

Bay of Plenty
Conservancy

DRAFT

**Schedule of Sites of Significant
Conservation Value**

WESTERN BAY OF PLENTY

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Volume 2a ^{T.3-T.14} (U13/1 - U14/109)

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Rotorua.



SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE WESTERN BAY OF PLENTY

Site no: U13/1

Date of completion: 25.11.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine margin and wetland

Name: SS Athenree 1

Area:

Protection Status: Partially protected in the Athenree wildlife management reserve

Map Series: NZMS260

Grid Reference: 725 140

Aerial photo no: 170788

Date Flown: 28.2.93

Landform: Estuary

Habitat Description:

This site forms part of a larger botanical and wildlife site. The larger site is described as a large wetland, much of which is relatively unmodified, comprising a representative example of the estuarine vegetation of Tauranga Harbour (Beadel 1992). (Beadel, 1993).

There are five wildlife habitat sites identified within this site described as follows and mapped in Owen (1993a).

Site 1. Area of dense mixed searush and oioi sedgeland, scattered mangrove scrub in channels, with marsh ribbonwood scrub, flaxland, *Olearia solandri* scrub, pampas, gorse and wattle on drainage embankments. Area is contained between two large drains, Emerton Road and the Waiau River.

Site 2. A mixed estuarine vegetation association of mangrove scrub, searush and oioi sedgeland, marsh ribbonwood scrub, flaxland and pampas. Pohutukawa on embankment. Area lies between two drainage embankments, the Waiau River and Emerton Road.

Site 3. Estuarine vegetation sequence on eastern side of Waiau River. Scattered and dense mangrove scrub and shrubland (up to 2m high), oioi, searush and *Schoenoplectus pungens* sedgeland with marsh ribbonwood scrub, flaxland, manuka scrub, raupo reedland and grey willow forest. Estuarine herbfield vegetation includes shore pimpernel and remuremu. Adjoining vegetation comprises of *Olearia solandri* scrub, pohutukawa, karo, *Muehlenbeckia australis*, manuka scrub, gorse and pampas.

Site 4. Area of natural estuarine vegetation between Waiau River and Emerton Road. Area dominated by searush and oioi sedgeland with marsh ribbonwood scrub, flaxland and *Olearia solandri* scrub. Adjacent terrestrial area has karamu, mamaku, manuka scrub, five finger, mahoe, ponga, hangehange, poplar and pine.

contd..

Site 5. Extensive estuarine wetland vegetation sequence of *Zostera novozelandica*, mangrove scrub and shrubland (0.3m - 1.8m high), *Schoenoplectus pungens*, mixed oioi, searush and *Baumea juncea* sedgeland, marsh ribbonwood scrub, and *Olearia solandri* scrub. Flaxland, raupo reedland and *Baumea articulata* sedgeland association is present along the edge of the Waiau River at the south-west end. A degraded manuka shrubland, searush and oioi sedgeland's area is severed, by a large stopbank, from this area.

The larger site is mapped in Beadel (1992) and described in Beadel (1993).

Wildlife of the larger site includes the banded rail, NI fernbird, Australasian bittern, pukeko and the australasian harrier.

CONSERVATION VALUES AND JUSTIFICATIONS:

Botanical: Identified as exceptional botanical conservation value in Beadel (1993) and identified as a Category one area in Beadel (1992).

Wildlife: Sites 3,4 and 5 assessed as having high to outstanding habitat quality for marshbirds in Owen (1993a). Sites 1 and 2 assessed as having outstanding habitat quality for marshbirds in Owen (1993a).

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

Other:

THREATS AND REMARKS:

For information on threats, remarks and conservation recommendations see Owen (1993a).

REFERENCES:

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

Beadel, S.M. in press. 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

DRAFT

Site no: U13/2

Date of completion: 25.11.93

Category: A

Ecological District: TGA

Habitat Type: Fresh water wetlands

Name: Fresh water wetlands, Matakana Island.

Area:

Protection Status: Partially protected as part of wildlife reserve.

Map Series: NZMS260

Grid Reference: 745 085

Aerial photo no:

Date Flown:

Landform:

Habitat Description:

These wetlands are part of a larger wetland system (Matakana Island 1 ranked as National; includes a category one area) (Beadel 1992a). Although these areas are more modified nevertheless they are of significant conservation value. Freshwater wetlands have been greatly reduced in extent, particularly in lowland areas (c.f. Pike 1991). Taken from Beadel (1993).

Mapped in Beadel (1992a).

CONSERVATION VALUES AND JUSTIFICATIONS:

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

Wildlife: There are 3 wildlife habitat sites within this site. They are all of moderate habitat quality for marshbirds (Owen, 1993a).
The three sites are 18,19 and 26.

Other:

THREATS AND REMARKS:**REFERENCES:**

- Beadel, S.M. in press. 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

DRAFT

Site no: U13/3 Date of completion: 25.11.93
Category: A Ecological District: TGA
Habitat Type: Freshwater Wetlands
Name: Northern Matakana Island Wetlands and sand-dunes
Area:
Protection Status: Partially protected as part of Matakana
Island Wildlife Refuge.

Map Series: NZMS260
Grid Reference: 750 095
Aerial photo no: Date Flown:
Landform: Accretionary sequence of recurved ridges (CRI, BOP).

Habitat Description:

Matakana Island contains the best examples of freshwater wetlands in the harbour environs; these are described in Beadel (1990). The wetlands contain one of the best national populations of two rare ferns, *Cyclosorus interruptus* and *Thelypteris confluens* in New Zealand....another are plant, *Ranunculus macropus*, classed as vulnerable also occurs in these wetlands. Much of the wetland vegetation is in good condition and is a good quality representative example of wetland vegetation (Beadel, 1992a).

The rare plant *Pimelia arenaria* is also found in these wetlands (Beadel, 1992b).

A natural spinifex-pingao community occurs along the majority of the frontal foredune of Matakana Island. This community is relatively intact although marram is present locally in this zone (Beadel, 1989), (Beadel, 1993).

For a more in depth description of the seaward side of Matakana island see site U13/3a

There are eight wetlands in this site forming eight wildlife habitats described and mapped in Owen (1993a) and Beadel (1990).

Wildlife in these eight sites collectively includes the australasian bittern, spotless crane, australasian harrier, pukeko, black shag, various waterfowl, NZ kingfisher (Owen, 1993a).

CONSERVATION VALUES AND JUSTIFICATIONS:

Botanical: Identified as exceptional botanical conservation value in Beadel (1993). This site contains high quality, representative examples of sand dune communities and wetland communities which are of national significance (Beadel, 1989 and 1990). The natural spinifex-pingao community which occurs along the majority of the frontal foredune of Matakana island is generally relatively intact,.....this vegetation community is now rare in New Zealand Behind the frontal foredune zone the vegetation is still predominantly indigenous with only scattered exotic grasses and herbs. Pingao (classed as local is also common on these sites and over sixty plants of *Pimelia arenaria* (classed as rare) were recorded in 1989 (Beadel 1989). Another species of botanical interest which occurs on the island is *Melicytus novae-zelandiae*. This species occurs on several other islands in Bay of Plenty but is rare on the mainland...(Beadel, S.M., pers obs).

These wetlands contain one of the best populations of *Thelypteris confluens* (rare) and *Cyclosorus interruptus* (rare) in New Zealand. *Ranunculus macropus* (rare) also occurs in the wetlands (Beadel, 1990), (Beadel, 1993).

Wildlife: All of these freshwater water wetlands have collectively been assessed as having high value for wildlife (K.L. Owen, pers comm.). Three of the five wetlands have been assessed as having high wildlife habitat quality for marshbirds and the remaining two as moderate habitat quality for marshbirds. (Owen, 1993a). Sites are 13,14,15,16,and 17.

THREATS AND REMARKS:

For information on threats, impacts and conservation recommendations see Owen (1993a) and Beadel (1992b).

REFERENCES:

- 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., 1990: An Account of the vegetation and Flora of the North Western End of Matakana Island Tauranga Harbour. Rotorua Botanical Society Newsletter 19:24 -36.
- Beadel, S.M., 1992b: Threatened and Local Plants of the Bay of Plenty Conservancy. Prepared for the Department of Conservation, Bay of Plenty Conservancy.
- 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.
- Forbes, S. & Bridgewater, G. 1990. Coastal Resource Inventory, First Order Survey. Bay of Plenty Conservancy.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE
WESTERN BAY OF PLENTY

DRAFT

Site no: U13/4

Date of completion: 28.2.93

Category: A

Ecological District: TGA

Habitat Type: Shrubland and scrub.

Name: SS Athenree 2

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 707 134

Aerial photo no: 170789

Date Flown: 28.2.93

Landform:

Habitat Description:

Relatively large examples of manuka scrub and shrubland. The major vegetation types present are:

- manuka scrub
- willow-manuka forest
- willow forest
- manuka shrubland
- cabbage tree/ *Baumea juncea*- *Coprosma tenuicaulis*-*Baumea articulata* treeland.

from Beadel (1992a).

Mapped in Beadel (1992a).

CONSERVATION VALUES AND JUSTIFICATIONS:

Botanical: Identified as high botanical conservation value in Beadel (1993). A relatively good example of the freshwater wetland vegetation types, characteristic of Tauranga ecological district. Also identified as a category 2 area in Beadel (1992a).

Wildlife: Assessed as having moderate wildlife habitat value in Rasch (1989). This site requires a field inspection.

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

DRAFT

Site no: U13/5

Date of completion: 25.11.93

Category: B

Ecological District: TGA

Habitat Type: Scrub and flaxland

Name: Taupiro Point

Area: 13ha

Protection Status: Partly within a landing reserve controlled by district council.

Map Series: NZMS260

Grid Reference: 713 085

Aerial photo no: 170813

Date Flown: 28.2.93

Landform: Sandspit

Habitat Description:

Vegetated sandspit with *Pinus radiata*, manuka scrub, *Olearia solandri* scrub, flaxland, *Isolepis nodosa* sedgeland, secondary coastal scrub and forest regeneration. Margins comprise estuarine vegetation containing scattered mangrove scrub, oioi, searush and *Baumea juncea* sedgeland and estuarine herbfield. (Owen, 1993a).

Also mapped in Beadel (1992a).

Wildlife includes the banded rail and the NI fernbird (Owen, 1993a).

CONSERVATION VALUES AND JUSTIFICATIONS:

Botanical: The estuarine vegetation of this site are identified as moderate botanical conservation value (S.M. Beadel, pers comm).

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

Other:

THREATS AND REMARKS:

For information on threats, impacts and conservation recommendations 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

DRAFT

Site no: U13/6

Date of completion: 25.11.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine margin vegetation

Name: Ongare

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 715 075

Aerial photo no: 170813

Date Flown: 28.2.93

Landform:

Habitat Description:

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

The larger site is described as a narrow, long band of estuarine vegetation around the harbour edge. Sparse to dense areas of mangrove scrub (0.2m - 0.5m high) on seaward side with a mixed association of searush and oioi sedgeland further inland. The margins contain a marsh ribbonwood scrub, manuka scrub and *Olearia solandri* scrub association (Owen, 1993a).

This site is mapped in Beadel (1992a).

Wildlife includes the NI fernbird, black swan, pukeko and white faced heron.

CONSERVATION VALUES AND JUSTIFICATIONS:

Botanical: The estuarine vegetation of this site is of moderate botanical conservation value (S.M. Beadel, pers comm).

Wildlife: The larger wildlife site is assessed as having moderate habitat quality for marshbirds in Owen (1993a).

Other:

THREATS AND REMARKS:

For information on threats, impacts and conservation recommendations 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

DRAFT

Site no: U13/7

Date of completion: 25.11.93

Category: A

Ecological District: TGA

Habitat Type: Estuarine wetlands

Name: SS Matakana Island 2

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 765 040

Aerial photo no: 170815

Date Flown: 28.2.93

Landform:

Habitat Description:

This estuarine margin strip forms part of a larger significant botanical site.

The larger site is a relatively large, good quality representative example of the vegetation types present listed below, characteristic of the Tauranga ecological district.

Vegetation types of the larger site include:

-Cabbage tree-grey willow-manuka forest in the freshwater wetland along with manuka scrub. Manuka scrub and mangrove shrubland along with flaxland, *Baumea juncea sedgeland*, *Baumea juncea-marsh ribbonwood-oioi sedgeland*, Wharariki/*Baumea juncea-oioi-marsh ribbonwood sedgeland*, Mangrove/*Schoenoplectus pungens sedgeland*, searush tussockland and oioi sedgeland in the saline wetland and Sandspit vegetation on the dune and beach sands. From (Beadel, 1993).

This site is mapped in Beadel (1992a).

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE
WESTERN BAY OF PLENTY

DRAFT

Site no: U13/8

Date of completion: 25.11.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine vegetation margin

Name: Athenree Road

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 718 118

Aerial photo no:

Date Flown:

Landform:

Habitat Description:

This site forms part of a large wildlife habitat site.

Mixed estuarine vegetation association extending along and out from shoreline including 3 small indented bays. Vegetation dominated by scattered to dense stands of mangroves (0.3m to 1.5m high) with bands of mixed searush and oioi sedgeland further inland. Behind this vegetation a narrow riparian strip of oioi and searush sedgeland, marsh ribbonwood scrub, *Baumea articulata* reedland, *Cyperus ustulatus*, flaxland, and raupo reedland merging into manuka scrub and grey willow forest exists.

At the southern end a small islet of tall *Pinus radiata* with an understory of *Myrsine australis*, *Isolepis nodosa* and rank grasses exists. (Owen, 1993a).

This larger site is mapped in Beadel (1992a).

Wildlife includes banded rail, NI fernbird, spur winged plover, pukeko, canada geese and the white faced heron (Owen, 1993a).

CONSERVATION VALUES AND JUSTIFICATIONS:

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

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

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

Other:

THREATS AND REMARKS:

For information on threats, impacts and conservation recommendations 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

DRAFT

Site no: U13/9

Date of completion: 25.11.93

Category: B

Ecological District: TGA

Habitat Type: Estuarine vegetation

Name: Bowentown Road

Area:

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 715 124

Aerial photo no: 170788

Date Flown: 28.2.93

Landform:

Habitat Description:

This site forms part of a larger wildlife habitat site.

Long, narrow strip of estuarine vegetation comprising *Zostera novozelandica*, mangrove scrub (0.5m - 1.5m high), *Schoenoplectus pungens*, mixed searush and oioi sedgeland, marsh ribbonwood scrub, *Olearia solandri* scrub and flaxland, manuka scrub and raupo reedland (Owen, 1993a).

This site is mapped in Beadel (1992a).

Wildlife of the larger site includes the NI fernbird and the banded rail (Owen, 1993a).

CONSERVATION VALUES AND JUSTIFICATIONS:

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

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

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

Other:

THREATS AND REMARKS:

For information on threats, impacts and conservation recommendations 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

DRAFT

Site no: U13/10 Date of completion: 25.11.93
Category: B Ecological District: TGA
Habitat Type: Estuarine Vegetation

WBOPDC Map: Athenree 1 (1:5000)

Name: Athenree Settlement

Area:

Protection Status: Unprotected

Map Series: NZMS260
Grid Reference: 725 128
Aerial photo no: 170788

Date Flown: 28.2.93

Landform: estuary margin.

Habitat Description:

This site forms part of a larger wildlife habitat site as described below.

A long, narrow band of estuarine vegetation dominated by both scattered and dense mangrove scrub (up to 1m high) with oioi and searush sedgeland merging into a narrow strip of marsh ribbonwood scrub, *Olearia solandri* scrub with an area of freshwater wetland vegetation comprising mainly flaxland, raupo reedland and grey willow forest (Owen, 1993a).

This site is also mapped in Beadel (1992a).

Wildlife of the larger site includes the banded rail and pukeko.

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

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

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

Other:

THREATS AND REMARKS:

For information on threats, impacts and conservation recommendations 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.

LANDOWNER VISITS:

1. Mr Yeoman, PO Box 164, Katikati. Potential purchaser.
2. Snow Brown, 37 Athenree Road, R.D. 1, Katikati. Legal Description: Allot 82, Pt Allot 81 Katikati Parish. Lots 1,2,3,4 and 5 DPS 45090.

Visits by V. Froude (DOC) and Bruce Hawkins (WBOPDC) on 11.8.94.

Outcome of Visits:

Amended boundaries of site.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE

WESTERN BAY OF PLENTY

DRAFT

Site no: U13/11

Date of completion: 25.11.93

Category: B

Ecological District: TGA

Habitat Type: Mangrove shrub and shrubland

WBOPDC Map: C5

Name: Tahawai

Area: 3.8ha

Protection Status: Unprotected

Map Series: NZMS260

Grid Reference: 702 069

Aerial photo no: 170813

Date Flown: 28.2.93

Landform:**Habitat Description:**

Narrow inlet with scattered to dense mangrove shrub and shrubland (0.3m to 2.0m high) throughout. Margins comprise a narrow band of searush and oioi sedgeland blending into marsh ribbonwood, *Olearia solandri*, and manuka scrub, raupo reedland and grey willow forest associations. Estuarine herbfield association dominated by *Samolus repens*, *Selliera radicans*, and *Triglochin striata*, along some margins. *Pinus radiata* and horticulture shelter belts around wetland margin (Owen, 1993a).

Site mapped in Beadel (1992a).

The site also includes a small willow-manuka/baumea freshwater wetland on the inland side of the road.

Part of this site is below Mean High Water Springs and so is under the jurisdiction of the Bay of Plenty Regional Councils Environment Plan.

Wildlife includes the australasian harrier, NZ kingfisher, mallard and the white faced heron (Owen, 1993).

CONSERVATION VALUES AND JUSTIFICATIONS:

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

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

Other: Natural character values.

THREATS AND REMARKS:

For information on threats, impacts and conservation recommendations see Owen (1993a). Paper road has a different alignment to actual road location.

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.

LANDOWNER VISITS:

1. Crosby, 252 Tuapiro Road. Legal description: Lot 4, DPS 633113. Visited by V. Froude (Doc) and Bruce Hawkins (WBOPDC) ON 11.8.94.

Outcome of visit:

Deleted this property from site. Amalgamated site with U13/6.

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE
WESTERN BAY OF PLENTY

DRAFT

Site no: U13/12

Date of completion: 25.11.93

Category: A

Ecological District: TGA

Habitat Type: TGA

Name: Pios Beach

Area:

Protection Status: Part protected in recreation reserve.

Map Series: NZMS260

Grid Reference: 738 115

Aerial photo no: 170787

Date Flown: 28.2.93

Landform:

Habitat Description:

This site contains good quality representative sand dune vegetation communities typical of Tauranga ecological district. Their indigenous flora is relatively diverse. An interesting feature of these communities is the presence of seedling and sapling haupara amongst the *Muehlenbeckia complexa* and *Isolepis nodosa*. *Tetragonia trigyna* (New Zealand spinach) is also locally common amongst the *Muehlenbeckia complexa* and *Isolepis nodosa*.

One plant of *Pimelia arenaria* (rare was recorded from this site in 1983 (P.J. de Lange pers. comm.) *Desmoschoenus spiralis* (pingao) is locally common at this site (classed as local).

Taken from Beadel (1993).

The vegetation types of this site are also listed in Beadel (1993).

CONSERVATION VALUES AND JUSTIFICATIONS:

Botanical: Identified as very high botanical conservation value in Beadel (1993) for reasons given in above habitat description. Also identified as regionally important by Forbes and Bridgewater (1990).

Wildlife: Assessed as having moderate 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.

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.

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

CONSERVATION VALUES AND JUSTIFICATIONS:

Botanical: Part of this site identified as high botanical conservation value in Beadel (1993). Pohutukawa forest was once common in the Tauranga ecological district; However it has been greatly reduced in extent and only small areas now remain (e.g. Mount Maunganui, Bowentown Heads and Tanners Point) (Beadel, 1993). The rest of this site is of moderate botanical conservation value however is included as part of the A category site as it acts as a buffer to the high ranking part of the site.

Ranked as regionally important by Forbes and Bridgewater (1990).

Wildlife: Assessed as having moderate habitat value for wildlife. This site requires a field check as it may be the site of a pied shag and little blue penguin breeding colony. (K.L. Owen, pers comm.).

Other:

THREATS AND REMARKS:

see Forbes and Bridgewater (1990).

REFERENCES:

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

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

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE
WESTERN BAY OF PLENTY

DRAFT

Site no: U13/13

Date of completion: 25.11.93

Category: A

Ecological District: TGA

Habitat Type: Forest

Name: Bowentown Heads 1

Area:

Protection Status:

Map Series: NZMS260

Grid Reference: 748 109

Aerial photo no: 170788

Date Flown: 28.2.93

Landform: Headlands

Habitat Description:

A good example of pohutukawa forest and secondary mixed forest on volcanic hard coast (Beadel, 1993).

Buffeted by gorse and bracken on the perimeter.

CONSERVATION VALUES AND JUSTIFICATIONS:

Botanical: Part of this site identified as high botanical conservation value in Beadel (1993). Pohutukawa forest was once common in the Tauranga ecological district; However it has been greatly reduced in extent and only small areas now remain (e.g. Mount Maunganui, Bowentown Heads and Tanners Point) (Beadel, 1993). The rest of this site is of moderate botanical conservation value however is included as part of the A category site as it acts as a buffer to the high ranking part of the site.

Ranked as regionally important by Forbes and Bridgewater (1990).

Wildlife: Assessed as having moderate habitat value for wildlife. This site requires a field check as it may be the site of a pied shag and little blue penguin breeding colony. (K.L. Owen, pers comm.).

Other:

THREATS AND REMARKS:

see Forbes and Bridgewater (1990).

REFERENCES:

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

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

SCHEDULE OF SITES OF SPECIAL SIGNIFICANCE
WESTERN BAY OF PLENTY

DRAFT

Site no: U13/14

Date of completion: 25.11.93

Category: A

Ecological District: TGA

Habitat Type: Forest

Name: Bowentown Heads 2

Area:

Protection Status:

Map Series: NZMS260

Grid Reference: 740 108

Aerial photo no: 170788

Date Flown: 28.2. 93

Landform: Headlands

Habitat Description:

A good example of pohutukawa forest and secondary mixed forest on volcanic hard coast (Beadel, 1993).

Surrounded by gorse and bracken.

Significant wildlife recorded here includes a colony of pied shag, the little blue penguin and the variable oystercatcher (Forbes and Bridgewater, 1990).

CONSERVATION VALUES AND JUSTIFICATIONS:

Botanical: Most of site identified as high botanical conservation value in Beadel (1993). Pohutukawa forest was once common in the Tauranga ecological district; However it has been greatly reduced in extent and only small areas now remain (e.g. Mount Maunganui, Bowentown Heads and Tanners Point) (Beadel, 1993). The rest of site consisting of gorse and bracken is of moderate botanical conservation value, however is included in the A category site as it provides a buffer for the high ranking part of the site.

Ranked as regionally important by Forbes and Bridgewater (1990).

Wildlife: Assessed as having moderate to high wildlife conservation values for presence of one of the few Bay of Plenty pied shag colonies, the little blue penguin and the variable oystercatcher (K.L. Owen, pers comm.).

Other:

THREATS AND REMARKS:

see Forbes and Bridgewater (1990).

REFERENCES:

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

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