

## PUKEHUIA REMNANTS

<b>Survey no.</b>	P07/107
<b>Survey date</b>	19 October 1999
<b>Grid reference</b>	1688952E 6021669N (AX29)
<b>Area</b>	13.7 ha, 3 remnants
<b>Altitude</b>	< 20-80 m a.s.l.

### **Ecological unit**

(a) Taraire-tōtara forest on moderate hillslope

### **Landform/geology**

Hillslopes of Mangakahia Complex sandstone and mudstone.

### **Vegetation**

Only a limited view of this site was obtained. Only the northwestern remnant was surveyed. The two southeastern remnants were not surveyed.

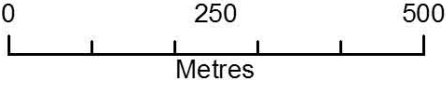
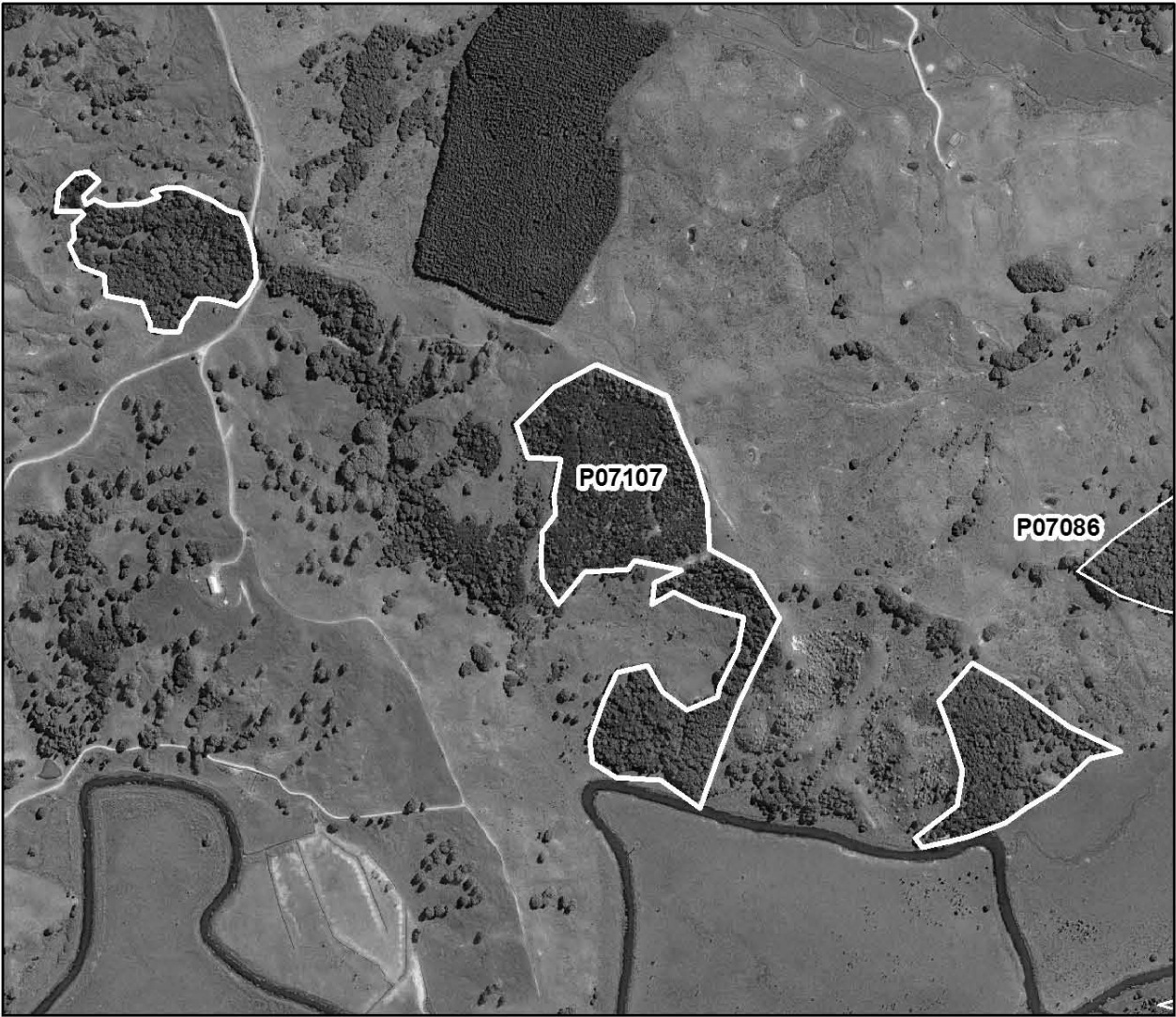
(a) Co-dominant taraire and tōtara occurs along with frequent nīkau and kahikatea and occasional kauri, pūriri, tōwai, tītoki, and mamaku in the northwestern remnant.

### **Fauna**

None noted.

### **Significance**

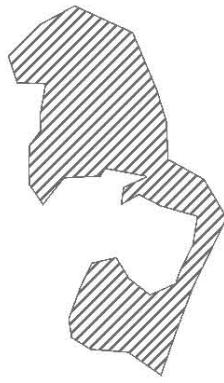
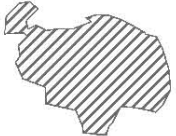
Small forest remnants within a very modified Ecological District. The southeastern remnants adjoin the Manganui River. Approximately 0.4 ha of this site occurs within an 'Acutely Threatened' land environment (A5.1b), 0.4 ha within a 'Chronically Threatened' land environment (G3.1b) and 13.3 ha within a 'Critically Underprotected' land environment (A6.1c) (Walker et al. 2007).



### P07/107 Pukehuia Remnants

**Habitat type**

-  Forest
-  Shrubland
-  Wetland



## STILLS BUSH

**Survey no.** P07/113  
**Survey date** 13 May 1996  
**Grid reference** 1696078E 6023922N (AX29)  
**Area** 4.5 ha  
**Altitude** 60-120 m a.s.l.

### **Ecological unit**

(a) Tōtara forest on moderate hillslope

### **Landform/geology**

Hillslopes of Mangakahia Complex mudstone.

### **Vegetation**

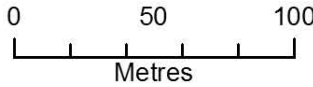
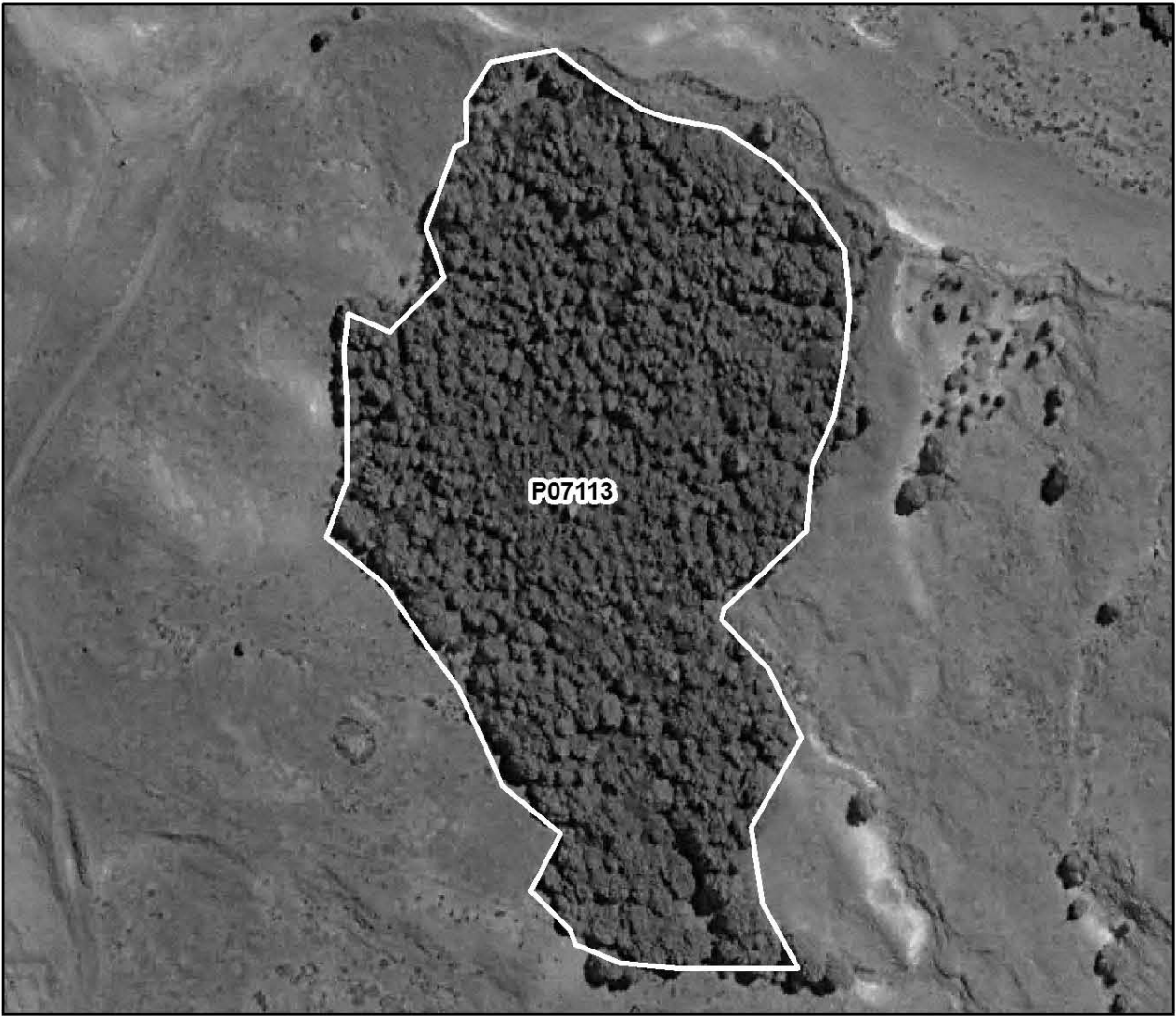
(a) Small hillslope remnant with abundant tōtara and frequent rimu. Emergent kauri, rewarewa and kahikatea are present.

### **Fauna**

None noted.

### **Significance**

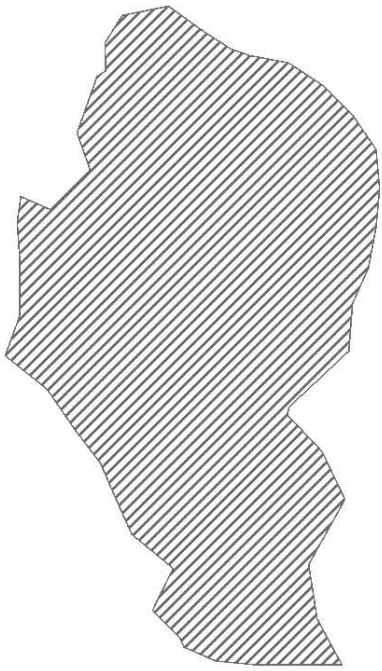
A small forested remnant within a very modified Ecological District. Approximately 0.7 ha of this site occurs within an 'At Risk' land environment (A6.1b) and 3.9 ha occurs within a 'Critically Underprotected' land environment (A6.1c).



### P07/113 Stills Bush

#### Habitat type

-  Forest
-  Shrubland
-  Wetland



## YOUNG ROAD QEII REMNANT

<b>Survey no.</b>	P07/116
<b>Survey date</b>	Unsurveyed, information from N. Matich (QEII Kaipara Regional Representative)
<b>Grid reference</b>	1686760E 6020551N (AX29)
<b>Area</b>	7.7 ha
<b>Altitude</b>	20-60 m a.s.l.

### **Ecological unit**

(a) Broadleaf-podocarp forest on moderate hillslope

### **Landform/geology**

Mangakahia complex sandstone and mudstone.

### **Vegetation**

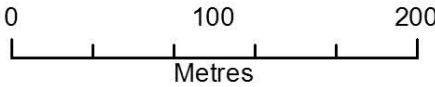
(a) This remnant is defined by broadleaf-podocarp forest with rewarewa, kahikatea, tōtara, rimu, taraire, nīkau, tītoki and kākūka (N. Matich (QEII Kaipara regional representative) pers. comm.).

### **Fauna**

Kūkupa (regionally significant species), NI fantail, tūī, Australasian harrier and pūkeko (N. Matich (Queen Elizabeth II National Trust Kaipara regional representative) pers. comm.).

### **Significance**

A small forested remnant within a very modified Ecological District. Two Queen Elizabeth II National Open Space covenants occur within this site (totalling 4.7 ha). Approximately 0.1 ha of this site occurs within a 'Chronically Threatened' land environment (A6.1d) and 7.7 ha within a 'Critically Underprotected' land environment (A6.1c) (Walker et al. 2007).



**P07/116 Young Road QEII Remnant**

**Habitat type**

-  Forest
-  Shrubland
-  Wetland



## HOANGA ROAD REMNANTS

<b>Survey no.</b>	P07/117
<b>Survey date</b>	10 November 2009
<b>Grid reference</b>	1683600E 6026630N (AX28)
<b>Area</b>	51.8 ha, 7 remnants (46 ha forest, 5.7 ha shrubland)
<b>Altitude</b>	20-50 m a.s.l.

### **Ecological unit**

- (a) Tōtara forest on gentle hillslope
- (b) Kānuka/mānuka-tōtara forest on gentle hillslope
- (c) Kānuka/mānuka forest on gentle hillslope
- (d) Black wattle-kānuka/mānuka-tōtara forest on moderate hillslope

### **Landform/geology**

Hillslope of Mangakahia sandstone and mudstone.

### **Vegetation**

Only a limited survey of this site was obtained. The three eastern remnants were not surveyed.

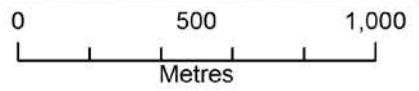
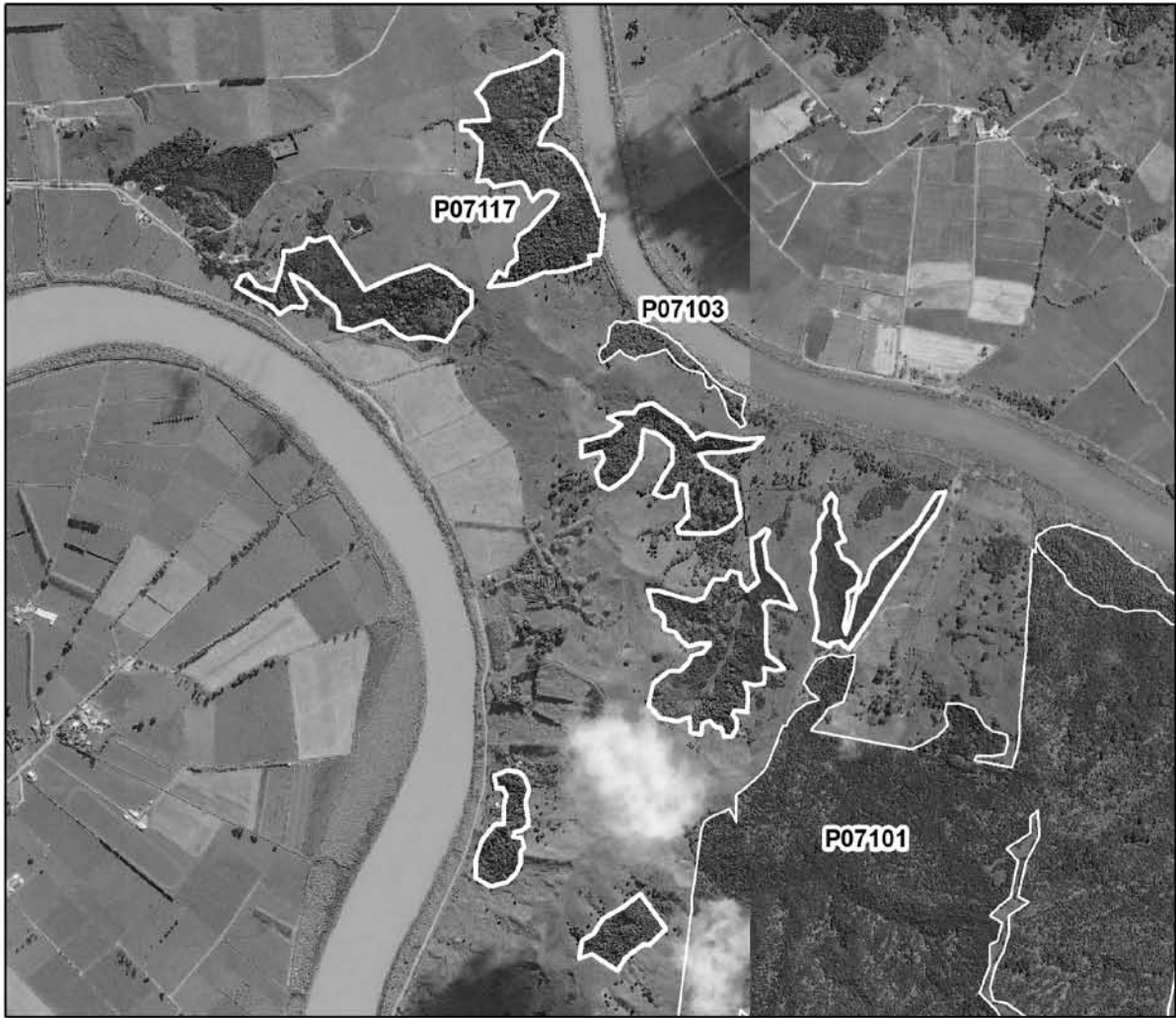
- (a) Tōtara is common and pūriri and taraire frequent in the small southern remnant alongside Hoanga Road. Kahikatea, kauri and kānuka and mānuka are occasional. Pines are evident on the northern side.
- (b) In the northwestern remnant alongside Hoanga Road, kānuka/mānuka and tōtara are common with black wattle frequent and kahikatea occasional.
- (c) There is also an area of abundant kānuka/mānuka here with frequent black wattle and emergent pine and occasional tōtara and pūriri.
- (d) The northeastern remnant adjacent to the Wairoa River is defined by common black wattle, kānuka/mānuka and tōtara. Kahikatea and rimu are occasional.

### **Fauna**

None noted.

### **Significance**

A collection of small forest remnants with the weed species black wattle and pine conspicuous. Approximately 9.6 ha of this site occurs within an 'Acutely Threatened' land environment (A5.1b), 0.4 ha within a 'Chronically Threatened' land environment (A5.2a), 6.9 ha within an 'At Risk' land environment (A6.1b) and 34 ha within a 'Critically Underprotected' land environment (A6.1a, A6.1c) (Walker et al. 2007).



### P07/117 Hoanga Road Remnants

#### Habitat type

-  Forest
-  Shrubland
-  Wetland





## HILL ROAD FOREST REMNANTS

<b>Survey no.</b>	P07/118
<b>Survey date</b>	Not surveyed
<b>Grid reference</b>	1685088E 6023074N (AX29)
<b>Area</b>	13.6 ha, 5 remnants
<b>Altitude</b>	20-60 m a.s.l.

### **Ecological unit**

(a) Forest on moderate hillslope

### **Landform/geology**

Hillslope of Mangakahia sandstone and mudstone.

### **Vegetation**

This site was not able to be surveyed as it could not be viewed from the road.

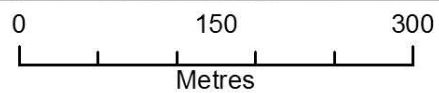
(a) 2008 aerial photography suggests that these five remnants are defined by indigenous forest cover.

### **Fauna**

None noted.

### **Significance**

A collection of small forest remnants within a very modified Ecological District. This site occurs within a 'Critically Underprotected' land environment (A6.1c) (Walker et al. 2007).



### P07/118 Hill Road Forest Remnants

#### Habitat type

-  Forest
-  Shrubland
-  Wetland



## OMANA REMNANT

**Survey no.** P07/119  
**Survey date** 17 December 2009  
**Grid reference** 1699424E 6025751N (AX29)  
**Area** 6.8 ha  
**Altitude** 20-60 m a.s.l.

### **Ecological unit**

(a) Tôtara forest on hillslope

### **Landform/geology**

Hillslope of Mangakahia sandstone and mudstone.

### **Vegetation**

Pine forest adjoins this remnant on its northwest boundary.

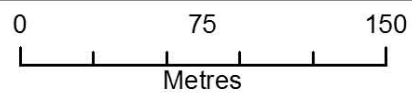
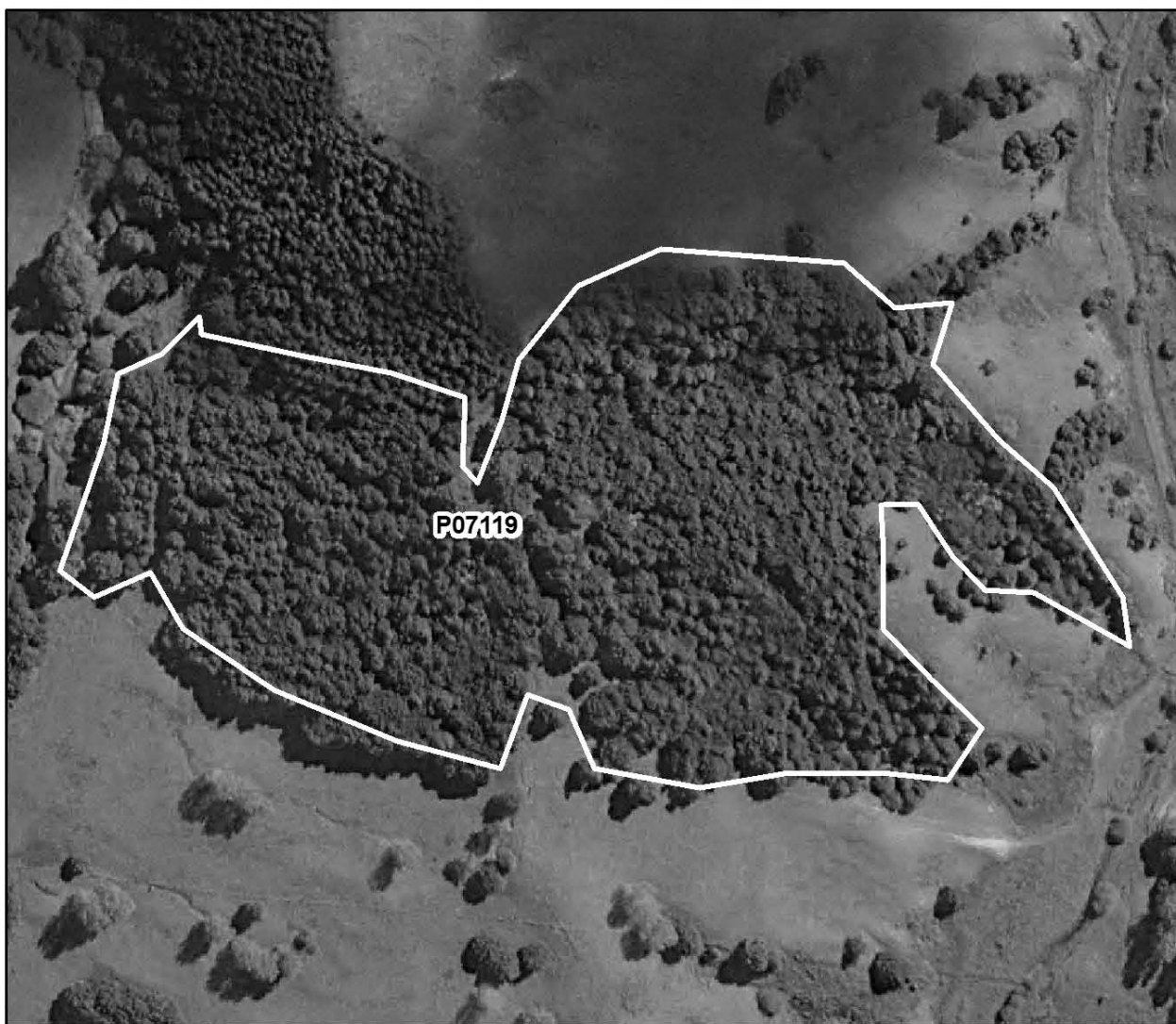
(a) The western face of this remnant comprises abundant tûtara with several occasional species including emergent pole rimu, emergent pole kahikatea, rewarewa, taraire, pûriri, and tûtoki.

### **Fauna**

None noted.

### **Significance**

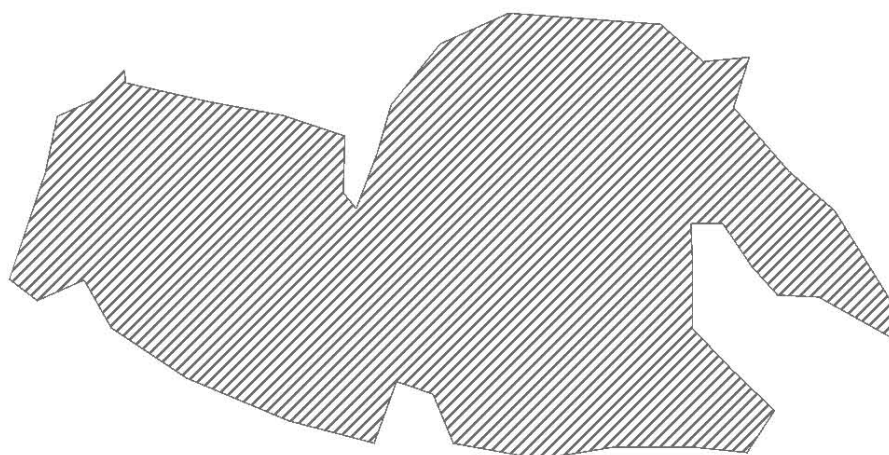
A small remnant providing stepping stone habitat within a very modified Ecological District. Approximately 0.1 ha of this site occurs within an 'Acutely Threatened' land environment (G3.1a) and 6.7 ha within a 'Critically Underprotected' land environment (A6.1a, A6.1c) (Walker et al. 2007).



### P07/119 Omana Remnant

#### Habitat type

-  Forest
-  Shrubland
-  Wetland



## KIRIOPUNI STATION ROAD COVENANT

<b>Survey no.</b>	P07/183
<b>Survey date</b>	Not surveyed—information from N. Matich (Queen Elizabeth II National Trust Kaipara regional representative)
<b>Grid reference</b>	1692582E 6029973N (AX29)
<b>Area</b>	2.3 ha
<b>Altitude</b>	20–50 m a.s.l.

### **Ecological uni**

(a) Pūriri-tōtara forest on gentle hillslope

### **Landform/geology**

Mangakahia Complex sandstone and mudstone.

### **Vegetation**

(a) Pūriri and tōtara are common in the canopy with kohekohe. Other species present include nīkau.

### **Fauna**

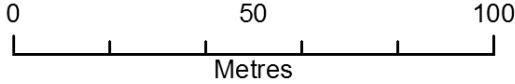
Kūkupa (regionally significant species), shining cuckoo, tūī, NI kingfisher, NI fantail and Australasian harrier (information from N. Matich (QEII Kaipara regional representative)).

### **Significance**


This remnant is protected as an open space covenants (1.9 ha) through the Queen Elizabeth II National Trust. The site occurs within a ‘Critically Underprotected’ land environment (A6.1a) (Walker et al 2007).

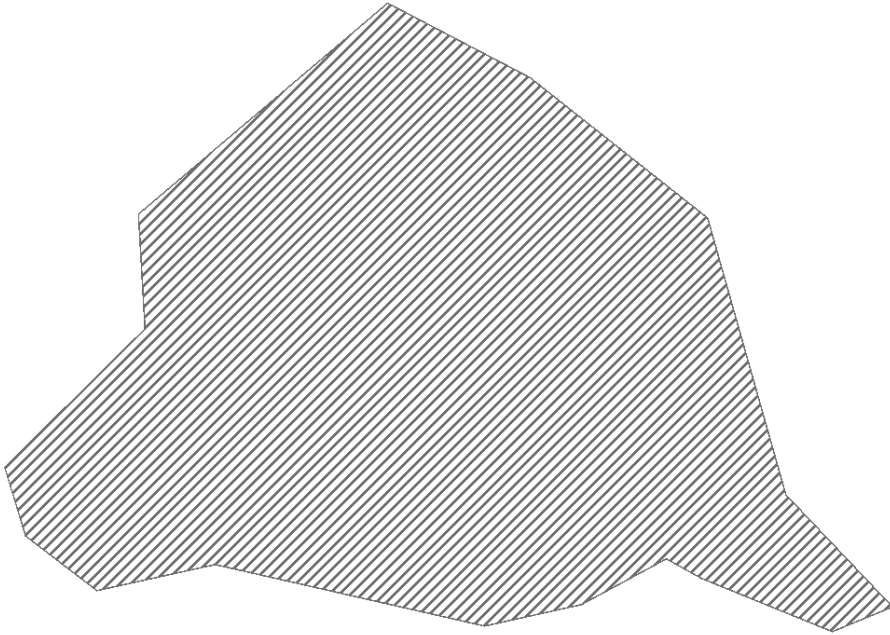


**P07/183 Kiriopuni Station Road  
Covenant**



**Habitat type**

-  Forest
-  Shrubland
-  Wetland



## GREENHILL ROAD SHRUBLAND

**Survey no.** P08/003  
**Survey date** 7 May 1999  
**Grid reference** 1699267E 6002940N (AY29)  
**Area** 15.4 ha  
**Altitude** < 20-0 m a.s.l.

### **Ecological unit**

- (a) Kānuka/mānuka shrubland on gentle hillslope
- (b) Kānuka/mānuka-tōtara shrubland on gentle hillslope

### **Landform/geology**

Hillslopes of Mangakahia Complex sandstone/mudstone.

### **Vegetation**

In 1999 this site was mapped as being 19.4 ha. 2008 aerial photography shows that an area in the northeast of the site was cleared.

Only a limited view of this site was obtained.

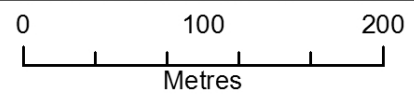
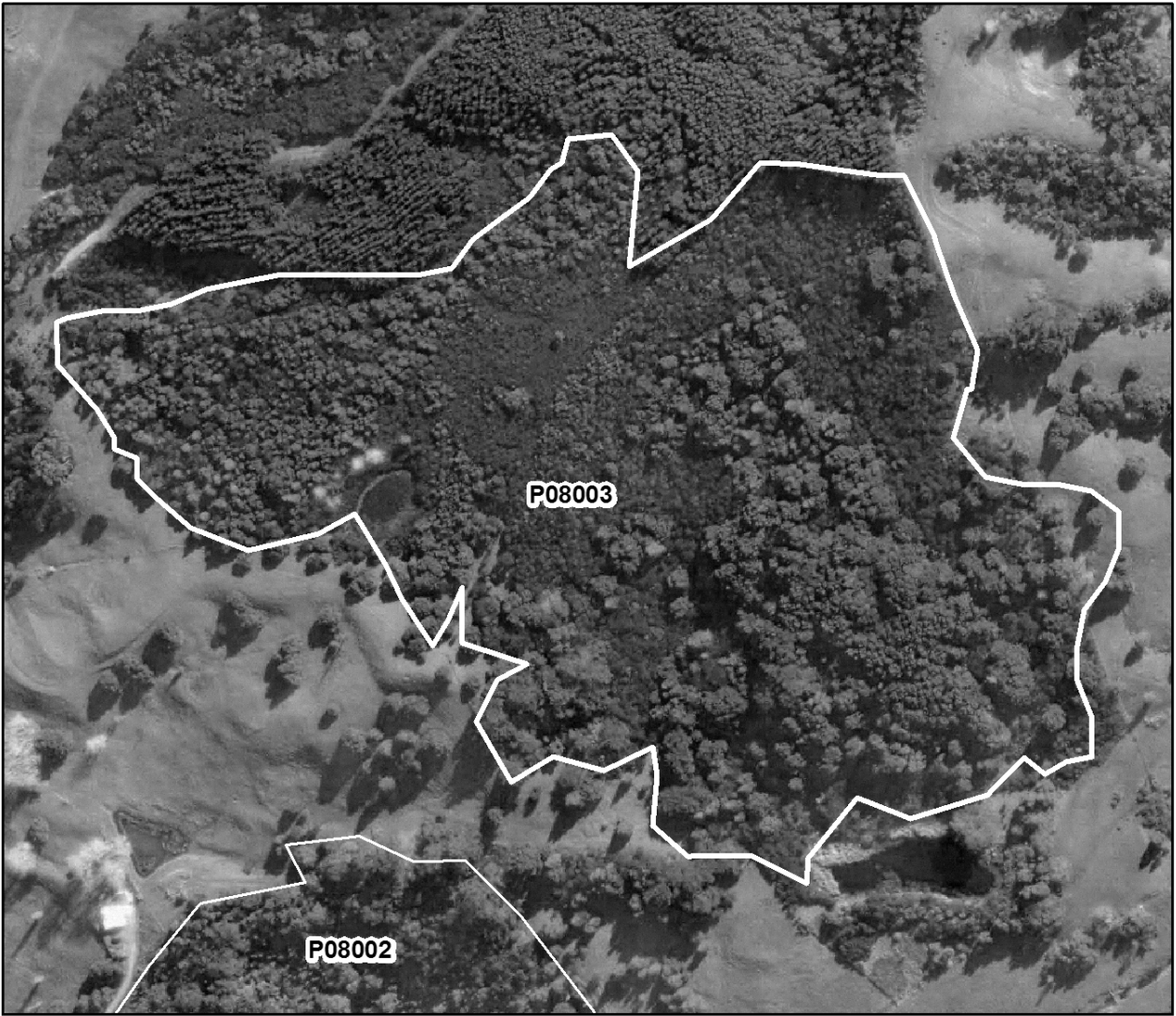
- (a) Kānuka/mānuka shrubland is abundant with occasional tōtara and *Acacia* species.
- (b) Kānuka/mānuka with tōtara is common in a smaller area. Rimu, tānekaha, pūriri, kauri and some pockets of kahikatea are present.

### **Fauna**

None noted.

### **Significance**

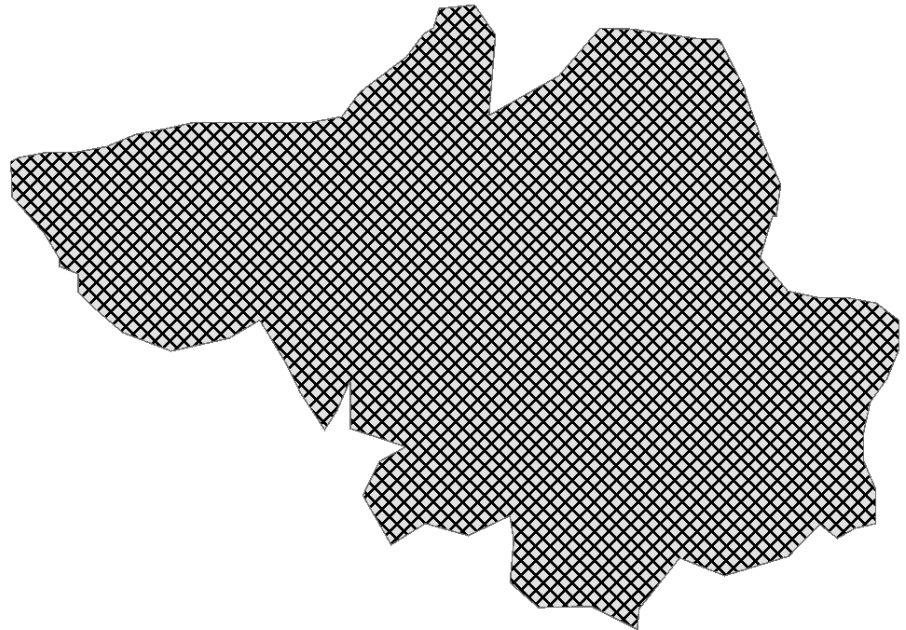
A shrubland remnant within a very modified Ecological District. Shrubland areas can be important habitat for species such as kiwi, lizards and orchids. This site occurs within a 'Critically Underprotected' land environment (A6.1a) (Walker et al. 2007).



### P08/003 Greenhill Road Shrubland

#### Habitat type

-  Forest
-  Shrubland
-  Wetland





## OPARAKAU ROAD SHRUBLAND

<b>Survey no.</b>	P08/005
<b>Survey date</b>	7 May 1999
<b>Grid reference</b>	1698560E 6007889N (AY29)
<b>Area</b>	9.9 ha, 2 remnants (0.9 ha forest, 9 ha shrubland)
<b>Altitude</b>	40-100 m a.s.l.

### **Ecological unit**

- (a) Kānuka/mānuka shrubland on moderate hillslope
- (b) Undescribed forest on moderate hillslope

### **Landform/geology**

Hillslopes of Mangakahia Complex mudstone.

### **Vegetation**

This site has radically changed since it was surveyed in 1999. In 1999, the site was mapped as being 38.7 ha, 90% of which was kānuka/mānuka shrubland. 2008 aerial photography shows that this site has reduced by around 28 ha.

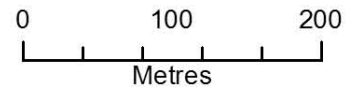
- (a) Probably kānuka/mānuka shrubland.
- (b) The forest type in the small northeastern remnant is unknown, as it could not be seen from the road.

### **Fauna**

None noted.

### **Significance**

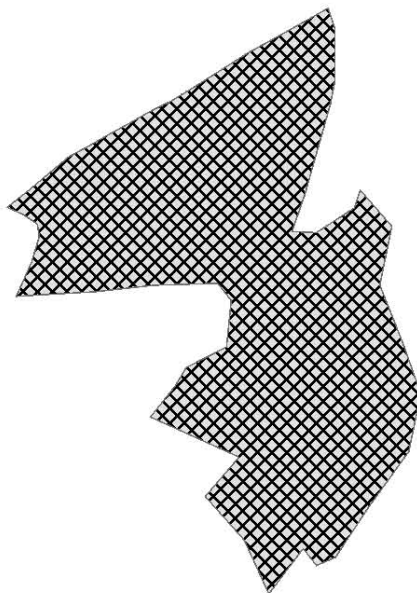
In 1999, this remnant met Level 1 criteria and was described as the largest (at 38.7 ha) and best shrubland habitat in the immediate area. However, since then, the site has been greatly reduced in size (by 75%) to 9.9 ha and, as a consequence, has been relegated Level 2 status. The site occurs within an 'At Risk' land environment (A6.1b) (Walker et al. 2007).



### P08/005 Oparakau Road Shrubland

#### Habitat type

-  Forest
-  Shrubland
-  Wetland



## MAHENO REMNANTS

<b>Survey no.</b>	P08/006
<b>Survey date</b>	19 May 1999
<b>Grid reference</b>	1696569E 6007273N (AY29)
<b>Area</b>	20.8 ha, 5 remnants
<b>Altitude</b>	< 40-139 m a.s.l.

### **Ecological unit**

- (a) Nīkau-taraire forest on moderate hillslope
- (b) Taraire forest on moderate hillslope
- (c) Nīkau-pūriri forest on moderate hillslope
- (d) Pūriri-taraire forest on moderate hillslope

### **Landform/geology**

Hillslopes of Motatau Complex muddy limestone.

### **Vegetation**

The following ecological unit descriptions have been labelled (1), (2), (3) etc. with the site map labelled accordingly to show where the described sites occur.

(1)

(a) The northern remnant contains a discontinuous canopy of common nīkau and taraire. Pūriri is frequent. Several species occur occasionally including tītoki, pukatea, kōwhai, tōtara, tī kōuka and puka. This remnant contains grassy patches.

(2)

(b) In 1999 there was a poor view of this remnant. It appears that taraire is common and pūriri frequent (20%). Nīkau and kānuka/mānuka are also present.

(3)

(c) A discontinuous canopy of nīkau and pūriri occur in the neighbouring remnant, east of this. Here tōtara is frequent and taraire, rewarewa, kōwhai, puka and tī kōuka are occasional. This remnant contains grassy patches.

(4)

To the south, the western side of remnant (4) is discontinuous and is defined by nīkau and taraire, type (a), with frequent pūriri. Karaka and tōtara occur occasionally.

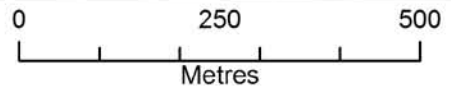
(d) The eastern side of remnant (4) contains common pūriri and taraire. Tōtara is frequent and emergent kauri, kahikatea, rewarewa, nīkau, tī kōuka and puka are occasional.

(5)

Remnant (5) was not surveyed.




### **Fauna**

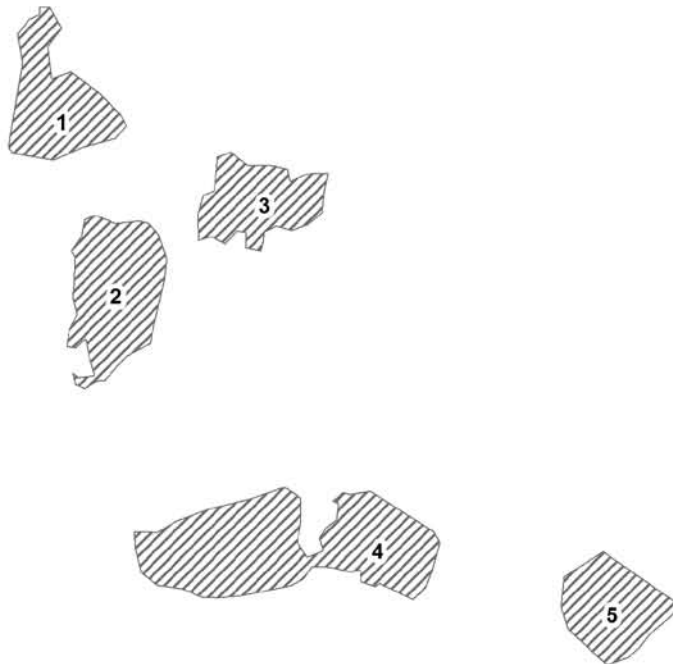
None noted.



### P08/006 Maheno Remnants

#### Habitat type

-  Forest
-  Shrubland
-  Wetland



## Significance

A collection of small 'patchy' but unusual forest remnants located within a very modified area. Nīkau co-dominant forest, which is uncommon in the Tokatoka Ecological District and Northland generally, is a feature of these remnants. However, the remnants are small and discontinuous, limiting their significance. Approximately 18 ha of the site occurs within a 'Chronically Threatened' land environment (A6.1d) and 2.9 ha within an 'At Risk' land environment (A6.1b) (Walker et al. 2007).

## WAIKARAKA REMNANTS

<b>Survey no.</b>	P08/007
<b>Survey date</b>	12 May 1999
<b>Grid reference</b>	1695044E 6007855N (AY29)
<b>Area</b>	5.5 ha, 3 remnants
<b>Altitude</b>	<40-120 m a.s.l.

## Ecological unit

- (a) Taraire-pūriri forest on moderate hillslope
- (b) Nīkau-pūriri forest on the flat

## Landform/geology

Hillslope of Motatau Complex muddy limestone (upper site), and colluvial in valley (lower site).

## Vegetation

The following ecological unit descriptions have been labelled (1), (2), (3) with the site map labelled accordingly to show where the described areas occur.

(1)

(a) The hillside remnant adjacent to Rehia Road is dominated (100%) by abundant taraire with pūriri commonly occurring. Other species present include kahikatea, mataī, tītoki, pukatea, kōwhai, rewarewa and tī kōuka.

(2)

(b) This remnant is lowland forest with abundant nīkau and common pūriri. Kahikatea, taraire, pukatea, puka and tī kōuka are occasional.

(3)

Remnant (3) was not surveyed.

## Fauna

None noted.

## Significance

This site includes lowland forest and forest types which are a rare in this Ecological District and throughout Northland generally. However, the small size of these remnants limits their significance. The presence of taraire and pūriri provide an important year-round food source for the regionally significant kūkupa. This site occurs within a 'Chronically Threatened' land environment (A6.1d) (Walker et al. 2007).