

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE RECORD FORM (NZMS1)

NZAA NZMS 1 SITE NUMBER N18/ **223**

DATE VISITED 4 March 1986

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

SITE TYPE Pits
 SITE NAME: MAORI
 OTHER

Grid Reference

Easting

0 0 9

Northing

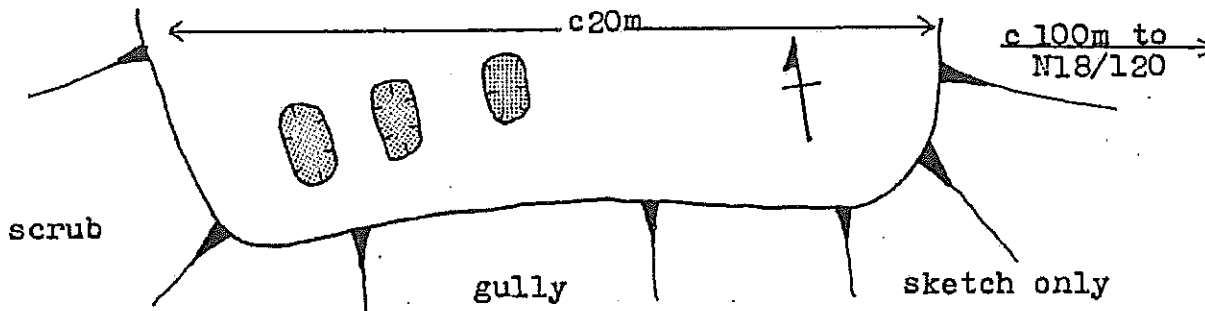
0 4 7

1. Aids to relocation of site (*attach a sketch map*) Waipoua State Forest 13, Compartment 14. Access via clay track off Lake Road (No. 26) which follows the boundary between Compartments 14 and 66. The site is on a small knoll overlooking a small gully, 100 metres east of the compartment boundary from where it makes a right angle turn opposite the Waipoua settlement.

2. State of site and possible future damage Poorly defined pits which are only just discernable. Planted in Pinus radiata 1965. Eventual damage from logging.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*)

Three pits all about 2x1m.



4. Owner
 Address NEW ZEALAND FOREST SERVICE
 WAIPOUA FOREST
 P.B. DARGAVILLE

Tenant/Manager
 Address

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visit by Richard Paniora and Peter Bristow.

Photographs (*reference numbers, and where they are held*)

Aerial photographs (*reference numbers, and clarity of site*)

6. Reported by MICHAEL TAYLOR
 Address P, O. BOX 3931
 AUCKLAND

Filekeeper
 Date *25/9/86*

7. Key words
 Waipoua, pits.

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE RECORD FORM (NZMS1)

NZMS 1 map number **N18**
 NZMS 1 map name **Waipoua**
 NZMS 1 map edition **3rd, 1975**

NZAA NZMS 1 SITE NUMBER **N18/224**
 DATE VISITED **4 March 1986**
 SITE TYPE **Find spot**
 SITE NAME: **MAORI**
OTHER

Grid Reference Easting

0	0	9
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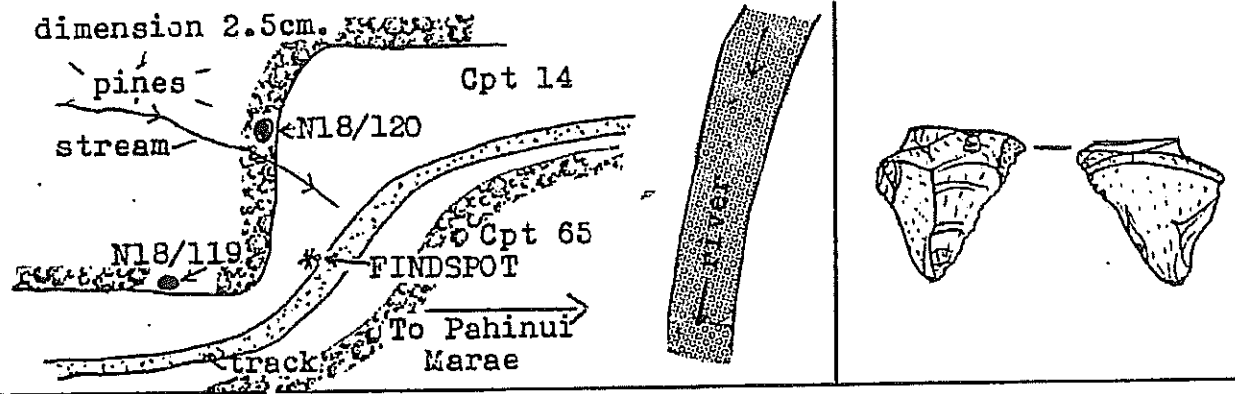
 Northing

0	4	5
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1. Aids to relocation of site (*attach a sketch map*) **Waipoua State Forest 13, Compartments 14 and 66. Access via Lake Road. Findspot was on the edge of the clay road that forms the boundary between Cpts 14 and 66, approximately equidistant between N18/119 and N18/120. See sketch plan.**

2. State of site and possible future damage **Bulldozed clay road.**

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) **Surface find of single obsidian flake, maximum dimension 2.5cm.**



4. Owner **NEW ZEALAND FOREST SERVICE** Tenant/Manager
 Address **WAIPOUA FOREST** Address
P.B. DARGAVILLE

5. Nature of information (*hearsay, brief or extended visit, etc.*) **Brief visit by Richard Paniora and Peter Bristow.**
 Photographs (*reference numbers; and where they are held*)
 Aerial photographs (*reference numbers, and clarity of site*)

6. Reported by **MICHAEL TAYLOR** Filekeeper
 Address **P, O. BOX 3931** Date *25/9/86*
AUCKLAND

7. Key words
Find spot, obsidian, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

<input type="checkbox"/>	Type of site	<input type="checkbox"/>	Present condition and future danger of destruction
<input type="checkbox"/>	Local environment today	<input type="checkbox"/>	Security code
<input type="checkbox"/>	Land classification	<input type="checkbox"/>	Local body

APPENDIX IV

Compartment 15 - new site records forms
and additional information sheets

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
NZMS 1 map name WAIPOUA
NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/233

DATE VISITED 21 January 1987

SITE TYPE Find spot

SITE NAME: MAORI
OTHER

Grid Reference

Easting

0	2	2
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Northing

0	6	0
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1. Aids to relocation of site (*attach a sketch map*) Waipoua Forest. Compartment 15. Access is via Papatea Road or Kaitieke Road. Find spot is located on the old pack-horse road between Papatea and Kaitieke Roads. It is below the skid next to N18/138. The find spot is 100m north along the road from the permanent post marking N18/180.

2. State of site and possible future damage The site will be included in the Waipoua Archaeological Reserve. However, the road is likely to continue in use for vehicle and machine access and movement.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*)

Three stone flakes were found on the surface of the road which dates at least to the historic gum-digging era. The flakes were all found on different locations but were picked up within 1m of each other. See diagram.

- 1. Yellow chert 2.93x1.54x1.17cm deep, 7.7gm weight
- 2. Red jasper 2.61x2.18x1.37cm deep, 9.7gm weight
- 3. Green obsidian 5.0x3.78x1.30cm deep, 17.8gm weight.

4. Owner
Address

Tenant/Manager
Address DEPARTMENT OF CONSERVATION
WAIPOUA FOREST
PRIVATE BAG
DARGAVILLE

5. Nature of information (*hearsay, brief or extended visit, etc.*)

Brief visits by Michael Taylor

Photographs (*reference numbers, and where they are held*)

Nil

Aerial photographs (*reference numbers, and clarity of site*)

6. Reported by Michael Taylor
Address DEPARTMENT OF CONSERVATION
WAIPOUA FOREST
PRIVATE BAG
DARGAVILLE

Filekeeper
Date *Michael Taylor*
9.2.88

7. Key words

Find spot, stone flakes, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)
NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

APPENDIX V

Kawerua and Waipoua Coast :
Compartments 23, 27, and 36

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number **N18**
 NZMS 1 map name **Waipoua**
 NZMS 1 map edition **3rd, 1975**

NZAA NZMS 1 SITE NUMBER **N18/219**
 DATE VISITED **25-3, 10-4-86**
 SITE TYPE **Midden/Find spot**
 SITE NAME: **MAORI**
OTHER

Grid Reference

Easting

9	4	5
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Northing

0	9	1
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1. Aids to relocation of site (*attach a sketch map*) **Waipoua State Forest 13, Compartment 36. See sketch. Access via Wairau Road (No.7), 400m along coastal dirt road found past Kararoa Road, but before No. 7 drops down to the Wairau River. The site is c5m from the SW end of the V-blading. The midden was in a V-bladed line 2m from the road.**

2. State of site and possible future damage **All visible signs of remains were disturbed by the bulldozed V-bladed line.**

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*)

See sketch

Concentration of shell, fire-cracked stones and charcoal turned over by V-blading covering an area of 2.0x1.6m.

The shell is crushed and fragmented and consists mainly of cats eyes. Other species present include black nerita, cooks turban, paua chiton, limpet, and white rock shell. Bone present includes fish, dog, and bird.

The matrix is a black sandy soil 5-10cm deep, underlaid by a consolidated sand pan.

A broken fragment of a tanged black argillite adze was picked up from the V-bladed spoil 4m NW of the midden.

Vegetation is low coastal scrub with macrocarpa.

4. Owner **N.Z. Forest Service**

Tenant/Manager

Address

Address

**Waipoua Forest
 Private Bag
 Dargaville**

5. Nature of information (*hearsay, brief or extended visit, etc.*) **Visits by Wiki Karena, Michael Taylor, Annetta Sutton and Michelle Horwood.**

Photographs (reference numbers, and where they are held) **Black & white and colour,**

held at the N.Z.F.S. Auckland office

Aerial photographs (reference numbers, and clarity of site)

6. Reported by **Michael Taylor**

Filekeeper

Address

Date

**P.O. Box 3931
 Auckland**

Michael Taylor
28/10/86

7. Key words

Waipoua, midden, find spot, adze

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
 SITE DESCRIPTION FORM

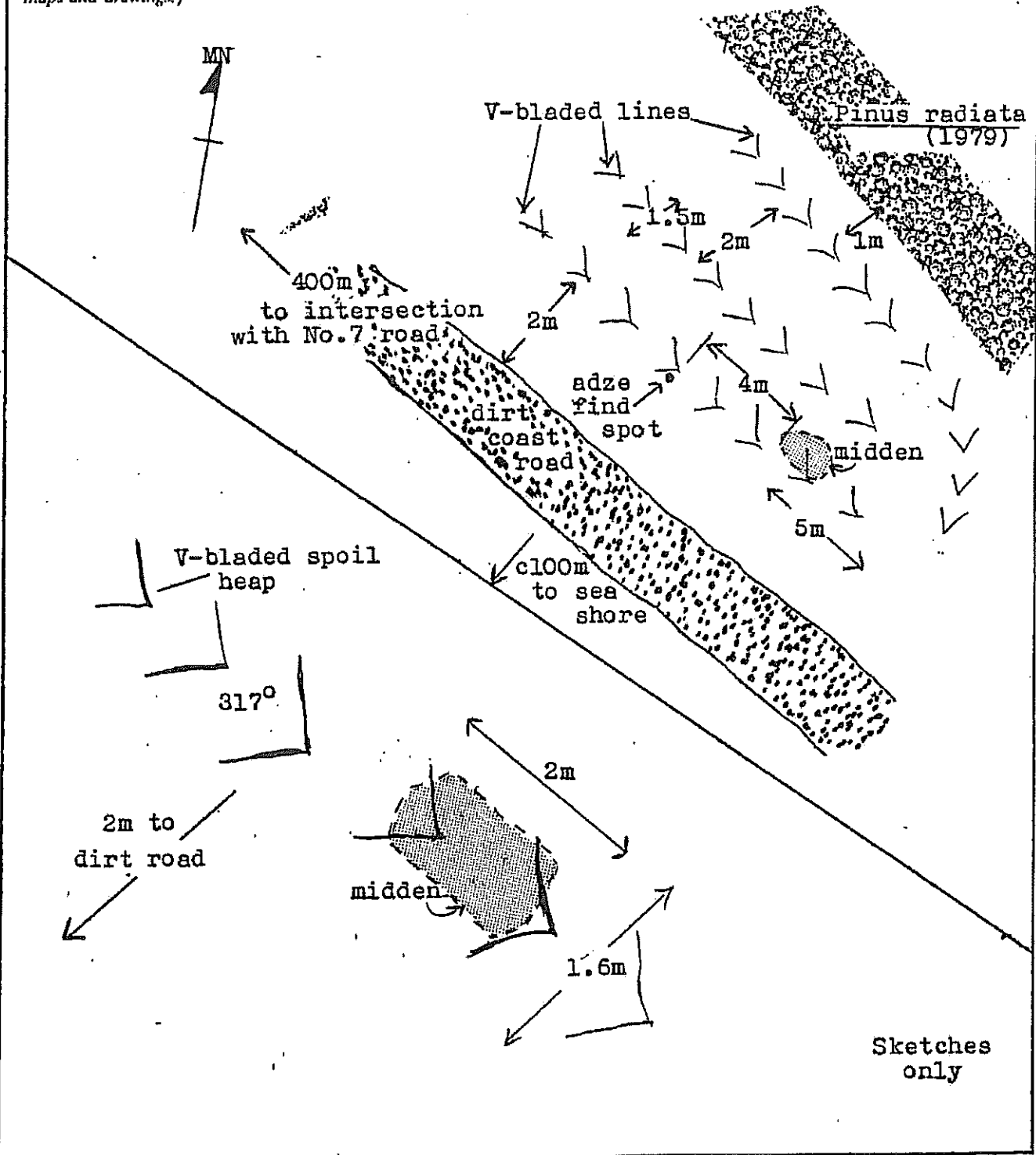
SITE NUMBER N18/ 219

Map Number N18
 Map Name Waipoua
 Map Edition 3rd, 1975
 Grid Reference 945-091

SITE NAME: MAORI
 OTHER

SITE TYPE Midden/Find spot

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)



SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/220
 DATE VISITED 25 March 1986
 SITE TYPE Find spot
 SITE NAME: MAORI
 OTHER

Grid Reference

Easting Northing

1. Aids to relocation of site (*attach a sketch map*) Waipoua State Forest 13, Compartment 36. About 500m NW of Waiotane Stream where the V-bladed shelter belt crosses the coastal 4-wheel drive track. Find spot located c5m on V-blading south of track. Both the V-bladed line and vehicle track are those closest to the coast. On seaward side of planted pine.

2. State of site and possible future damage Disturbed by bulldozed planting line.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) Find spot of 3 obsidian and 1 ?basalt flake.

All the obsidian is dark green and one shows cortex.

All were found in loose V-bladed sand on a substrate of hard pan. Some fragments of mussel shell were also present, but no other cultural remains were observed.

The area is in low coastal scrub with Cup. macrocarpa (1978) on the inland side. The V-bladed line has been planted with Norfolk pine, flax and other species.

See artefact sketches.

4. Owner N.Z. Forest Service
 Address Waipoua Forest
 Private Bag
 Dargaville

Tenant/Manager
 Address

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visit by Wiki Karena
 and Michael Taylor
 Photographs (*reference numbers, and where they are held*) Nil
 Aerial photographs (*reference numbers, and clarity of site*)

6. Reported by Michael Taylor
 Address P.O. Box 3931
 Auckland

Filekeeper
 Date

Stewart
 25/3/86

7. Key words

Waipoua, find spot; obsidian

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site

Local environment today

Land classification

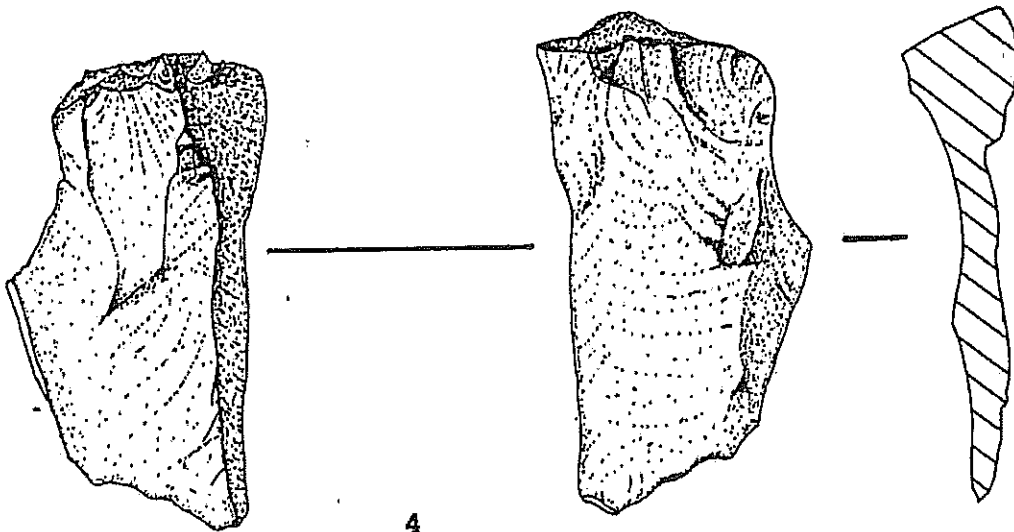
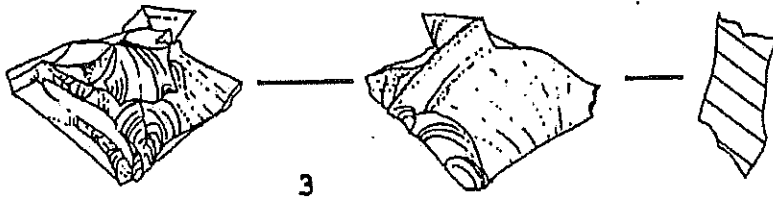
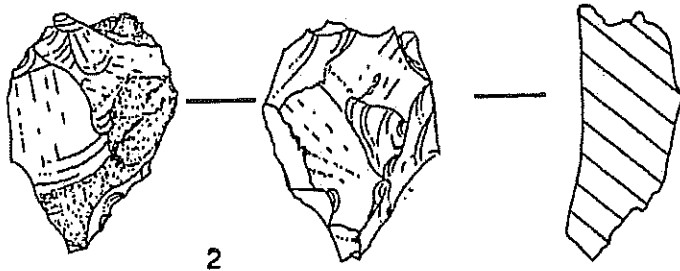
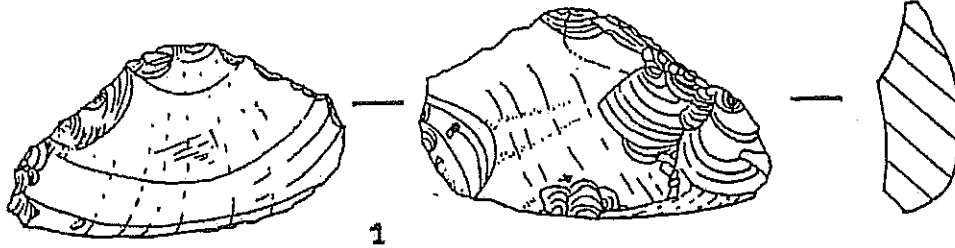
Present condition and future danger of destruction

Security code

Local body

Waipoua State Forest 13, stone flakes from N18/220.

Z



NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/221

DATE VISITED 10-3-86

SITE TYPE Midden

SITE NAME: MAORI
 OTHER

Grid Reference

Easting

9 6 5

Northing

0 5 7

1. Aids to relocation of site (*attach a sketch map*) Waipoua State Forest 13, Compartment 27. Kawerua Coast. South of Kawerua Road, on V-bladed shelter belt, c350m NW of Waiotane stream. It is situated at the back of a knoll 10m from the eastern edge of the pine (ie west of a scrub filled gully). It is c120m along the V-bladed track from the NW edge of the pine, where the V-blading starts at a fence by the Kawerua paddocks.

2. State of site and possible future damage Midden exposed by bulldozing and may be entirely disturbed. Area planted in Pinus pinaster 1950, and now replanted with shelter belt trees (Norfolk pines and others).

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) Sparse, fragmented shell scatter across the track covering an area of c4x3m. Possibly part of a larger site.

Species present include: mussels, paua, catseye, whelk, white rock shell, limpets, Dosinia.

Charcoal and firecracked rock are also present. A sparse scatter of shell and stone continues along V-blading to south for several metres.

Jim Cox (Forest foreman 1940-50s) told John Coster (See Auckland file) that hangi stones with lots of shell, dog bone and tuatara jaws were found at cGR 964-057 during the planting of P. pinaster.

4. Owner N.Z. Forest Service

Address

Waipoua Forest
 Private Bag

Dargaville

Tenant/Manager

Address

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visits by Michelle

Horwood, Michael Taylor and others.

Photographs (*reference numbers, and where they are held*)

Nil

Aerial photographs (*reference numbers, and clarity of site*)

Under thick pine

6. Reported by Michael Taylor

Address

P.O. Box 3931
 Auckland

Filekeeper

Date

Michael Taylor
 25/9/86

7. Key words

Waipoua, Kawerua, midden

8. New Zealand Register of Archaeological Sites (*for office use*)

NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/222
 DATE VISITED 10 March 1986
 SITE TYPE Midden
 SITE NAME: MAORI
 OTHER

Grid Reference

Easting

9 6 7

Northing

0 5 4

1. Aids to relocation of site (*attach a sketch map*) Waipoua State Forest 13, Compartment 27.
 Access is via the coastal track that runs south from Kawerua. On a V-bladed shelter belt c60-80m NW of Waiotane Stream, and c100m from the coast. It is located at the crest of a ridge 25m before V-blading descends to the south and ends in a gully. It is about 400m SE along the track from the Kawerua paddocks where the pine begins.

2. State of site and possible future damage Disturbed by a bulldozed line which has been V-bladed and planted in Norfolk pine, flax and other species.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*)

Small amount of shell and fire-cracked rock which covers an area of about 2.5x1.0m. The fragmentary shell included at least 7 cats eyes and some paua.

Other evidence may remain buried.

Vegetation is stunted Pinus pinaster and scrub.

4. Owner N.Z. Forest Service Tenant/Manager
 Address Waipoua Forest Address
 Private Bag
 Dargaville

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visits by Michelle
 Horwood, Michael Taylor, Wiki Karena & Annetta Sutton.
 Photographs (*reference numbers, and where they are held*)
 Nil
 Aerial photographs (*reference numbers, and clarity of site*)

6. Reported by Michael Taylor
 Address P.O. Box 3931
 Auckland

Filekeeper
 Date

Michelle
 20/9/86

7. Key words

Waipoua, midden, Kawerua

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

Extracts from the WAIPOUA FOREST JOURNAL 1952* regarding Kawerua

18 April 1952 Compass survey of Waikoutu section (Maori fishing Reserve of 3.5 acres). Carried out to demark the boundaries.

28 September 1952 A discussion with Mr A. Paniora of the Waipoua Native Settlement, on the possibility of setting aside certain coastal land at Kawerua as a Wahitapu took place at Kawerua.

According to Mr. Paniora important ancestors of the present people at Waipoua first landed at a certain point on the coast. In addition Mr Paniora pointed out places where there had been some settlement by very early Maoris and also the position of burial caves now blocked by sand.

The land in question would not exceed 10 acres of coastal land which would be of nil value to the Forest Service.

It was pointed out to Mr Paniora that his proposal would be put forward through the correct channels provided that there would be no restrictions or alterations required to existing Forest Service property ie the Patrolmans lookout hut and a portion of the telephone line to this building.

Mr Paniora favoured an idea of handing over to the Forest Service all section 1, Block 1, Waipoua S.D. (Koutu Maori Fishing Reserve of 3½ acres) excepting the coastal margin of approximately 1 acre. This section would benefit the Forest Service as a road and/or firebreak could then be readily constructed from the Kawerua buildings to an area of sand approximately 60 chains to the southwest. This would in effect act as a protection line against fire as well as allowing additional access.

It was left to Mr Paniora to interview his people on these proposals. On receipt of a decision formal representations will be put in train on the question of this setting-aside and return of land.

* FOREST JOURNALS for Waipoua Forest are held at the forest headquarters. The entry was made by Mr F.T. Morrison who was then the forest O/C.

APPENDIX VI

Compartment 58 - Kauri Management

APPENDIX VI: Compartment 58 kauri management
(from Forester 1985).

COMPARTMENT 58

YEAR	1950	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	TOTAL
planting (ha)	4.5	2.0	2.0	1.0	1.0	5.0	4.0	6.5	4.5	4.0	3.0	37.5

Details (numbering refers to numbers on Map 5)

1. 1950 - 4.5 ha planted in kauri. Four lines fertilised with blood and bone in 1958.
2. 1955 - 2 ha planted with kauri in lines (6m x 3m) under scrub. Large broadleaf trees ringbarked in half of the area.
3. 1956 - 2 ha planted with kauri in lines (6m x 3m) large broadleaf trees ringbarked and poisoned. Also two special fertiliser plots set up and groups of totara (Podocarpus totara), kawaka (Libocedrus plumosa), rewarewa (Knightia excelsa) and kauri planted. Other species including taraire (Beilschmiëdia tarairi) and tanekaha (Phyllocladus trichomanoides) planted.

Natural regeneration in the north also released.
4. 1957 - 1 ha clearfelled and burnt. Line planted with kauri at 5.5 x 2.4 m spacing using potted stock. 0.8 ha planted with Eucalyptus spp. planted in alternate rows in west (area under 1964 plantings - No. 1) Also plots of Agathis australis planted

in small 0.4 ha area to west (under 1964 plantings
- No. 16)

5. 1958 - 1 ha clear felled, burnt and line planted in Agathis australis at 5.5 x 2.2 m spacing using potted and bare rooted stock. Also lines of root pruning trial.
6. 1959 - 2.4 ha planted with groups of Agathis australis, Phyllocladus trichomanoides (Tanekaha) and Nothofagus spp. (beech) mostly using 2.4 m spacing. Also a small area of regeneration plots put in.
7. 2.0 ha clear felled and partly burnt. Lines of Agathis australis planted.
8. 0.6 ha strip clearfelled and burnt. Four rows planted in Agathis australis. Small area at south end of strip pre-pitted and planted in 1959 and 1960.
9. 1960 - 3.5 ha area of underscrubbed area planted with Agathis australis in lines. Plots of Nothofagus (beech) in northwest corner and five plots planted in lines in 1959 using potted Agathis australis. Two plots testing summer and winter planting in January and May 1960.
10. 0.4 ha clearfelled in a strip and planted in two rows of kauri one chain wide and also lines of kauri/tanekaha and kauri/beech.
11. 1961 - 5.7 ha planted in groups under broadleaf forest. Contains grafted kauri as centre tree in each plot. Various fertilisers applied at time of planting.
12. 0.4 ha of kauri planted in two rows in a one chain wide clearfelled strip.
13. 0.4 ha of kauri planted as part of a "Mora tree feed" experiment.

14. 1962 - 4.5 ha of kauri planted in groups in broadleaf forest. Contains grafted kauri planted as cente tree in each plot. Fertilised.
15. 1963 - 4.0 ha of kauri planted.
16. 1964 - 2.0 ha of kauri interplanted in groups under hardwood forest.
17. - 1.0 ha of kauri interplanted in groups under hardwood forest.

Waipoua Sanctuary Boundary

River

Waipoua

5

58

No 22

ROAD

Ag. aust. 5.7ha 1961 (11)
Ag. aust. 0.6ha 1959 (12)
Ag. aust. 0.9ha 1961 (13)
Ag. aust. 0.4ha 1960 (14)
M. 5660 W

Ag. aust. 5.7ha 1961 (11)

Ag. aust. 3.6ha 1960 (9)

Ag. aust. 4ha 1950 (1)

Ag. aust. 4.5ha 1962 (14)

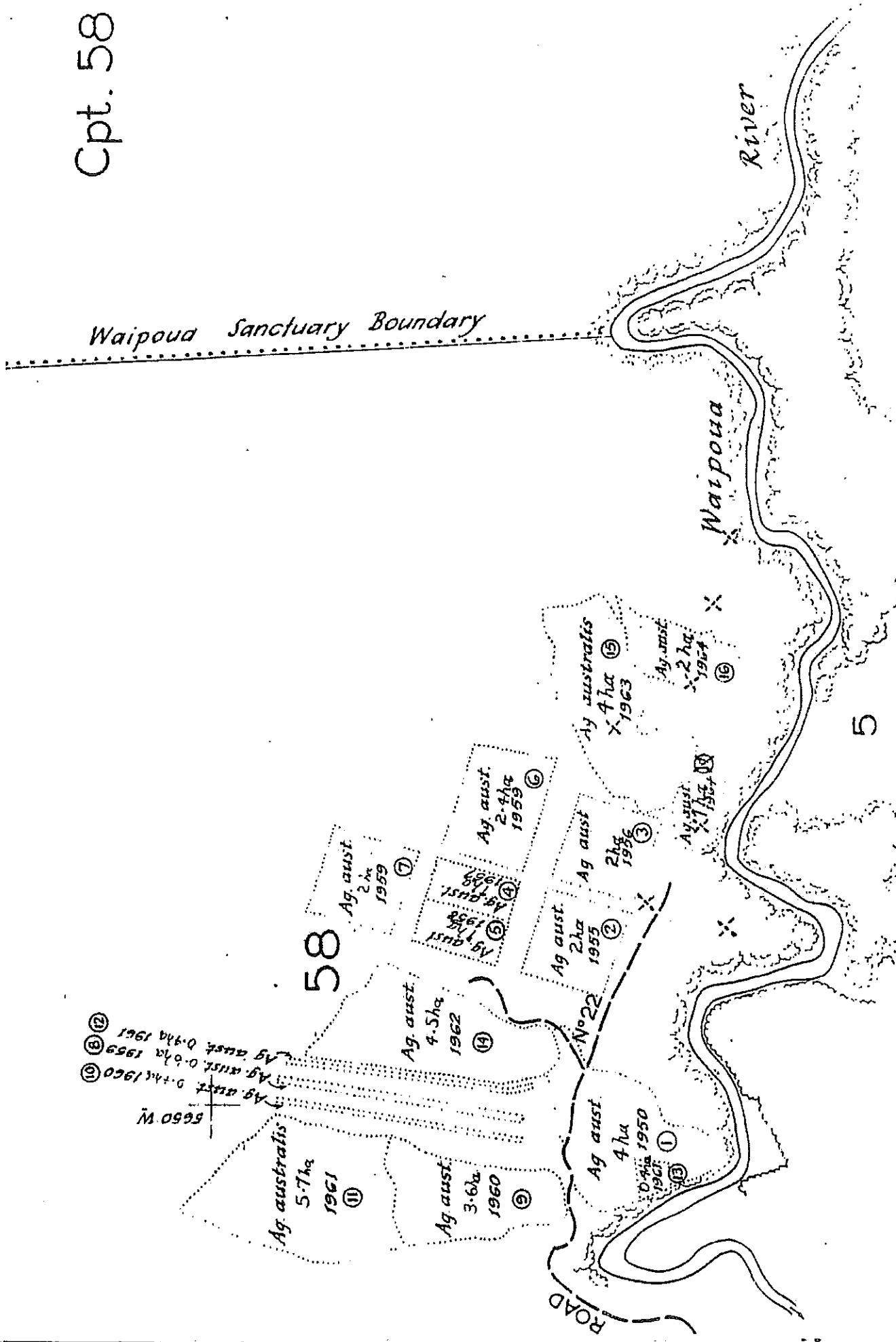
Ag. aust. 2ha 1955 (2)

Ag. aust. 2ha 1956 (3)

Ag. aust. 2.4ha 1959 (6)

Ag. australis 4ha 1963 (15)

Ag. aust. 2ha 1964 (16)



APPENDIX VII

Compartment 58 - new site record forms
and additional information sheets

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

Map Number N18
Map Name WAIPOUA
Map Edition 3rd, 1975
Grid Reference 059-035

SITE NUMBER N18/147

SITE NAME: MAORI
OTHER

SITE TYPE PITS

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

This site consists of a series of 10 clear pits running down a north-south spur about 70m north of the Waipoua River edge. See site plan.

It is situated about 14m west of N18/148 across a steep gully. See N18/148 site record updates and plan.

Note grid reference correction. Also the directions to North and N18/148 on the original site plan are confused and should be disregarded.

The site is planted in Eucalyptus species.

The last pit (1) is about 15m southeast of possum line marker No. 42.

An area of stone heaps occurs northwest of the site further up the ridge.

Further down the ridge on which N18/147 is located, close to the river, are two pits, N18/214.

The site was marked with a permanent tanned post bearing a metal tag with the NZAA site number on 18 March 1986 (See plan).

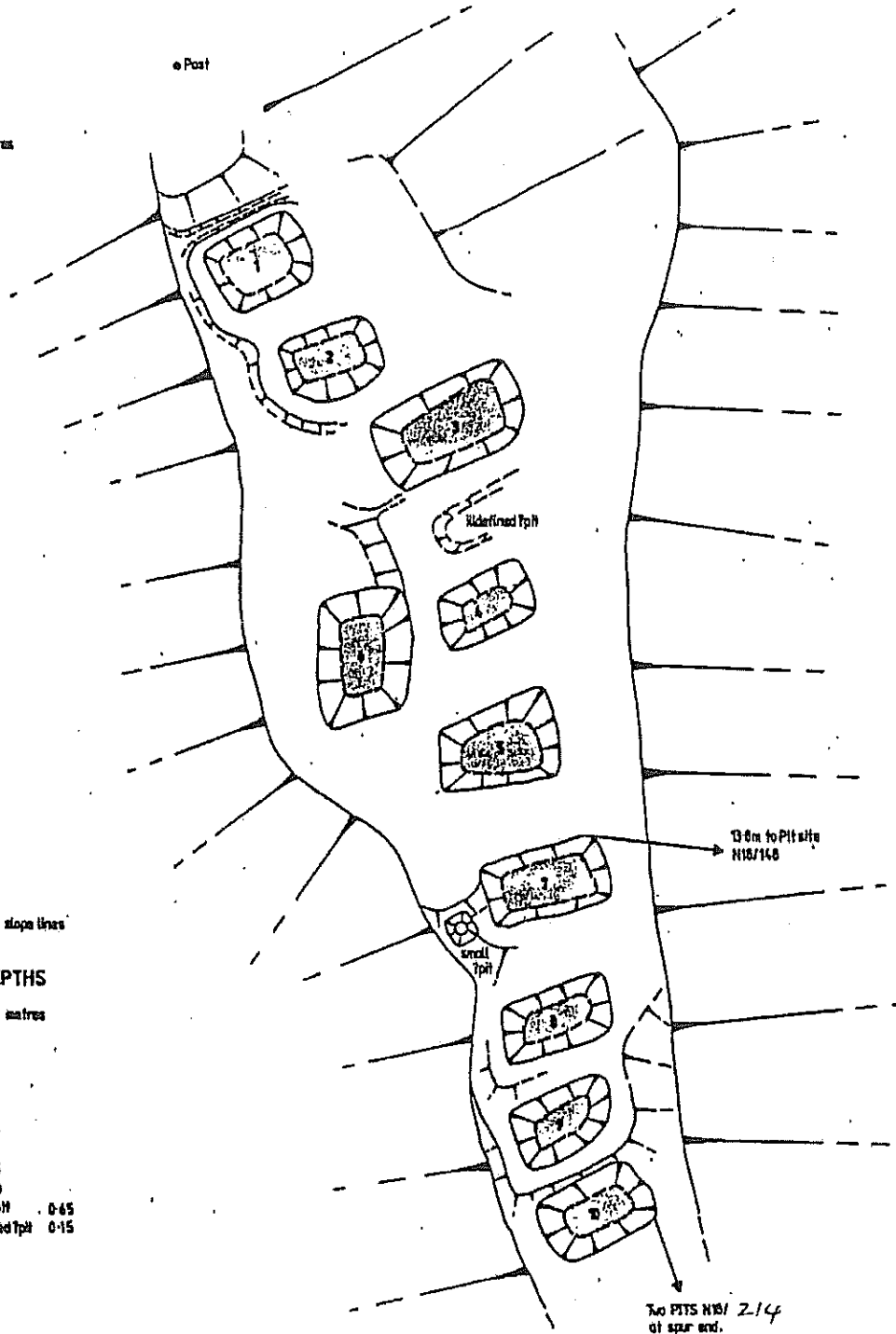
M. Taylor


24-3-86

WAIPOUA S.F.13
 CPT. 58
 SITE N18/147
 PITS



Post



KEY
 slope lines

PIT DEPTHS

- 1 0-35 metres
- 2 0-95
- 3 0-60
- 4 0-85
- 5 1-20
- 6 0-80
- 7 0-65
- 8 1-0
- 9 0-75
- 10 0-90
- small Pit 0-65
- Undefined Pit 0-15

Topo and compass survey by W. Karens
 H. Horwood and A. Sulton 19-3-86.
 Drawn by A. Sulton 15-7-86.

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

SITE NUMBER N18/148

Map Number N18
Map Name WAIPOUA
Map Edition 3rd, 1975
Grid Reference 086-059

SITE NAME: MAORI
OTHER

SITE TYPE PITS

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

A series of well defined pits located on a small ridge about 14m east of N 18/147. The sites are separated by a steep stream gully. The site was visited on 28 January and 18 March 1986.

Note grid reference correction.

From N18/148 to N18/151 is 90m at 92° (see plan). N18/151 is at a higher level.

Possum line marker No. 45 is about 12m at 65° from the post marking N18/148.

Eucalyptus species are planted on the southwest end of the site.

Two groups of stone heaps are located in the gully further towards the river.

A permanent tanalised post bearing a metal tag with the NZAA site number was placed on the site on 18 March 1986.

M. Taylor

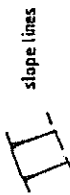
24-3-86

CPT. 58
SITE N18/148
PITS



Post
17.5 m to opposite
survey line
89.7 m to Pit/terrace
site N18/151

KEY



baton for free sample plot
No. 61



PIT DEPTHS

1	1.0	metre
2	0.6	
3	0.6	
4	1.1	
5	0.9	
6	0.9	
7	0.85	
8	0.95	
9	0.3	

depression
drain

7 m across gully to
stone heaps

13.8 m to Pit site
N18/147

Tape and compass survey by W. Karena,
M. Harwood and R. Nichols 18/3/86.
Drawn by A. Sutton 10/6/86.

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

Map Number N18
Map Name WAIPOUA
Map Edition 3rd, 1975
Grid Reference 086-060

SITE NUMBER N18/151

SITE NAME: MAORI
OTHER

SITE TYPE PITS

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

A new plan of this site was prepared in 1986 (see plan).

This site was chosen to be used as a central point from which the position of other sites in the vicinity could be fixed.

The site is located in large kanuka on the 3rd terrace level above the river. It is about 350m from the river.

The site is located on the possum sample line which is marked with blue plastic tape. Trap locations on the sample line are marked with white metal tags with red numbers. N18/151 is located between numbers 48 and 49.

One permanent tanalised post with a metal tage showing the site number was placed in position on the site on 18-3-86.

Vegetation: Main canopy trees- kanuka/manuka
Middle- mapou, fern trees, totara
Lower- coprosma, mapou, fern, etc.

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

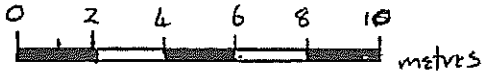
SITE NUMBER N18/151

Map Number N18
Map Name Waipoua
Map Edition 3rd 1975
Grid Reference 036-060

SITE NAME: MAORI
OTHER

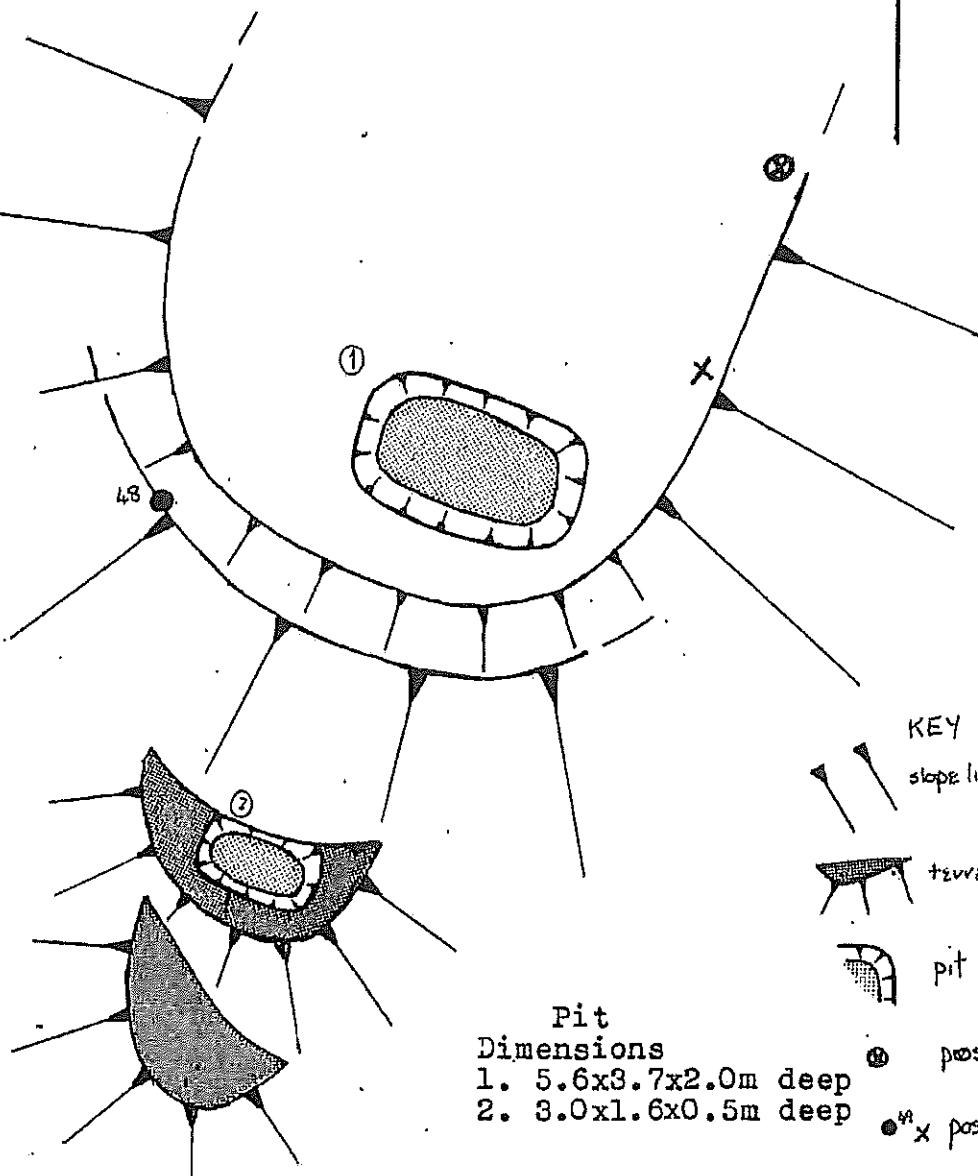
SITE TYPE Pits

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

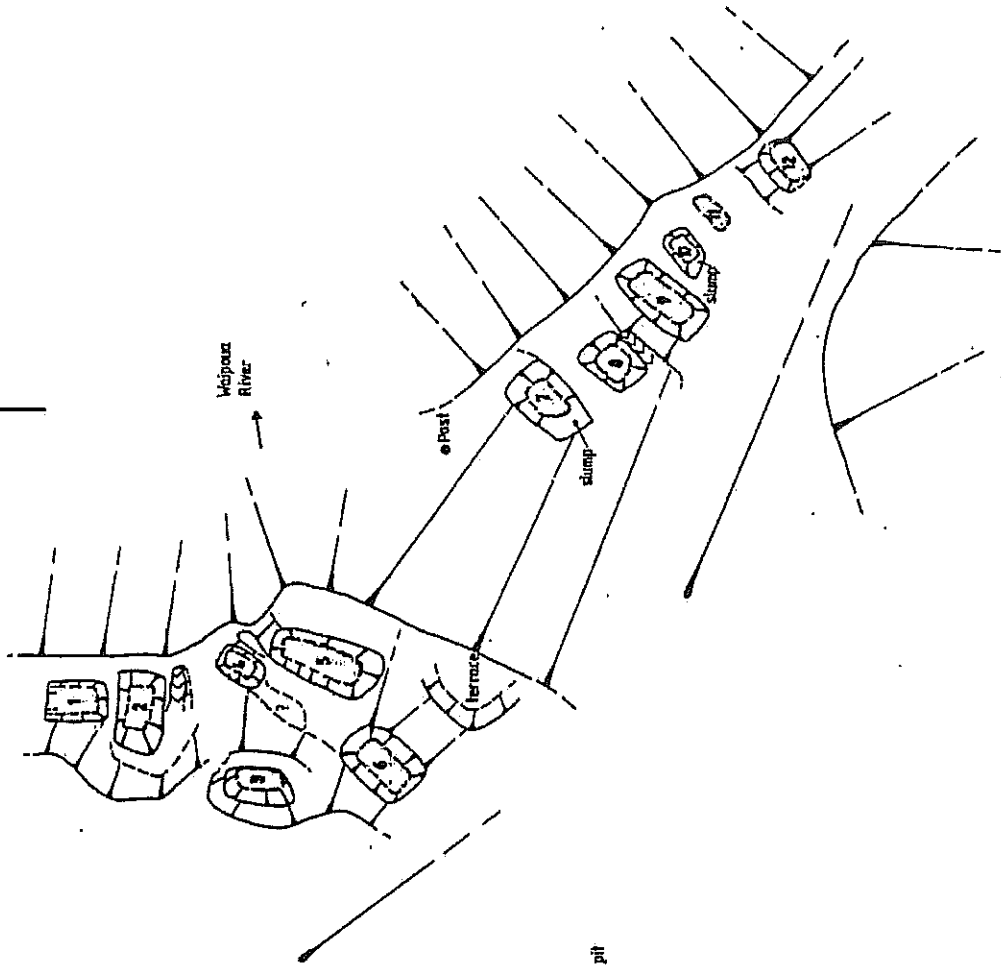


M N

49 ●



WAIPOUA S.E. 13
 CPT. 58
 SITE N18/152
 PITS



KEY
 // slopes
 - - - possible infilled pit
 - - - bank / pit rim

PIT DEPTHS

Pit No.	Depth (m)
1	0.55
2	0.90
3	0.25
4	0.25
5	1.00
6	0.40
7	0.80
8	0.40
9	0.70
10	0.30
11	undefined
12	0.20

Tape and compass survey by
 W. Karera, M. Horwood and
 A. Sullivan 14-3-86.
 Drawn by A. Sullivan 28-7-86.

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number **N18**
NZMS 1 map name **Waipoua**
NZMS 1 map edition **3rd, 1975**

NZAA NZMS 1 SITE NUMBER **N18/205**
DATE VISITED **17, 24-1-86, 17-3-86**
SITE TYPE **Pits, terrace & stone**
SITE NAME: **MAORI heap**
OTHER

Grid Reference Easting

0	3	6
---	---	---

 Northing

0	5	9	.5
---	---	---	----

1. Aids to relocation of site (*attach a sketch map*) **Waipoua State Forest, Compartment 58**
Approximately 650 m west of Kauri Sanctuary boundary. Located on south edge of an old river terrace that drops steeply to the river. N18/152 is on the same level (85m asl), and is 74m NE from post to post. N18/151 is at 330° at 110 paces. See SRF for N18/151 for map.

2. State of site and possible future damage **Well defined features, in open manuka bush. Location is remote. Pigs may cause damage.**

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) **See site plan. The site consists of 7 pits, 1 stone heap and 1 terrace. There is also 1 slight depression which is perhaps a pit. From pit 1 to pit 7 is 15m. The stone heap is 8.5m NW from pit 1. It measures 2.0m in diameter and is 0.55m high.**
The vegetation consists mainly of very large kanuka, with tree ferns, mapou, totara, kohekohe, and tawa.
The site was permanently marked with a tanalised fence post on 22-4-86.
Pit dimensions: 1. 3x2m, 0.5m deep. 2. 2x1.5m, 0.3m deep. 3. 4.7x3m 0.6m deep. 4. 5x3m, 0.75m deep. 5. 3x2m, 0.1m deep, 6. 4x3.5m, 0.5m deep. 7. 3.2x2.2m, 0.4m deep.

4. Owner **NEW ZEALAND FOREST SERVICE** Tenant/Manager
Address **WAIPOUA FOREST** Address
P.B. DARGAVILLE

5. Nature of information (*hearsay, brief or extended visit, etc.*) **Extended visits by W. Karena, P. Bristow, M. Taylor and M. Horwood.**
Photographs (reference numbers, and where they are held)
Nil
Aerial photographs (reference numbers, and clarity of site)
Under thick bush

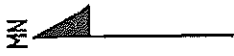
6. Reported by **MICHAEL TAYLOR** Filekeeper
Address **P, O. BOX 3931** Date **28/9/86**
AUCKLAND

7. Key words
pits, terrace, stone heap, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)
NZHPT Site Field Code

<table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>							Type of site	<table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>							Present condition and future danger of destruction
<table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>							Local environment today	<table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>							Security code
<table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>							Land classification	<table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>							Local body

WAIPOUA S.F.13
 CPT.58
 SITE N18/205
 PITTS



110 paces to site N18/151 pits
 and opposite survey line tag No.49

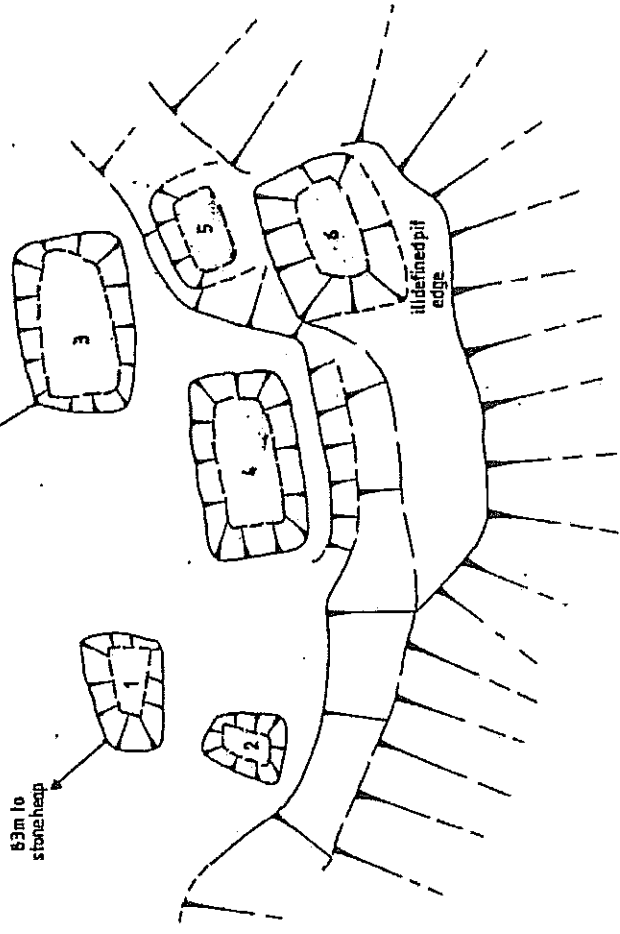
83m to
 stoneheap



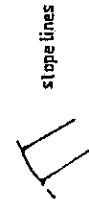
outlying pit, 15m
 from main complex



24.1m to Terrace/hearth
 site N18/207



KEY



Pit Depths

- 1 0.5 metres
- 2 0.3
- 3 ca. 0.6 water filled
- 4 0.75
- 5 0.1
- 6 ca. 0.5 water filled
- 7 0.4 outlier

Tape and compass survey by
 W. Karena and H. Harwood 17-3-86.
 Drawn by A. Sullivan 9-6-86.

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/206
 DATE VISITED 17-3-86, 22-4-86
 SITE TYPE Pits and terraces
 SITE NAME: MAORI
 OTHER

Grid Reference

Easting

0	3	7
---	---	---

Northing

0	6	3
---	---	---

1. Aids to relocation of site (*attach a sketch map*) Waipoua State Forest 13, Compartment 58
 See location plan with N18/151. Pits are on 4th level (at 145m asl), and approximately 500m from the river. The pits are on the edge of a flat which drops steeply down to a gully, where about 40m to ESE is situated site N18/. The site is NW and about 200m from N18/151. It is up a steep bush covered slope from N18/151.

2. State of site and possible future damage The pits are well preserved in thick broad-leaf forest, with dense supplejack in parts. The location is remote and future human interference is unlikely.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) See site plan. The site consists of 10, open, rectangular pits, on two levels, that curve around a spur end. A striking earth "wall" is present between pits 1 and 3, and pits 2 and 4 (See profile). See description form for pit dimensions. A drain 7m west of pit 1 runs south over the steep edge of the spur.

Vegetation is thick broadleaf forest with totara, kahikatea, nikau, fern trees, and supplejack. The understorey trees have been cut during kauri management trials, and the site is marked with plot battens 203, 208 and 218.

A permanent tanalised fence post was placed on the site on the 22-4-86.

4. Owner
 Address NEW ZEALAND FOREST SERVICE
 WAIPOUA FOREST
 P.B. DARGAVILLE

Tenant/Manager
 Address

5. Nature of information (*hearsay, brief or extended visit, etc.*) Reconnaissance visit followed by detailed tape and compass mapping of the site.
 Photographs (*reference numbers, and where they are held*)

Nil

Aerial photographs (*reference numbers, and clarity of site*)

Under dense bush

6. Reported by MICHAEL TAYLOR
 Address P, O. BOX 3931
 AUCKLAND

Filekeeper
 Date *Adrian*
 28/9/86

7. Key words

Pits, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site

Local environment today

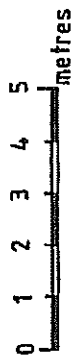
Land classification

Present condition and future danger of destruction

Security code

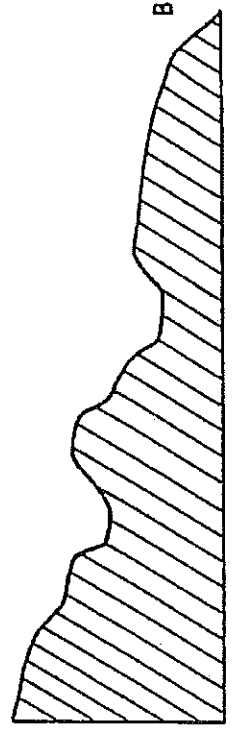
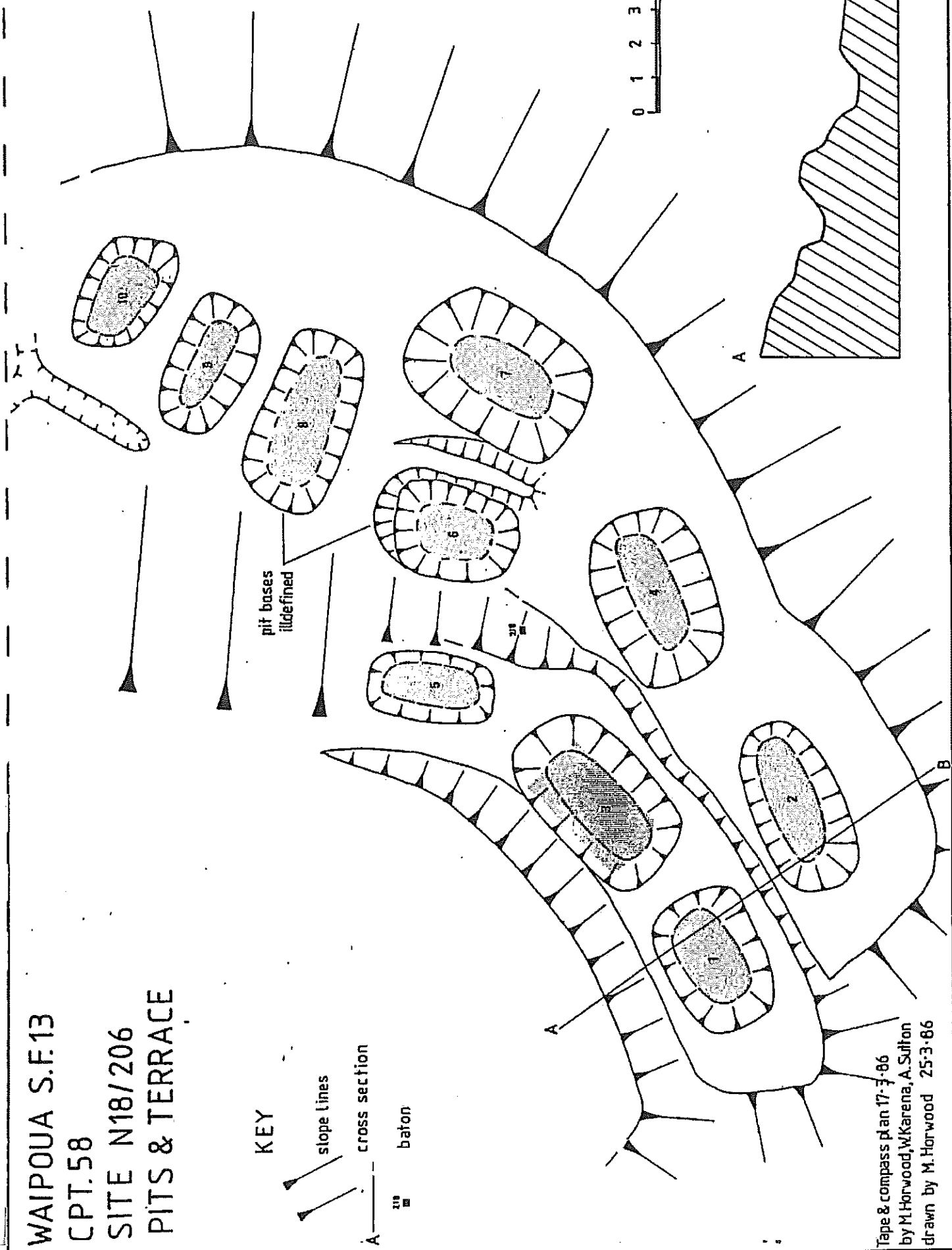
Local body

WAIPOUA S.F.13
CPT.58
SITE N18/206
PITS & TERRACE



KEY
 slope lines
 cross section
 baton

pit bases
 illdefined



Tape & compass plan 17.7.86
 by M.Horwood, W.Karena, A.Sulton
 drawn by M.Horwood 25.3.86

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE DESCRIPTION FORM

SITE NUMBER N18/206

Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference 037-063

SITE NAME: MAORI
OTHER

SITE TYPE Pits and terrace

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

Pit measurements -see site plan

1. 4x2.8m, 0.95m deep.
2. 4.8x2.6m, 0.60m deep.
3. 5x3.2m, 0.80m deep.
4. 5x3m, 1.10m deep.
5. 3.6x2m, 0.30m deep.
6. 3.4x2.4m, waterfilled.
7. 5.2x3.4m, 1.25m deep.
8. 5x2.6m, waterfilled.
9. 4x2.2m, 0.5m deep.
10. 3.6x2m, 0.55m deep.

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/207
 DATE VISITED 17 & 18-3-86
 SITE TYPE Terrace with stone hearth
 SITE NAME: MAORI
 OTHER

Grid Reference Easting 037 Northing 060

1. Aids to relocation of site (*attach a sketch map*) Waipoua State Forest 13, Compartment 58. The terrace is located on the north side of the river on a south facing slope which runs to the river edge. It is 200m west of pit site N18/152, and 225° to a permanent post on the adjacent pit site N18/GR 036-059.5. See SRF N18/151 for map of site locations.

2. State of site and possible future damage Located deep in indigenous bush. Some disruption of the surface by tree root growth.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) See sketch on separate sheet
 Well defined single terrace facing SEE with a rectangular stone hearth measuring 0.75x 0.63m (outside dimensions).
 The terrace is 7.5x4.5m
 A few stones 15-20cm are scattered about on the terrace.
 Vegetation growing on and about the terrace consists of large kanuka, punga, mamaku, and nikau.

4. Owner Address NEW ZEALAND FOREST SERVICE
 WAIPOUA FOREST
 P.B. DARGAVILLE
 Tenant/Manager Address

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visits by M. Taylor, M. Horwood, A. Sutton and W. Karena.
 Photographs (*reference numbers, and where they are held*)
 Nil
 Aerial photographs (*reference numbers, and clarity of site*)
 In thick bush

6. Reported by MICHAEL TAYLOR Filekeeper
 Address P, O. BOX 3931 Date
 AUCKLAND

7. Key words
 terrace, stone hearth, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site
 Local environment today
 Land classification

Present condition and future danger of destruction
 Security code
 Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

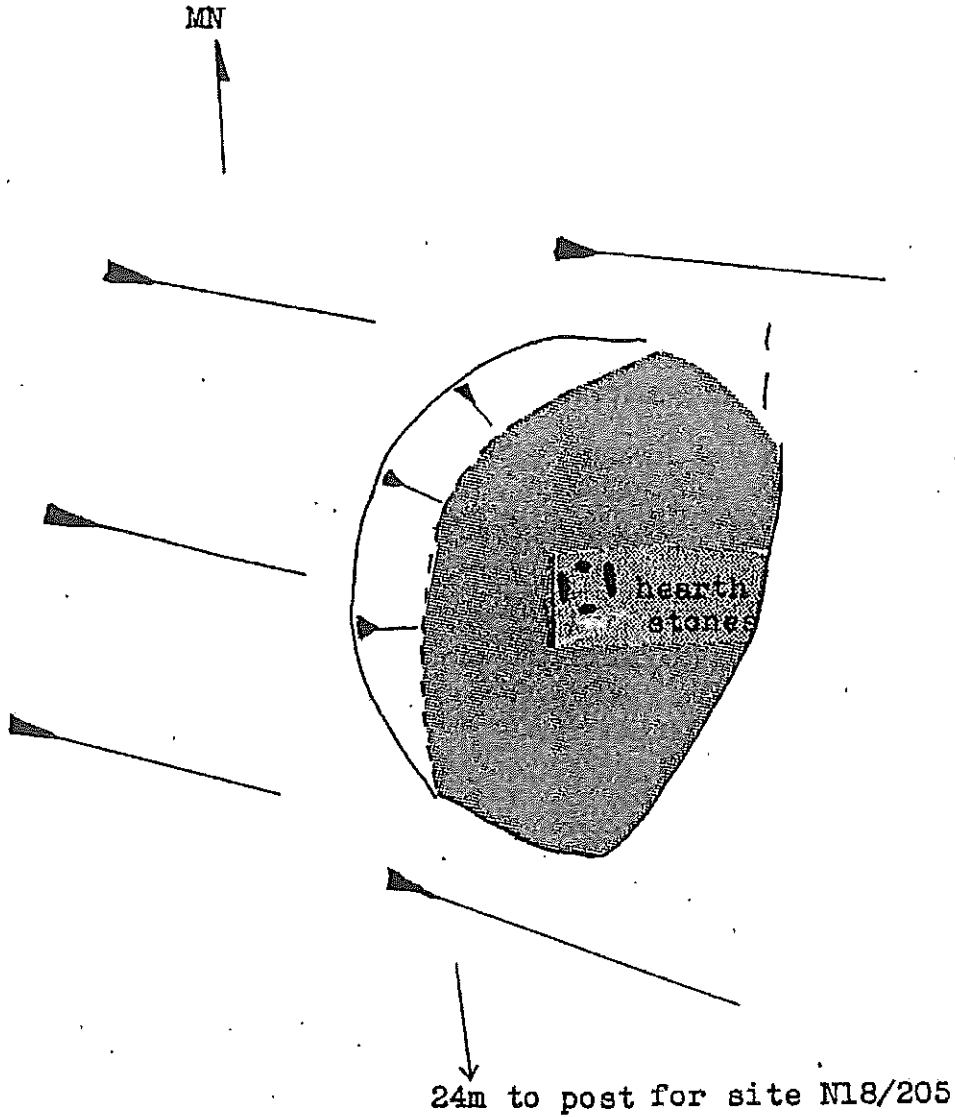
SITE NUMBER N18/207

Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference 037-060

SITE NAME: MAORI
OTHER

SITE TYPE Terrace with stone
hearth

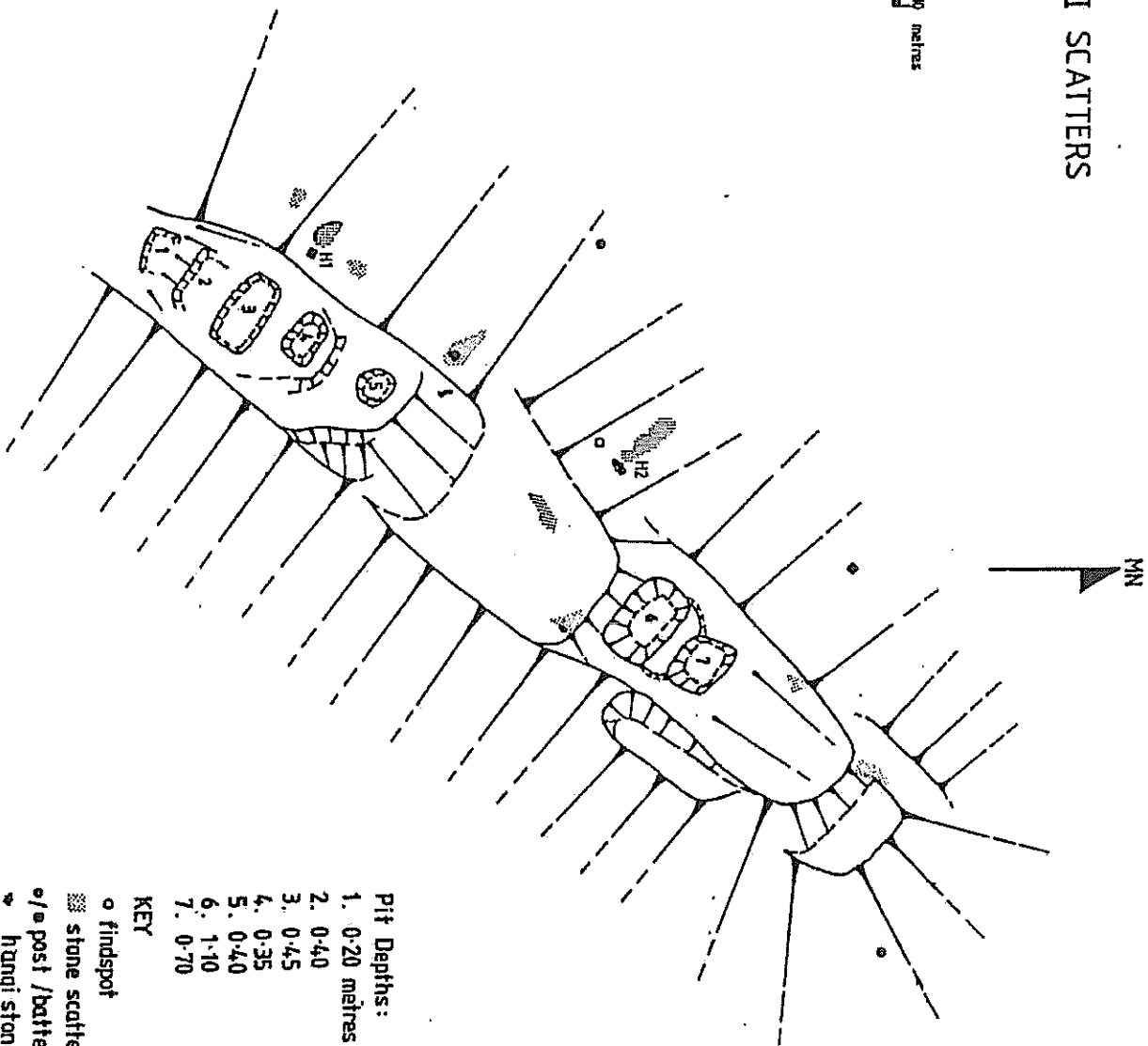
(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)



APPENDIX VIII

Compartment 65 -
additional information sheets

WAIPOUA S.F. 13
 CPT. 62
 SITE N18/162
 PITS & HANGI SCATTERS



Pit Depths:

1. 0-20 metres
2. 0-40
3. 0-45
4. 0-35
5. 0-40
6. 1-10
7. 0-70

KEY

- findspot
- stone scatters
- ◐ post /batten
- ◑ hangi stones
- H1 hangi

Tape and compass plan by
 Hilderwood and A. Sifton 6-3-86.
 Drawn by A. Sifton 19-5-86.

APPENDIX IX

Compartment 66 - new site record forms
and additional information sheets

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

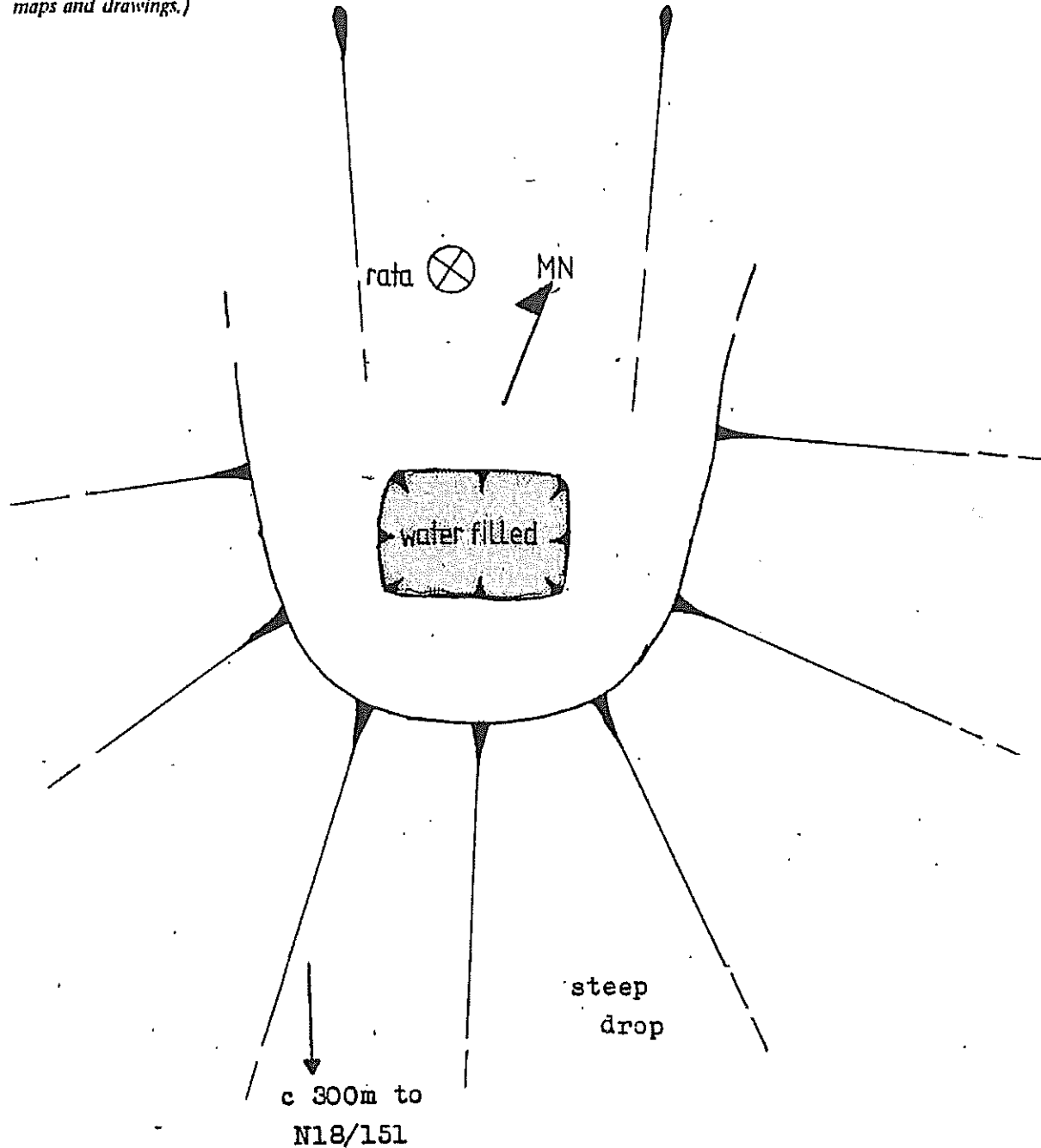
Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference 038-065

SITE NUMBER N18/218

SITE NAME: MAORI
OTHER

SITE TYPE Pit

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)



sketch only-not to scale

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
NZMS 1 map name Waipoua
NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/218
DATE VISITED 24-1-86, 19-3-86
SITE TYPE Pit
SITE NAME: MAORI
OTHER

Grid Reference Easting

0	3	8
---	---	---

 Northing

0	6	5
---	---	---

1. Aids to relocation of site (*attach a sketch map*) Waipoua State Forest 13, Compartment 58. The pit is located on a steep ridge, about 300m north of N18/151. It is above the main block of kanuka forest near the eastern edge of Cpt 58. The ridge levels off and narrows at the pit location

2. State of site and possible future damage Good condition, well defined, deep in indigenous forest.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) Single pit near the apex of main kanuka block. The pit is 2x3m and about 1m deep. The northern wall is undercut up to about 40cm. There is a well defined level rim about 2m wide on 3 sides of the pit. The pit contains water. Makamaka is the dominant tree, but vegetation includes large kanuka, rata, punga, broadleaf species, nikau, nienie and young kauri. anuka is present on the ridge top for some distance above the pit.

4. Owner Address NEW ZEALAND FOREST SERVICE
WAIPOUA FOREST
P.B. DARGAVILLE
Tenant/Manager Address

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visits by Robert Pollock and Annetta Sutton and Michael Taylor
Photographs (reference numbers, and where they are held)
Nil
Aerial photographs (reference numbers, and clarity of site)
Under dense bush

6. Reported by MICHAEL TAYLOR
Address P, O. BOX 3931
AUCKLAND
Filekeeper Date *[Signature]*
25/3/86

7. Key words
Pit, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)
NZHPT Site Field Code

Type of site
Local environment today
Land classification

Present condition and future danger of destruction
Security code
Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

SITE NUMBER N18/ 217

Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference 040-061

SITE NAME: MAORI
OTHER

SITE TYPE Stone heaps

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

Compartment 58

MN



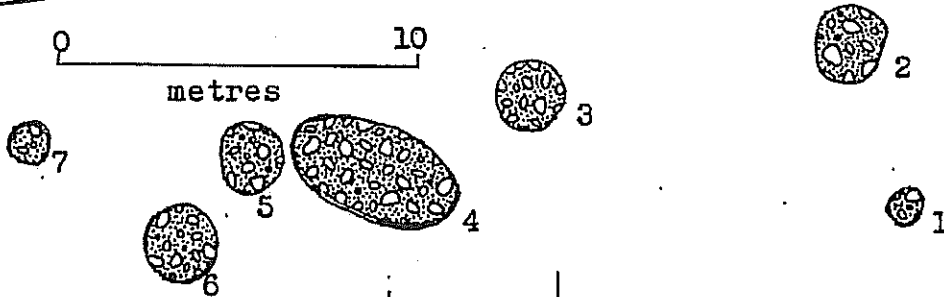
Stone
heaps

Kauri
Sanctuary

Sketch
only

Waipoua River

0 10
metres



Other stone heaps also occur in the vicinity in dense bush.

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/217
 DATE VISITED 24-1-86
 SITE TYPE Stone heaps
 SITE NAME: MAORI
 OTHER

Grid Reference

Easting

0 4 0

Northing

0 6 1

1. Aids to relocation of site (*attach a sketch map*) Waipoua SF 13, Compartment 58. About 150 metres west of the boundary between Cpt 58 and the Kauri Sanctuary, and west of a prominent hair-pin bend in the Waipoua River.
 See sketch plan attached

2. State of site and possible future damage The heaps are all very eroded and damaged by tree root growth. The site is remote and human interference is unlikely in the future.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) See attached plan. At least seven stone heaps, the majority of which are located at the back of a river terrace, at the base of the scrap.

From the eastern end the heap dimensions are:

1. 1.0m diameter, 0.3m high, mostly small stones with some large.
2. 2.0 diameter, 0.5m high, medium sized stones.
3. 1.5m diameter, 0.3m high, mostly soil and small stones. Very disturbed with tree growing out of centre.
4. 4.0x 2.0m, 1.0m high(max.), large and small stones. The northern end has an intact face 0.5m high.
5. 1.5m diameter, 0.2m high, large stones and soil.
6. 2.0m diameter, 0.2m high, large stones.
7. 1.0m diameter, 0.4m high, small stones.

4. Owner N.Z.F.S.
 Address Waipoua Forest
 Private Bag
 Dargaville

Tenant/Manager
 Address

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visits by P. Bristow, M. Horwood, G. Jackman & M. Taylor.
 Photographs (*reference numbers, and where they are held*)

Nil

Aerial photographs (*reference numbers, and clarity of site*)

Not visible under thick bush

6. Reported by Michael Taylor
 Address P.O. Box 3931
 Auckland

Filekeeper
 Date

Michael Taylor
 25/1/86

7. Key words Stone heaps, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number **N18**
 NZMS 1 map name **Waipoua**
 NZMS 1 map edition **3rd, 1975**

NZAA NZMS 1 SITE NUMBER **N18/215**
 DATE VISITED **18-3-86**
 SITE TYPE **Stone heaps**
 SITE NAME: **MAORI**
OTHER

Grid Reference Easting **0 3 7** Northing **0 6 7**

1. Aids to relocation of site (*attach a sketch map*) **Waipoua State Forest 13, Compartment 58**
 The site is on the north side of the river, about 600m downstream from the compartment boundary with the Kauri Sanctuary. It is located 32m at 50° to the lower part (B) of N18/152, and it is 42m at 230° to the pit site N18/205. See SRF for N18/151 for area map.

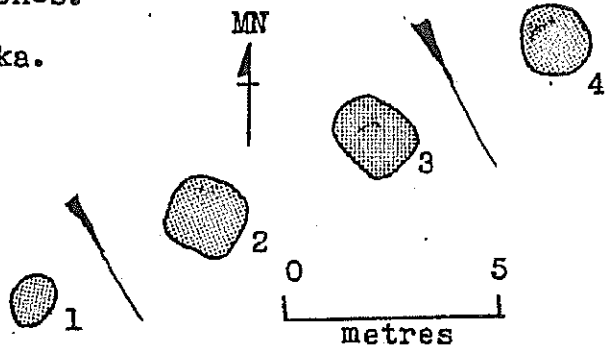
2. State of site and possible future damage **Partially intact stoneheaps in remote area of bush. Future damage unlikely.**

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) **Four stone heaps on SE facing slope. The two central heaps have intact lower facings and are made up of predominantly large stones.**

The vegetation is very large kanuka.

- Heap 1: 1.0x1.0m, 0.3m high
- Heap 2: 2.0x1.5m, 0.8m high
- Heap 3: 2.0x1.5m, 0.8m high
- Heap 4: 2.0x1.5m, 0.5m high

sketch plan only



4. Owner Address **NEW ZEALAND FOREST SERVICE
 WAIPOUA FOREST
 P.B. DARGAVILLE**

Tenant/Manager Address

5. Nature of information (*hearsay, brief or extended visit, etc.*) **Brief visits by A. Sutton, M. Taylor and M. Horwood.**
 Photographs (*reference numbers, and where they are held*)

Nil
 Aerial photographs (*reference numbers, and clarity of site*)
Under thick bush

6. Reported by **MICHAEL TAYLOR**
 Address **P, O. BOX 3931
 AUCKLAND**

Filekeeper *Adrian*
 Date *25/3/86*

7. Key words
stone heaps, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site
 Local environment today
 Land classification

Present condition and future danger of destruction
 Security code
 Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

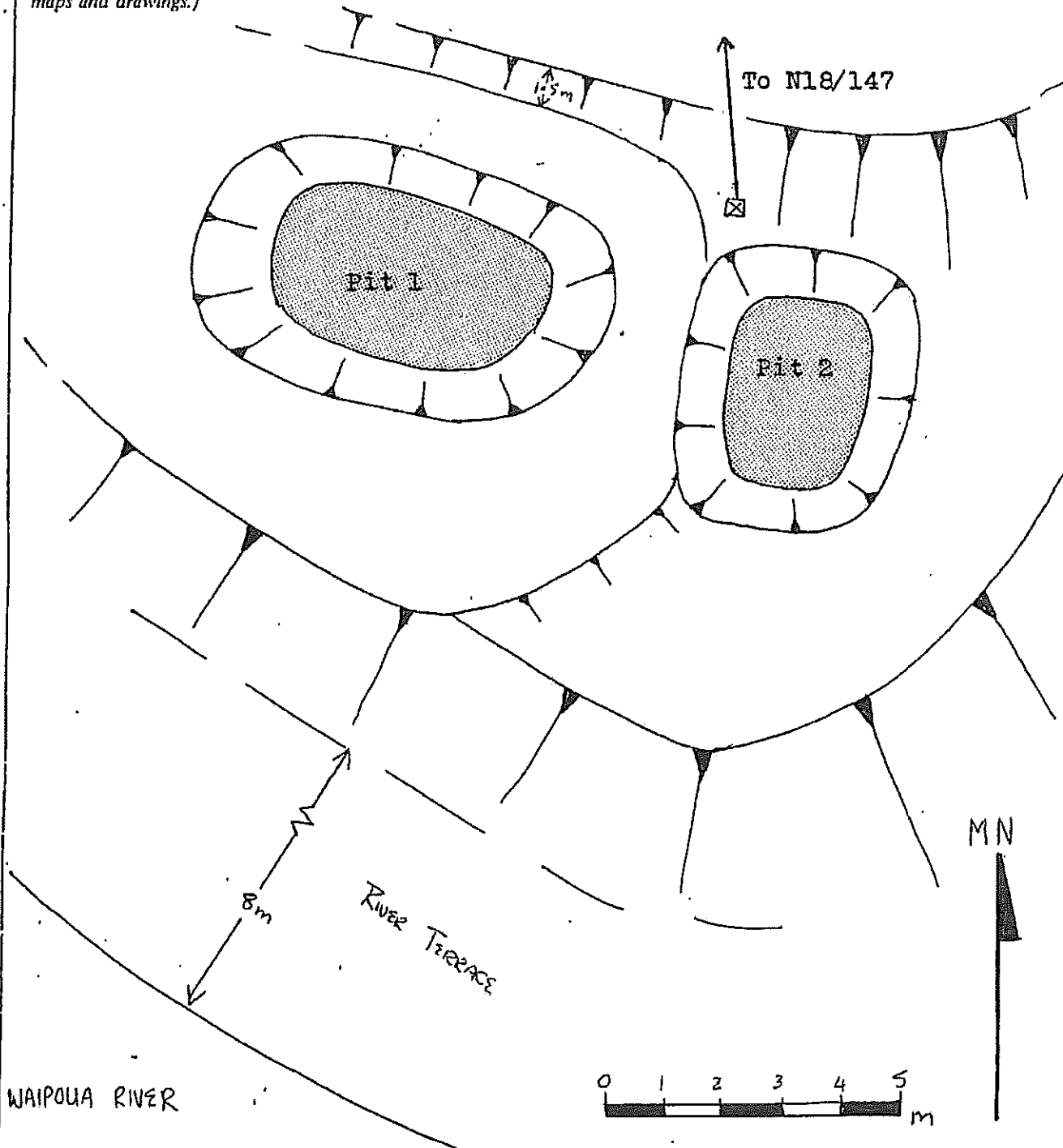
SITE NUMBER N18/214

Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference 034-059

SITE NAME: MAORI
OTHER

SITE TYPE Pits

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)



NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number **N18**
 NZMS 1 map name **Waipoua**
 NZMS 1 map edition **3rd, 1975**

NZAA NZMS 1 SITE NUMBER **N18/214**
 DATE VISITED **19-3-86**
 SITE TYPE **Pits**
 SITE NAME: **MAORI**
 OTHER

Grid Reference Easting **0 3 4** Northing **0 5 9**

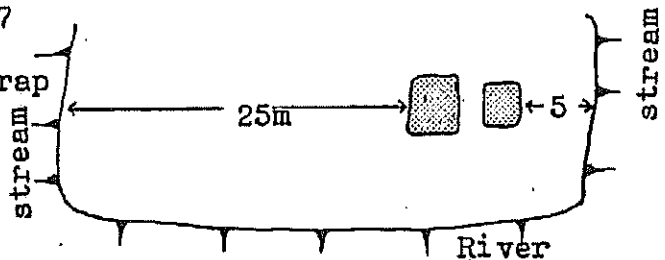
1. Aids to relocation of site (*attach a sketch map*) **Waipoua State Forest 13, Compartment 58. On river terrace above river, on end of ridge. From the point marked on the site plan it is 100m to NWW up the ridge to pit 10 on site N18/147. Streams in gullies are on either side of the site. The site is 51m asl.**

2. State of site and possible future damage **Clear well defined pits. Site is situated on the edge of a trial eucalyptus plot. Future damage unlikely.**

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) **See separate plan.**

Site consists of two pits situated on a flat above the Waipoua River. Site includes a level area extending c25m to SW of the pits.
 Dimensions: Pit 1: 6x3.5m, 1.6
 Pit 2: 4x3m, 1.2m deep.

Between these 2 pits and N18/147 on the same ridge is a terrace. It measures 8x3.5m with a 1m scrap and faces SE. It is c16m from pit 10 on N18/147. Vegetation on the site includes totara, manuka and others.



4. Owner Address **NEW ZEALAND FOREST SERVICE
 WAIPOUA FOREST
 P.B. DARGAVILLE**

Tenant/Manager Address

5. Nature of information (*hearsay, brief or extended visit, etc.*) **Brief visits by A. Sutton, M. Horwood and M. Taylor.**
 Photographs (*reference numbers, and where they are held*)

Nil
 Aerial photographs (*reference numbers, and clarity of site*)

Under thick bush

6. Reported by **MICHAEL TAYLOR**
 Address **P, O. BOX 3931
 AUCKLAND**

Filekeeper *[Signature]*
 Date **27/4/86**

7. Key words
Waipoua, pits

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site
 Local environment today
 Land classification

Present condition and future danger of destruction
 Security code
 Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

SITE NUMBER N18/213

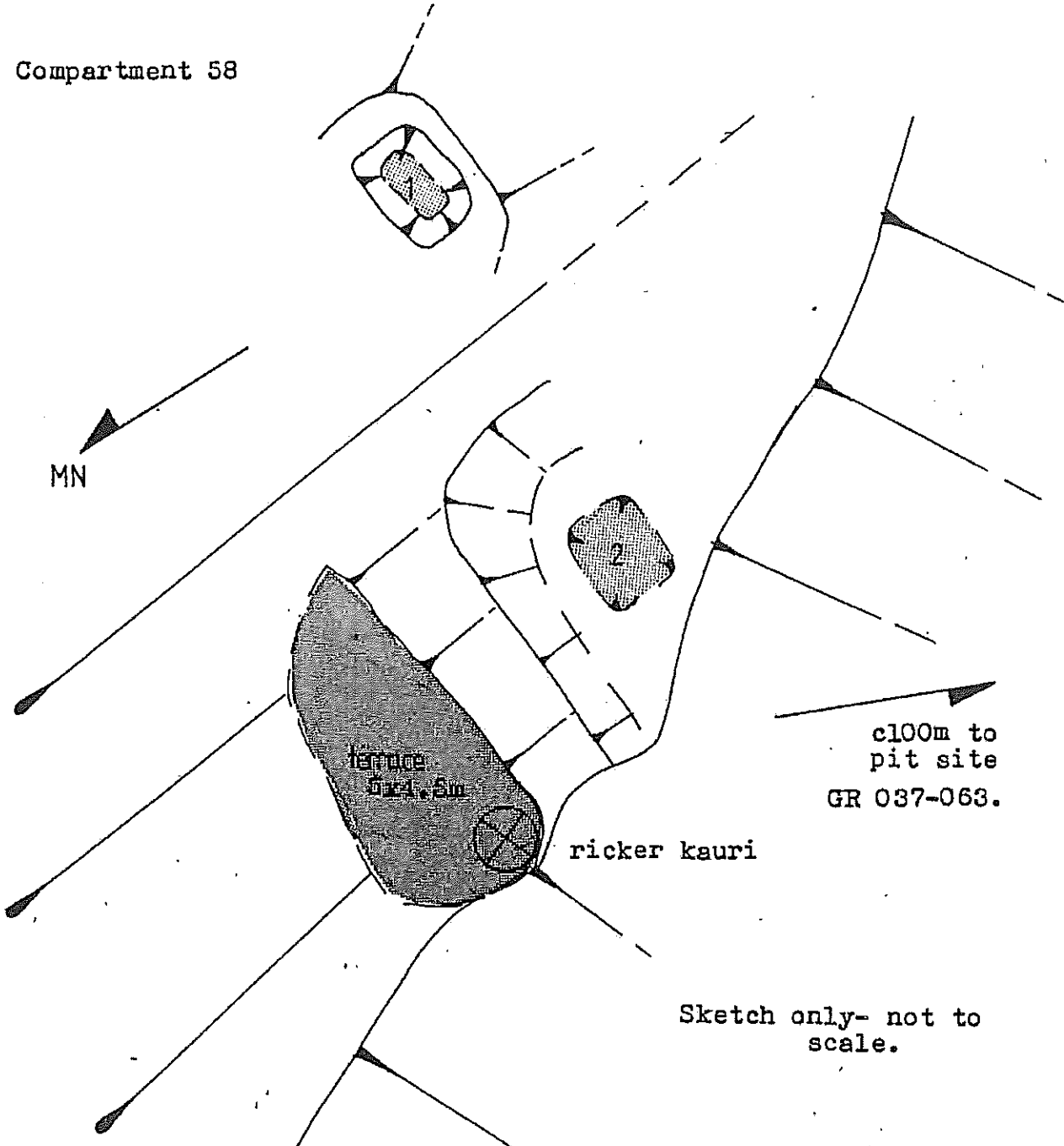
Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference

SITE NAME: MAORI
OTHER

SITE TYPE Pits and terrace

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

Compartment 58



Sketch only- not to scale.

A.S.

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/213
 DATE VISITED 19-3-86
 SITE TYPE Pits and terrace
 SITE NAME: MAORI
 OTHER

Grid Reference Easting

0	3	7
---	---	---

 Northing

0	6	4
---	---	---

1. Aids to relocation of site (*attach a sketch map*) Waipoua State Forest, Compartment 58. Access by foot across river, NW from N18/104 in Cpt 5, or via Papatēa Road. Located on 4th old river terrace level and above N18/151. Site is approximately 100m N from pit site at GR 037-063, across a flat and up a steep scarp. On level ground at base of steep spur.

2. State of site and possible future damage Reasonable condition, in thick bush, in remote location. Some damage by tree roots, but future modification is unlikely.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) See separate sketch plan.
 Two small shallow pits and a small terrace.
 Dimensions: Pit 1: 2x1.5m, 0.5m deep with a level rim all around.
 Pit 2: 1.5x1.5m, poorly defined.
 The site is outside (west of) the area of kanuka bush and is in broadleaf forest. Trees include one large ricker kauri on the terrace edge, and large punga, mamaku, and nikau.
 There is a good view from the site to the south across the river to Compartment 5.

4. Owner N.Z. Forest Service	Tenant/Manager
Address Waipoua State Forest	Address
Private Bag	
Dargaville	

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visit by Annetta Sutton.
 Photographs (*reference numbers, and where they are held*) Nil
 Aerial photographs (*reference numbers, and clarity of site*) In thick bush

6. Reported by Michael Taylor	Filekeeper <i>Adrian</i>
Address P.O. Box 3931	Date <i>25/4/86</i>
Auckland	

7. Key words Waipoua, pits, terrace

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site
 Local environment today
 Land classification

Present condition and future danger of destruction
 Security code
 Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

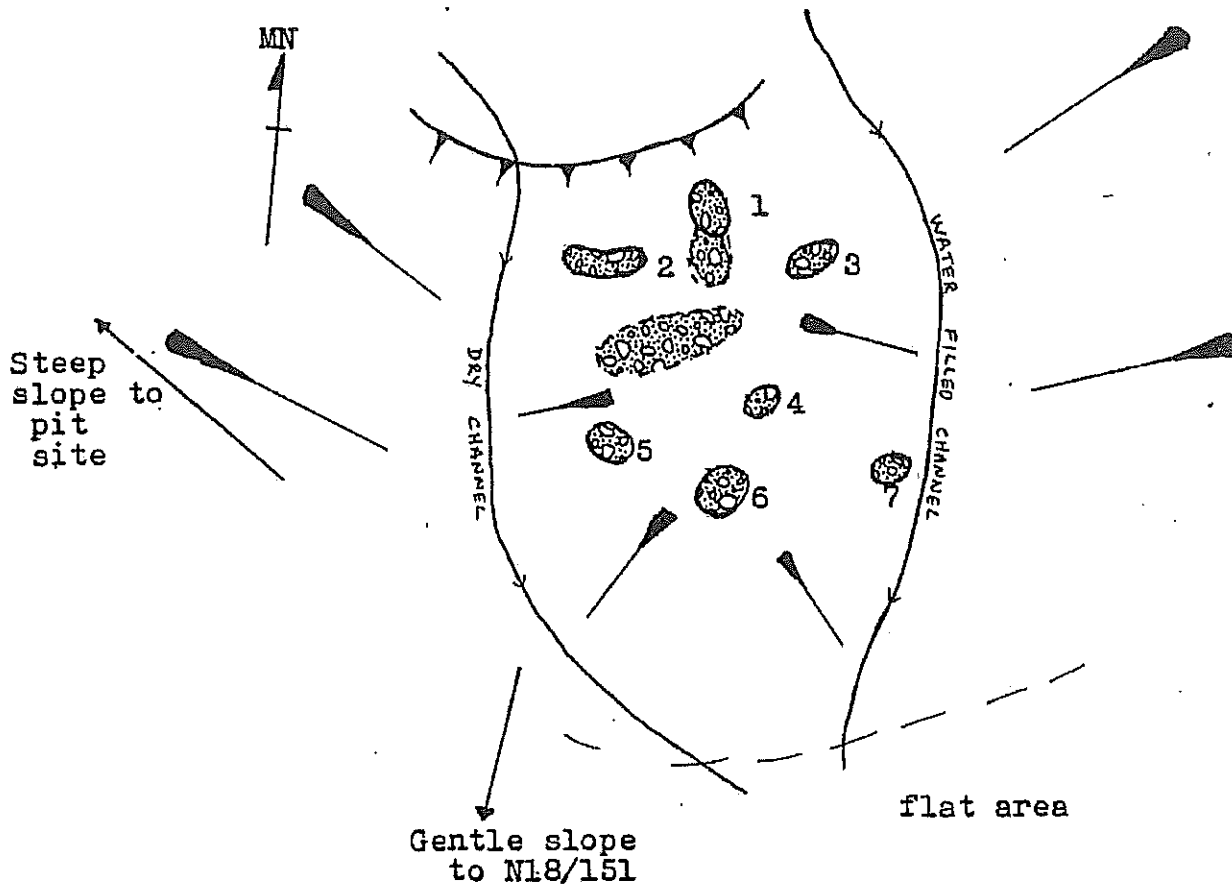
SITE NUMBER N18/212

Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference 036-062

SITE NAME: MAORI
OTHER

SITE TYPE Stone heaps

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)



Heap descriptions

1. Large stones (40cm diameter plus)
Also some very large rocks (1x0.5m).
2. As above.
3. As above.
4. Large stones (40 cm diameter plus).
5. Large stones (40-50 cm diameter).
6. Large stones (40 cm plus diameter).
7. As above.

All heaps are 50cm plus in height.

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/212
 DATE VISITED 17-1-86
 SITE TYPE Stone heaps
 SITE NAME: MAORI
 OTHER

Grid Reference Easting

0	3	6
---	---	---

 Northing

0	6	2
---	---	---

1. Aids to relocation of site (*attach a sketch map*) Waipoua State Forest 13, Compartment 58. The site is located on and adjacent to a small stream c150m north and above (but on the same level) as N18/151. The site is at the base of a slope which rises steeply to site at GR 037-063.

2. State of site and possible future damage The heaps are mainly collapsed. The site location is remote in dense bush, and future modification is unlikely.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) See separate sketch.

There are seven stone heaps covering an area about 50x50m. They are located on a moderate slope in between two small stream courses.

The amount of stone increases up the slope.

The site is outside, but adjacent to the area of bush dominated by large kanuka. The vegetation consists of kohekohe, karaka, large nikau, and supplejack which occurs especially on the lower slopes.

4. Owner N.Z. Forest Service Tenant/Manager
 Address Waipoua State Forest Address
 Private Bag
 Dargaville

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visit by Robert Pollock and Michael Taylor. Tape and compass sketch plan.

Photographs (*reference numbers, and where they are held*)

Nil

Aerial photographs (*reference numbers, and clarity of site*)

Under dense bush

6. Reported by Michael Taylor
 Address P.O. Box 3931
 Auckland

Filekeeper *[Signature]*
 Date 28/1/86

7. Key words
 Waipoua, stone heaps

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

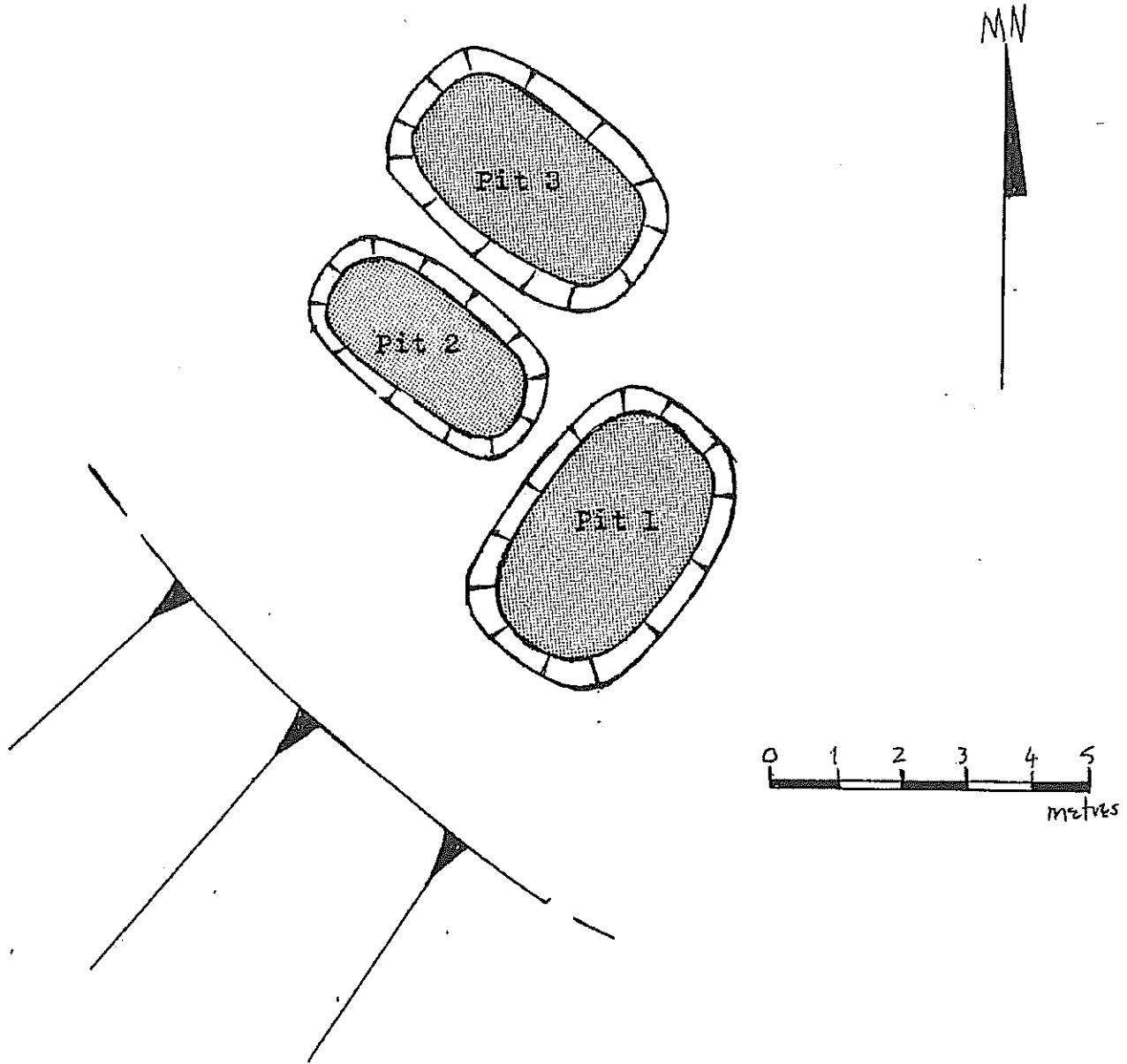
SITE NUMBER N18/ 211

Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference 036-063.5

SITE NAME: MAORI
OTHER

SITE TYPE Pits

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)



SKETCH ONLY

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number **N18**
 NZMS 1 map name **Waipoua**
 NZMS 1 map edition **3rd, 1975**

NZAA NZMS 1 SITE NUMBER **N18/211**
 DATE VISITED **17, 19-3-86**
 SITE TYPE **Pits**
 SITE NAME: **MAORI**
OTHER

Grid Reference Easting

0	3	6
---	---	---

 Northing

0	6	3	5
---	---	---	---

1. Aids to relocation of site (*attach a sketch map*) **Waipoua State Forest 13, Compartment 58. Access via Papatea Road, or across the river from Cpt 5(N18/104). The site is about 250m above and NW of N18/151, on the 4th level above the river. It is about 25m NW from site GR 037-063 on a flat that runs from behind that site.**

2. State of site and possible future damage **Open pits in remote thick bush. Future disturbance unlikely.**

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) **See separate sketch plan.**
 The site consists of 3 open rectangular pits.
 Dimensions: Pit 1- 4x2.5m
 Pit 2- 3.5x1.6m
 Pit 3- 4x2.2m

All pits contain water and have frogs in residence.

The site is outside the area of large kanuka bush in broadleaf forest. There is a large rata adjacent to the pits.

The area has used in kauri management trials and the understorey has been cut out.

4. Owner **N.Z. Forest Service** Tenant/Manager
 Address **Waipoua State Forest 13** Address
Private Bag
Dargaville

5. Nature of information (*hearsay, brief or extended visit, etc.*) **Brief visits by A. Sutton, M. Horwood, W. Karena, and M. Taylor**
 Photographs (*reference numbers, and where they are held*)
Nil
 Aerial photographs (*reference numbers, and clarity of site*)
Under thick bush

6. Reported by **Michael Taylor** Filekeeper *Michael Taylor*
 Address **P.o. Box 3931** Date *17/3/86*
Auckland

7. Key words
Waipoua, pits

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site
 Local environment today
 Land classification

Present condition and future danger of destruction
 Security code
 Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE RECORD FORM (NZMS1)

NZMS 1 map number **N18**
 NZMS 1 map name **Waipoua**
 NZMS 1 map edition **3rd, 1975**

NZAA NZMS 1 SITE NUMBER **N18/210**
 DATE VISITED **17-3-86**
 SITE TYPE **Terrace**
 SITE NAME: **MAORI**
OTHER

Grid Reference Easting 0 3 7 .5 Northing 0 6 1

1. Aids to relocation of site (*attach a sketch map*) **Waipoua State Forest 13, Compartment 58**
 Located on gentle SE facing slope c60m ESE of N18/151. The site is about 180m above and north of the river and is towards the eastern edge of the kanuka bush. It is about 30m above the pit site at N18/GR 036-059.5.

2. State of site and possible future damage **In mature kanuka, poorly defined and damaged by tree roots and pigs.**

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*)

Single terrace facing SE, measuring about 9x4m with a shallow scrap 1m wide.

The main trees are very large kanuka with a light understory.

4. Owner **NEW ZEALAND FOREST SERVICE** Tenant/Manager
 Address **WAIPOUA FOREST** Address
P.B. DARGAVILLE

5. Nature of information (*hearsay, brief or extended visit, etc.*) **Brief visits by M. Taylor**
Photographs (reference numbers, and where they are held) **and M. Horwood**

Nil
Aerial photographs (reference numbers, and clarity of site)

Under thick bush

6. Reported by **MICHAEL TAYLOR** Filekeeper *Michael Taylor*
 Address **P, O. BOX 3931** Date **28/9/86**
AUCKLAND

7. Key words
Terrace, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site
 Local environment today
 Land classification

Present condition and future danger of destruction
 Security code
 Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

SITE NUMBER N18/ 209

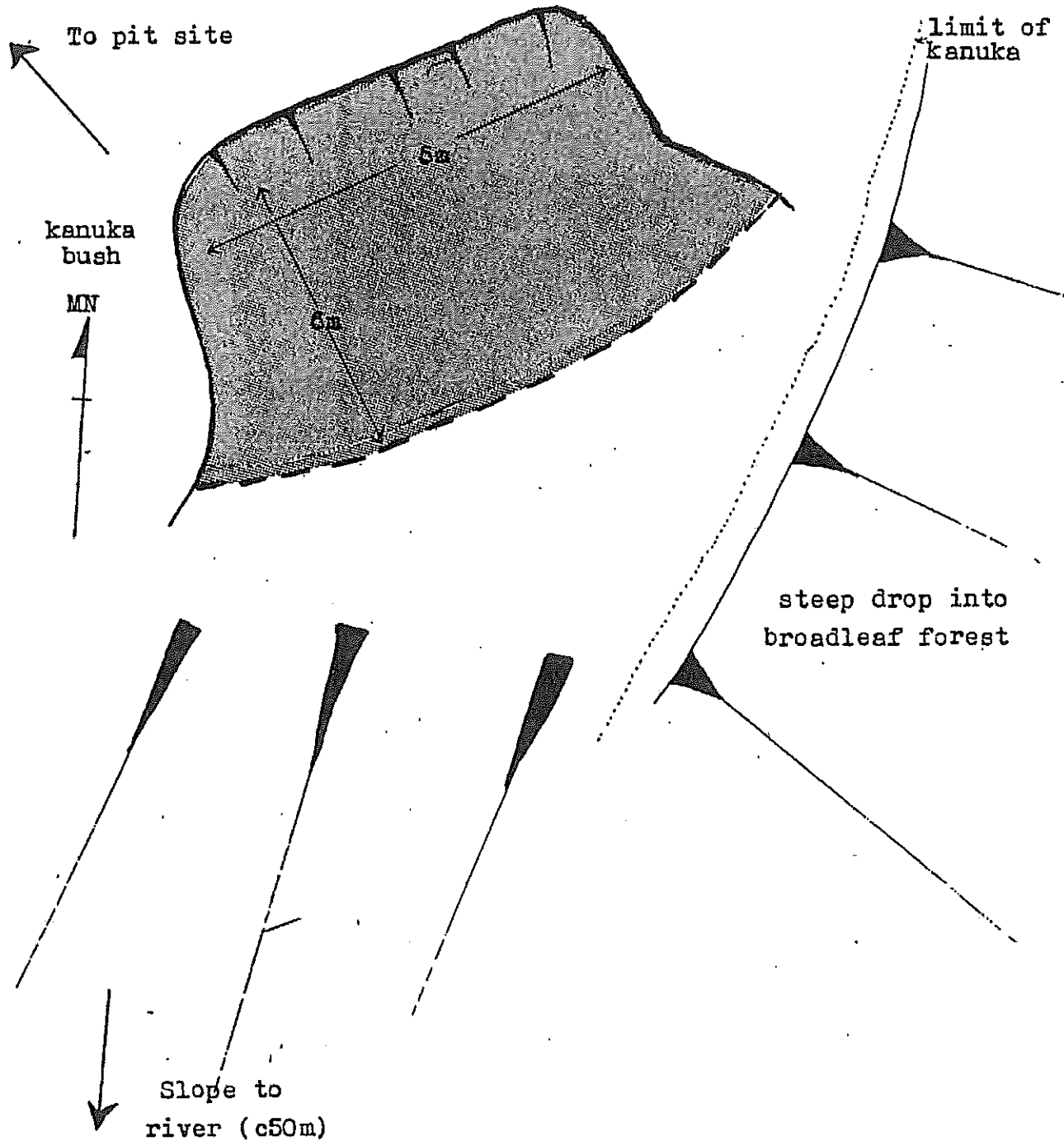
Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference 037-059

SITE NAME: MAORI
OTHER

SITE TYPE Terrace

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

Cpt. 58



NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/209
 DATE VISITED 24-1-86
 SITE TYPE Terrace
 SITE NAME: MAORI
 OTHER

Grid Reference Easting 0 3 7 Northing 0 5 9

1. Aids to relocation of site (*attach a sketch map*) Waipoua State Forest 13, Compartment 58. The terrace is approximately 50m upslope from the edge of the Waipoua River. To the east there is a steep drop down to a lower level. The terrace is 40m SE of pit site N18/GR 036-059.5. See SRF N18/151 map.

2. State of site and possible future damage Clearly defined terrace in remote area of bush. Some tree root damage. Vulnerable to damage by wild pigs.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) See sketch plan.
 Single terrace in mature kanuka on a south facing slope ie towards the river. The terrace is 6x5m and widens on its open side.
 The scrap at the back of the terrace is 75cm high.
 Large kanuka is the main canopy tree. There are punga growing from the terrace.
 There are loose rocks on the terrace but no sign of a hearth.

4. Owner Address NEW ZEALAND FOREST SERVICE
 WAIPOUA FOREST
 P.B. DARGAVILLE
 Tenant/Manager Address

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visit by Michael Taylor.
 Photographs (*reference numbers, and where they are held*) Nil
 Aerial photographs (*reference numbers, and clarity of site*) In dense bush

6. Reported by MICHAEL TAYLOR Filekeeper Address P, O. BOX 3931 Date *25/9/86*
 AUCKLAND

7. Key words
 terrace, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site
 Local environment today
 Land classification

Present condition and future danger of destruction
 Security code
 Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/208
 DATE VISITED 19-3-86, 24-4-86
 SITE TYPE Stone heaps
 SITE NAME: MAORI
 OTHER

Grid Reference Easting

0	3	6
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 Northing

0	6	4
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1. Aids to relocation of site (*attach a sketch map*) Waipoua State Forest, Compartment 58. Access via Papatea Road, or across Waipoua River from N18/104. Site is on a south to southwest slope in tall nikau. It is about 50m NWW from the pit site at GR 037-063, past the smaller pit site at GR 036-063.5.

2. State of site and possible future damage In remote location under very tall nikau with an open understorey. Damage unlikely unless by pigs.

3. Description of site (*Supply full details, history, local environment, references, sketches; etc. If extra sheets are attached, include a summary here*)
 Seventeen (or more) stone heaps covering an area about 50x50m.
 Heaps are made up of mainly large stones (ie 30-50cm), and the heaps are about 2m in diameter.
 A drain like feature is present on the north-west edge of the main stone heap group, running downslope.
 Vegetation is principally very tall nikau with some broadleaf trees
 The understorey is quite open.

4. Owner Address N.Z. Forest Service, Waipoua Forest, Private Bag, Dargaville. Tenant/Manager Address

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visits by Annetta Sutton, Alex Nathan, Michelle Horwood and Michael Taylor. Photographs (*reference numbers, and where they are held*) Nil
 Aerial photographs (*reference numbers, and clarity of site*) Under thick bush

6. Reported by Address Michael Taylor P.O. Box 3931 Auckland Filekeeper Date *Michael Taylor* 28/9/86

7. Key words
 Waipoua, stone heaps.

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

<table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>							Type of site	<table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>							Present condition and future danger of destruction
<table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>							Local environment today	<table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>							Security code
<table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>							Land classification	<table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>							Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION SITE DESCRIPTION FORM Map Number N18 Map Name Waipoua Map Edition 3rd, 1975 Grid Reference 022-054	SITE NUMBER N18/114
	SITE NAME: MAORI OTHER
	SITE TYPE Stone work

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

Site N18/114 extends over a much greater area than previously recorded (See sketch map). There are many more stone heaps and also stone faced terraces near the bottom of the slope on the flatter areas. There are possible stone facings in the stream. There is also stone work, both heaps and facings, in the area of scrub that is not planted in pine, behind the north-eastern swamp. This area is very steep and thickly overgrown. The stonework extends up the steep slopes behind N18/114 and N18/115 towards Oputonga Road for about 150m.

The vegetation in the scrub area includes whao, hangehange, coprosma, kiokio, five finger, tutu, ti, wheki, toitoi, flax, whitewood and bracken.

The vegetation in the P. radiata includes hangehange, coprosma, bracken fern, fivefinger and blackberry.

The site was visited by G. Jackman, R. Pollock, H. Marshall and P. Bristow during the resurvey of Compartment 66 on 6-7/1/86.

M. Taylor
13-1-86

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/198
 DATE VISITED 11 March 1985.
 SITE TYPE Terrace
 SITE NAME: MAORI
 OTHER

Grid Reference

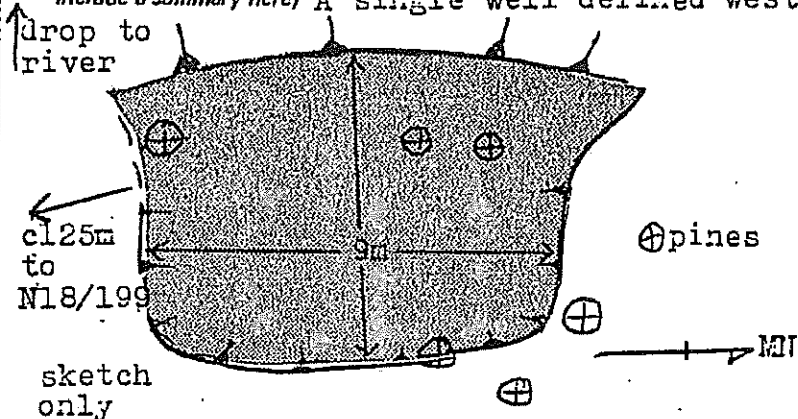
Easting

Northing

1. Aids to relocation of site (*attach a sketch map*) Waipoua SF 13. Cpt 66. Access via western skid on Oputonge Road. From skid edge follow down logging track between Cpts. 5 & 66 for approximately 250m The site is 25m into the pines. Behind the terrace the ground is gently sloping while in front it drops steeply down to the river

2. State of site and possible future damage Located in Pinus radiata(1966) and will eventually suffer minor damage during logging. Well preserved.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) A single well defined west facing terrace.



The surface of the ground is obscured by vegetation. Undergrowth includes ake-ake, five finger, cordyline, bracken, mamaku and manuka.

4. Owner
 Address NEW ZEALAND FOREST SERVICE
 WAIPOUA FOREST
 P.B. DARGAVILLE

~~XXXXX~~ Manager
 Address Rod Young
 O/C Waipoua SF

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visit by M. Taylor(11-3-85) and by P. Bristow & R. Pollock(10-1-86). Distances are paced.

Photographs (*reference numbers, and where they are held*) Nil

Aerial photographs (*reference numbers, and clarity of site*)

6. Reported by MICHAEL TAYLOR
 Address P, O. BOX 3931
 AUCKLAND

Filekeeper
 Date

Michael Taylor
 27/9/82

7. Key words

terrace, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18 /199
 DATE VISITED 8 January 1986
 SITE TYPE Terraces
 SITE NAME: MAORI
OTHER

Grid Reference

Easting 0 2 5

Northing 0 5 7

1. Aids to relocation of site (*attach a sketch map*) Waipoua SF 13, Compartment 66. On west facing spur from main ridge which divides Cpts. 5 & 66. From north-western most skid on Oputonga Road, site is 280° from NW skid corner, & 200m (estimated) into pines. Or site can be reached by walking 150m down track between Cpts. 5 & 66 (NW direction) and then 120m to SW into pines.

2. State of site and possible future damage Planted in Pinus radiata (1966) but in good condition and well defined. Logging will eventually damage the terraces.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*)

Four terraces stepped down a spur- see plan

Terrace 1: 9x3m with a depression 2x2m in the centre.

Terrace 2: 10x4m.

Terrace 3: 10x6m.

Terrace 4: 5x5m, may be damaged by an old bulldozer track down the spur.

Vegetation is medium Pinus radiata with sparse undergrowth- a few coprosma, ferns and dead manuka with a light pine needle cover.

4. Owner N.Z. Forest Service
 Address Waipoua SF 13
Private Bag
Dargaville

Manager Rod Young
 Address O/C Waipoua SF

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visit by Robert Pollock, Peter Bristow, Helen Marshall and Gordon Jackman.
 Photographs (*reference numbers, and where they are held*) Nil

Aerial photographs (reference numbers, and clarity of site)

6. Reported by
 Address Michael Taylor
P.O. Box 3931
Auckland

Filekeeper [Signature]
 Date 28/1/86

7. Key words
terraces, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

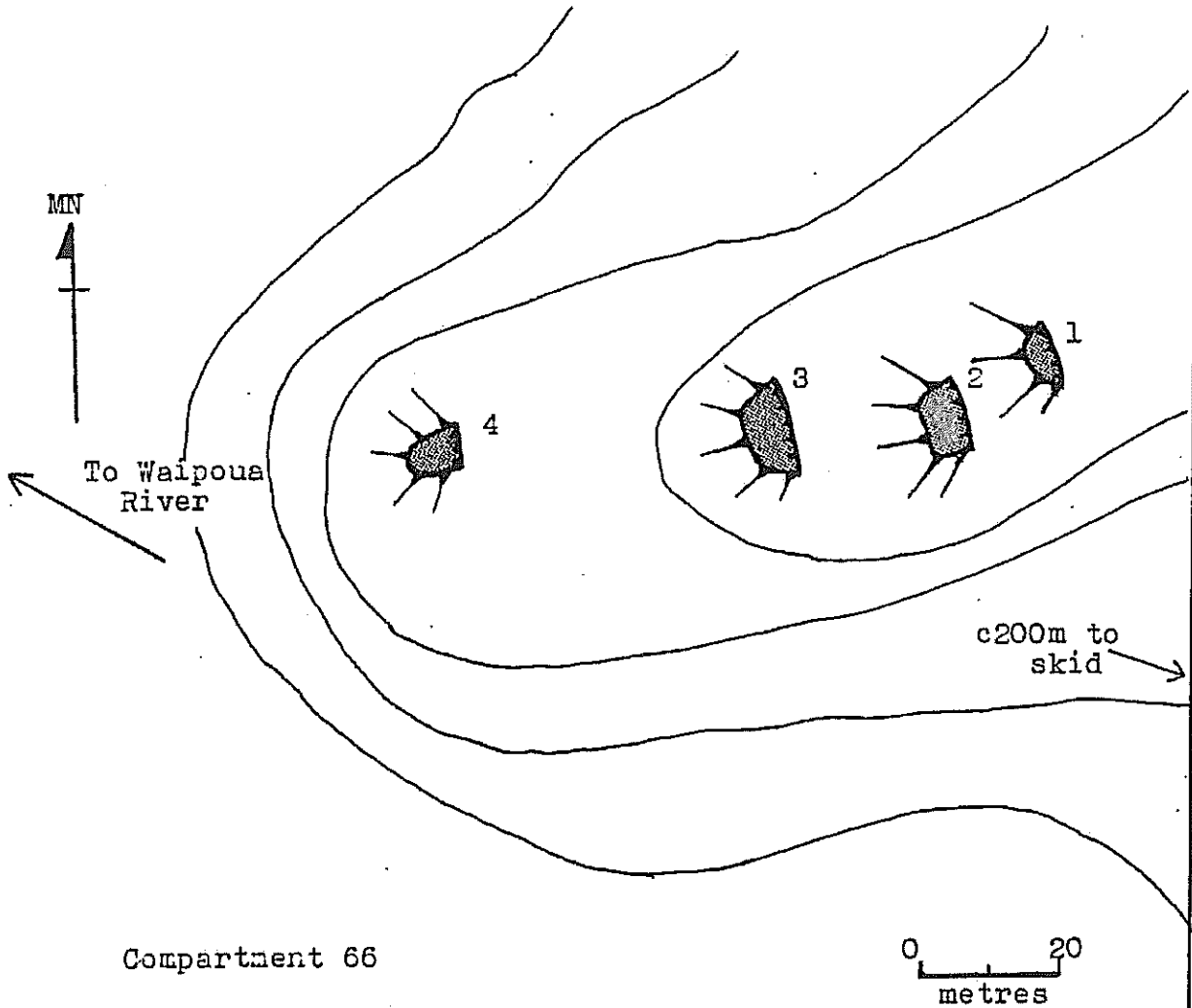
Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference 025-057

SITE NUMBER N18/199

SITE NAME: MAORI
OTHER

SITE TYPE Terraces

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)



SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/200
 DATE VISITED 8 January 1986
 SITE TYPE Stone heaps
 SITE NAME: MAORI
 OTHER

Grid Reference

Easting

0 2 4

Northing

0 5 1

1. Aids to relocation of site (*attach a sketch map*) Waipoua SF 13. Compartment 66. Access via west Oputonga Road (No.15). The site is 50m west of and below the road and about 40m south of a small skid cut on the eastern side of Oputonga Road. The site is located on a slope down a steep bank from the road. See location sketch map.

2. State of site and possible future damage The site is planted in Pinus radiata (1966) and has sustained damage from tree thinning. Large boulders pushed over the bank during road construction have also caused damage. Eventual logging will cause further damage.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) The site consists of 20-30 stone heaps within an area of 70x50m. They extend from on a steep slope below Oputonga Road to the bottom of a gentler slope below. The heaps vary in size from 2x2m by 1m high, to 5x4m by 2m high. They are mostly constructed from large stones (20-30cm diameter) although some have concentrations of smaller stones. The heaps all have a rounded form and no faced stonework is visible.

Understorey consists of five finger, hangehange, coprosma, tree ferns, mapou, bracken fern.

4. Owner
 Address

NEW ZEALAND FOREST SERVICE
 WAIPOUA FOREST
 P.B. DARGAVILLE

~~XXXXX~~/Manager
 Address

Rod Young
 O/C Waipoua SF 13

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visit by G. Jackman and H. Marshall.

Photographs (*reference numbers, and where they are held*)

Nil

Aerial photographs (*reference numbers, and clarity of site*)

Nil

5. Reported by
 Address

MICHAEL TAYLOR
 P. O. BOX 3931
 AUCKLAND

Filekeeper
 Date

Michael Taylor
 28/9/86

7. Key words

Waipoua, stone heaps

3. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

SITE NUMBER N18/ 200

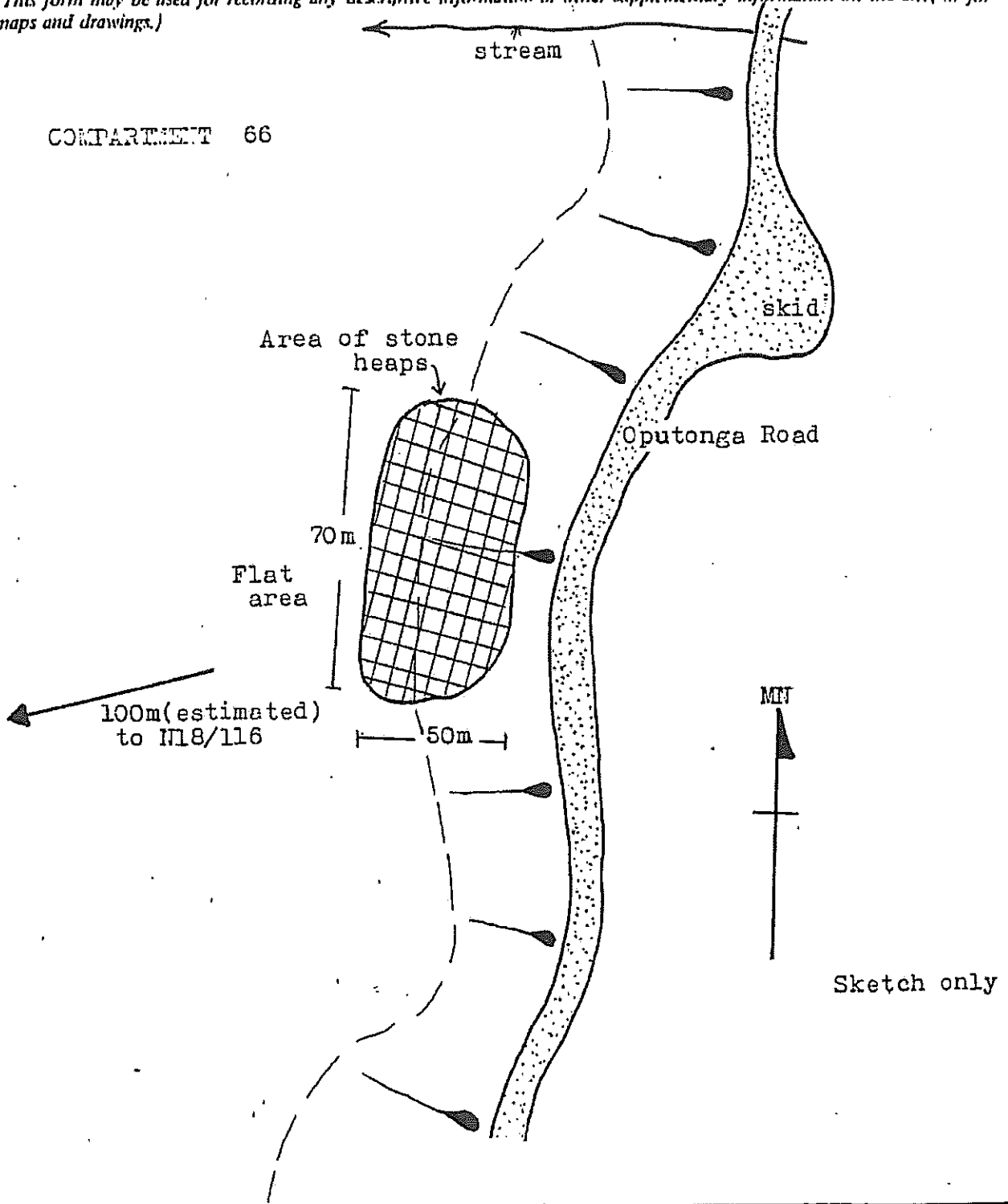
Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference

SITE NAME: MAORI
OTHER

SITE TYPE Stone heaps

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

COMPARTMENT 66



NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 3rd, 1975

NZAA NZMS 1 SITE NUMBER N18/201

DATE VISITED 9 January 1985

SITE TYPE PITS
 SITE NAME: MAORI
 OTHER

Grid Reference Easting 0 2 5 Northing 0 4 9

1. Aids to relocation of site (*attach a sketch map*) See sketch map. Waipoua SF 13. Compartment 66. Access via west Oputonga Road. The site is on the south western edge of a flat that extends 120m from the pits to a steep slope that is below Oputonga Road. The pits are approximately 90m north east of N18/118 and an estimated 200m north of newly recorded stonework.

2. State of site and possible future damage Planted in *P. radiata* (1966) which has been thinned. Cut pine, bracken fern, dead manuka, and blackberry obscure the features which are shallow. Stock may have trampled the pits. Logging will damage the site.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*)

See sketch plan

Two shallow pits, side by side:

Pit 1- 3x1.5m, 0.5m deep

Pit 2- 3x2m, 0.5m deep

The pits are situated on the edge of a wide flat and a gentle slope running down to the south and south-west.

The area is planted in *P. radiata* with a light understorey of bracken fern, five finger, coprosma, hangehange, and manuka.

4. Owner NEW ZEALAND FOREST SERVICE
 Address WAIPOUA FOREST
 P.B. DARGAVILLE
~~Owner/Manager~~ Address Rod Young
 O/C Waipoua SF 13.

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visit by G. Jackman and H. Marshall.

Photographs (*reference numbers, and where they are held*)

Nil

Aerial photographs (*reference numbers, and clarity of site*)

Not visible.

6. Reported by MICHAEL TAYLOR
 Address P.O. BOX 3931
 AUCKLAND

Filekeeper
 Date

[Signature]
 28/9/82

7. Key words
 Pits, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site
 Local environment today
 Land classification

Present condition and future danger of destruction
 Security code
 Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
 SITE DESCRIPTION FORM

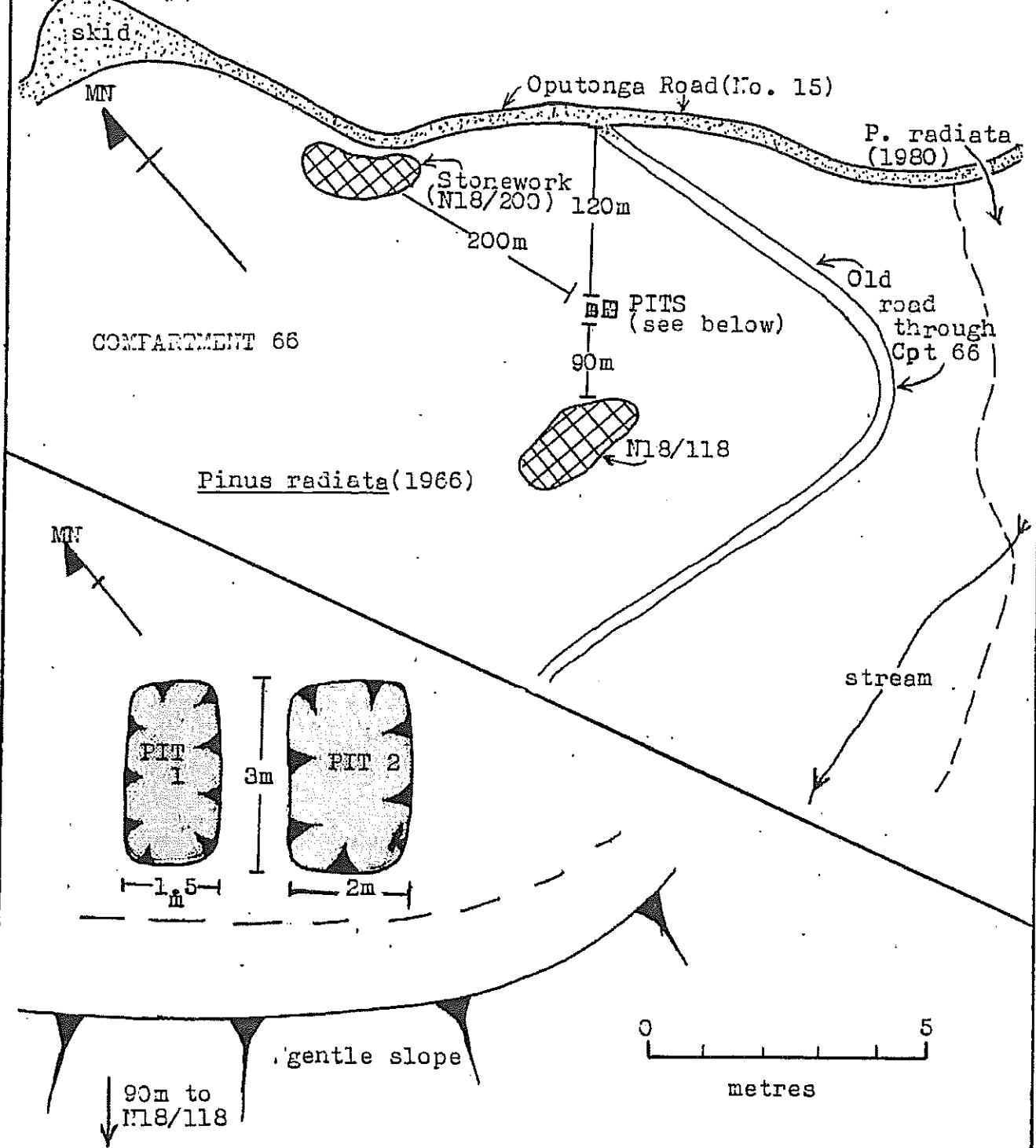
SITE NUMBER N18/201

Map Number N18
 Map Name Waipoua
 Map Edition 3rd, 1975
 Grid Reference 025-049

SITE NAME: MAORI
 OTHER

SITE TYPE PITS

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)



APPENDIX X

Kauri Sanctuary
- new site record forms

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number **N18**
NZMS 1 map name **Waipoua**
NZMS 1 map edition **3rd, 1975**

NZAA NZMS 1 SITE NUMBER **N18/204**

DATE VISITED **17-1-86**

SITE TYPE **Pits**

SITE NAME: **MAORI**
OTHER

Grid Reference

Easting

0 4 1

Northing

0 6 3

1. Aids to relocation of site (*attach a sketch map*) Waipoua State Forest, Kauri Sanctuary, north side of Waipoua River, on a north/south ridge near the present Compartment 58/Sanctuary boundary. Situated on the eastern side of a hairpin bend in the river. On the west side of the ridge is a steep drop into the Waipoua River and on the east is a small stream in a deep gully. The site is opposite N18/202. See sketch.

2. State of site and possible future damage In dense bush in the Kauri Sanctuary. Remote. Future damage unlikely.

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*)

Three pits - see sketch.

Two pits in one group, both 2x1m, and 0.3m deep.

The third pit is about 12m further up the ridge (ie north) and is also 2x1m.

Mixed bush including tawa, totara, taraire, kowhai, nikau, ponga, hangehange and 5 finger.

4. Owner
Address

**NEW ZEALAND FOREST SERVICE
WAIPOUA FOREST
P.B. DARGAVILLE**

Tenant/Manager
Address

5. Nature of information (*hearsay, brief or extended visit, etc.*) **Brief visit during reconnaissance survey of north Waipoua River slopes.**

Photographs (*reference numbers, and where they are held*)

Nil

Aerial photographs (*reference numbers, and clarity of site*)

Under dense bush.

6. Reported by **MICHAEL TAYLOR**

Address **P, O. BOX 3931**

AUCKLAND

Filekeeper
Date

Michael
25/9/86

7. Key words

Pits, Waipoua

8. New Zealand Register of Archaeological Sites (*for office use*)

NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local hndv

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE DESCRIPTION FORM

Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference O41-063

SITE NUMBER N18/ 204

SITE NAME: MAORI
OTHER

SITE TYPE Pits

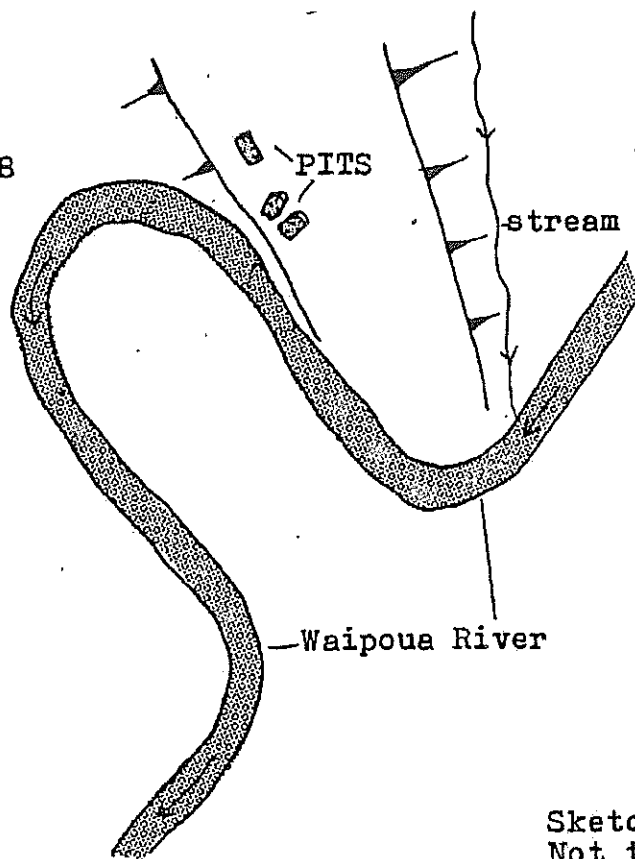
(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

Site location

MN



Compartment 58



Kauri Sanctuary

stream

Waipoua River

Sketch only
Not to scale

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number **N18**
NZMS 1 map name **Waipoua**
NZMS 1 map edition **3rd, 1975**

NZAA NZMS 1 SITE NUMBER **N18/ 216**

DATE VISITED **17-1-86**

SITE TYPE **Pits**
SITE NAME: **MAORI**
OTHER

Grid Reference

Easting

0	5	2
---	---	---

Northing

0	5	0
---	---	---

1. Aids to relocation of site (*attach a sketch map*) **Waipoua State Forest 13, Kauri Sanctuary**
On the north side of the river opposite a point just north of the junction of Oputonga and Kopikopiko Roads. The site is on a narrow ridge, on a sharp bend in the river, with the river on both sides. See sketch location plan.

2. State of site and possible future damage **Site is in light indigenous bush. Pigs are living in the area and may cause subsurface damage.**

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*)

See plan.

The site consists of 4 pits on a narrow ridge running NE-SW.

Pit measurements:

- 1. 3x1.5m, 1m deep.
- 2. 3x1.5m, 1m deep.
- 3. 4x2m, 1m deep.
- 4. 4x1.5m, 1m deep.

The "island" which this ridge connects is a likely site of occupation.

Vegetation consists of second growth manuka, tanekaha, mingimingi, mapou, fivefinger, and totara.

4. Owner Address

**NEW ZEALAND FOREST SERVICE
WAIPOUA FOREST
P.B. DARGAVILLE**

Tenant/Manager Address

5. Nature of information (*hearsay, brief or extended visit, etc.*) **Brief visit during reconnaissance survey of north bank of Waipoua River.**

Photographs (*reference numbers, and where they are held*)

Nil

Aerial photographs (*reference numbers, and clarity of site*)

Not visible.

6. Reported by **MICHAEL TAYLOR**

Address **P.O. BOX 3931
AUCKLAND**

Filekeeper Date

Michael Taylor
20/9/86

7. Key words

Waipoua, pits

8. New Zealand Register of Archaeological Sites (*for office use*)
NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

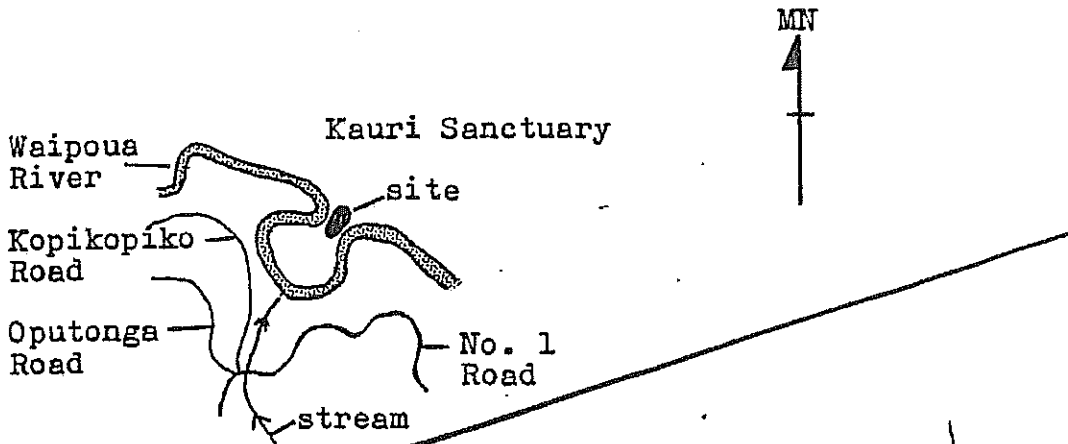
SITE NUMBER N18/216

Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference 052-050

SITE NAME: MAORI
OTHER

SITE TYPE Pits

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)



sketch
only

To river

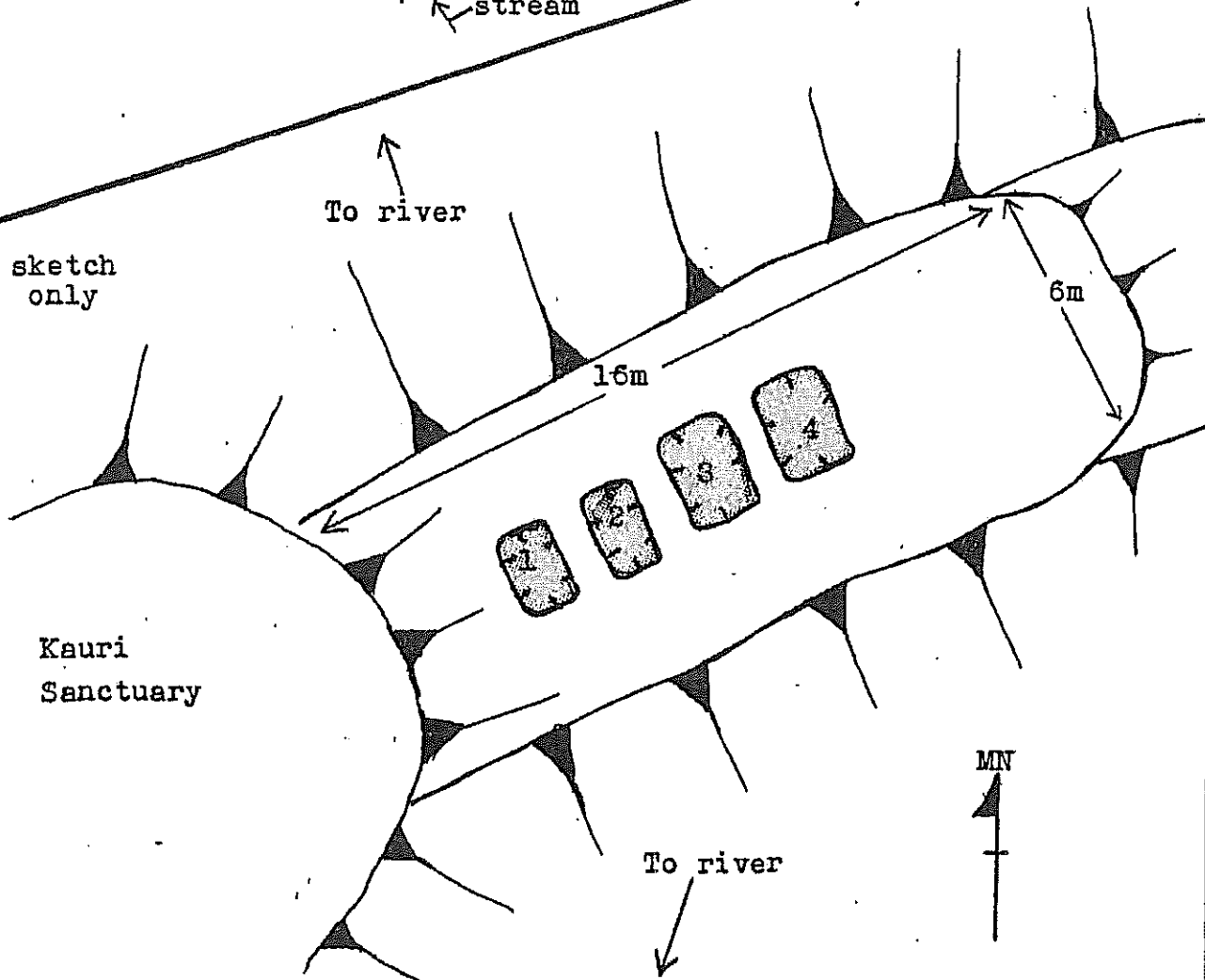
16m

6m

Kauri
Sanctuary

To river

MN



APPENDIX XI

Wairau River
- new site record forms

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE RECORD FORM (NZMS1)

NZMS 1 map number **N18**
 NZMS 1 map name **Waipoua**
 NZMS 1 map edition **3rd, 1975**

NZAA NZMS 1 SITE NUMBER **N18/194**
 DATE VISITED **30 December 1985**
 SITETYPE **Stone heaps/ drain**
 SITE NAME: **MAORI**
OTHER

Grid Reference Easting **961** Northing **098**

1. Aids to relocation of site (*attach a sketch map*) **Waipoua SF 13 in Wairau River valley, on the northern bank, across the river from an access track which leaves Kararoa Road about 400m upriver from its intersection with Road 33(Ohaua Road). Directly across river from site at Grid ref. 959-098 and south-west of site Grid ref. 962-099.**

2. State of site and possible future damage **The site is in second growth native bush and should remain undisturbed.**

3. Description of site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) **See site plan. Eleven stone heaps, one of which is particularly well formed and spanner shaped(see separate plan). Most heaps are rounded and 1-2m across and about 0.5m high. Generally they are constructed of stones about 20-30cm diameter. A well defined drain is present at the northern end of the flat. One heap was curbed with larger stones and filled with smaller stones and was only about 0.25m high.**

The vegetation is old second ^{growth} native trees- kanuka, mapou, nikau, manūaku, hangehange, coprosma sp., and two large ricker kauri.
The site was permanently marked with a fence post tagged with the NZAA site number on 25/4/86. The post is 8m from H10 at 316°.

4. Owner **NEW ZEALAND FOREST SERVICE** **Waipoua Forest**
 Address **WAIPOUA FOREST**
P.B. DARGAVILLE
 Tenant/Manager **Rod Young**
 Address **O/C Waipoua SF 13**

5. Nature of information (*hearsay, brief or extended visit, etc.*) **Brief visit by G. Jackman & P. Bristow**
 Photographs (*reference numbers, and where they are held*) **Yes, N.Z.F.S. Auckland**
2 photos of "spanner" heap
 Aerial photographs (*reference numbers, and clarity of site*) **Nil**

6. Reported by **MICHAEL TAYLOR** Filekeeper **Adrian**
 Address **P, G. BOX 3931** Date **28/9/86**
AUCKLAND

7. Key words
Wairau River, stone heaps, drain

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION SITE DESCRIPTION FORM	SITE NUMBER N18/194
Map Number N18 Map Name Waipoua Map Edition 3rd, 1975 Grid Reference 961-098	SITE NAME: MAORI OTHER
	SITE TYPE Stone heaps

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

Description of individual stone heaps

See site plan

Heap 1: Approx. 1.5m diam., 0.20m high. Medium sized stones, few large. Situated at the back of river terrace. The heap is very disturbed, and virtually flattened.

Heap 2: Approx. 2.0m diameter. Medium to large stones. Possible heap only and is very disturbed.

Heap 3: Approx. 2.5x2.0m, 0.50m high. Many large stones (up to 70cm long) with both medium and small stones. Near base of slope and more intact than H1 and H2.

Heap 4: Approx. 1.5m diameter, 0.8m high. Mostly large stones (40-60cm in length). Situated at the base of the slope and is quite slumped although some of the shape is retained.

Heap 5: Approx. 2x1.5m, 0.60m high. Constructed with a lot of small stones with some large and medium. Very slumped.

Heap 6: Approx. 1.5m diameter, 0.50m high. Mostly medium sized stones. Very disturbed.

Heap 7: Approx. 1.5m diameter, 0.40m high. H7 consists of only about 10 large stones (up to 80cm long) and is very disturbed. A line of stones appears to connect H6 and H7.

Heap 8: Approx. 2x1.5m, 1.0m high. Mostly medium and small stones. This is the most intact heap. A line of large stones appears to run partway to H7.

Heap 9: Possible heap. Stone scatter covers an area about 1.5m in diameter, 0.20m high. A few large stones and some small. Very slumped.

Heap 10: (See plan). "Spanner" shaped heap. Approx. 11m long, 3m wide and 0.7m high. The NW end is made of large and medium stones and retains its constructed faces intact. The remainder is less formally constructed of small and medium stones and is more slumped.

Heap 11: Approx. 2.5x1.5m, 0.25m high. Medium to large stones surrounds a depressed centre.

Heap 12: Approx. 2x1m, 0.40m high. Large stones.

Heap 13: Approx. 1.5m in diameter, 0.75m high. Mostly medium and small stones, with some large.

There is about 0.45cm of brown loamy soil on this river terrace.

Additional information collected by M. Horwood, R. Paniora, and P. Bristow 7 March 1986.

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE DESCRIPTION FORM

Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference 961-098

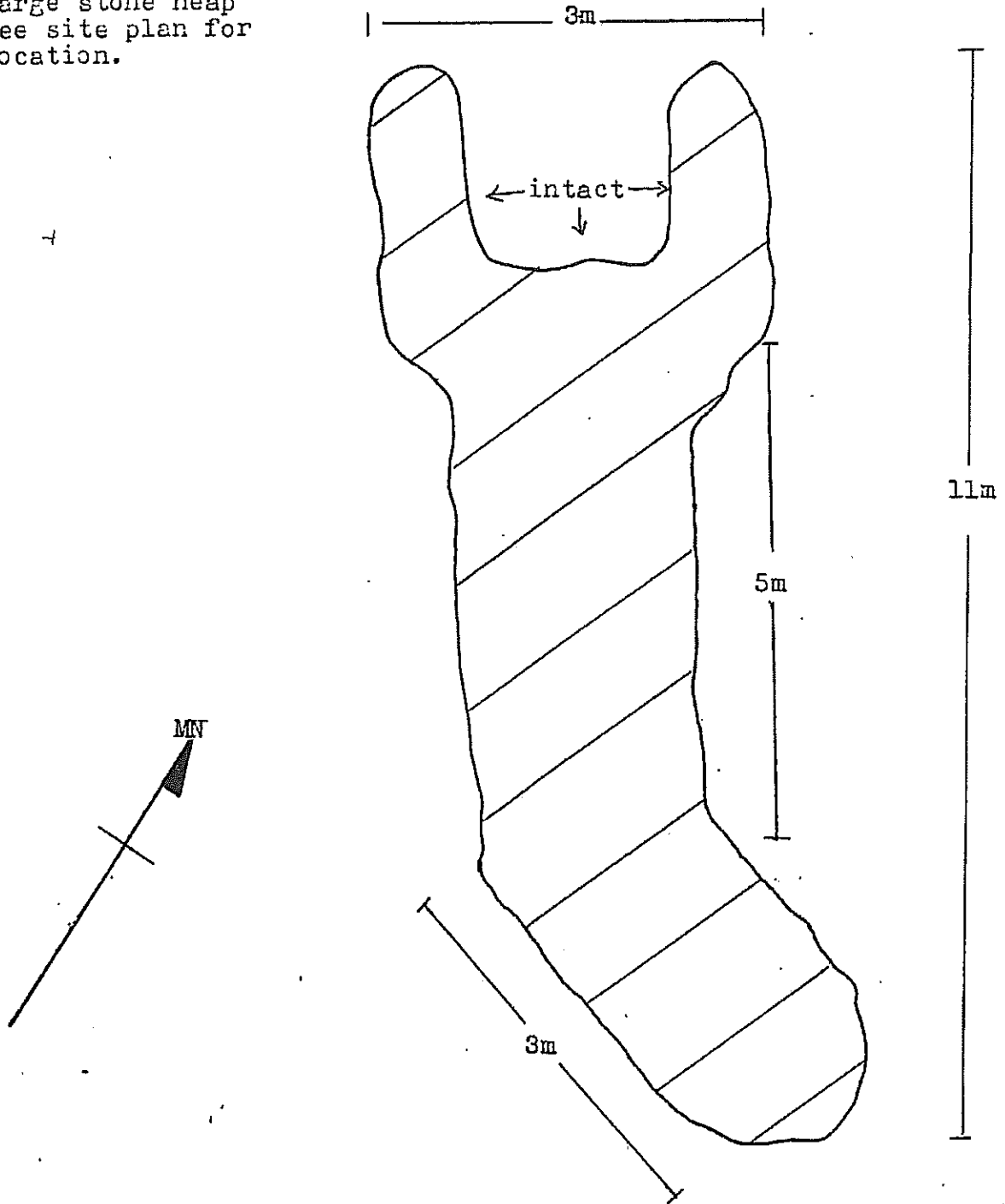
SITE NUMBER N18/194

SITE NAME: MAORI
OTHER

SITE TYPE Stone heap

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

Heap 10
Large stone heap
See site plan for
location.



NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE DESCRIPTION FORM

Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference 961-098

SITE NUMBER N18/194

SITE NAME: MAORI
OTHER

SITE TYPE Stone heaps

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

Site Grid ref.
959-098
N18/195

track to
Kararoa Road

Wairau
River

drain

H13

H12

river flat

H11

40m

100m

H1

H2

H8

H9

H7

H6

POST

H5

see
detailed
sketch

H10

H3

H4

Site
Grid ref.
962-099
N18/196

Wairau
River

MT

Sketch only. Not to
scale. Distances from pacing
and compass.

SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 1975, 3rd

NZAA NZMS 1 SITE NUMBER N18/195

DATE VISITED 30 December 1985

SITE TYPE Stone heaps

SITE NAME: MAORI
OTHER

Grid Reference

Easting

9 5 9

Northing

0 9 8

1. Aids to relocation of site (*attach a sketch map*) Waipoua SF 13. On flat on southern side of Wairau River. Access is at present via a foot track marked with red tape which goes down from Kararoa Road(No.21) about 400m upriver from the intersection of Roads 21 & 33. The site is at the base of the ridge which this track goes down.

2. State of site and possible future damage The site is located in large 2nd growth bush and is at no risk from forest development.

3. Description of-site (*Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here*) See site plan. Five stone heaps at the base of

of a rock outcrop at the back of a river flat 120x35m(paced). All the heaps appear collapsed and rounded-

Heap 1: 1.5x0.8m, height 0.3m. Constructed of small stones less than 15cm across.

Heap 2: 1.5x1.5m, height 0.5m. Stones less than 25cm across.

Heap 3: 1.2x1.2m, height 0.4m. Stones 15-25cm across.

Heap 4: 1.5x1.5m plus it runs up slope, height 1m. Stones less than 40cm across.

Heap 5: 1.7x1.5m, height 0.4m. Made of many small stones less than 10cm with a few larger stones.

Between heaps 4 & 5 is a drain which comes from a raupo swamp which is on the ridge above the heaps.

continued....

4. Owner N.Z. Forest Service
 Address Waipoua Forest
 Private Bag
 Dargaville

Tenant/Manager Rod Young
 Address O/C Waipoua SF 13

5. Nature of information (*hearsay, brief or extended visit, etc.*) Brief visit by Peter Bristow, Gordon Jackman, Michael Taylor & Robert Pollock.

Photographs (*reference numbers, and where they are held*)

Nil

Aerial photographs (*reference numbers, and clarity of site*)

Nil

6. Reported by Michael Taylor
 Address P.O. Box 3931
 Auckland

Filekeeper
 Date

[Signature]
 28/9/85

7. Key words

Wairau River, stone heaps, drain

8. New Zealand Register of Archaeological Sites (*for office use*)
 NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE DESCRIPTION FORM

Map Number N18
Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference

SITE NUMBER N18/195

SITE NAME: MAORI
OTHER

SITE TYPE Stone heaps, drain

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

Toward the western end of the river flat is a large cone shaped hill of outcropping rock about 10m high. This lies between the swamp and the river flat. At the foot of this stone hill is another possible stone feature, perhaps a collapsed heap, in dense undergrowth.

The river flat is covered by very old kanuka with mapou, kauri, kohekohe, lancewood, nikau, hangehange, and coprosma forming a younger understorey. On the western end of the flat is a medium kauri and a large puriri is located on the rivers' edge.

A permanent marking post made of tanalised pine was placed on the site and marked with a permanent tag bearing the NZAA site number on 25th April 1986. The post is located 10.5m from heap 1 at 33°.

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
 SITE DESCRIPTION FORM

SITE NUMBER N18/195

Map Number N18
 Map Name Waipoua
 Map Edition 3rd, 1975
 Grid Reference 959-098

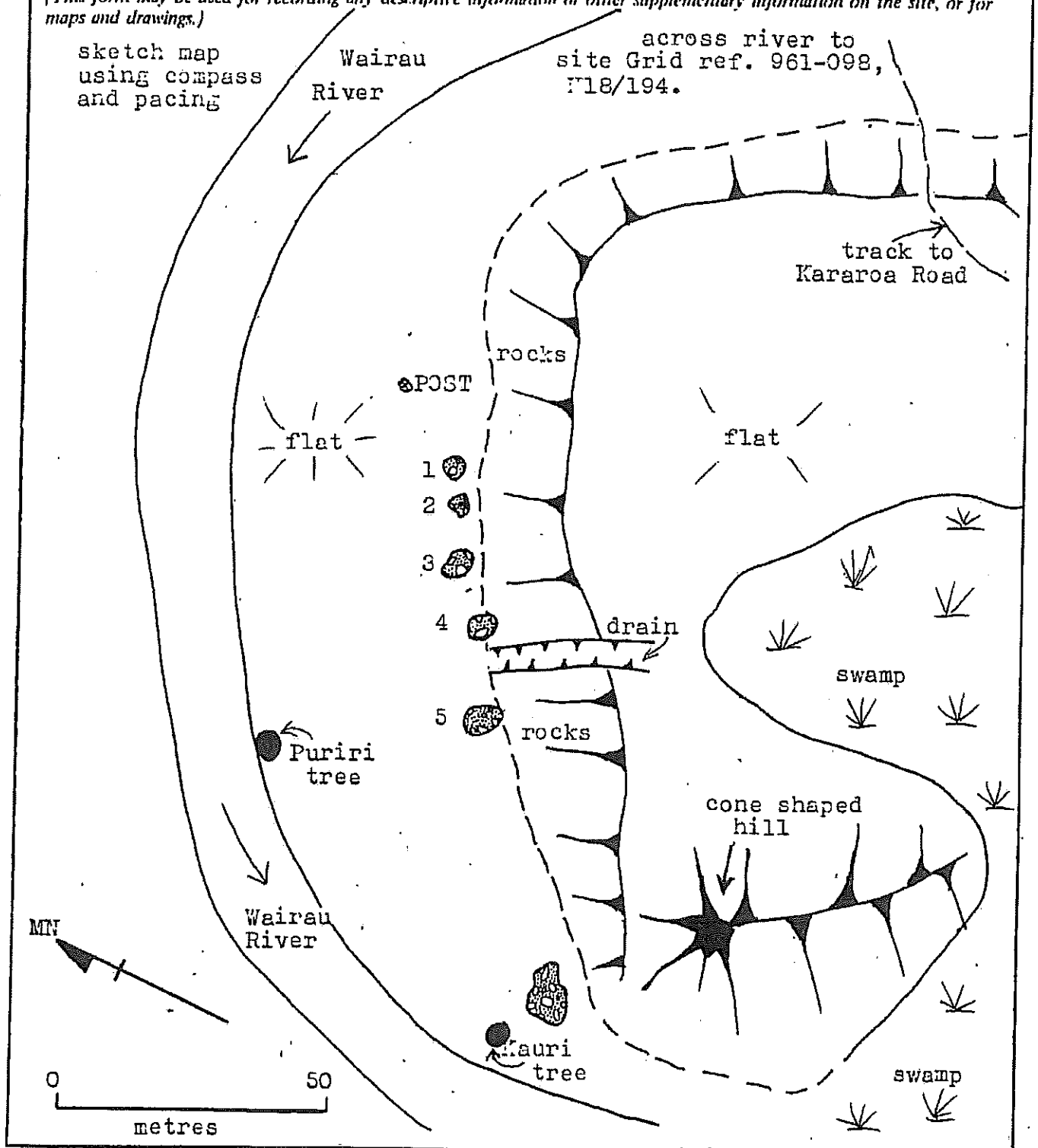
SITE NAME: MAORI
 OTHER

SITE TYPE Stone heaps/ drain

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

sketch map
 using compass
 and pacing

across river to
 site Grid ref. 961-098,
 N18/194.



SITE RECORD FORM (NZMS1)

NZMS 1 map number N18
 NZMS 1 map name Waipoua
 NZMS 1 map edition 1975, 3rd

NZAA NZMS 1 SITE NUMBER N18/196
 DATE VISITED 30 December 1985
 SITE TYPE Stone heaps
 SITE NAME: MAORI
 OTHER

Grid Reference

Easting

9 6 2

Northing

0 9 9

1. Aids to relocation See site plan. Waipoua State Forest 13. Northern bank of Wairau River. Access via Kararoa Road (No. 21). Access at present is via a track from Road 21 marked with red tape. The site is located on the northern river bank on an old river terrace directly up-river from and above the stone heap site at Grid reference 961-098.

2. State of site and possible future damage The site is located in light native bush and is not at risk from forest development. The heaps are partially collapsed.

3. Description of site (Supply full details, history, local environment, references, sketches, etc. If extra sheets are attached, include a summary here)

See site plan attached. Thirteen stone heaps are located at the back of an old flat river terrace, along the base of a ridge. The heaps are constructed of relatively uniform stones. Distances were paced from a tape baseline and heap dimensions were estimated.

Heap 1: 1.5x1m, height 0.5m
 Stones 20-40cm diameter

Heap 4: 1x1.5m, height 40-50cm
 Stones 30-50cm diameter

Heap 2: 1x1m, height 30cm
 Stones 20-30cm diameter

Heap 5: 1x1m, height 50cm
 Stones 20cm plus diameter

Heap 3: 1x1.5m, height 0.5m
 Stones 30-50cm diameter

Heap 6: 1.5x0.75m, height 40cm
 Stones 30cm plus

Heap description continued...

4. Owner N.Z. Forest Service
 Address Waipoua Forest
 Private Bag
 Dargaville

~~Executive~~ Manager Rod Young
 Address O/C Waipoua Forest

5. Nature of information (hearsay, brief or extended visit, etc.) Brief visit by Michael Taylor and Robert Pollock during reconnaissance survey of Wairau River.
 Photographs (reference numbers, and where they are held) Nil

Aerial photographs (reference numbers, and clarity of site)

6. Reported by Michael Taylor
 Address P.O. Box 3931
 Auckland

Filekeeper
 Date

Michael Taylor
 28/9/82

7. Key words stone heaps, Wairau River

8. New Zealand Register of Archaeological Sites (for office use)
 NZHPT Site Field Code

Type of site

Local environment today

Land classification

Present condition and future danger of destruction

Security code

Local body

The Waipoua Archaeological Project

Tony Walton,

Archaeological sites had been noted at Waipoua by New Zealand Forest Service officers and others for decades before the Historic Places Amendment Act 1975 provided a statutory requirement for their protection. As a result of this legislation, the first detailed systematic survey at Waipoua State Forest was undertaken in 1979 (Papworth 1980). The survey found extensive, and generally well-preserved, remains of stone features in the forest, along with numerous pit and terrace sites. The stone features were interpreted as evidence of widespread prehistoric gardening, an interpretation supported by the presence of storage pits in close proximity. The sites presented a management problem for New Zealand Forest Service as many were planted in pines and were vulnerable to damage when the trees were harvested.

After a period of discussion and further fieldwork, a review of management was undertaken, and the setting aside of a substantial area as a historic reserve was suggested. Methods were subsequently identified to minimise damage from logging.

The Waipoua Archaeological Project was set up by New Zealand Forest Service in 1985 to advise on research and manage archaeological and historical sites in Waipoua Forest. An Advisory Committee was set up with representatives of New Zealand Forest Service, New Zealand Historic Places Trust, and Te Roroa. The committee met 18 times over the next four years.

New Zealand Forest Service saw the project as having a focus on the management of sites and resisted suggestions of a need for a research component or a wider research effort. Priority was given to investigating sites which were at risk from logging. The remains were recognised as important to Te Roroa because of their historical and spiritual associations. Details of some 60 named places of importance to Te Roroa were prepared by iwi. The New Zealand Historic Places Trust was concerned to ensure that a representative group of places were set aside for protection, and that sites that could not be saved were investigated. It also wanted research to be part of the mix (Smith 1986b), but its research proposals were rejected by the Advisory Committee.

There is little evidence to suggest that the different parties, and the Advisory Committee itself, achieved any degree of unanimity on what should be done. The requirements of the Treaty of Waitangi were central to many of the disagreements between the parties and the different agendas and disputes between them. These were the subject of considerable evidence to the Waitangi Tribunal when it considered Te Roroa's claims against the Crown between 1989 and 1991 (Waitangi Tribunal 1992). The lack of formal publication of the archaeological work, which was partly due to the lack of a research framework, has meant that the project has received little attention from archaeologists and this, in turn, has been an encouragement to those who allege that there has been collusion between iwi and Department of Conservation to withhold and suppress information.

Work that was undertaken under the auspices of the Waipoua Archaeological Project focused on identifying sites and on their management requirements (Taylor and Sutton 1985), including closer definition of the proposed reserve area (Taylor and Sutton 1986). Responsibility for the project passed to Department of Conservation in 1987 and was eventually wound down once the Department's focus shifted to other priorities.

Much material that was produced during the life of the project was management-orientated and took the form of unpublished reports or file notes. These reports are available on request from agencies that hold them. Many of the reports are available from the New Zealand Historic Places Trust digital library. Material transferred to National Archives was initially embargoed until 2063, but all restrictions were removed in 1996. No good evidence have been produced to support the claims that "celtic" occupation preceded Maori occupation (For a brief critical overview of the celtic theory see Riddell (2004).

Among the numerous and extensive stone structures at Waipoua are a small number which are striking in their regularity and appearance. It has been suggested that these are Maori ceremonial structures, but alternative interpretations have also been promoted. The mass of stone remains are frequently referred to on the internet as a stone city; This is an interpretation entirely at odds with the archaeological interpretation of the stone structures as related to gardening.

What excavations were undertaken?

Forest Service investigations began in 1982 when small excavations were undertaken at 3 pit and terrace sites (N18/94, 105, 107). The pits represented storage of kumara close to garden areas. The excavations undertaken by the Forest Service were limited in extent and produced only restricted information. Interim reports were completed and submitted to New Zealand Historic Places Trust but no final reports have appeared.

The largest excavations were undertaken in 1985 and involved a team made up of tangata whenua, New Zealand Forest Service staff, and Auckland University staff and students. They uncovered 255 m² at Pawherowai (N18/186) and 142m² at N18/179 (Smith 1986a). Three periods of activity were identified, with evidence of pine planting (c.1930s-1940s), a gumdigger's camp (c. 1870), and Maori garden plots.

Site number	Site type	period	Features confirmed. * denotes radiocarbon date obtained
N18/85	Mounds/stone structures	1986-7	Stone heaps indicate gardening but little definite evidence was obtained
N18/94	Pits/terraces	1982	Pit excavated
N18/102	Pits/terraces	1985-6	two features, one an oven, and a large rectangular pit were partially excavated *
N18/103	Pits/terraces	1985-6	Pit excavated *

N18/105	Pits/terraces	1982	Pit excavated
N18/107	Pits/terraces	1982	Pit excavated
N18/109	Stone structures	1985-6	Trench dug to examine soil profiles
N18/111	Cooking debris	1985-6	Charcoal and burnt stones accidentally unearthed investigated
N18/177	Terrace	1985-6	Stone-edged hearth and stone artefacts interpreted as site of a whare *
N18/179	Stone structures	1986	Gardening and a gumdigger's camp
N18/185		1985-6	Potential habitation area investigated without result. Elsewhere on site soil profiles provided evidence of gardening
N18/186	mounds	1986	Evidence of gardening including stone clearance, stone and earth mounds and drains
N18/219	midden		Midden excavated and contents analysed *

Five radiocarbon dates were obtained from excavations at N18/102, N18/103, N18/177 and N18/219 (Higham and Hogg 1997:162-163). Given subsequent claims that the radiocarbon dates were suppressed, it is noteworthy that they appeared in print as early as 1997 in a list prepared by the laboratory itself.

Site number	Material	Years BP	2 sigma range in Years AD	Lab number
N18/102	Identified charcoals	480±45	1367-1464	Wk1088
N18/102	Identified charcoals	360±50	1454-1658	Wk 1087
N18/103	Identified charcoals	570±105	1280-1520, 1570-1624	Wk 1084
N18/177	Identified charcoals	460±45	1423-1512, 1577-1620	Wk 1085
N18/219	Shell (Turbo smaragda)	600±45	1552-1811	Wk 1083

The dates from sites in the river valley indicate settlement there within the period from late 13th century to the early 17th century. The shell date is from a coastal midden and is from some time in mid 16th to early 19th century. These dates were calibrated by Bruce McFadgen using the smoothed NZ Pine-Cedar and marine curves.

The area of the proposed archaeological reserve in the river valley is proposed to be given to Te Roroa as part of the settlement of their Treaty claims.

A study of vegetation changes burning fires in Waipoua forest concluded That early clearance the earliest burning occurred before 1400 (Ogden, Deng, Boswijijk, & Sandiford 2003): Three additional radiocarbon dates were reported by this study for Tarahoka clearing.

The study collected pollen, radiocarbon and dendrochronological data to document the formation of the clearing ca 1460 AD, its maintenance by fire, and abandonment about 400 years later.

	Material	Years BP	calibrated date range	Lab number
	Peat	Modern	1800	Wk 8832
	Soil	487±60	1320--16400	Wk 9093
	Twigs/leaves	1440±60	530-780	Wk 9094

The dates above are cited above as published. This research was not undertaken as part of the Waipoua Archaeological Project.

Summary

1. Waipoua Archaeological Project was set up by New Zealand Forest Service in the 1980s to assist it to manage archaeological and historical sites in Waipoua Forest. There was an Advisory Committee with tangata whenua and New Zealand Historic Places Trust representatives.
2. Some limited excavation was done, but no formal research programme was undertaken. Archaeologists working on the project identified stone features in the Waipoua Valley as of Maori origin, mostly associated with gardening, and probably in use some time in the period between the late 13th to early 17th centuries. The lack of a research framework resulted in disjointed and piecemeal work, much of which is unpublished.
3. Information on the archaeological work undertaken at Waipoua is publicly available on request to New Zealand Historic Places Trust and the Department of Conservation, and National Archives

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NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION

SITE DESCRIPTION FORM

Map Number N18
 Map Name Waipoua
 Map Edition 1975, 3rd
 Grid Reference 962-099

SITE NUMBER N18/196

SITE NAME: MAORI
 OTHER

SITE TYPE Stone heaps

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

Heap description continued from site record form...

Heap 7: 1x0.75m, height 40-50cm
 Stones 20cm diameter & one larger
 stone 1x0.5m.

Heap 8: 1.5x1m, height 30cm
 Stones 20cm plus diameter

Heap 9: 1.5x1.5m, height 50cm
 Stones 20cm plus diameter

Heap 10: 1x0.8m, height 20cm
 Stones 20cm. Loosely scattered.

Heap 11: 1.5x1.5m, height 1m
 Stones 10-20cm diameter

Heap 12: 1.5x1m, height 50cm
 Stones 30-40cm diameter

Vegetation on the site is predominantly makamaka, but larger trees include ti-tree, mapou, tanekaha and fern trees. Smaller trees c50cm high include kauri and nikau.

About 20m northeast of the heaps the river terrace drops off over a steep bank onto a lower level where there is situated a small swamp with a shallow drain that runs down to the river. These may be modified natural features.

The site was permanently marked with a tanalised fence post and marked with a tag bearing the NZAA site number on 25 April 1986. The post was positioned 11.5m at 75° from Heap 13(see plan).

NEW ZEALAND ARCHAEOLOGICAL ASSOCIATION
SITE DESCRIPTION FORM

SITE NUMBER N18/196

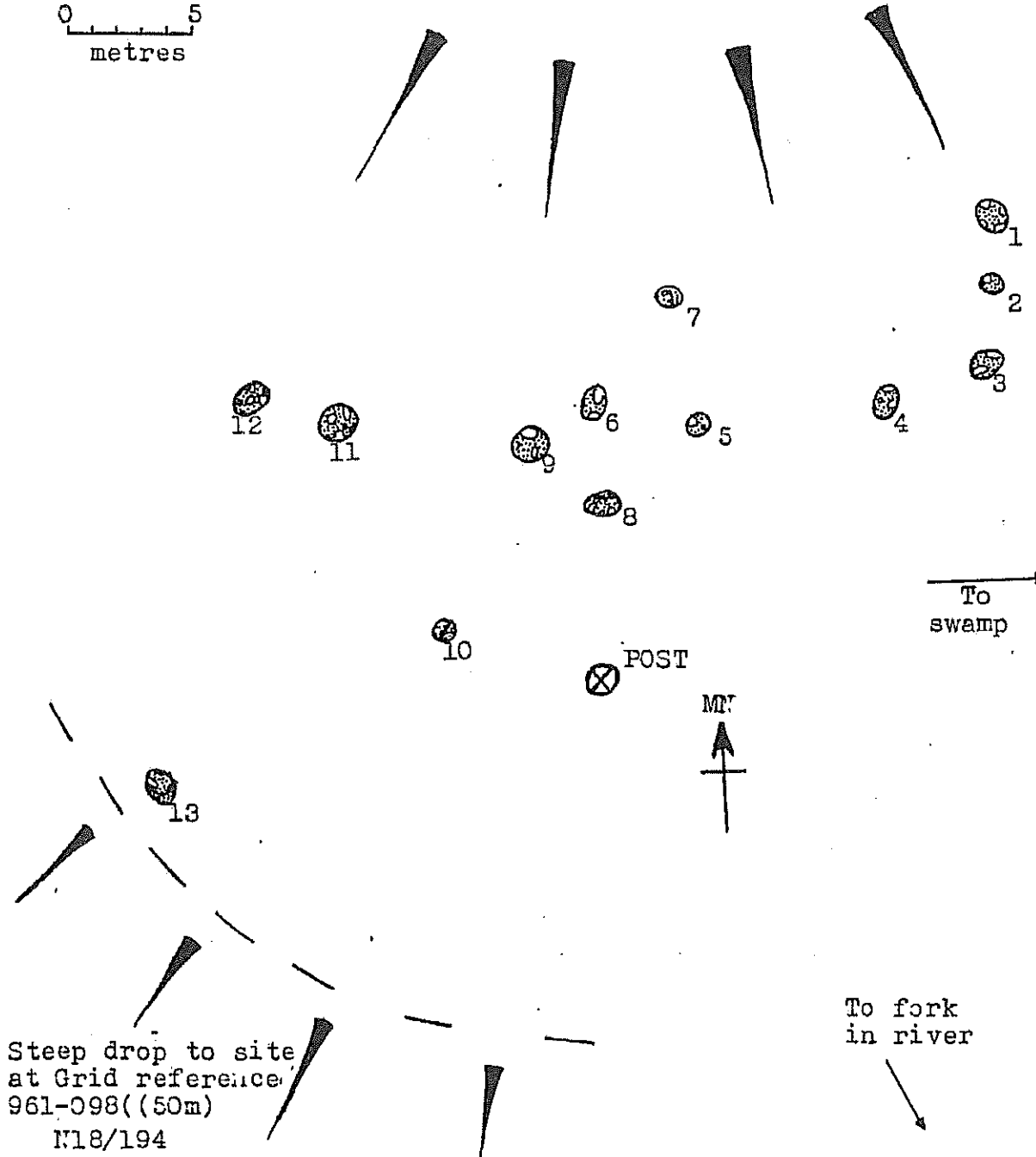
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Map Name Waipoua
Map Edition 3rd, 1975
Grid Reference 962-099

SITE NAME: MAORI
OTHER

SITE TYPE Stone heaps

(This form may be used for recording any descriptive information or other supplementary information on the site, or for maps and drawings.)

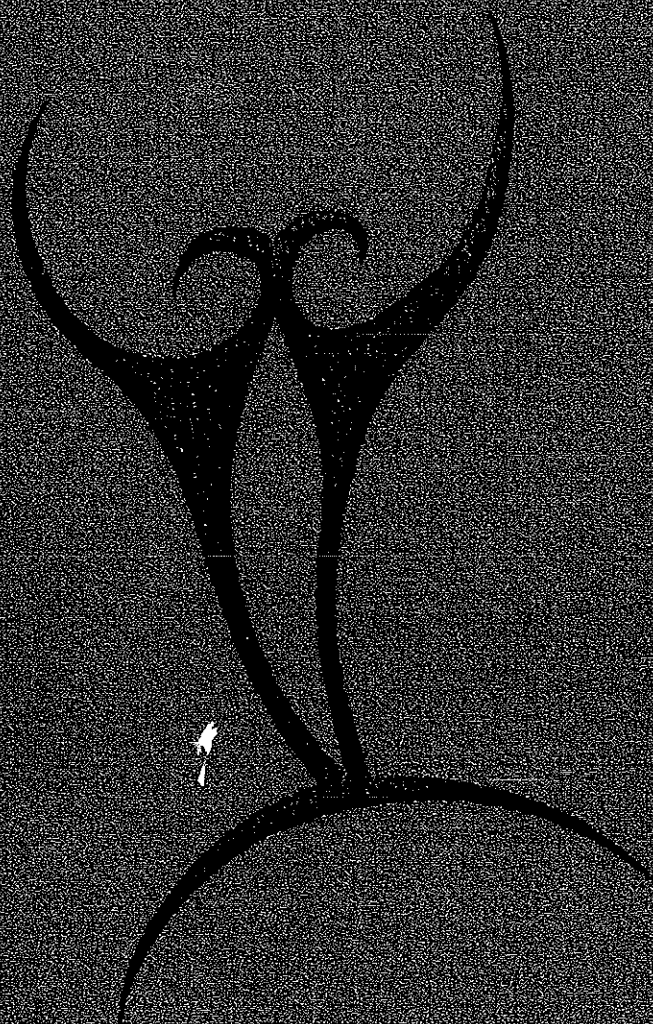
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Waipoua Archaeology Research
design and investigation proposal

Ion Smith

1987



FINDEXDUC (Committee)
No 6 Minutes Draft submitted to HPT. (Wgln) 20/2/87
(Archaeology Committee Meeting)
4 March.

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Initials:

WAIPOUA ARCHAEOLOGY:

RESEARCH DESIGN AND INVESTIGATION PROPOSAL

Contents

Introduction	1
Site Management and Previous Investigations	3
Research Design	
Context	5
Objectives and Hypotheses	8
Strategies	8
Study Areas	10
Investigation Proposal	
Organisation	15
Personnel	17
Publications	18
Administration	18
Budget	19
Permits and Authorities	19
Summary	20
References	21
Appendices: One	24
Two	25
Three	26

Ian W.G. Smith

Anthropology Department
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January 1987

Waipoua Archaeology: Research Design and Investigation Proposal

Introduction

Archaeological investigations in the Waipoua River Valley are required because logging of exotic forest threatens the survival of a significant area of archaeological sites. Intensive surveying within the valley (Charters 1982a, Moore 1984, Papworth 1980, Taylor and Sutton 1985, Taylor 1986a) has revealed some 130 sites (Figure 1). The archaeological significance of these sites on both regional and national levels, their aesthetic qualities and their importance to the local Maori community have been discussed in detail elsewhere (Coster 1983, Smith 1986b, Taylor 1986b).

All but five of these sites are within the boundaries of the Waipoua State Forest; the remainder on immediately adjacent private lands. Although 38% of these sites are beneath native vegetation and under little threat from development, the remainder are within areas of exotic plantation. Of these 42% are in mature stands of pine due for logging by 1989. A further 58% are within exotic plantations which will come to maturity over the following 30 years. As a condition of Authorities to modify these sites by logging, the N.Z. Historic Places Trust will require a series of detailed archaeological investigations.

This proposal outlines a three year programme of archaeological investigations in the Waipoua Valley. It is designed in such a way that while investigations will be concentrated upon those sites under immediate threat they can elicit information pertaining to the whole valley, and thus

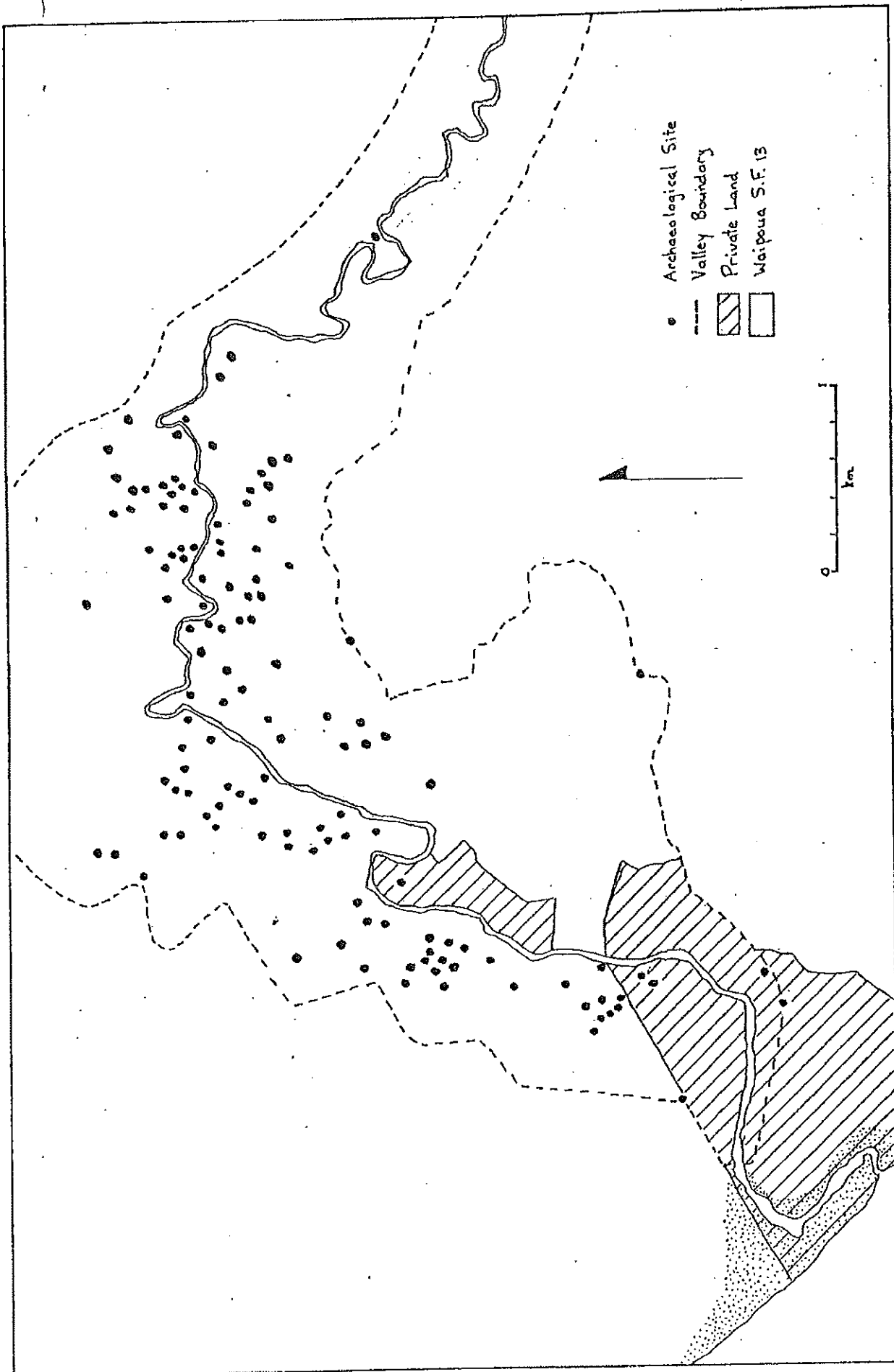


Figure 1: Archaeological Sites in the Waipoua River Valley

obviate the need for major investigations of other sites as logging proceeds in the future.

Site Management and Previous Investigations

This proposal is in keeping with current plans for site management at Waipoua (Coster 1983, Lawlor 1985, 1986). These involve a two-pronged strategy: permanent protection of a representative sample of sites, based predominantly around those in native vegetation; and investigation of an equally representative sample drawn predominantly from the sites within pines, but selected in accordance with a clearly formulated research proposal.

There has been considerable progress towards implementation of the first part of this strategy. The concept of an archaeological reserve has been agreed to in principle by the New Zealand Forest Service (Lawlor 1986), and a committee with representatives from the Forest Service, N.Z. Historic Places Trust and the Tangata Whenua has been formed to oversee its establishment and future management. Boundaries for the area to be protected have been defined on the ground through consultation between archaeologists and Forestry personnel at Waipoua (Taylor 1986b). It is expected that after 1 April 1987 this reserve will come under the stewardship of the Department of Conservation, although cutting rights over the exotic species within this area will be held by the Forestry Corporation.

Progress on the second front has been somewhat slower. Only limited investigations have been undertaken to date, and until now there has been no clearly defined strategy by which future research should be pursued. Following minor investigations in 1970 (Taylor pers.comm.) and 1982 (Charters 1982b), the Waipoua Archaeological Project was instigated in 1985. While its principal objective was investigation of sites under threat from logging operations (Lawlor 1984) it has, of necessity, concentrated as much upon site management activities as it has upon investigations (Taylor and Sutton 1985, Taylor 1986a). Nevertheless Stages One and Two of the Project have seen completion of a thorough resurvey of the areas under immediate threat, clearing and mapping of surface evidence at 16 sites, test excavations at 7 of these and more extensive subsurface investigations at a further four (Smith 1986a, Taylor and Sutton 1985, Taylor 1986a).

Preliminary analysis of the data from these investigations indicates that most of the sites derive from prehistoric Māori occupation of the valley. They appear to include areas for habitation, gardening, food storage and perhaps for ceremonial activities.

These investigations have also permitted a more thorough evaluation of the significance of the Waipoua sites (Smith 1986b), clarification of the general objectives towards which future research should be directed (Smith 1985), and have been used here as a basis for defining more specific research objectives and determining the strategies by which these might best be achieved.

Research Design

Context

Formulation of an appropriate research design requires not only evaluation of the specific characteristics of the sites, but also consideration of their wider context. The central portion of Northland's west coast (Figure 2) is not well known archaeologically. Apart from Waipoua, the only area in which intensive site surveying has been undertaken is on Kaipara North Head (Coster and Johnston 1976, 1980, Harnett 1972, Irwin 1985). Elsewhere some sites have been reported from Maunganui Bluff, the coastal strip between Kawerua and Hokianga South Head, and from the Waimamaku Valley (Atwell, Puch and Lawn 1973, Atwell and Puch 1973, Hayward 1975) but none of these areas has been thoroughly surveyed.

Other than the sampling of one midden at Kawerua (Spencer 1969), subsurface archaeology has been confined to Irwin's (1985) recent investigations of fortified sites at Poutu. These showed that the area has been occupied since at least 500 B.P. but that most of the pa investigated belong to the last one and a half centuries of the prehistoric period.

Although the area has seen little archaeology there have been speculations about its prehistory. On the basis of their compilations of traditional evidence, both Smith (1896) and Simmons (1971) proposed a complex series of migrations through the North West Coast region and suggested that the middle period of its prehistory was characterised by intensive warfare. Groube (1970:155) saw in this an explanation for the origin and dispersal

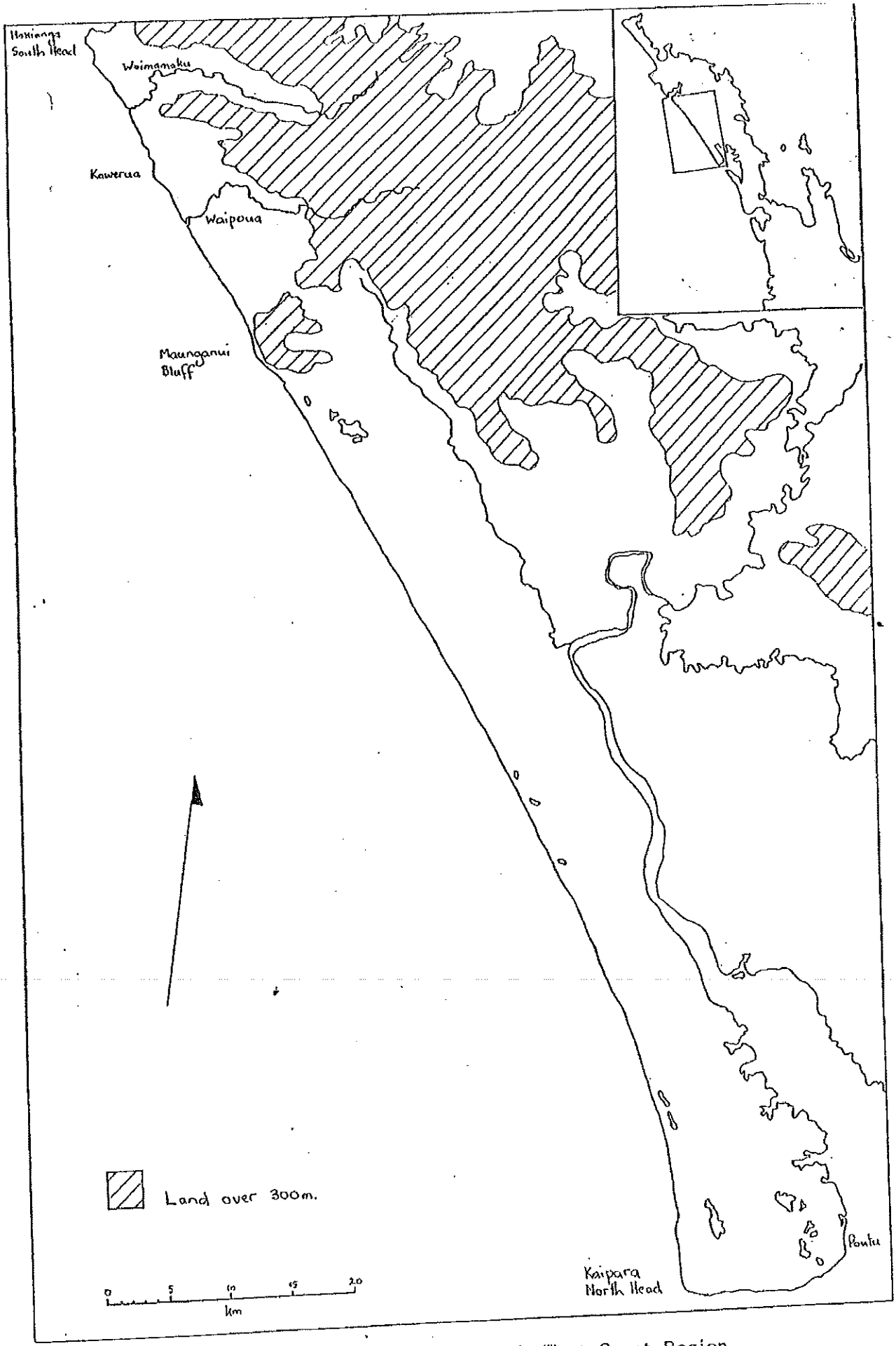


Figure 2: The Central North West Coast Region

of the ring-ditch style of fortification, suggesting that "the region between Hokianga and North Kaipara Head, where hundreds of forts await survey, should yield evidence of the development of this new style".

There has been little in the more recent work on pa to support this hypothesis (Irwin 1985:73-9), and direct archaeological testing of it would require investigations on a much broader scale than is possible in the present context. However Waipoua does provide opportunities to begin examining some of the assumptions which underlie it. Groube argued that both inter-group rivalry and outward migration from Northland were stimulated by the pressure of a rapidly growing population on the cleared land available for horticulture. If investigations at Waipoua can document changes in population size and patterns of land use then some progress may be made towards evaluating this relationship.

Also at issue is the timing of these phenomena. Groube (1970:142) proposed that population growth was rapid by the middle of the 14th century A.D. with an efflorescence of pa building continuing into the 15th century. More recently Davidson (1984:192-3) has placed this expansion in the 15th and 16th centuries. In contrast Irwin (1985:111) has commented on the relative lateness of the settlement system at Poutu, where most of the pa he investigated were constructed in the late 17th or 18th century (ibid.:71-73).

Objectives and Hypotheses

These wider considerations suggest that the principal objectives of the proposed research should be to investigate the extent, timing and causes of prehistoric population growth in the Waipoua Valley.

The approach that will be used involves comparison of sections of the valley that appear to differ in terms of their attractiveness for settlement and their potential for sustaining horticultural production. Preliminary analysis of soils and land form suggest that the lower and middle sections of the valley (Figure 3) would have been settled earlier and more intensively than the upper valley. As a corollary of this it could be expected that a concentration of contemporary settlement in the upper valley would reflect population growth.

Strategies

Testing of these hypotheses will require confirmation of the purported variations in productivity of various zones within the valley, comparison of the form, frequency and size of settlements associated with these, and dating of any changes in patterns of land use and settlement.

Three principal types of analysis will need to be undertaken. Some background environmental research will be necessary to clarify variations in resource availability and productivity, and to document possible changes in vegetation history and the form and distribution of alluvial sediments on the valley floor. This will require specialist analysis of pollen cores, soils and sediment samples.

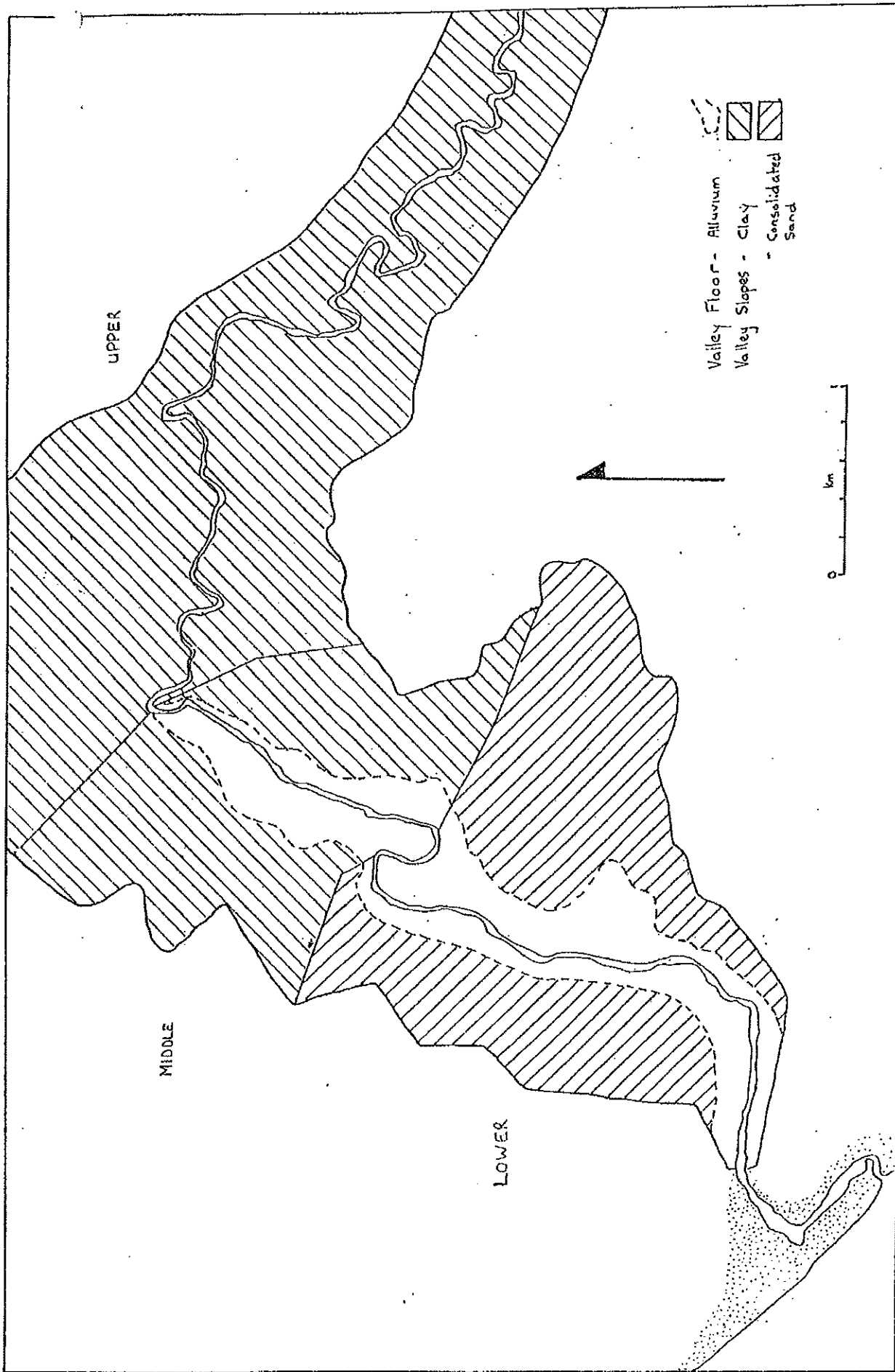


Figure 3: Waipoua River Valley: Landform and soils

Detailed mapping of the archaeological evidence will be necessary to reconstruct the settlement pattern. It is proposed that this should be concentrated within two study areas (see below), each within a different section of the valley, to provide a basis for comparative analysis. Much of this work has already or soon will be completed as part of the on going site management activities of the Waipoua Archaeological Project.

Excavations will also focus upon sites within the study areas. It is intended that these should be concentrated upon terrace sites, with a lesser emphasis upon stone structures and pits, as the former are most likely to yield data pertinent to the hypotheses outlined above. In general the excavations will be directed towards the clarification of site/feature function, determining whether there was single or multiple phase occupation, and the recovery of samples for dating and vegetation reconstruction.

Study Areas

The two areas in which it is proposed to focus investigations are based around the sites under immediate threat from logging operations. However in each case a somewhat wider area has been selected for analysis in order to include a sufficiently large and representative sample of sites. These areas are located in the upper and middle sections of the valley. The lower valley is, for the most part, outside the boundaries of the Waipoua State Forest, and thus not available for investigations in the present context.

Study Area One: Compartment 5 (Figure 4) occupies the south bank of the upper valley. Of the 31 sites recorded there (Papworth 1980, Taylor and Sutton 1985, Taylor 1986a, 1986b), 24 are within or immediately adjacent to exotic plantations due for logging by 1989. The remainder are in native bush.

This area has been the focus of most of the investigations already undertaken at Waipoua. To date mapping has been undertaken at 16 sites, test excavations at six, and more extensive excavations at another four.

The site types represented in this area are summarised in Table One. They appear to be distributed in four or five clusters, each comprising several terraces, groups of pits and areas of stone heaps and mounds. Larger, more formally constructed stone structures appear to be confined to two areas, each located centrally to several of the other site clusters.

The sites at which it is proposed to excavate (see below), have been selected so as to permit evaluation of the contemporaneity of features both within and between site clusters, and assessment of the relationships between these clusters and the areas of more formally constructed stone structures.

Study Area Two: Compartment 15 and the northern half of Compartment 14 (Figure 5) occupy the northwest bank of the middle valley. Thirty sites have been recorded in this area (Papworth 1980, Taylor and Sutton 1985, Taylor 1986a, 1986b). Logging in the immediate future threatens seven sites in and on the boundary of Compartment 15, while thirteen sites in Compartment 14 are within or immediately adjacent to pines that have yet to reach

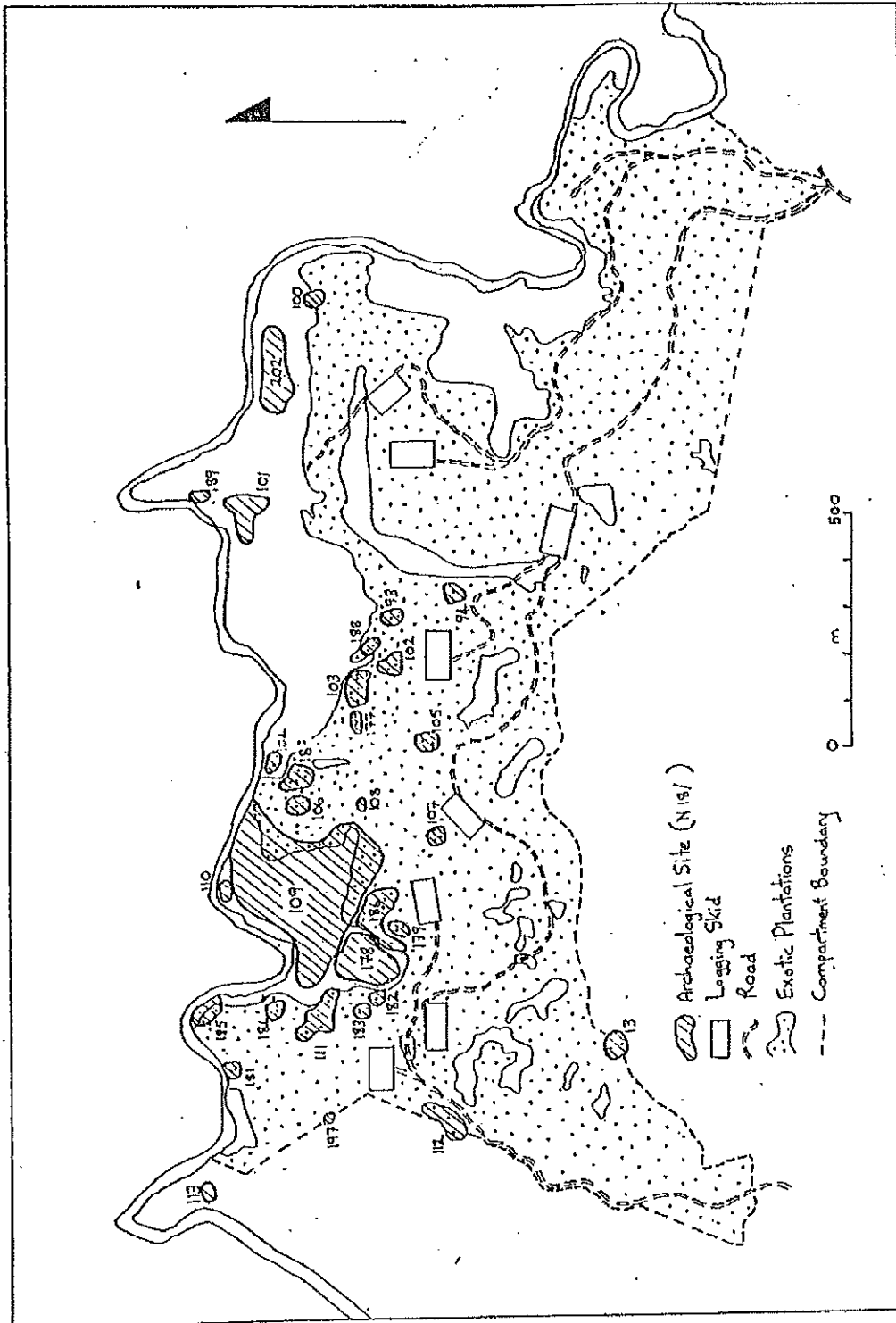


Figure 4: Study Area One: Compartment 5

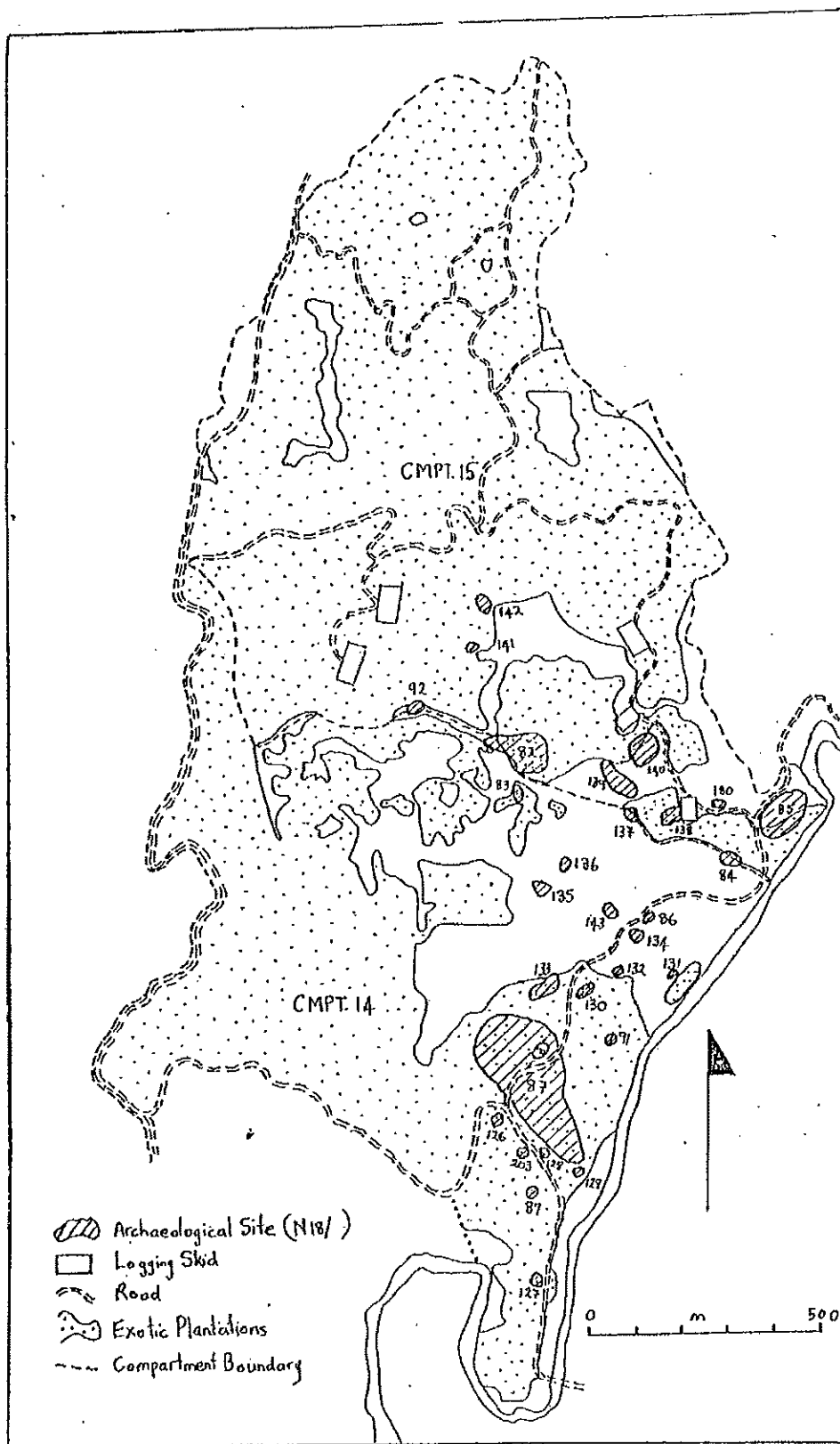


Figure 5: Study Area Two: Compartments 15 and part 14

TABLE ONE Site Types and Investigations in Study Area One

Site Type *	Total Sites	Previously Tested	Exc.	Proposed Excavation
Pa	1 (destroyed)			
Terrace	4		1	2
Pit/tce.	6	2	1	1
Pit	9	2		
Stone heaps	12	2	1	1
Formal St.Str.	2			1
Historic	1+		1	

Note: * Categories are not exclusive, therefore totals are greater than the number of sites.
 + Gum holes and horse tracks are also present but have not been recorded as archaeological sites.

TABLE TWO Site Types and Investigations in Study Area Two

Site Types *	Total Sites	Previously Tested	Exc.	Proposed Excavation
Pa	1			1
Terrace	1			1
Pit/tce.	6			2
Pit	11			1
Stone heaps	11	1		1
Formal St.Str.	2			1

Note: * see above.

maturity. The remaining ten sites are in native bush. Six sites have been partially or completely mapped, and test excavations undertaken at one.

This area is similar to Study Area One in terms of the site types represented (Table Two), although differing somewhat in their numerical representation. It also seems to lack the clearly clustered pattern of site distribution, perhaps reflecting longer and more intensive occupation. The sites selected for excavation (see below) have been chosen in part to cover the range of site types present and sample different localities within the study area, but also to mirror the site types investigated in Study Area One and thereby provide a basis for comparative analysis.

Investigation Proposal

Organisation

Implementation of the research design outlined above will require excavations at twelve sites. It is proposed to undertake these during four seasons of fieldwork conducted over a period of three years as outlined below. Some modifications may be required to the timing of particular investigations and the selection of sites, particularly in Seasons Three and Four, to accommodate both progressive refinement of the research objectives and changes in the proposed logging programme.

Analysis of the material recovered from these excavations, investigation of the broader aspects of the research design outlined above, and the writing of reports will be undertaken in the periods following each fieldwork season.

Season One: March - April 1987.

This will involve three weeks excavation at sites N18/106 and N18/187 (Compartment 5). It is essential that these investigations are undertaken before the winter of 1987 as it is planned to log these sites during the following summer.

N18/106 comprises three terraces on a spur above the Waipoua River. Excavations here would open as large an area as practicable on at least two of these terraces.

N18/187, immediately adjacent, and probably related to the above site is an area of stone heaps and stone faces terraces. Selected features would be investigated to establish their function.

Season Two: Summer 1987-1988.

Eight weeks of excavation at four sites.

N18/103 (Compartment 5). Two weeks excavation on the terrace component of this pit/terrace site. Pits here have already been excavated (Taylor 1986a).

N18/109 (Compartment 5). One weeks excavation in the vicinity of the formal stone structures near the perimeter of this very large site. Test excavations have already been conducted on stone structures of different styles elsewhere in this site (ibid.).

N18/184 (Compartment 5). Two weeks excavation on the two terraces which make up this site. If recent logging in its vicinity has damaged these features, attention could be focussed instead upon the terrace components of the nearby pit/terrace site N18/111.

N18/85 (Compartment 15). Three weeks excavation of formal stone structures and other features.

Season Three: Summer 1988-1989.

Eight weeks excavation at three sites.

N18/87 (Compartment 14). Four weeks excavation of selected areas and features within this very large site, which includes the most diverse range of stone structures recorded at Waipoua.

N18/91 (Compartment 14). Two weeks excavation of pits and midden. This is the only site in the two study areas from which midden has been reported.

N18/142 (Compartment 15). Two weeks excavation at this pit/terrace site.

Season Four: Summer 1989-1990.

Eight weeks excavation at three sites.

N18/82 (Compartment 14/15). Four weeks excavation on selected features of this pa site.

Two weeks excavation at each of two sites selected from N18/128, 134, 135, 136 or 203, all pit/terrace sites in Compartment 14, or N18/180, a terrace site in Compartment 15.

Personnel

Conducting this research will require the employment of two people full-time for the duration of the project, and a further six people during each season of fieldwork. Both full-time personnel must be suitably qualified archaeologists. The director will be responsible for the overall organisation and supervision of the project, directing most of the excavations, organising the analysis of materials and writing up the results. The full-time assistant will help with organisation, analysis and writing, and direct some of the excavations.

The assistants employed during fieldwork should include up to three members of the local Maori community at Waipoua, if available, with the remainder being suitably qualified archaeologists. The employment of Tangata Whenua has been recommended by the Te Roroa Waipoua Archaeological Advisory Committee as a means of developing at a local level the skills necessary for ongoing management and protection of the sites.

Publications

The director and full-time assistant should be responsible for the production of a number of reports and publications detailing the results of the project. The minimum requirements in this regard should be: preliminary reports summarising the work undertaken during each fieldwork season; full reports detailing the results of each excavation; and a final report which summarises the results and conclusions of the project. Additional publications for both scientific and wider audiences may also be produced.

Administration

Administration of the project can best be undertaken through the Anthropology Department of the University of Auckland, which has had an ongoing interest in the previous investigations at Waipoua. The University charges at 10% of the salary component of budget for administration. Institutional support, including rental of room/laboratory space, vehicle and field equipment would also be provided by the University.

Budget

A budget for the proposed investigations is set out in Appendix One. It has been costed in accordance with procedures acceptable to the University. Figures for Year One are based upon current costs, with 10% p.a. allowed for inflation in each of the subsequent years. However contractual arrangements would be necessary to allow for cost increases beyond that level.

The rates of pay for the director () and assistants () are based upon Public Service pay scales recommended by the N.Z. Historic Places Trust.

The fieldwork components have been costed on the basis of a six day working week for 11 weeks in the first year (Seasons One and Two), and 8 weeks in each of the subsequent years. Room hire/laboratory rental covers the periods not spent in fieldwork during each of those years.

Transport costs have been calculated on the basis of current University van rental charges, estimated mileage and fuel consumption. They include components for travel both during the major periods of fieldwork, and to and from Waipoua during the remainder of the year.

The allowance for analysis of radiocarbon samples is based upon actual costs, while those for pollen and soil analysis are estimates as precise costings are not yet available.

Permits and Authorities

The sites for which Excavation Permits and Authorities to Modify will be required are detailed in Appendices Two and Three.

Summary

1. Logging of exotic plantations in Compartments 5 and 15 of the Waipoua State Forest threatens the survival of a significant area of archaeological sites.
2. Archaeological investigations of a sample of these sites, selected in accordance with a clearly formulated research proposal, will be required by the N.Z. Historic Places Trust as a condition of authorities to modify the sites by removal of the trees.
3. The principal objectives of these investigations should be to evaluate the extent, causes and timing of prehistoric population growth in the Waipoua River Valley.
4. Twelve archaeological sites in Compartments 5, 14 and 15 of the Waipoua State Forest should be excavated.
5. These excavations and subsequent analysis and report writing will require a term for the project of three years.
6. The project should commence in March 1987, or as soon thereafter as possible, to permit investigation of sites that will be logged during the following summer.
7. A director and assistant will need to be employed full-time for the term of the project, and six further assistants employed during each of four seasons of fieldwork.
8. The project should be administered by the Anthropology Department, University of Auckland.
9. The total budget for the project is \$496,914.17.

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APPENDIX ONE: BUDGET

	YEAR ONE	YEAR TWO	YEAR THREE
1. <u>Wages:</u> (a) Full-time			
1 Director	\$13.87/hr x 2080 hrs	28,849.56	34,908.01
1 Assistant	\$11.99/hr x 2080 hrs	24,939.20	30,176.43
6 Assistants	\$11.99/hr x 728 (38w)* hrs	37,984.32	33,426.20
	91,773.12	85,555.14	98,510.64
2. <u>Field Expenses:</u> \$35/day x 8 people x 66 (48)* days	18,480.00	14,784.00	16,262.00
3. <u>Transport:</u> (a) Fieldwork - rental 2500 (2000)* km @ \$0.60/km	1,500.00	1,320.00	1,452.00
- fuel	250.00	220.00	242.00
(b) Other - rental 2000 km @ \$0.60/km	1,200.00	1,320.00	1,452.00
- fuel	200.00	220.00	242.00
4. <u>Field Equipment:</u> \$200/week x 11 (8)* weeks	2,200.00	1,760.00	1,926.00
5. <u>Room Hire/Laboratory Rental:</u> \$3/hr x 1640 (1760)* hrs	4,920.00	5,308.00	6,388.80
6. <u>Specialist Analysis:</u> (a) radiocarbon \$700/sample x 16 (10)*	8,000.00	5,500.00	6,050.00
(b) pollen	4,000.00	-	-
(c) soils	2,000.00	-	-
	134,523.12	120,487.14	132,535.44
7. <u>Incidentals:</u> (Plastic bags, Film, Stationery, Report Production etc.)			
10% of items 1 - 6	13,452.31	12,048.71	13,253.54
	147,975.43	132,535.85	145,788.98
8. <u>Administration:</u>			
10% of Total Wages	9,177.31	8,955.51	9,851.06
9. <u>G.S.T.</u>			
10% of items 1 - 7	14,797.54	13,253.59	14,378.90
	171,950.28	154,744.95	170,218.97
<u>TOTAL WAGES</u>			
	171,950.28	154,744.95	170,218.97

Total Cost over Three Years 496,916.17

* Years Two and Three

Appendix Two: Excavation Permits

Excavation Permits will be required for the following sites. The director of the research project should apply to the N.Z. Historic Places Trust for these in the months preceeding each season of fieldwork. The Trust should also be informed of any changes in the proposed logging programme or refinement of the research objectives which necessitate modifications to this selection of sites or the timing of particular investigations.

Season One:	N18/106	Terraces
	N18/187	Stone structures
Season Two:	N18/103	Terrace/pits/stone heaps
	N18/109	Stone structures
	N18/184 (or N18/111)	Terraces Pits/terraces)
	N18/85	Stone structures
Season Three:	N18/87	Stone structures
	N18/91	Pits/midden
	N18/142	Pits/terrace
Season Four:	N18/82	Pa
	Two sites selected from N18/128, 134, 135, 136, 180, or 203. Pits/terraces	

Appendix Three: Authorities

The following sites are within or immediately adjacent to exotic plantations in the Waipoua River Valley. Authorities to modify these sites will be required prior to logging. In some cases excavation will be necessary before the granting of Authorities (Appendix Two).

General conditions which should apply to all these authorities have been outlined elsewhere (Smith 1986b), as have procedures that should be followed when logging specific sites in Compartments 5 and 15 (Taylor and Sutton 1985).

The exotic species presently planted on or adjacent to these sites are indicated below, along with the year of planting. Sites that are to be cleared of pines, not replanted, and included in the proposed archaeological reserve (Taylor 1986b) are indicated below thus *. All site numbers are prefixed N18/.

1. Sites in areas due for logging by 1989

Compartment 5

(a) Logged January 1987

* 179	Gum diggers camp	Pinus patula 1938
* 182	Stone heaps	P.patula 38
* 183	Pit	P.patula 38
* 184	Terraces	P.patula 38
* 186	Stone heaps	P.patula 38/P.taeda 39 "

(b) 1987-89

	13	Pa/findspot	P.palustris 37
*	93	Pits/terrace	P.echinata 40
	94	Pits/tce	P.echinata 40
*	102	Pits/tce	P.echinata 40
*	103	Pits/tce/stone heaps	P.echinata 40
	105	Pits	P.echinata 40
*	106	Tces	P.radiata 40

107	Pits	P.taeda 39
* 108	Pit	P.radiata 40
* 109	Stone structures	P.various spp.38-40/native bush
* 111	Pits/toes	P.patula 38
112	Pits	Scrub adjacent P.palustris 37
* 113	Stone heaps	Scrub adjacent P.radiata 40
* 177	Terrace	P.echinata 40
* 181	Stone heaps	P.radiata 40
* 185	Stone heaps	P.radiata 40
* 187	Stone heaps	P.radiata 40
* 188	Pits/toes	P.echinata 40
197	Findspot	Track adjacent P.radiata 40

Compartment 15

* 82	Pa	P.elliottii 40/scrub
* 84	Pits	Scrub adjacent P.elliottii 40
* 85	Stone structures	P.elliottii 40/native bush
92	Pits	Scrub adjacent P.palustris 42
* 137	Pits	Scrub adjacent P.elliottii 40
* 138	Stone heaps	P.elliottii 40
* 140	Stone heaps	P.elliottii 40/native bush

2. Sites in areas not yet due for logging

Compartment 5

* 100	Pits	P.radiata 77
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Compartment 10

88	Pa	P.palustris 40
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Compartment 14

* 83	Pits	P.palustris 42
* 87	Stone structures	P.radiata 66
89	Pits	P.radiata 66
* 90	Pits	P.radiata 66
* 91	Pits/midden	P.radiata 66
119	Terrace	P.radiata 65
120	Pits	P.radiata 65
121	Gumholes	P.radiata 65
122	Gumholes	P.radiata 65
123	Pits	P.radiata 65
124	Pits	P.radiata 65
125	Pits/toes	P.radiata 65
126	Stone heaps	P.radiata 66
127	Stone heaps	P.radiata 66
* 128	Pit/tce	P.radiata 66
* 129	Pits/stone heaps	P.radiata 66
* 130	Stone heaps	P.radiata 66/native bush
* 133	Stone structures	P.radiata 66/native bush
203	Pit/tce	P.radiata 66
223	Pits	P.radiata 65
224	Findspot	Track adjacent P.radiata 65

Compartment 15

141 Pit	P.radiata 82
142 Pits/tce	Scrub adjacent P.radiata 82

Compartment 65

155 Midden	P.radiata 81
156 Terrace	P.radiata 81
157 Trenches	P.radiata 81
158 Pits/tces/Findspot	P.radiata 81
159 Terrace/findspot	P.radiata 81
160 Pit/findspot	P.radiata 81
161 Pits/tces/findspot	P.radiata 81
162 Pits/tces/findspot	Scrub adjacent P.radiata 81
163 Terrace	P.radiata 81
164 Pits/tces/midden	P.radiata 81
165 Pits	P.radiata 81
166 Pits	P.radiata 81
167 Pits	P.radiata 81
168 Findspot	P.radiata 81
169 Pits/tce	P.radiata 81
170 Pits/tce/findspot	P.radiata 81
171 Pits	P.radiata 81
172 Pits/tces/midden	Scrub adjacent P.radiata 81

Compartment 66

114 Stone heaps	P.radiata 66
115 Pits/stone heaps	P.radiata 66
116 Pits	P.radiata 66
117 Pit	P.radiata 66
118 Pits	P.radiata 66
198 Terrace	P.radiata 66
199 Terraces	P.radiata 66
200 Stone heaps	P.radiata 66
201 Pits	P.radiata 66