES AND JUSTIFICATIONS:**

**Botanical:** The indigenous vegetation is identified as moderate botanical conservation value by Beadel (pers comm).

**Wildlife:** The whole Maketu estuary is assessed as having moderate to high wildlife habitat value in Rasch (1989) for the diversity of bird species using the estuary. The estuary along with Waihi estuary and the Kaituna river mouth meet the Ramsar criteria as a wetland of International Importance (Owen, 1991).

**Other:** The Maketu Estuary and its surrounds are of immense cultural significance to Te Arawa maori as the traditional landing site for the Te Arawa canoe approximately 600 years ago. Kaimoana gathering is of extreme importance to the local Maori today. (Owen, 1991).

**THREATS AND REMARKS:**

For information on disturbances , threats and conservation recommendations see Forbes and Bridgewater (1990) and Owen (1991) .

**REFERENCES:**

- Forbes, S. & Bridgewater, G. 1990. Coastal Resource Inventory, First Order Survey. Bay of Plenty Conservancy.
- Owen, K.L. 1991. A Preliminary Directory of Bay of Plenty Wetlands of International Importance. Unpublished report, Department of Conservation, Bay of Plenty.

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**LANDOWNER VISITS:**

1. Dennis Armstrong, 148 Kaituna Road, Maketu. Sections 2 and 19, Te Tumu Survey District. Visited by K. Owen (DOC) and 11.8.94.

Outcome of visit:

Deletion of land below MHWS (seaward of stopbank as shown on map G13. This area is outside District Plan jurisdiction and is covered by the EBOP Environmental Coastal Plan.

## SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

## WESTERN BAY OF PLENTY

Site no: V14/3

Date of completion: 25.11.93

Category: A

Ecological District: TGA

Habitat Type: Fresh water wetlands

DRAFT

Name: Arawa Wetlands

Area:

Protection Status:

Map Series: NZMS260

Grid Reference: 137 759

Aerial photo no:

Date Flown:

Landform:

Habitat Description:

Mapped and described in Beadel (1989).

Mainly indigenous species constituting the following vegetation types;

(i) *Baumea juncea*-flax-*Coprosma propinqua* subsp.*propinqua* sedgeland, and manuka - flax shrubland. Other species present include *Baumea articulata*, *Isachne globosa*, *Coprosma tenuicaulis*, *Blechnum minus*, *Cyclosorus interruptus*, *Thelypteris confluens* and *Baumea (rubiginosa)*.

(ii) Willow forest.....

(iii) Cabbage tree/willow forest

(iv) Bachelors button- *Plantago coronopus* - *Selliera radicans* - *Isolepis cernua* - arrow grass herbfield and pasture.

see Beadel (1989).

**CONSERVATION VALUES AND JUSTIFICATIONS:**

**Botanical:** Identified as very high botanical conservation value in Beadel (1993). Presence of the nationally rare *Cyclosorus interruptus* and *Thelypteris confluens* ferns.

**Wildlife:** This site requires a site inspection, however is preliminarily ranked as having moderate value for wildlife (K.L. Owen, pers comm).

**Other:**

**THREATS AND REMARKS:****REFERENCES:**

Beadel, S.M., 1989: Botanical Conservation Values of the Arawa Wetlands, Bay of Plenty. Report prepared for Department of Conservation, Rotorua.

Owen, K.L. 1991. A Preliminary Directory of Bay of Plenty Wetlands of International Importance. Department of Conservation, Bay of Plenty.

## SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

## WESTERN BAY OF PLENTY

Site no: V14/4

Date of completion: 25.11.93

Category: A

Ecological District: TGA

Habitat Type: Forest

**DRAFT**

Name: Maketu Road Ti Kouka Stands

Area: 0.5ha

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 124 754

Aerial photo no: 170921

Date Flown: 24.3.93

Landform:

Habitat Description:

Ti kouka forest (two discrete areas), (S.M. Beadel, pers obs)...

**CONSERVATION VALUES AND JUSTIFICATIONS:**

**Botanical:** Identified as moderate botanical conservation value. A small example of indigenous vegetation where there are larger better quality examples of similar vegetation elsewhere in the district, eg. Matakana Island, Athenree Category two area, and Blue Gum Bay (Beadel, pers comm).

**Wildlife:** Assessed as having potential wildlife habitat value (K.L. Owen, pers comm).

**Other:**

**THREATS AND REMARKS:**

Bulldozing by owner. and grazing.

**REFERENCES:**

Alan Jones and Bob Mankelow, Tauranga Field Office, Department of Conservation.

## SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

## WESTERN BAY OF PLENTY

Site no: V14/5

Date of completion: 25.11.93

Category: A

Ecological District: TGA

Habitat Type: Freshwater wetland.

Name: Waewaetutuki and surrounds

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 156 744

Aerial photo no: 170992

Date Flown: 24.3.93

Landform:

**Habitat Description:**

This site is one of the last substantial examples of freshwater wetland vegetation on the Pongakawa Plains. The saline vegetation together with Waihi Wildlife Management Reserve is representative of the remaining saltmarsh in Waihi Estuary. Another significant feature is the contiguous sequence of freshwater and saline wetland vegetation. (Beadel, 1993).

The following vegetation types are present in this wetland:

Cabbage tree/grey willow- (*Coprosma propinqua* subsp. *propinqua*)/*Lemna minor*-sedges-*Blechnum minus* forest.

(Cabbage tree)/*Muehlenbeckia complexa*/harakeke-*Coprosma propinqua* subsp. *propinqua*-*Baumea articulata*-*B. sp.*

Saline wetland vegetation

Mosaic of saline and freshwater wetland vegetation.

Taken from Beadel (1993).

The southern part of this site is grey willow forest important for wildlife.

Wildlife of the whole site includes fernbirds, NZ dotterel and the banded dotterel

DRAFT

**CONSERVATION VALUES AND JUSTIFICATIONS:**

**Botanical:** This site is of high botanical conservation value for the above reasons in the habitat description. This site may be re-evaluated at a later time when further field inspections of the site are made (S.M. Beadel, pers comm) and also (See Beadel 1993).

**Wildlife:** Important site for wildlife due to presence of above species.

**Other:**

Water quality values contribute to its inclusion in the proposed estuarine protection zone, Beadel (1989).

**THREATS AND REMARKS:****REFERENCES:**

Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.

Beadel, S.M. 1989. Notes on the Vegetation and Flora of Tauranga Harbours and Little Waihi Estuary, Bay of Plenty Conservancy. Report prepared for the Department of Conservation, Rotorua. 67 pp.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no: V14/6

Date of completion: 25.11.93

Category: B

Ecological District: TGA

Habitat Type: Forest and Scrub

DRAFT

Name: Pukehina Bush

Area: 17ha

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 215 714

Aerial photo no: 170682

Date Flown: 4.2.93

Landform:

Habitat Description:

Willow forest and scrub, cabbage tree/ willow forest with a small area of harakeke flaxland (S.M. Beadel, pers obs).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value by Beadel (pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm).

**Other:**

THREATS AND REMARKS:

## SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

## WESTERN BAY OF PLENTY

Site no: V14/7

Date of completion: 25.11.93

Category: B

Ecological District: TGA

Habitat Type:

DRAFT

Name: Wharerei Road Wetland

Area:

Protection Status: Partially protected as a wildlife reserve.

Map Series: NZMS260

Grid Reference: 164 746

Aerial photo no: 170992

Date Flown: 24.3.93

Landform:

Habitat Description:

Freshwater and saline wetland species present (S.M. Beadel, pers obs).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm).

**Other:**

THREATS AND REMARKS:

REFERENCES:

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no: V14/8

Date of completion: 25.11.93

Category: B

Ecological District: TGA

Habitat Type: treeland and shrubland

Name: Pukehina 2

Area: 5ha

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 223 721

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

A relatively good example of indigenous vegetation on volcanic soft coast, contiguous with and complementary to Pukehina 1 (ranked as being of district significance) (Beadel, 1993).

Vegetation types include:

- Taupata/*Muehlenbeckia complexa* vineland
- Isolepis nodosa*/*Muehlenbeckia complexa* vineland
- Muehlenbeckia complexa* vineland
- Taupata/*Poa anceps* subsp. *anceps*-gorse shrubland .

(Source: Beadel, 1993).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate conservation value by Beadel (1993) for reasons in above habitat description.

**Wildlife:** Assessed as having potential wildlife habitat value (K.L. Owen, pers comm).

**Other:**

THREATS AND REMARKS:

REFERENCES:

Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no: V14/9

Date of completion: 25..1.93

Category: A

Ecological District: TGA

Habitat Type: Shrubland

Name: Pukehina 1

Area: 1ha

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 216 726

Aerial photo no:

Date Flown:

Landform:

Habitat Description:

Taupata/*Muehlenbeckia complexa*-*Isolepis nodosa* shrubland and  
Pohutukawa treeland (Beadel (1993)).

**CONSERVATION VALUES AND JUSTIFICATIONS:**

**Botanical:** Identified as high botanical conservation value by Beadel (1993). This is a representative example of a landform and vegetation that is characteristic of the coast between Pukehina and Otamarakau. The site selected is the best remaining example of this feature in Tauranga ecological district (Beadel, 1993).

**Wildlife:** Assessed as having potential wildlife habitat value (K.L.Owen, pers comm).

**Other:**

**THREATS AND REMARKS:****REFERENCES:**

Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no: V14/10

Date of completion: 25.11.93

Category: A

Ecological District: TGA

Habitat Type:

DRAFT

Name: Maketu Sandspit 2

Area: 4ha

Protection Status: Partially protected as crown land recreation reserve.

Map Series: NZMS260

Grid Reference: 130 775

Aerial photo no: 170921

Date Flown: 24.3.93

Landform: Sandspit

**Habitat Description:**

A sandspit with native and adventive duneland vegetation. The sandspit is an important site for coastal breeding shorebirds and gulls (Owen, 1991).

Physically it protects the Maketu estuary from the sea. Spinifex sandfield on dune and beach sands (S.M. Beadel pers obs).

This site contains a small population (five plants) of *Austrofestuca littoralis*, a species classed as rare (Cameron et al. 1993). This species was once relatively common in sand dune communities in New Zealand; however on 13 locations are now known to occur in the North Island (Partridge 1992; Beadel 1990c & 1992 d). (Source: Beadel, 1993).

**CONSERVATION VALUES AND JUSTIFICATIONS:**

**Botanical:** Identified as high botanical conservation value in Beadel (1993) for reasons given in above habitat description.

**Wildlife:** This spit is regionally significant for the NZ dotterel and possibly the variable oyster catcher. The spit is also used for a wader roost during the high tide. Due to erosion processes there are now two spurs of the maketu spit, one on either side of the harbour mouth. Both should be protected.

**Other:**

**THREATS AND REMARKS:****REFERENCES:**

Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.

Owen, K.L. 1991. A Preliminary Directory of Bay of Plenty Wetlands of International Importance. Department of Conservation, Bay of Plenty.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no: V14/11

Date of completion: 24.3.93

Category: B

Ecological District: TGA

Habitat Type: Forest and scrub

Name: Little Waihi Bush

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 167 766

Aerial photo no: 170922

Date Flown: 24.3.93

Landform:

Habitat Description:

Secondary forest and scrub (S.M. Beadel, pers obs), some pohutukawa.

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value by Beadel (pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no: V14/12

Date of completion: 25.11.93

Category: B

Ecological District: TGA

Habitat Type: Treeland and shrubland

Name: Okurei Pt

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 154 780

Aerial photo no: 170922

Date Flown: 24.3.93

Landform:

Habitat Description:

Indigenous vegetation.

-Small examples of spinifex sandfield along the beach.

-Small examples of pohutukawa forest and treeland along the cliff faces

-local taupata, ngaio, *Isolepis nodosa*, *Lobelia anceps*, New Zealand iceplant

-Adventive species dominant along parts of this coastline.  
(Beadel, pers obs).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value by Beadel (pers comm).

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm).

**Other:**

THREATS AND REMARKS:

REFERENCES:

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no: V14/13

Date of completion: 25.11.93

Category: B

Ecological District: TGA

Habitat Type: Wetlands

Name: Arawa wetlands surrounds

DRAFT

Area:

Protection Status:

Map Series: NZMS260

Grid Reference: 136 763

Aerial photo no:

Date Flown:

Landform:

Habitat Description:

For a preliminary vegetation map see Beadel (1989).

A mixture of adventive and indigenous species with the following vegetation types documented on the eastern side of the site:

-*Baumea articulata*/Japanese honeysuckle- blackberry - Brome sedge - shrubland, *Baumea articulata*/brome grass sedgeland.  
-Pampas grass/raupo - sea rush - *Baumea* (*rubignosa*?) - exotic grass and herbs tussock-treeland.....*Baumea articulata*/exotic grasses and herbs herb-grassland.

-Willow forest.....

(Source: Beadel, 1989).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate an low botanical conservation value in Beadel (1989).

**Wildlife:** Assessed as having potential wildlife habitat value (K.L. Owen, pers comm).

**Other:**

THREATS AND REMARKS:

REFERENCES:

Beadel, S.M., 1989: Botanical Conservation Values of the Arawa Wetlands, Bay of Plenty. Report prepared for Department of Conservation, Rotorua.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no: V14/14

Date of completion: 22.11.93

Category: A

Ecological District: Tga

Habitat Type: Saltmarsh

Name: Little Waihi Estuary

DRAFT

Area:

Protection Status: Combination of DOC, Private and Maori lands

Map Series: NZMS260

Grid Reference: 165 755

Aerial photo no: 170923

Date Flown: 24.3.93

Landform: Estuary with Islands

**Habitat Description:**

The larger Islands contain brush, wattle forest/ scrub and manuka/scrub with a fringe of sedge and rushland dominated by searush in association with oioi, *Baumea juncea* and local marsh ribbonwood, taupata, karo and harakeke.

There is a fringe of sedge and tussockland dominated by searush in association with oioi. There is local *Stipa stipoides*, *Sarcocornia quinque* flora. There is also scattered pampas. (Owen, 1991).

Part also described in Beadel (in press) and mapped in Beadel (1991a).

Two regionally uncommon plants *Mimulus repens* and *Bolboschoenus caldwellii* are found at this site (Beadel, in press), along with the threatened Banded rail, New Zealand dotterel, Australasian bittern, Caspian tern and regionally threatened North Island fernbird. (Rasch, 1989).

**CONSERVATION VALUES AND JUSTIFICATIONS:**

**Botanical:** The whole estuary has good examples of indigenous vegetation typical of the Tauranga ecological district (Beadel, 1989). It is identified as moderate botanical conservation value. There are better examples of similar vegetation elsewhere in the district.

**Wildlife:** High habitat value as assessed in 1982 by the F.S.U.. Large numbers of wading species present as well as passerines and waterfowl (Rasch, 1989).

**THREATS AND REMARKS:**

The estuary is vulnerable to siltation and water pollution from farm drainage channels and also from septic tank leachate. Stopbanking around the upper margins of the estuary has significantly reduced the tidal prism (Forbes & Bridgewater, 1990).

**REFERENCES:**

- Beadel, S.M. 1991. Vegetation and flora of Waihi Wildlife Management Reserve. Report prepared for the Department of Conservation, Rotorua. 11 pp plus appendices.
- Beadel, S.M. in press. Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council,
- Beadel, S.M. 1989. Notes on the Vegetation and Flora of Tauranga Harbours and Little Waihi Estuary, Bay of Plenty Conservancy. Report prepared for the Department of Conservation, Rotorua. 67 pp.
- Beadel, S.M. & Wallace, S. 1989. The vegetation and flora of Waihi Estuary. Rotorua Botanical Society Newsletter 18: 14 - 20. SSSWBOP file.
- Beadel, S.M, Personal communication, see attached notes held within
- Forbes, S. & Bridgewater, G. 1990. Coastal Resource Inventory, First Order Survey. Bay of Plenty Conservancy.
- Owen, K.L. 1991. A Preliminary Directory of Bay of Plenty Wetlands of International Importance. Department of Conservation.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: V14/15

Date of completion: 25.11.93

Category: B

Ecological District: TGA

Habitat Type: Sedgeland, sandfield and vineland.

Name: Pukehina Beach Road

DRAFT

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 212 729

Aerial photo no: 170683

Date Flown: 4.2.93

Landform:

Habitat Description:

Carex pumila sedgeland, spinifex sandfield (with occasional pingao, marram locally common) and Muehlenbeckia complexa vineland.

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are other better quality examples of similar vegetation elsewhere in the district (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having potential wildlife habitat value (K.L. Owen, pers comm).

**Other:**

THREATS AND REMARKS:

REFERENCES:

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** There is insufficient information available to accurately rank this site. All of the larger areas, sites containing southern stands of kauri and sites contiguous with Kaimai-Mamaku State Forest Park are either high, very high or exceptional ranking. Areas which don't fall into the above categories and which are relatively small examples of forest which have been logged are ranked as moderate.

**Wildlife:** Assessed as having high wildlife habitat value in Rasch (1989) prior to development. This value is unaltered despite development due to presence of blue duck.

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/15

**Date of completion:** 25.11.93

**Category:** A

**Ecological District:** OTW

**Habitat Type:** Forest

**Name:** Remains of Ngamanawa Block

**Area:**

**Protection Status:** Partially protected under agreement with Tasman and the Crown. Mangapapa Kauri Reserve located in this site.

**Map Series:** NZMS260

**Grid Reference:** 770 660

**Aerial photo no:** 179657, 658, 643, 646, 644, 645 **Date Flown:** all in 1993

**Landform:** Mostly riverine gorges

**Habitat Description:**

Cutover rimu-tawa forest with some kauri stands (Rasch (1989)).

This site was substantially developed in 1989 leaving only the riverine gullies clad in native vegetation. The Mangapapa Kauri Reserve is the southernmost limit for kauri occurring. In the past this site was a known habitat for kokako and blue duck have been found in the Mangorewa stream.

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value. Site comprises a good quality example of the vegetation of the Otanewainuku ecological district. (If there are any heavily logged areas in this site they would not rate a high ranking.)

**Wildlife:** Assessed as having outstanding wildlife habitat values in Rasch (1989) for presence of threatened species and importance as a wildlife corridor.

**Other:** Aesthetic

**THREATS AND REMARKS:**

**REFERENCES:**

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/14

Date of completion: 25.11.93

Category: A

Ecological District: OTW & TGA

Habitat Type: Forest

Name: Upper Mangorewa Gorge Bush

Area: 200

Protection Status: Unprotected. NZFP 99yr lease to Pine Milling Co.

Map Series: NZMS260

Grid Reference: 045 645

Aerial photo no: 170670,945,633

Date Flown: 4.2.93,11.4.93

Landform: Riverine gorge

**Habitat Description:**

Unmodified podocarp-tawa-kamahi-beech forest in riparian strip

Completely developed on all sides except for Mangorewa gorge and major tributaries and the token strip along Te Matai Road. Wildlife includes the common native bird species, the threatened kiwi and the threatened blue duck. Whole site is extremely important as a wildlife corridor for kokako, providing access between Mangorewa state forest and Aislabies bush. The whole site is now completely surrounded by pine plantation (FSU, unpub).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value. This site comprises a good quality example of the vegetation of the ecological district.

**Wildlife:** Assessed as having outstanding wildlife habitat values in Rasch (1989), for presence of blue duck, kokako and kiwi and quality of indigenous vegetation.

**Other:** Water and Soil Conservation values. Aesthetic/landscape. Stock water supply (Taumatapua Stream) when stream flowing in summer.

**THREATS AND REMARKS:**

Possum damage and goats present from time to time (K.L. Owen, pers comm. 1994).

**REFERENCES:**

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

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**LANDOWNER VISITS:**

1. Colin Watchorn, 1982 Te Matai Road, Te Puke. Sections 14 and 16, Block 16, and others. Visited by K. Owen (DOC) on 11.8.94).

Outcome of visit:

No agreement reached as view offered over the inclusion of all the easier country (indigenous forest), about 30% of site. Landowner would prefer easier country to be deleted from the schedule and the rest of the area of site downgraded to a category B status.

2. Murray Jenson. Visited by V. Froude (DOC) and B. Hawkins (WBOPDC) on 12.8.94.

Outcome of visit: Amended site description.

**Agreements between WBOPDC and Landowners:**

General: Planted pines around the top of the gorge are not part of the site.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/13  
**Category:** A  
**Habitat Type:** Forest

**Date of completion:** 25.11.93  
**Ecological District:** OTW

WBOPDC Map: J9, J10

DRAFT

**Name:** Te Rerenga Stream Bush

**Area:**

**Protection Status:** Most now protected under a Queen Elizabeth II National Trust Covenant. Also has a marginal strip status along Taumatapaua Stream and Te Ponga Stream administered by the Department of Conservation.

**Map Series:** NZMS260

**Grid Reference:** 940 612

**Aerial photo no:** 170949

**Date Flown:** 11.4.93

**Landform:** Riverine gorge

**Habitat Description:**

Mostly unmodified podocarp-tawa kamahi forest in a gorge (Rasch, 1989). Beech and manuka is common along the margins (K.L. Owen pers obs. 1994).

Deep precipitous gorge with forest still in original condition, diverse healthy understorey and excellent tree and shrub diversity (FSU, unpub) (K.D. Young, pers obs, 1993).

Wildlife includes NI robin, NI pigeon, NI tit, the endangered kokako and the threatened blue duck and NI brown kiwi (FSU, unpub).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value. This site comprises a good quality example of the vegetation of the ecological district. A higher ranking for this site may be more appropriate and the site should be re-evaluated when further information is available.

**Wildlife:** Assessed as having outstanding wildlife habitat values in Rasch (1989) for presence of threatened and endangered wildlife and high habitat quality.

**Other:**

Scenic value

**THREATS AND REMARKS:**

**REFERENCES:**

Owen, K.L., 1993b: A Survey of North Island Brown Kiwi (*Apteryx Australis*) In the Bay of Plenty Region 1992. Department of Conservation, Bay of Plenty Conservancy.

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/12

Date of completion: 25.11.93

Category: A

Ecological District: OTW

Habitat Type: Forest

DRAFT

Name: Kiwi Stream/ Mangorewa River

Area:

Protection Status:

Map Series: NZMS260

Grid Reference: 965 562

Aerial photo no: 170948

Date Flown: 11.4.93

Landform: Riverine gorge

**Habitat Description:**

Relatively large little modified podocarp-tawa forest.

Good vegetation diversity being the last tract of forest with a coastal element at this altitude. Forest being cleared at edges but less accessible areas untouched (FSU, unpub).

Wildlife includes the endangered Kokako, the threatened blue duck, the threatened kiwi (Owen 1993b), the threatened kaka, the rifleman and the threatened bat (FSU, unpub).

At time of FSU survey (1982) site was browsed by deer, cattle and possums.

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value. This site links two areas of conservation land. Together these areas comprise good quality example of the vegetation of the ecological district. A higher ranking for this site may be more appropriate and the site should be re-evaluated when further information is available.

**Wildlife:** Assessed as having outstanding wildlife habitat values in Rasch (1989), for presence of blue duck, kokako and kiwi and quality of indigenous vegetation.

**Other:**

Very scenic

**THREATS AND REMARKS:**

Part of roadside edge being used as a rubbish dump.

**REFERENCES:**

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/11

Date of completion: 25.11.93

Category: A

Ecological District: OTW

Habitat Type: Forest

DRAFT

Name: Te Rerenga Stream Bush 1

Area:

Protection Status: Crown lease to private

Map Series: NZMS260

Grid Reference: 890 592

Aerial photo no: two tone 5A WBOP

Date Flown: 7.4.92

Landform: Riverine gorge

**Habitat Description:**

Mostly unmodified podocarp-tawa kamahi forest in a gorge (Rasch, 1989).

Deep precipitous gorge with forest still in original condition, diverse healthy understorey and excellent tree and shrub diversity (FSU, unpub) (K.D. Young, pers obs, 1993).

Wildlife includes NI robin, NI pigeon, the endangered kokako and the threatened blue duck and NI brown kiwi (FSU, unpub).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value using Shaw's (in press) rankings. Small good quality example of indigenous vegetation contiguous with larger tract of forest.

**Wildlife:** Assessed as having moderate wildlife habitat value in Rasch (1989) due to its small size and average bird list.

**Other:**

**THREATS AND REMARKS:**

Whole site is fully fenced off.

**REFERENCES:**

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/10

Date of completion: 25.11.93

Category: A

Ecological District: OTW

Habitat Type: Forest

Name: R. Lintons Bush

Area:

Protection Status: Part held in Bay of Plenty Regional Council  
Land improvement Agreement.

Map Series: NZMS260

Grid Reference: 994 607

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

Unmodified rimu-tawa broadleaved forest (Rasch, 1989).  
Good canopy and reasonable understorey although browsed by  
fallow deer (FSU, unpub).

Wildlife includes silvereye, grey warbler, Shining cuckoo,  
kingfisher, NI fantail and bellbird (FSU, unpub).

Kiwi have been reported on this site by owner R. Linton (FSU,  
unpub).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as a mixture of medium and high botanical conservation value using Shaw's (in press) rankings.

The higher value areas include the lower slopes of the main gully and the wetland area and adjoining hill faces in mature forest on the Stone property.

**Wildlife:** Assessed as having moderate to high wildlife values in Rasch (1989). Presence of NI Robins and whiteheads and a good diversity of native birds.

**Other:** Water and soil conservation values; natural character.

**THREATS AND REMARKS:**

**REFERENCES:**

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

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**LANDOWNER VISITS:**

1. Bev and Cedric Stone, 466 Soldiers Road, Tauranga. L.D. Lot 2, DPS 31405; Lot 1 DPS 31405. Visited by V. Froude (DOC) on 5.8.94.

Outcome of visit:  
Revised site description

**Agreements Between WBOPDC and Landowners:**

1. Stone. The pines planted along the top of the side gully can be removed. The gorse area in the side gully on the Stone property can be removed provided that they are felled in a way that minimises any damage to indigenous species.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/9  
**Category:** A  
**Habitat Type:** Forest

**Date of completion:** 25.11.93  
**Ecological District:** OTW

WBOPDC map: G5, H5

**Name:** Stone's Bush

**Area:** 150ha

**Protection Status:**

**Map Series:** NZMS260

**Grid Reference:** 739 700

**Aerial photo no:** 170702 & 170657

**Date Flown:** 4.2.93

DRAFT

**Landform:** Steep sided gorge and side gullies

**Habitat Description:**

The lower slopes of the central reaches of the main gully contain tawa-rewarewa forest - some areas with podocarps (mainly totara and miro). The upper slopes of the main gully are in manuka-mixed broadleaf shrubland with emergent self sown pines.

The side gully on the Stone property contains south facing slopes largely in tawa forest with rimu and rewarewa. At the base of these slopes are a small pond and a manuka-willow-raupo-baumea wetland partly surrounded by pole stands of kahikatea, tanekaha, miro and rimu.

Where the side gully joins the main gully the hillslopes are a mixed treefern-gorse-erica-scattered broadleaf shrubland (V. Froude, pers obs. 1994).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value using Shaw's (in press) rankings. This site is contiguous with a large tract of indigenous vegetation which is a representative example of the natural character of the Otanewainuku ecological district (see Beadel, 1985).

**Wildlife:** Assessed as having outstanding wildlife habitat value by K.D. Young. Contiguous with Otanewainuku Forest with kokako and kiwi present, and of a similar vegetation type of that of Otanewainuku Forest.

**Other:** Soil and water conservation values.

**THREATS AND REMARKS:**

Owner Mr and Mrs McCarroll conservation minded. Site now protected under Environment BOP Land Improvement Agreement, fenced and buffeted on eastern side by new pine plantation.

**REFERENCES:**

Beadel, S.M., 1985: A vegetation survey and an assessment of the biological conservation values of the Ottawa-Otanewainuku Area, Western Bay of Plenty. Department of Lands and Survey, 61 pp.

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**LANDOWNER VISITS:**

1. Mr and Mrs McCarroll, 1442 No 2 Road, Te Puke. Visited by K. Owen (DOC) on 5.8.94.

Outcome of visit:

1. No action needed as boundary is correct.
2. Note - Planted exotic forest on front country is outside of significant natural feature site although is covered by EBOP Land Improvement Agreement.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/8  
**Category:** A  
**Habitat Type:** Forest

**Date of completion:** 25.11.93  
**Ecological District:** OTW

**WBOPDC Map:** H10

**Name:** McCarroll Bush

**Area:**

**Protection Status:** Protected by Environment Bay of Plenty Land Improvement Agreement.

DRAFT

**Map Series:** NZMS260  
**Grid Reference:** 955 660  
**Aerial photo no:** 170666

**Date Flown:** 4.2.93

**Landform:**

**Habitat Description:**

Rimu emergent over tawa forest with kohekohe, tanekaha, totara and rewarewa (C. Somners and K.D.Young, pers obs). Manuka is common around the edges (K.L. Owen, pers obs).

This site is adjacent to or forms part of a kiwi and kokako habitat (see Rasch (1989) ) the Otanewainuku Forest.

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate conservation values using Shaw's (in press) rankings. Substantially modified but still retaining main elements of composition and structure.

**Wildlife:** Assessed as having moderate wildlife habitat quality (K.L. Owen, pers comm. 1994).

**Other:**

**THREATS AND REMARKS:**

This site would recover understorey and canopy if fenced. It is contiguous with a larger tract of forest in the Ottawa-Otanewainuku area.

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/7

Date of completion: 25.11.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Rapararahoe Stream Bush

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 962 695

Aerial photo no: 170692

Date Flown: 4.2.93

Landform:

Habitat Description:

Rimu emergent over tawa-kohekohe forest (K.D. Young, pers obs).

Very open canopy and badly grazed with grass intrusions right throughout site (K.D. Young, pers obs).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value using Shaw's (in press) rankings. Small example of indigenous vegetation. A higher ranking for this site may be appropriate. This site should be re-evaluated when more information is available.

**Wildlife:** Assessed as having potential wildlife habitat value in Rasch (1989).

**Other:**

**THREATS AND REMARKS:**

At time of FSU survey (1982) this site was threatened by development.

**REFERENCES:**

Nicholls, J.L., 1971: Forest service mapping survey of New Zealand Indigenous Forests. Forest Service Mapping Series No 6. Sheet 5, Rotorua, Forest Research Institute.

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/6

**Date of completion:** 25.11.93

**Category:** B

**Ecological District:** OTW

**Habitat Type:** Forest

**Name:** Upper Omanawa Bush

**Area:** 15ha

DRAFT

**Protection Status:** Unprotected

**Map Series:** NZMS260

**Grid Reference:** 805 672

**Aerial photo no:** 170659

**Date Flown:** 4.2.93

**Landform:**

**Habitat Description:**

Rimu and rewarewa emergent over tawa broadleaved forest (Rasch, 1989).

Northern half rimu, tawa and beech, southern half tawa (Nicholls, 1974).

Wildlife includes common species, site is browsed and grazed (FSU, unpub).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate conservation value using Shaw's (in press) rankings. Small example of indigenous vegetation where there are better and larger examples of a similar type elsewhere in the Otanewainuku ecological district.

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm. 1994).

**Other:** Aesthetic

THREATS AND REMARKS:

REFERENCES:

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no: U15/5

Date of completion: 25.11.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Mcphails Road Bush 2

Area: 35ha

Protection Status: Unprotected

DRAFT

Map Series: NZMS260

Grid Reference: 896 685

Aerial photo no: 170664

Date Flown: 4.2.93

Landform:

Habitat Description:

Podocarp emergent over tawa broadleaved forest (K.D. Young, pers obs).

Many large rimu trees emergent, canopy appears quite open and site appears grazed (K.D. Young, pers obs).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value using Shaw's (in press) rankings. Small example of tawa forest where there are larger and better quality examples elsewhere in the Otanewainuku ecological district.

**Wildlife:** Assessed as having potential wildlife habitat value in Rasch (1989) for lack of native bird diversity and lack of understorey.

**Other:** Aesthetic

**THREATS AND REMARKS:**

Appears fenced off now but neighbouring farmers stock needs to be kept out (K.D. Young, pers obs).

**REFERENCES:**

Beadel, S.M., 1985: A vegetation survey and an assessment of the biological conservation values of the Ottawa-Otanewainuku Area, Western Bay of Plenty. Department of Lands and Survey, 61 pp.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no: U15/4

Date of completion: 25.11.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Oropi Bush Remnant

Area: 30ha

Protection Status: unprotected

Map Series: NZMS260

Grid Reference: 888 678

Aerial photo no: 170664

Date Flown: 4.2.93

Landform:

**Habitat Description:**

Podocarp emergent over tawa-broadleaved forest (Rasch, 1989).

Periodically grazed to the extent where there is absolutely no understorey left. Canopy is approx 25m with some large rimu (K.D. Young, pers obs).

Common bird species found in FSU (1982) survey.

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Part of site identified as exceptional botanical conservation value. This part of the site is part of a larger tract of indigenous vegetation which is a representative example of the ecological district. The rest of site identified as high botanical conservation value. This site is contiguous with a large tract of indigenous vegetation which is representative of the natural character of the Otanewainuku ecological district. See map taken from Beadel (1985) held within WBOPSSCV file for site information.

**Wildlife:** Assessed as having outstanding wildlife habitat values by Beadel (1985).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

Beadel, S.M., 1985: A vegetation survey and an assessment of the biological conservation values of the Ottawa-Otanewainuku Area, Western Bay of Plenty. Department of Lands and Survey, 61 pp.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/3

Date of completion: 25.11.93

Category: A

Ecological District: OTW

Habitat Type: Forest

Name: Water Reserve 2

Area:

Protection Status: Water reserve

Map Series: NZMS260

Grid Reference: 925 665

Aerial photo no: 170639 & 170684

Date Flown: 4.2.93

Landform:

**Habitat Description:**

A mixture of tawa-kohekohe-kamahi forest, tawa-kamahi-kohekohe-mamaku forest and rimu/tawa-kohekohe forest (see Beadel (1985) for vegetation map).

Adjacent to known kokako habitats.

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Southern part of site identified as exceptional botanical conservation value. This part of the site is part of a larger tract of indigenous vegetation which is a representative example of the ecological district (Beadel, 1985). Northern half of site is of high botanical conservation value, this half is contiguous with a large tract of indigenous vegetation which is a representative example of the natural character of the Otanewainuku ecological district. See map taken from (Beadel, 1985) for site information held in WBOPSSCV file.

**Wildlife:** Southern half assessed as having outstanding wildlife value (Beadel, 1985) for presence of fernbird and adjacent to or part of kokako habit. Northern half of site assessed as having high wildlife habitat value by Beadel (1985) for presence of kiwi.

**Other**

THREATS AND REMARKS:

REFERENCES:

Beadel, S.M., 1985: A vegetation survey and an assessment of the biological conservation values of the Ottawa-Otanewainuku Area, Western Bay of Plenty. Department of Lands and Survey, 61 pp.

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no: U15/2

Date of completion: 25.11.93

Category: A

Ecological District: OTW

Habitat Type: Forest

Name: Tauranga Water Reserve

Area:

DRAFT

Protection Status: Water Reserve

Map Series: NZMS260

Grid Reference: 895 635

Aerial photo no: 170662, 170639, 170641

Date Flown: 4.2.93

Landform:

**Habitat Description:**

Mostly tawa-rewarewa- kamahi forest with an intrusion of bracken fernland and bordered at the southern end by bracken fernland (see Beadel (1985) for vegetation map).

Southern half of site is of outstanding wildlife habitat value (Beadel, 1985) with the presence of the regionally threatened NI fernbird and next to or part of kokako habitat. The northern half of the site is of high wildlife habitat value with the presence of the threatened NI brown kiwi.

All information taken from Beadel (1985).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as exceptional botanical conservation. This site is part of a larger tract of indigenous vegetation which is a representative example of the ecological district (Beadel, 1985).

**Wildlife:** Assessed as having outstanding wildlife habitat values by Beadel (1985). Presence of kokako and nearby or forming part of kaka and kiwi habitats.

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

Beadel, S.M., 1985: A vegetation survey and an assessment of the biological conservation values of the Ottawa-Otanewainuku Area, Western Bay of Plenty. Department of Lands and Survey, 61 pp.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/1

Date of completion: 26.11.93

Category: A

Ecological District: OTW

Habitat Type: Forest

Name: Water Reserve 3

Area:

Protection Status: Water reserve

Map Series: NZMS260

Grid Reference: 930 700

Aerial photo no: 170694

Date Flown: 4.2.93

Landform:

**Habitat Description:**

Southern half of site is tawa-kamahi-kohekohe-mamaku forest and northern half predominantly tawa-kohekohe forest. There is a large area of rimu/tawa-kohekohe forest in the northern half along with a large area of tawa forest (see Beadel (1985) for vegetation map).

The endangered kokako is found at this site (FSU, unpub), (Beadel, 1985).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are other larger better quality examples of similar vegetation elsewhere in the ecological district.

**Wildlife:** Moderate wildlife habitat value (K.L. Owen, pers comm. 1994).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/33

**Date of completion:** 25.11.93

**Category:** B

**Ecological District:** OTW

**Habitat Type:** Forest

**Name:** Tuamata Road Bush 4

**Area:**

**Protection Status:** Unprotected

**Map Series:** NZMS260

**Grid Reference:** 835 668

**Aerial photo no:**

**Date Flown:**

**Landform:**

**Habitat Description:**

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value.

**Wildlife:** Moderate wildlife habitat value (K.L. Owen, pers comm.).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/32

**Date of completion:** 25.11.93

**Category:** B

**Ecological District:** OTW

**Habitat Type:** Forest

**Name:** Tuamata Road Bush 2.

**Area:**

**Protection Status:** Unprotected

**Map Series:** NZMS260

**Grid Reference:** 869 623

**Aerial photo no:**

**Date Flown:**

**Landform:**

**Habitat Description:**

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value.

**Wildlife:** Moderate Wildlife habitat quality (K.L. Owen, pers comm.).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/31

Date of completion: 25.11.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Tuamata Road Bush 1

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 850 631

Aerial photo no:

Date Flown:

Landform:

Habitat Description:

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value.

**Wildlife:**

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/30

Date of completion: 25.11.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Kopureroa Stream Bush 2.

Area:

Protection Status: unprotected

Map Series: NZMS260

Grid Reference: 855 645

Aerial photo no:

Date Flown:

Landform:

Habitat Description:

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value.

**Wildlife:** Assessed as having moderate wildlife habitat value  
(K.L. Owen, pers comm).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/29

Date of completion: 25.11.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Manutu Stream

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 705 659

Aerial photo no:

Date Flown:

Landform:

Habitat Description:

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value. This site is in the Tauranga ecological district. This area is of high botanical conservation value because very little indigenous forest remains in the Tauranga ecological district.

**Wildlife:** Assessed as having moderate to high wildlife habitat value. Tui, bellbird, grey warbler, NI fantail, moderate value for wildlife (K. Owen, pers comm, 1994).

**Other:** Water and soil conservation. Water supply taken from river-pump shed on site.

**THREATS AND REMARKS:**

Probably unlikely to obtain covenant over property due to vegetation quality. Also unlikely to get EBOP support for Land Improvement Agreement as there is no stock on the property near the forest remnant.

**REFERENCES:**

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LANDOWNER VISITS:

1. Jack Lochhead, 172 Maungarangi Road, RD 9, Te Puke. Legal description - Maungarangi B No 5, BLK VII, Maketu Survey District. Visited by K. Owen (DOC) on 21.8.94.

Agreement reached between WBOPDC and Landowner:

1. Lochhead:

1. That the area of exotic vegetation at the north-eastern end of the property be excluded from the site.
2. Note: That the house, lawns, garden and horticultural areas are not within the site area
3. That water supply pipeline and water supply pumping shed lie within the site area.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/28  
**Category:** A  
**Habitat Type:** Forest

**Date of completion:** 25.11.93  
**Ecological District:** TGA

WBOPDC Map: H12

**Name:** Upper Mangorewa Gorge Bush  
**Area:**  
**Protection Status:** Unprotected

WBOPDC Map: H12

**Map Series:** NZMS260  
**Grid Reference:** 070 673  
**Aerial photo no:** 170672

**Date Flown:** 4.2.93

**Landform:**

**Habitat Description:**

Indigenous forest

In Lochhead property approx 5% of site, bush is 80% treefern-mahoe/hangehange-pigeonwood (canopy height 10-12 m) and 20% grass

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value using Shaw's (in press) rankings. This site is contiguous with a relatively large tract of indigenous vegetation.

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm. 1994).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/27

**Date of completion:** 25.11.93

**Category:** A

**Ecological District:** OTW

**Habitat Type:** Forest

**Name:** Pyes Pa Road Bush.

**Area:**

**Protection Status:** Southern End of site protected by QE2 covenant.

**Map Series:** NZMS260

**Grid Reference:** 850 660

**Aerial photo no:** 170662 & 170641

**Date Flown:** 4.2.93

**Landform:** gully

**Habitat Description:**

Tawa-podocarp forest remnant in a gully (K.D. Young, pers obs).

This site has quite an open canopy, possibly due to possum browsing. The understorey is mainly of treefern, kamahi and kohekohe, the understorey is quite dense in places and does not appear browsed. (K.D. Young, pers obs).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value. This site is contiguous with a large tract of indigenous vegetation.

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm. 1994).

**Other:**

**THREATS AND REMARKS:**

Mr Kohu the owner is conservation minded and intends never to develop the bush property.

**REFERENCES:**

Young K.D (pers obs) notes held in SSSWBOP file.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/26

Date of completion: 25.11.93

Category: A

Ecological District: OTW

Habitat Type: Forest

Name: Kohu Bush

Area: 90ha

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 850 660

Aerial photo no: 170662 & 170641

Date Flown: 4.2.93

Landform:

**Habitat Description:**

Tawa podocarp remnant with secondary vegetation in north eastern end (K.D. Young, pers obs).

This site is mostly fenced off from stock although the eastern bulb is very badly grazed with absolutely no understorey. The western half of the site has a dense understorey and several large rimu emergent over the tawa canopy. The north eastern part of the site is regenerating native forest with a rewarewa canopy and many emergent rimu, this part also has a good understorey. There is some radiata pine along the northern ridge (K.D. Young, pers obs).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value. Relatively large example of indigenous vegetation including partially logged areas with some unlogged areas. Contiguous with and complementary to an area of exceptional botanical value (Otago-Otago forests) (see Beadel, 1985).

**Wildlife:** Assessed as having moderate to high wildlife habitat value, N.I. Robin, NZ Pigeon, N.I. tit, grey warbler, whitehead, morepork etc (K.L. Owen, pers comm. 1994).

**Other:** Water and soil conservation values, water supply to Tauranga city.

**THREATS AND REMARKS:**

Important to retain in indigenous forest cover as area lies in the upper catchment of Tauranga's water supply catchment of Tautau Stream (Kopurererua Stream).

**REFERENCES:**

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**LANDOWNER VISITS:**

1. John MacDonald, 1692 Pyes Pa Road, Tauranga. Part Lot 1, DPS 13318, Section 1, SO 58009. Block 11, Otago Survey District.

Outcome of visit:

No agreement reached as landowner derives livelihood from clearance of native forest on the property for firewood sales.

Concern expressed about land clearance of area as it lies within the Tautau Stream Catchment which is Tauranga City's water supply catchment area.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/25  
Category: A  
Habitat Type: Forest

Date of completion: 25.11.93  
Ecological District: OTW

WBOPDC Map: H8

Name: Mac Donald's Bush

Area: 29 acres

Protection Status: Unprotected - currently being cleared for firewood sales.

Map Series: NZMS260

Grid Reference: 860 670

Aerial photo no: 170662

Date Flown: 4.2.93

Landform: Upper catchment of Tautau Stream, rolling country.

**Habitat Description:**

Predominantly tawa forest with podocarp (especially rimu) extracted historically (K.L. Owen, pers obs, 1994)

CONSERVATION VALUES AND JUSTIFICATIONS:

Botanical:

Wildlife:

Other:

THREATS AND REMARKS:

REFERENCES:

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/24

Date of completion: 25.11.93

Category: A

Ecological District: OTW

Habitat Type: Forest

Name: Mangatoī Stream Bush

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 955 630

Aerial photo no:

Date Flown:

Landform:

Habitat Description:

DRA

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value using Shaw's (in press) rankings. There are better quality representative examples of similar vegetation elsewhere in the ecological district.

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm. 1994).

**Other:**

THREATS AND REMARKS:

REFERENCES:

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/23

Date of completion: 25.11.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Te Matai Bush 2

Area: 18ha

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 972 582

Aerial photo no: 170948

Date Flown: 11.4.93

Landform:

Habitat Description:

Appears to be tawa remnant with very open canopy K.D. Young,  
pers obs from aerial).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** identified as moderate botanical conservation value. Relatively small patches of indigenous vegetation in the Otanewainuku ecological district.

**Wildlife:**

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/22

Date of completion: 25.11.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Te Matai Road Bush 1

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 960 590 & 975 582

Aerial photo no:

Date Flown:

Landform:

Habitat Description:

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value using Shaw's (in press) rankings, for presence of the rare kingfern plant.

**Wildlife:** Assessed as having moderate wildlife habitat value in Rasch (1989).

**Other:** Aesthetic, important water and soil conservation values.

**THREATS AND REMARKS:**

FSU (1982) suggest to actively practice possuming to maintain good state of vegetation. Grazed by goats and cattle in the past.

**REFERENCES:**

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

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**LANDOWNER VISITS:**

1. Chris McFadden, 792 No.2 Road, Te Puke. Lots 1 and 2 DPS 60056, Block 9, Maketu Survey District. Visited on 5.8.94 by K. Owen (DOC).

**Agreement Reached:**

Although landowner was concerned that the incorrect area was marked on Council map supplied, planning map H10 shows correct area. No adjustment is needed to this map.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/21  
Category: A  
Habitat Type: Forest

Date of completion: 25.11.93  
Ecological District:

WBOPDC Map: H10, H11

Name: Ohineanganga Stream Bush  
Area: 160ha  
Protection Status: Unprotected

DRAFT

Map Series: NZMS260  
Grid Reference: 005 700  
Aerial photo no: 170690, 636, 667

Date Flown: 4.2.93

**Landform:**

**Habitat Description:**

Semi coastal broadleaf forest with tawa - rewarewa - rimu - hinau - kohekohe - pukatea and puriri in canopy and local areas of radiata pine around margins (K.L. Owen, pers obs. 1994).

Wildlife includes common bird species and the threatened kiwi (FSU, unpub).

The rare kingfern plant is abundant at this site and very healthy in the lower faces of the system (FSU, unpub).

Very good unlogged habitat quality, mostly very steep with some fencing at top of gully. Various parts of the gully have become dominated by poorer exotic vegetation of pines and gorse (FSU, unpub).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value using Shaw's (in press) rankings. A higher ranking may be appropriate and this site should be re-evaluated when more information is available.

**Wildlife:** Assessed as having moderate wildlife habitat value in Rasch (1989). Reasonable bird species list and good diversity of vegetation.

**Other:**

**THREATS AND REMARKS:**

At time of FSU survey (1982), farmer was keen to fence off and preserve bush.

**REFERENCES:**

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/20

**Date of completion:** 25.11.93

**Category:** B

**Ecological District:** OTW

**Habitat Type:** Forest

**Name:** Otamariri Stream Bush

**Area:**

**Protection Status:** Unprotected

**Map Series:** NZMS260

**Grid Reference:** 015 617

**Aerial photo no:**

**Date Flown:**

**Landform:** Gully

**Habitat Description:**

Cutover tawa-broadleaved forest with small amount of podocarp in gully (Rasch, 1989).

Some good regeneration on steep areas with good diversity of vegetation (FSU, unpub).

Wildlife includes common bird species along with the threatened kiwi (FSU, unpub).

2. Dick Broad, 869 Maungarangi Road, RD 9 Te Puke. Lot 2 DPS 51458, Block XI, Maketu Survey District. Visited by K. Owen (DOC) on 21.8.94.
3. Clive Benseman, 735 Maungarangi Road, RD 9, Te puke. Lot 1, DPS 51457, Block XI, Maketu Survey district. Visited by K. Owen (DOC) on 21.8.94.
4. Scott Welham, Maungarangi Road (near no 617), RD 9, Te Puke. Postal address - Shed 1607, Pukehina Beach Road, Pukehina).

Agreements between WBOPDC and landowners:

1. Crawford: The site is the Kaituna River side of the existing deer fences which are approximately 20-40 metres below the existing grass edge, depending on the contour.
2. Broad: Map H12, Showing Dick Broad's land within site requires several amendments to boundary to reflect agreed new boundary (see copy of amended H12 Map). These amendments specifically remove the block of pines at the southern end of the property, all areas of gorse, and areas of scattered kanuka, manuka and treefern that have grass and are grazed underneath.

It includes within the site the forested gully with large pukatea (directly north of the pines), and all the secondary and primary forest, kanuka and manuka shrublands that lie on rolling or steep lands facing towards the Kaituna River. It also includes the forested gully system that lies alongside the properties northern boundary with Benseman's property.

3. Benseman: Amend Map H12 to add small gully system running northwards from existing area (into site). Gully has water supply intake for property. Note: water supply dam at head of gully is outside the site.
4. Welham: Amend map H12 to remove a small area of about 1.5ha of blackberry, bracken, kanuka and scattered trees on an upper river terrace and slopes at the north end of the property and adjacent to Kaituna river (previously grazed land). Remove a second area of Kanuka trees with grass beneath near southern boundary of the property. This area of 0.4ha is grazed and lies outside of the main forested area.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/19

**Date of completion:** 25.11.93

**Category:** A

**Ecological District:** OTW

**Habitat Type:** Forest

**Name:** Kaituna River Bush 1

**Area:**

**Protection Status:** Unprotected

WBOPDC Maps: J12, H12

**Map Series:** NZMS260

**Grid Reference:** 055 580

**Aerial photo no:** 170943

**Date Flown:** 11.4.93

**Landform:**

**Habitat Description:**

Modified podocarp-tawa broadleaved forest with rewarewa and kanuka (Rasch (1989). Tanekaha is locally common (S.M. Beadel, pers comm).

This once valuable habitat has lost much of its size and quality due to forestry, agriculture and general land development practices. The Kaituna river drains Lakes Rotorua and Rotoiti total catchment 128 000 ha (FSU, unpub).

The habitat quality of this site is variable with some areas of more mature forest and much of the river banks being covered in regenerating shrub (FSU, unpub).

Wildlife includes common bush birds and the threatened kiwi. Blue duck may still be present in drastically reduced numbers (FSU, unpub).

**CONSERVATION VALUES AND JUSTIFICATIONS:**

**Botanical:** Identified as high botanical conservation value. This site is part of a relatively large example of indigenous vegetation which extends into the Rotorua District Council Zone.

**Wildlife:** Assessed as having moderate to high wildlife habitat value in Rasch (1989).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

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**LANDOWNER VISITS:**

1. Crawford, 617 Maungarangi Road, Pt Lot 1 DPS 46497, Lot 6 DPS 53912 Sec 1 so 58505 Sec 1 SO 58506. 6920 158.02 Visited by V. Froude (DOC) on 12.8.94.

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** This site links Puwhenua Forest and Hidden Gorge Scenic Reserve and it is contiguous with Kaimai-Mamaku State Forest Park. However the site is relatively narrow and there is insufficient information on its quality to accurately assess its botanical conservation values.

**Wildlife:** Assessed as having outstanding wildlife values in Rasch (1989) prior to development. Now wildlife values should still remain high as the remaining forest forms a corridor between Puwhenua State Forest and Hidden Gorge Scenic Reserve.

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

- Nicholls, J.L., 1971: Forest service mapping survey of New Zealand Indigenous Forests. Forest Service Mapping Series No 6. Sheet 5, Rotorua, Forest Research Institute.
- Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/18

Date of completion: 25.11.93

Category: A

Ecological District: OTW

Habitat Type: Forest

Name: Puwhenua Forest

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 825 630

Aerial photo no: 170643 & 170644

Date Flown: 4.2.93

Landform: Riverine gorges

**Habitat Description:**

Cutover tawa-podocarp forest with some virgin podocarp (Rasch, 1989).

Before it was cleared this was one of the largest tracts of virgin forest on the mamaku plateau outside the forest park. Now only the riverine gorges remain.

Wildlife at time of FSU survey in 1982 included Kokako and common bush birds.

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** This site is a relatively good example of the vegetation of the district. This site is of significant botanical conservation value and it deserves a ranking of at least "high". However more information is required to accurately assess this site.

**Wildlife:** Assessed as having moderate to high wildlife habitat value in Rasch (1989), for presence of NI Robins and a good diversity of native birds.

**Other:**

**THREATS AND REMARKS:**

FSU (1982) think that kiwi may also be present at this site.

**REFERENCES:**

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

Nicholls, J.L., 1971: Forest service mapping survey of New Zealand Indigenous Forests. Forest Service Mapping Series No 6. Sheet 5, Rotorua, Forest Research Institute.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/17

Date of completion: 25.11.93

Category: A

Ecological District: OTW

Habitat Type: Forest

Name: Roberts Bush

Area:

Protection Status: Partially protected under BOPRC Land Improvement Agreement.

Map Series: NZMS260

Grid Reference: 725 680

Aerial photo no:

Date Flown:

Landform:

**Habitat Description:**

Unlogged podocarp-tawa forest with numerous treeferns (Rasch, 1989).

Very good emergents and canopy but eaten out underneath. Virgin forest with some large rimu, miro and tanekaha, some kahikatea also present (FSU, unpub).

Wildlife includes a good diversity of native birds being common bush birds and the regionally threatened NI robin (FSU, unpub).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value using Shaw's (in press rankings). Presence of the rare kingfern plant and hard beech. Good example of forest of the ecological district.

**Wildlife:** Assessed as having outstanding wildlife habitat values in Rasch (1989). Presence of endangered and threatened fauna and forming a corridor between Otanewainuku Forest and Te Rerenga stream, kokako areas.

**Other:** Aesthetic and soil and water conservation values.

**THREATS AND REMARKS:**

FSU (1982) recommended to fencing off all sides to prevent further stock damage and to reserve area in its entirety.

**REFERENCES:**

Beadel, S.M., 1992: Threatened and Local Plants of the Bay of Plenty Conservancy. Prepared for the Department of Conservation, Bay of Plenty Conservancy.

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

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**LANDOWNER VISITS:**

1. Mr and Mrs Don and Janine McGowan, 1053 No.2 Road, Te Puke. Sections 25,26 and 27, Block 9, Maketu Survey District.

Agreement Reached:

1. Adjust map H10 to add additional areas of indigenous forest as shown on amended map H10, to significant natural features site.
2. Delete small area of pasture on western side part facing Waipuna Stream gully in south west of property (area marked on map H10).
3. Note that exotic forestry plantings on eastern side of Waipuna Stream gully are outside of significant natural feature site.
4. Delete very small area of pasture at the rear of property (marked on map H10) near Waiari River.

2. J. Jenson, 618 te Matai Road, RD 8, Te Puke. Legal description: Pt Lot 7, DPS 1950. Visited by V. Froude(DOC) and B. Hawkins (WBOPDC) on 12.8.94.

Outcome of visit: Clarified site description.

**Agreements between WBOPDC and Landowners:**

1. General: (all landowners). The trees planted around the top of the scarp are not part of the site. Self seeded pines in the upper slopes can be harvested as long as the indigenous vegetation is not damaged. The harvesting of self seeded pines from the mid slopes requires Council consent so that conditions to protect/minimise damage to indigenous vegetation can be set.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/16  
**Category:** A  
**Habitat Type:** Forest

**Date of completion:** 25.11.93  
**Ecological District:** OTW

WBOPDC Map: J10, H10

**Name:** Wharatoa Gorge Bush (Waiari River)  
**Area:** 350ha  
**Protection Status:** Partially protected by QE2 covenant (at rear of McGowan property).

**Map Series:** NZMS260

**Grid Reference:** 020 690

**Aerial photo no:** 170690, 635, 636, 637, 638, 947  
948, 949

**Date Flown:** 4.2.93

**Landform:**

**Habitat Description:**

Unmodified podocarp-tawa-kamahi forest with hard beech (Rasch, 1989). Rewarewa and rimu common (K.L. Owen, pers obs. 1994).

Wildlife includes common bush birds, the endangered kokako, the threatened blue duck, the threatened kiwi and the threatened bat (FSU, unpub).

The rare kingfern plant is located in this site (Beadel, 1992)

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/34

Date of completion: 25.11.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Omanuwa River Bush

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 815 670

Aerial photo no:

Date Flown:

Landform:

Habitat Description:

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value.

**Wildlife:** Moderate wildlife habitat value (K.L. Owen, pers comm.).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/35  
**Category:** B  
**Habitat Type:** Forest

**Date of completion:** 25.11.93  
**Ecological District:** OTW

WBOPDC Map: H12

**Name:** Kaituna River Bush 2.  
**Area:**  
**Protection Status:** Unprotected

**Map Series:** NZMS260  
**Grid Reference:** 079 670  
**Aerial photo no:** 170670

**Date Flown:** 4.2.93

**Landform:** Steep gully

**Habitat Description:**

The top of the gully is clad in pines and gorse. The hillslopes are a mixture of kamahi-treeferns (10%) canopy height approximately 6-7 metres, gorse-treeferns-mahoe shrub (60%). The valley floor is clad in willows/juncus - grass - raupo and cabbage trees.

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value.

**Wildlife:** Moderate wildlife habitat value (K.L. Owen, pers comm. 1994).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

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LANDOWNER VISITS;

1. LK and MC Woodward, Maungarangi Road, RD 9, Te Puke. Bin Bit Pt 82B, Lots 2,4,5, DPS 8482. Visited by V. Froude (DOC) on 12.8.94.

Outcome of visit:  
Delete site from significant features schedule.

2. C. Perrior, 297 Maungarangi Road, RD 9, Te Puke. Legal description B3B and Pt B2C 6920 048. Visited by V. Froude (DOC) on 12.8.94.

Outcome of visit:  
Delete site from significant features schedule.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

**Site no:** U15/36  
**Category:** B  
**Habitat Type:** Forest

**Date of completion:** 25.11.93  
**Ecological District:** OTW

WBOPDC Map: H12

**Name:** Kaituna River Bush 3  
**Area:**  
**Protection Status:** Unprotected

**Map Series:** NZMS260  
**Grid Reference:** 078 660  
**Aerial photo no:** 170670

**Date Flown:** 4.2.93

**Landform:** Steep gully

**Habitat Description:**

On the steep sides of the gully there is (pine)-(Acacia)/Kamahi manuka-rewarewa shrubland forest. In the wet valley floor there is pussy willow/- grass and willow. The vegetation is heavily damaged by goats with little regeneration and a broken canopy.

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate conservation value.

**Wildlife:** Moderate wildlife habitat value (K.L. Owen, pers comm, 1994).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

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**LANDOWNER VISITS:**

1. C. Perrior, 297 Maungarangi Road, RD 9, Te Puke. Legal description B3B and Pt B2C 6920 048. Visited by V. Froude (DOC) on 12.8.94.

Outcome of visit:

Delete site from significant features schedule.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/37

Date of completion: 25.11.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Pokopoko Stream Remnants

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 090 595

Aerial photo no: 170942

Date Flown:

Landform:

Habitat Description:

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are better quality examples of similar vegetation elsewhere in the ecological district.

**Wildlife:** Moderate wildlife habitat value (K.L. Owen, pers comm.).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/38

Date of completion: 25.11.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Upokoongauru Stream Bush

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 980 595

Aerial photo no: 170947

Date Flown:

Landform:

Habitat Description:

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are better quality examples of similar vegetation elsewhere in the ecological district.

**Wildlife:** Moderate wildlife habitat value (K.L. Owen, pers comm.).

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/39

Date of completion: 25.11.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name:

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 908 702

Aerial photo no: 170664

Date Flown: 4.2.93

Landform:

Habitat Description:

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value.

**Wildlife:**

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/40

Date of completion: 25.11.93

Category: A

Ecological District: OTW

Habitat Type: Forest

Name:

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 916 680

Aerial photo no: 170664

Date Flown: 4.2.93

Landform:

Habitat Description:

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value.  
Contiguous with a large tract of indigenous vegetation.

**Wildlife:**

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: U15/41

Date of completion: 25.11.93

Category: A

Ecological District: OTW

Habitat Type: Forest

Name:

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 906 690

Aerial photo no: 170664

Date Flown: 4.2.93

Landform:

Habitat Description:

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as high botanical conservation value.  
Contiguous with a large tract of indigenous vegetation.

**Wildlife:**

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

## SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

## WESTERN BAY OF PLENTY

Site no: V15/1

Date of completion: 1.12.93

Category: A

Ecological District: OTW &amp; TGA

Habitat Type:

DRAFT

Name: Otamarakau - Pukehina Coast

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 264 690

Aerial photo no: 170681

Date Flown:

Landform: Dune and Beach sands

**Habitat Description:**

The vegetation changes along the coast. *Isolepis nodosa/muehlenbeckia complexa* vineland and *Muehlenbeckia complexa* vineland. Spinifex sandfield on foredune at the eastern end of the site. *Baumea articulata*, raupo, harakeke, searush and *Schoenoplectus pungens* adjacent to Waitahanui Stream.

Vegetation of Otamarakau includes: (Taupata)/*Isolepis nodosa/Muehlenbeckia complexa* vineland and spinifex sandfield (Beadel, 1993). This site also contains a small population of *Austrofestuca littoralis*, classes as rare (Cameron et al, 1993) (Beadel, 1993). Pingao also occurs at this site (Beadel, 1993).

## CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Otuamarakau is identified as high botanical conservation value. Presence of *Austrofestuca littoralis* and the presence of Pingao.

The rest of this site is identified as moderate botanical conservation value. There are better quality, representative examples of similar vegetation elsewhere in the ecological district. (S.M. Beadel, pers comm).

**Wildlife:** Assessed as having moderate to high wildlife value for presence of the variable oystercatcher, NZ dotterel, lizards and invertebrates and possibly the NI fernbird and spotless crane (K.L. Owen, pers comm).

**Other:**

## THREATS AND REMARKS:

## REFERENCES:

Beadel, S.M., 1993: Significant sites of indigenous vegetation of Bay of Plenty coastal zone. Bay of Plenty Regional Council.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no: V15/2

Date of completion:

Category: B

Ecological District:

Habitat Type: Coastal forest remnants

Name: Otumarakau Bush Remnants

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 240 665

Aerial photo no: 170667

Date Flown: 4.2.93

Landform:

Habitat Description:

Several small pockets of coastal forest remnants.

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Unranked at present. There is insufficient information available to adequately rank these sites for botanical conservation value.

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm).

**Other:**

THREATS AND REMARKS:

REFERENCES:

## SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

## WESTERN BAY OF PLENTY

Site no: V15/3

Date of completion: 1.12.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Rotoehu Road Bush

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 172 546

Aerial photo no: 170994

Date Flown: 11.4.93

Landform:

## Habitat Description:

Tawa remnant with some rimu. Very open canopy over much of site however eastern bulb is still in excellent condition with dense canopy and understorey. Understorey of this part includes rewarewa, fern, rimu, tawa, mahoe, fivefinger and rangiora. (K.D. Young, pers obs). Kokako is reported in adjacent Rotorua district forest (Rasch, 1989).

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. Small example of indigenous vegetation where there are larger examples present elsewhere in the district.

**Wildlife:** Assessed as having potential wildlife habitat value (K.L. Owen, pers comm).

**Other:**

THREATS AND REMARKS:

Badly grazed.

REFERENCES:

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

## SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

## WESTERN BAY OF PLENTY

Site no: V15/4

Date of completion: 1.12.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Waitahanui Stream Bush

DRAFT

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 232 625

Aerial photo no: 170625

Date Flown: 4.2.93

Landform:

Habitat Description:

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. There are better quality large examples of similar vegetation elsewhere in the ecological district.

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm).

**Other:**

THREATS AND REMARKS:

REFERENCES:

## SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

## WESTERN BAY OF PLENTY

Site no: V15/5

Date of completion: 1.12.93

Category: A

Ecological District: OTW

Habitat Type: Forest

Name: Pongakau stream Bush

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 155 563

Aerial photo no: 170993

Date Flown: 11.4.93

Landform: Riverine gully

## Habitat Description:

Cloud over the aerial photograph has obscured accurate information about this site. Much of the site appears substantially modified. There was kokako present site at time of FSU survey 1982 (Rasch, 1989).

**CONSERVATION VALUES AND JUSTIFICATIONS:**

**Botanical:** Identified as moderate botanical conservation value. Much of site substantially modified and there are better examples elsewhere in the ecological district. A higher ranking for this site may be more appropriate and this site should be re-evaluated when more information is available.

**Wildlife:** Assessed as having moderate to high wildlife habitat value (K.L. Owen, pers comm).

**Other:**

**THREATS AND REMARKS:****REFERENCES:**

Rasch, G. 1989: Wildlife and Wildlife Habitats in the Bay of Plenty Region. Regional Report Series Number 11. Department of Conservation, Rotorua.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

Site no: V15/6

Date of completion: 1.12.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Campbell Road Bush

DRAFT

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 245 618

Aerial photo no: 170625

Date Flown: 4.2.93

Landform:

Habitat Description:

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value.

**Wildlife:** Assessed as having moderate wildlife habitat value  
(K.L. Owen, pers comm).

**Other:**

THREATS AND REMARKS:

REFERENCES:

## SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

## WESTERN BAY OF PLENTY

Site no: V15/7

Date of completion: 1.12.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Waiari Stream Bush Remnants

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 124 560

Aerial photo no: 170991

Date Flown: 11.4.93

Landform:

Habitat Description:

Several small pockets of indigenous vegetation.

DRAFT

## CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. A higher ranking for these sites may be appropriate and they should be re-evaluated when more information is available.

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm).

**Other:**

## THREATS AND REMARKS:

## REFERENCES:

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no: V15/8

Date of completion: 1.12.93

Category: B

Ecological District: OTW

Habitat Type: Forest

Name: Maniatutu Road Bush Remnants

DRAFT

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 123 598

Aerial photo no: 170991

Date Flown: 11.4.93

Landform:

Habitat Description:

Several small pockets of indigenous vegetation.

CONSERVATION VALUES AND JUSTIFICATIONS:

**Botanical:** Identified as moderate botanical conservation value. A higher ranking for these sites may be appropriate and they should be re-evaluated when more information is available.

**Wildlife:** Assessed as having moderate wildlife habitat value (K.L. Owen, pers comm).

**Other:**

THREATS AND REMARKS:

REFERENCES:

## SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

## WESTERN BAY OF PLENTY

Site no: V15/9

Date of completion: 1.12.93

Category: A

Ecological District: OTW

Habitat Type:

Name:

Area:

Protection Status:

Map Series: NZMS260

Grid Reference: 106 552

Aerial photo no: 170991

Date Flown: 11.4.93

Landform:

Habitat Description:

**CONSERVATION VALUES AND JUSTIFICATIONS:**

**Botanical:** This small site is contiguous with a tract of indigenous forest (Royden Downs Scenic Reserve) which is of significant botanical conservation value. Therefore this site deserves a botanical conservation rank of at least high. (S.M Beadel, pers comm).

**Wildlife:**

**Other:**

**THREATS AND REMARKS:**

**REFERENCES:**

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE  
WESTERN BAY OF PLENTY

Site no:

Date of completion:

Category: A

Ecological District:

Habitat Type:

Name:

Area:

Protection Status:

Map Series: NZMS260

Grid Reference:

Aerial photo no:

Date Flown:

Landform:

Habitat Description:

DRAFT

CONSERVATION VALUES AND JUSTIFICATIONS:

Botanical:

Wildlife:

Other:

THREATS AND REMARKS:

REFERENCES: