



# HUNGRY HEAD RESERVE TRUST

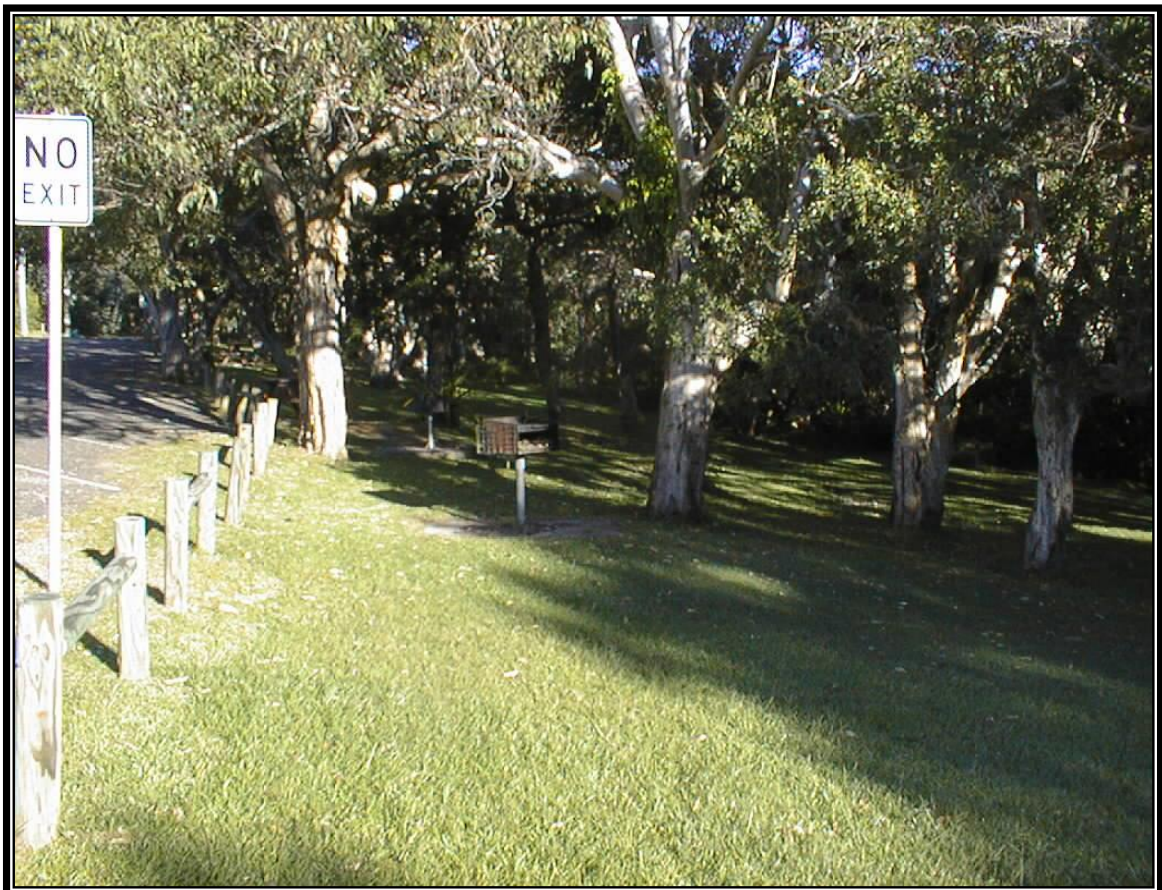
*DRAFT*

## PLAN OF MANAGEMENT

### HUNGRY HEAD RESERVE (37514)



PLAN OF MANAGEMENT WAS ADOPTED  
BY  
THE DEPARTMENT OF LAND AND WATER  
CONSERVATION  
ON  
28 MAY 2003  
AND CAME INTO EFFECT  
ON



## CONTENTS

### CONTENTS

<b>DEFINITIONS</b>	<b>5</b>
<b>SUMMARY</b>	<b>6</b>
<b>PART ONE: BACKGROUND INFORMATION</b>	
1.0 INTRODUCTION	6
1.1 BACKGROUND	7
1.2 STATUS	7
1.3 ZONING	7
1.4 THE PLAN PREPARATION PROCESS	8
1.5 COMMUNITY CONSULTATION	8
1.6 PHYSICAL CHARACTERISTICS OF THE RESERVE	
1.6.1 VEGETATION	9
1.6.2 FAUNA	11
1.6.3 GEOLOGY AND SOILS	12
1.6.4 CARRYING CAPACITY	12
1.7 CULTURAL ASSESSMENT	13
1.7.1 ABORIGINAL CULTURAL HERITAGE	13
1.7.2 EUROPEAN CULTURAL HERITAGE	13
1.8 SURROUNDING DEVELOPMENT	13
1.9 EXISTING IMPROVEMENTS AND FACILITIES WITHIN THE RESERVE	14
1.10 AVAILABILITY OF SERVICES TO THE RESERVE	14
1.11 VALUES OF THE RESERVE TO THE COMMUNITY	14
<b>PART TWO: PLAN OF MANAGEMENT</b>	
2.0 THE BASIS FOR MANAGEMENT	15
2.1 VISION STATEMENT	15
2.2 MANAGEMENT PRINCIPLES	16
2.3 MANAGEMENT UNITS	17
2.3.1 MANAGEMENT UNIT NO. 1 – HEADLAND UNIT	18
2.3.2 MANAGEMENT UNIT NO. 2 – RAINFOREST UNIT	22
2.3.3 MANAGEMENT UNIT NO. 3 – AMENITIES UNIT	26
2.3.4 MANAGEMENT UNIT NO. 4 – BUSHLAND UNIT	30
2.3.5 MANAGEMENT UNIT NO. 5 – CABINS UNIT	34
2.4 MONITORING PERFORMANCE AND PLAN REVIEW	38
2.5 SOURCES OF FINANCE	38
2.6 ACKNOWLEDGMENT	38

## APPENDICES

APPENDIX 1 – MAP 1 REGIONAL TOURISM MAP  
MAP 2 SHIRE LOCALITY MAP  
MAP 3 SUBJECT LAND

APPENDIX 2 – RESERVE TRUST SYSTEM

APPENDIX 3 - EXTRACT FROM BELLINGEN LOCAL ENVIRONMENTAL PLAN 1990  
INCLUDING ZONING TABLE AND MAP

APPENDIX 4 - EXTRACT FROM BELLINGEN LOCAL ENVIRONMENTAL PLAN 1990  
INCLUDING CLAUSES 2, 31 AND 32

APPENDIX 5 – GOVERNMENT REFERRALS AND RESPONSES

APPENDIX 6 – HUNGRY HEAD NATURE RESERVE FLORA SURVEY

APPENDIX 7 – HUNGRY HEAD TO URUNGA VEGETATION SURVEY

APPENDIX 8 – DRAFT HUNGRY HEAD RESERVE AND WENONAH HEADLAND  
FIRE MANAGEMENT PLAN

APPENDIX 9 – VEGETATION MANAGEMENT HUNGRY HEAD RESERVE

APPENDIX 10 – PLAN OF RESERVE SHOWING FACILITIES AND ACCESS

APPENDIX 11 – PLAN OF RESERVE INDICATING MANAGEMENT UNITS

## DEFINITIONS

### IN THIS PLAN –

‘Council’ means the Bellingen Shire Council.

‘Cultural Significance’ means aesthetic, historic, scientific, or social value for past, present or future generations.

‘Management Principles’ means the general principles that form a basis upon which land use and management decisions are made to achieve management objectives.

‘Management Units’ means the areas into which the reserve has been subdivided for the purposes of this Plan and which are distinct from each other on the basis of ecological parameters, physical barriers and type of recreational use.

‘Objectives’ means a set of statements indicating what is to be achieved in fulfilling the Management Principles.

‘Plan of Management’ means a statutory document prepared under Sections 112-116 of the Crown Lands Act, 1989 and adopted by the Minister, outlining the role and direction of a Crown Reserve and providing guidance on the administration, use, development and management of the land.

‘Recreation’ means a wide range of active or passive activities undertaken either individually or as a group for pleasure, health and renewal, and relaxation.

‘Reserve’ means the Hungry Head Beach Reserve No.37514, notified on 23 April 1904 for public recreation.

‘Reserve Trust’ means a corporation constituted under Division 4 of Part 5 of the Crown Lands Act, 1989 and appointed as trustee of a reserve.

‘Strategy’ means the pattern of action or planning framework that integrates management principles, objectives and actions into a cohesive whole. This is the means by which objectives are achieved.

‘Sustainable’ means able to be carried out without damaging the long term health and integrity of natural and cultural environments.

‘Vision Statement’ means a broad statement of intent to focus activities and establish objectives and common direction. That is a custodial or stewardship commitment to future generations.



## SUMMARY

Hungry Head Beach Reserve is a sensitive coastal reserve and a significant community resource in terms of conservation of native flora and fauna, public recreation and tourism. Bellingen Shire Council has as the reserve trustee resolved to prepare, in consultation with the community, a draft plan of management for the reserve. The aim of the plan of management is;

- To ensure the protection and conservation of the reserve's natural resources
- To promote regeneration and restoration of sensitive yet degraded areas within the reserve and
- Enhance the attractions of the reserve in terms of tourist potential.

The ultimate Plan of Management will provide guidance and direction to Council and the Reserve Trust Management Committee in regard to the maintenance, rehabilitation and enhancement of the reserve to ensure conservation of the reserve for present and future generations.

### **PART ONE: BACKGROUND INFORMATION**

#### **1.0 INTRODUCTION**

Hungry Head Beach Reserve is situated approximately 3 kilometres south of the town of Urunga on the mid north coast of New South Wales at a latitude of approximately 20 degrees south. Both Urunga and Hungry Head Beach Reserve are located within the local government area of Bellingen Shire, the administrative centre of which is situated in the town of Bellingen, approximately 21 kilometres to the west. The large regional centre of Coffs Harbour is located 27 kilometres to the north of Urunga, while the nearest large town to the south is Nambucca Heads, approximately 16 kilometres away. A regional tourism map is provided in Appendix 1- Map 1, which indicates the location of the reserve in relation to these other towns and cities within the region.

Within its boundaries, Bellingen Shire contains substantial areas of unique and sensitive natural resources that require particular protection to ensure that these areas are conserved. Each of these areas are significant in terms of providing recreation and tourism facilities and therefore need careful management to achieve both promotion of tourist and recreational potential and enhancement of sensitive environments.

Hungry Head Beach Reserve has long been identified as one of the unique and sensitive natural resources described above. The reserve is generally bounded by the township of Urunga to the north, the North Coast Railway to the west, the Pacific Ocean to the east and privately owned land to the south. Vehicular access to the reserve is via Hungry Head Road which follows the Urunga Lagoon from South Urunga to Hungry Head Beach Reserve, loops through the reserve, and then veers south-west to join the Pacific Highway at Newry State Forest.

The distinguishing natural features of the reserve include the beach, headland, estuary and littoral rainforest to the east and bushland to the west. Vegetation within the reserve is affected by both coastal and estuarine influences and processes. In terms of recreation and tourism, the reserve provides opportunities for Surf Club activities, bushwalking, cabin accommodation, beach walking, picnicking and coastal views from the headland.

The littoral rainforest is of particular significance, being classified under State Environmental Planning Policy No 26. The littoral rainforest can also be regarded as being of cultural heritage. As a sacred aboriginal site, the rainforest historically played an important role in the culture of local native Australians.

Man-made features within the reserve consist of the Surf Club complex including the recently constructed viewing platform and surf patrol tower, ten self-contained holiday cabins, picnic and parking facilities, an amenities block and a caretaker's residence.

## 1.1 BACKGROUND

This draft plan of management has been prepared in accordance with the provisions of Section 112 of the Crown Lands Act 1989, and taking into account the intentions of the Local Government Act 1993, the principles of Crown Land Management and of the NSW North Coast Crown Reserves Management Strategy.

Preparation of the draft plan has occurred in response to the resolution of the Hungry Head Beach Reserve Trust made on 24 November 1998, to formally prepare a Plan of Management.

Bellingen Shire Council, as corporate manager of the Reserve Trust, is responsible for the management of the reserve. The Hungry Head Beach Reserve Trust Management Committee represents community interests and assists in the day to day management of the reserve, providing consultation, advice and recommendations to Council and the organisation of 'hands on' help with maintenance, restoration and rehabilitation.

## 1.2 STATUS

Hungry Head Beach Reserve comprises Reserve 37514 for Public Recreation, notified on 23rd April 1904. The original reserve was over Lot 102 DP 755552 in the Parish of Newry, County of Raleigh, encompassing an area of 16.82 hectares. An area of Crown land immediately to the south was added to the reserve on the 22<sup>nd</sup> October 1982. This land is described as lot 1 DP 620 967, and encompasses an area of 4.62 hectares, bringing the total area of the reserve to 21.44 hectares.

The Hungry Head Beach Reserve Trust is charged with the care, control and management of the Reserve. Bellingen Shire Council was appointed corporate manager of the Trust on 19<sup>th</sup> September 1958. The Hungry Head Beach Reserve Trust Management Committee was appointed to advise on issues which may arise and organise and oversee the day to day management of the reserve. The Reserve Trust System is shown in Appendix 2.

The littoral rainforest located within the reserve is classified under State Environmental Planning Policy No. 26. The aim of the Policy is to provide a mechanism for the consideration of development 'that is likely to damage or destroy littoral rainforest areas with a view to the preservation of those areas in their natural state.'

## 1.3 ZONING

The subject land is within Zone No. 6(a) (Public Recreation Zone) under the provisions of Bellingen Local Environmental Plan 1990 (BLEP1990). An extract from BLEP1990, which shows the zoning table and a plan indicating the zoning of the subject site and adjacent land, is included as Appendix 3.

The objective of Zone No. 6(a) (Public Recreation Zone) is 'to ensure that there is adequate provision of open space to meet the needs of the community for public recreation.'

The subject land is also affected by the following clauses of BLEP1990:

- clause 2(2)(I) which outlines the objective of the LEP with respect to recreation;
- clause 31(1)-(4) which relates to the development of coastal land; and
- clause 32 which refers to development in open space zones.

An extract from BLEP1990 consisting of a copy of each of the above clauses is included as Appendix 4.

## **1.4 THE PLAN PREPARATION PROCESS**

The following stages are involved in the preparation of the Plan of Management. This draft plan of management has now reached stage 2 of the process. The Hungry Head Beach Reserve Trust Management Committee oversees each stage of the process.

### **Stage One**

Stage One comprises an in depth study of the reserve and its surrounds, initial consultation and data collection. Documents prepared as part of Stage One include a Vegetation Survey, Flora Survey and Fire Management Plan.

### **Stage Two**

Stage Two involves strategic investigations and discussions with key stakeholders, including the Reserve Trust Management Committee and the Surf Club, culminating in the production of this draft plan of management. Stage Two also includes the adoption of the draft plan by Bellingen Council as corporate manager of the Reserve Trust.

### **Stage Three**

This stage encompasses the formal public exhibition of the draft plan by the Department of Land and Water Conservation, thereby enabling the public to express opinions and make submissions on the plan.

### **Stage Four**

This final stage involves consideration of all submissions by the Department of Land and Water Conservation and the making of any amendments prior to the adoption of the formal Plan of Management by the Minister.

## **1.5 COMMUNITY CONSULTATION**

Community consultation forms an important part of the process of preparing a Plan of Management and of the on-going management of the reserve. Consultation provides the Trust Manager with a realistic and sound understanding of relevant local opinion from those who are familiar with and use the reserve regularly. To a large degree the ultimate Plan of Management is a reflection of and response to the views expressed by the general public.

The Hungry Head Management Committee was consulted in the preparation of this plan. Relevant government agencies were contacted and invited to comment. A list of the agencies contacted and responses provided is included as Appendix 5.

This draft plan of management will be placed on public exhibition for a period of 28 days, the exhibition being coordinated by the Department of Land and Water Conservation. During this period the draft plan will be available for perusal at the offices of the Department of Land and Water Conservation located in Grafton, the administrative offices of Bellingen Shire Council and the Urunga library. A copy will also be available at the Hungry Head cabins.

All submissions received from the public and any comments submitted by other government agencies will be reviewed by the Department of Land and Water Conservation. Should no amendments or deletions be



proposed, the Plan will be forwarded to the Minister for endorsement. If amendments are proposed, the Plan will be returned to Council as the Trust Manager, prior to the amended version being considered by the Minister for adoption under the provisions of the Crown Lands Act 1989.

## 1.6 PHYSICAL CHARACTERISTICS OF THE RESERVE

### 1.6.1 VEGETATION

In January 1996 consultants Eco Pro undertook a flora survey of Hungry Head Beach Reserve. Later in 1997 Eco Pro was commissioned by Bellingen Shire Council to extend the original survey to incorporate the land between the reserve and the township of Urunga. The purpose of this survey was to map the vegetation communities present in the study area to assist in the preparation of a fire management plan for the area. During 1996 a vegetation management report was prepared by Stephanie Horton. This report related specifically to the littoral rainforest and was prepared in response to a proposal to reduce the height of vegetation in the foredune area for the purpose of increasing visibility from the surf club. Each of the above studies provides expert and detailed information on the vegetation characteristics of the reserve which are summarised below. A copy of each study is attached to this draft plan of management as Appendices 6, 7, 8 and 9, respectively. Full scale maps of the vegetation communities identified within the reserve are held in the offices of Bellingen Shire Council.

The reserve is located within the north coast botanical region and consists of vegetation similar to that found throughout the mid-north coastal areas. The reserve is affected by both coastal and estuarine influences and depicts a typical coastal vegetation progression with the foredune flora protecting more sensitive vegetation communities to the west.

The Eco Pro flora survey identified ten vegetation communities as follows:

#### 1. Foredune Vegetation

This community occurs along the foredune and varies from a dense shrub layer of one to four metres in height to a dense herb layer with few shrubs.

Shrub species include swamp she-oak (*Casuarina glauca*), coastal banksia (*Banksia integrifolia*), cheese tree (*Glochidion ferdinandi*), tuckeroo (*Cupaniopsis anarcardioides*) and coastal wattle (*Acacia sophorae*). The most common species in the herb layer are saltwater couch (*Sporobolus virginicus*) and spinifex (*Spinifex sericeus*).

Weed species present include bitou bush (*Chrysanthemoides monilifera*), lantana (*Lantana camara*) and cape ivy (*Senecio mikanioides*).

#### 2. Littoral Rainforest

The littoral rainforest is classified under the provisions of State Environmental Planning Policy No. 26. This community occurs in the hind dune area of the reserve behind the surf club and further to the north behind the headland. Tree species within the rainforest vary in height from 15 to 25 metres and form a dense canopy that permits little light to penetrate to the forest floor.

Tree species include red cedar (*Toona ciliata*), wilkea (*Wilkea hugeliana*), sandpaper fig (*Ficus coronata*), rusty fig (*Ficus rubiginosa*), cheese tree (*Glochidion ferdinandi*) and red bean.

Ground cover is sparse, however ferns, sedges, soft herbs and weeds are present.

#### 3. Narrow-leaved Apple Coastal Scrub

This community occurs on the northern side of the ring road between the foredune complex and the littoral rainforest and provides protection for the rainforest from winds and salt spray.

The canopy reaches a height of 15 metres, while the shrub layer varies from 2 to 4 metres in height.

The dominant tree species within this community is narrow-leaved apple (*Angophora bakeri*). Swamp she-oak (*Casuarina glauca*) and coastal banksia (*Banksia integrifolia*) are also present. The shrub layer includes cheese tree (*Glochidion ferdinandi*), tuckeroo (*Cupaniopsis anacardioides*) and coastal wattle (*Acacia sophorae*).

#### 4. Brushbox Closed Forest

This community is situated adjacent to Dalhousie Creek and is characterised by a closed canopy layer which extends to 30 metres, a smaller, less dense tree layer of up to 15 to 20 metres and a dense shrub layer ranging from 2 to 8 metres in height. Ground cover varies from dense to sparse.

The canopy layer is dominated by brushbox (*Lephostemon confertus*). Other species present include swamp turpentine (*Lephostemon suaveolens*), narrow-leaved apple (*Angophora bakeri*), red bloodwood (*Eucalyptus gummifera*), pink bloodwood (*E. intermedia*), small-fruited grey gum (*E. propinqua*) and forest red gum (*E. tereticornis*).

The small tree layer includes broad-leaved paperbark (*Melaleuca quinquenervia*) and rainforest species. The shrub layer is generally composed of rainforest species while the herb layer contains grasses, sedges, ferns, vines and soft herbs.

#### 5. Moist Eucalypt Closed Forest

This community is located to the west of the ring road abutting the brushbox closed forest community. It consists of a closed canopy to 25 metres, a dense small tree layer to 18 metres and a dense shrub layer of between 4 and 6 metres. Ground cover is generally moderately dense.

Canopy trees include Sydney red gum (*Angophora costata*), swamp turpentine (*Lephostemon suaveolens*), red bloodwood (*Eucalyptus gummifera*), pink bloodwood (*E. intermedia*), tallwood (*E. microcorys*), swamp mahogany (*E. robusta*) and small-fruited grey gum (*E. propinqua*).

The small tree layer is dominated by black she oak (*Allocasuarina littoralis*), while the shrub layer includes both rainforest and dry sclerophyll species.

The herb layer contains grasses, vines and soft herbs.

#### 6. Swamp Turpentine/ Bloodwood Open Forest

This community is found in the drier western edges of the reserve and consists of a partially open canopy of between 25 and 30 metres high. Below this there is a small tree layer to 16 metres and a shrub layer to 7 metres, both of which are somewhat sparse. The density of ground cover varies from dense to sparse.

Dominant canopy trees consist of swamp turpentine (*Lephostemon suaveolens*) and red bloodwood (*Eucalyptus gummifera*).

The small tree layer consists of young eucalypts, while the shrub layer includes wattles, tea trees, bush peas and hop bush.

The herb layer is dominated by various types of grasses.

#### 7. Narrow-leaved Apple/Swamp Turpentine Closed Forest

This community is situated to the north of the ring road, to the west of the littoral rainforest and narrow-leaved apple coastal scrub communities. It consists of a closed canopy layer, which reaches 20 to 28 metres in height, both a tall and small shrub layer and a dense herb layer.

Within this community the dominant canopy species are swamp turpentine (*Lephostemon suaveolens*) and narrow-leaved apple (*Angophora bakeri*). Red mahogany (*Eucalyptus resinifera*) and small-fruited grey gum (*E. propinqua*) are also present.

The shrub layer varies from rainforest species near the coast, to dry sclerophyll towards the road, while the herb layer changes in a similar manner from ferns and sedges to predominantly grasses.

#### 8. Cleared Woodland

This community is located around the manager's residence and associated buildings and directly north of the ring road forming a picnic area.

An open canopy occurs at between 25 and 30 metres. The shrub layer is sparse due to regular clearing, while the herb layer consists of slashed grass.

The canopy layer includes species such as forest red gum (*Eucalyptus tereticornis*), swamp turpentine (*Lephostemon suaveolens*), red mahogany (*Eucalyptus resinifera*), red bloodwood (*E. gummifera*) and pink bloodwood (*E. intermedia*).

The shrub layer contains golden wattle (*Acacia longifolia*), common hop bush (*Dodonaea triquetra*) and lantana (*Lantana camara*).

#### 9. Dry Grassy Woodland

This community is located on the north-western edge of the reserve and consists of a canopy layer reaching a height of 25 to 28 metres, no small tree or shrub layer, and a dense herb layer up to 1.5 metres high.

Dominant tree species within this community are swamp turpentine (*Lephostemons suaveolens*), Sydney red gum (*Angophora costata*), red bloodwood (*Eucalyptus gummifera*) and pink bloodwood (*E. intermedia*).

The herb layer is composed of grasses, weeds and vines.

#### 10. Melaleuca Closed Forest

This community is found inside the link road at its southern end between the brushbox closed forest and the cleared woodland and consists of a 15 to 20 metre high closed canopy, emergent eucalypts reaching to 30 metres, an 8 metre high shrub layer and a dense herb layer.

Canopy layer species include broad-leaved paperbark (*Melaleuca quinquenervia*), snow-in-summer (*M. linearifolia*) and prickly-leaved tea-tree (*M. stypheloides*). Emergent eucalypts include forest red gum (*Eucalyptus tereticornis*), red bloodwood (*E. gummifera*) and pink bloodwood (*E. intermedia*).

The shrub layer is characterised by tea trees, hop bush, bush peas, wattles and some rainforest species.

The herb layer contains grasses, sedges, ferns, vines and some weeds.

A map indicating the location of each of the above vegetation communities is contained within Appendix 6. It is of note that Eco Pro found no species considered rare or endangered during the survey that formed the basis of the above summary. However, advice from the National Parks and Wildlife Service indicates that the littoral rainforest provides a habitat for the threatened species Rusty Plum (*Amorphospermum whitei*) and that the reserve is the southern known limit for the species *Cynanchum elegans*.

### 1.6.2 FAUNA

To date no detailed fauna studies have been carried out within the reserve. Information received from the National Parks and Wildlife Service however, indicates that the littoral rainforest and adjacent areas may provide habitat for a variety of threatened fauna species such as Yellow-eyed Cuckoo-shrike, Rose-crowned Fruit-dove and Queensland Blossom Bat. The Service states that other threatened species have been recorded in the vicinity of the reserve. These include Glossy Black Cockatoo, Barred Cuckoo-shrike, Pied Oystercatcher, Black Bittern, Square-tailed Kite, Powerful Owl, Osprey, Squirrel Glider, Koala and Long-nouted Spinner Dolphin.

Four specific studies have been carried out which record fauna species on land in close proximity to the reserve. The results of each study, including the identification of species recognised as endangered are detailed below:

- South Urunga Development Area – Third Fauna and Flora report, Greg Clancy and John Turbill, 1992.

This report related to the precinct known as the South Urunga Development Area situated to the west of the reserve. Five endangered species were recorded. These were the Black-necked Stork, Osprey, Glossy Black-Cockatoo, Squirrel Glider and Carpet/Diamond Python.

- Flora and Fauna Assessment – Lot 131 DP 835501 Osprey Drive Hungry Head, Greg P and Val. A Clancy, 1997.

This report was submitted to Bellingen Shire Council on behalf of the proponents of a Development Application for land situated in Osprey Drive, Hungry Head. The report records that four species of threatened fauna were observed during field survey, being the Little Bent-wing Bat, Osprey, Comb-crested jacana and Glossy Black-Cockatoo.

The report notes that the NSW State Forests database lists eight additional species as having been recorded within a radius of five kilometres of the site. These species are the Brush-tailed Phascogale, Koala, Squirrel Glider, Black Bittern, Black-necked Stork, Square-tailed Kite, Masked Owl and Barred Cuckoo-shrike.

- Ecological Assessment – Lot 128 Osprey Drive, Urunga, Eco Pro, 1997.

This report was prepared for Bellingen Shire Council and related to a development site situated in Osprey Drive, Urunga. The report listed a variety of fauna species observed on the site including the Glossy Black-Cockatoo, which is recognised as being under threat.

- Flora and Fauna Impact Assessment – Proposed Tourist Cabins Part Lot 2 DP 620967 Hungry Head, Chris Moon, Koala Survey and Management Services, 1998.

This report was prepared in conjunction with a proposal to develop eleven holiday cabins and manager's residence on land adjoining the reserve, adjacent to the existing tourist cabins within the reserve. The report referred to all previous studies undertaken in the locality and concluded that a total of seven threatened fauna species had been recorded within five kilometres of the site with a further nineteen possibly occurring.

It is therefore considered important that 'baseline' studies of the reserve be undertaken in order that not only the flora but also the fauna of the reserve is recorded. This will permit more detailed definition of any particular fauna zones requiring specific protection.

Future surveys and evaluation will reveal habitat and species growth or decline within the reserve. This will enable future custodians to modify activities or management techniques to enhance sensitive habitat and protect species native to the area. The final Plan of Management should incorporate measures to protect the significant flora and fauna in the reserve.

### **1.6.3 GEOLOGY AND SOILS**

General information obtained from the Department of Land and Water Conservation indicates that soils within the area of Hungry Head have the following characteristics:

- low erodibility, but with a moderate erosion hazard
- uniform textured yellow earth below a dark top layer
- light clay, quartz particles found throughout most of the reserve
- very thin 'A' horizon within the area of the cabins

### **1.6.4 CARRYING CAPACITY**

Carrying capacity is a term used to refer to the maximum number of people who can use an area without an unacceptable alteration to the physical environment and a decline in the quality of the experience. Due to the

nature of its resources, Hungry Head Beach Reserve can be said to have a limited carrying capacity. The carrying capacity of the reserve is limited by the following constraints:

- physical limits – set by the topography and soil structure of the reserve;
- environmental limits – determined by the vulnerability of ecosystems surviving within the reserve: and
- financial limits – fixed internally by the income generated from the holiday cabins and externally from occasional government grants.

Some areas within the reserve are clearly more vulnerable than other locations. In particular, the littoral rainforest and the headland areas are considered to have a low carrying capacity. During summer seasons, the carrying capacity of these areas may be exceeded.

Taking into account the current level of usage of the reserve, the annual population increase within the region and the potential for new development within the vicinity, it is inevitable that demand on the reserve's resources will substantially increase. The future management of the reserve must therefore incorporate strategies to ensure that the carrying capacity of the reserve is not exceeded. However, it may be that the extent of parking available within the reserve may provide the physical limit to human use of the reserve. In a practical sense, parking provision may therefore determine the carrying capacity of the reserve.

## **1.7 CULTURAL ASSESSMENT**

### **1.7.1 ABORIGINAL CULTURAL HERITAGE**

This draft plan of management acknowledges the cultural significance and importance of aboriginal heritage. In particular, a natural mythological (ritual) site is located within the littoral rainforest and other aboriginal sites which consist of middens, a scarred tree and open camp sites exist close to the reserve. No detailed investigation has been undertaken in regard to any of these sites. Therefore the final Plan of Management should include a strategy which requires further investigation of the cultural heritage value of the reserve incorporating appropriate consultation and liaison with the Local Aboriginal Land Council and National Parks and Wildlife Service.

### **1.7.2 EUROPEAN CULTURAL HERITAGE**

In terms of European heritage, the site of the original Clubhouse is considered significant. The remains of the clubhouse are situated on the northern side of the northern steps to the beach. The final Plan of Management should include as an objective the compilation of an historical record of the original building, incorporating plans and photographs where possible.

## **1.8 SURROUNDING DEVELOPMENT**

Hungry Head Beach Reserve is situated on the southern side of Urunga and is therefore subject to pressures from current urban development and the potential future expansion of South Urunga. Adjoining land to the north is within Zone No. 7(f) (Environmental Protection (Coastal Land) Zone), the objective of which is to ensure protection of nearby environmentally sensitive and scenic land. Further to the north the zoning and landuse is substantially residential. Land adjoining and adjacent to the reserve on its western side is within Zone No. 1(c1) (Rural Residential Zone), 1(c2) (Rural Small Holdings Zone) and 2(b) (Village Area Zone).

Each of these areas is affected by Bellingen Development Control Plan No. 10 – South Urunga Development Area, which identifies potential development areas and opportunities, aims for an outcome which will promote orderly rather than ad hoc expansion and sets specific development standards. Land on the southern side of the reserve is also within Zone No. 1(c2) (Rural Small Holdings Zone). Hungry Head Beach Reserve is therefore surrounded to a large degree by land having particular development potential. Additional pressure is likely to be placed upon the reserve as a recreation resource as development proceeds and measures need to be incorporated to avoid overuse and damage to the sensitive vegetation communities within the reserve.

In October 1998, Bellingen Shire Council gave approval for a tourist development on land adjoining the western boundary of the reserve. The development, which consists of eleven tourist cabins and a manager's residence directly abuts that portion of the reserve that currently houses the existing Council holiday cabins.

## **1.9 EXISTING IMPROVEMENTS AND FACILITIES WITHIN THE RESERVE**

Improvements and facilities within the reserve consist of the following:

- Ten self-contained holiday cabins constructed of timber wall cladding with colourbond/metal roof - each cabin includes a covered deck for outdoor relaxation and informal car parking
- Caretaker's residence with adjoining shed constructed of hardiplank external walls with colourbond/metal roof.
- Cleared and grassed picnic area located opposite the caretaker's residence and consisting of picnic tables, seats and barbecues.
- Bitumen-surfaced angle parking situated adjacent to the picnic area.
- Brick amenities building containing male, female and separate disabled persons amenities.
- Two storey surf club building constructed of a combination of brick and weathertex cladding.
- Viewing platform and surf patrol tower – the platform and tower are constructed of timber with colourbond roof. The ramp, which gives access to the platform is level and provides access for disabled persons.
- An informal parking area is situated to the south of the surf club adjacent to the mouth of Dalhousie Creek.

The location of structures and facilities within the reserve is shown in Appendix 9.

## **1.10 AVAILABILITY OF SERVICES TO THE RESERVE**

Hungry Head Beach reserve is serviced by Council's reticulated water supply. The site however is not connected to the sewer and effluent disposal is by way of septic tank systems.

As mentioned in the section of this draft plan of management entitled 'Surrounding Development', Bellingen Shire Council has recently given approval for a tourist development on land adjoining the existing holiday cabins within the reserve. A condition of consent imposed upon the development is that the development be connected to reticulated water and sewerage. Taking into account the proximity of this site to the reserve, potential exists for the Council cabins to also be connected to the sewer within a reasonable period of time.

Vehicular access to the reserve is via a sealed bitumen road (Hungry Head Road) from the Pacific Highway. On the northern side of the reserve, Hungry Head Road provides access from the reserve to the township of Urunga. Roadside signs facing north and south at the intersection with the Pacific Highway direct traffic to the reserve. An additional directional sign is situated on Hungry Head Road approximately 1 kilometre from the intersection with the Pacific Highway.



A bitumen access road follows a one-way circular route through the reserve, giving vehicular access to the caretaker's residence, amenities block, picnic facilities, surf club, beachfront and parking. An informal overflow parking area is situated at the eastern end of the picnic area. From there a short walking track provides pedestrian access to the headland. A plan indicating access to and within the reserve is provided as Appendix 9.

## **1.11 VALUES OF THE RESERVE TO THE COMMUNITY**

This overview summarises the core values of Hungry Head Beach Reserve recognised by the local community. This summary comprises only an initial assessment of the perceived values of the reserve. A more detailed assessment may be able to be compiled should the Reserve Trust gain access to any submissions received in response to the formal period of public exhibition.

The environmental, recreational, tourism, and therefore economic values of Hungry Head Beach Reserve are well recognised by the local community, many visitors to the site and in particular are appreciated by the community of Urunga. The reserve is not only an important tourist attraction as a day destination. It also provides on-site accommodation in a secluded bush setting, serves the local community as a regularly used recreation facility and creates flow-on economic benefits to local business houses.

Community appreciation of the reserve is also related to an acknowledgment of the intrinsic environmental and ecological value of the reserve, while the enjoyment obtained from visiting the reserve is partially a response to the visual qualities of the reserve, including the ocean views obtained from the headland.

By utilising the values of the reserve as expressed by the community, in the preparation of this draft plan of management, the vision and objectives of the plan will clearly reflect community intent with respect to the future enhancement and conservation of the reserve.

## **PART TWO: PLAN OF MANAGEMENT**

### **+ - 2.0 THE BASIS FOR MANAGEMENT**

This Plan of Management is based upon a 'Vision Statement', the purpose of which is to guide the Reserve Trust in its decision making process. It is then supported by management principles that determine specific management unit objectives and strategies to guide the activities of the Reserve Trust, the Reserve Trust Management Committee and volunteer groups and organisations.

The vision statement, management principles, objectives and strategies are prescribed in this Plan of Management. Bellingen Shire Council as the Reserve Trust Manager will be required to adopt action plans which will have the effect of implementing the objectives and strategies outlined in this document. No action plans have been included in this Plan of Management. This will allow the action plans to be responsive to economic factors, new information and changes in technology and community attitudes. The community will continue to be consulted with respect to any proposals for the future development of the reserve through Council's management planning and development application processes.

## **2.1 VISION STATEMENT**

The vision of the Reserve Trust in managing Hungry Head Beach Reserve is:

*'To provide for public enjoyment and appreciation of the natural values of the Reserve; and to conserve those natural values for future generations.'*

## **2.2 MANAGEMENT PRINCIPLES**

To achieve the vision of the Reserve Trust, the following management principles have been established to provide broad direction for the formulation and implementation of objectives, strategies and action plans:

### **1. General**

- To conform with Bellinghen Shire Council's land management strategies and to be consistent with other Plans of Management relevant to Bellinghen Shire.
- To comply with the provisions of the Crown Lands Act 1989 and the intentions of the Local Government Act 1993.
- To ensure that the continued usage and development of the reserve is environmentally and economically sustainable.

### **2. Natural Environment**

- To recognise, protect and enhance the beauty and natural biodiversity occurring within the reserve.
- To maintain an adequate level of control of noxious plant infestation.
- To protect littoral rainforest in accordance with the provisions of State Environmental Planning Policy No 14.

### **3. Cultural Values**

- To recognise, interpret and promote valuable aboriginal cultural heritage relating to the reserve.

### **4. Recreation**

- To promote recreational opportunities consistent with the reserve's environmental values.
- To promote recreational opportunities which are sustainable within the bounds of the reserve's physical, environmental and financial carrying capacity.
- To enable a wide range of recreational and holiday activities to be experienced within the reserve.
- To monitor the changing expectations of users through survey, taking into account the physical constraints of the reserve.

### **5. Tourist Accommodation**

- To promote existing tourist accommodation.
- To optimise income from the holiday cabins by promoting the affordable nature of the accommodation and the peaceful atmosphere, whilst ensuring the cabins are maintained to a high standard.
- To ensure that future development and major maintenance projects respect the 'rustic' nature of the existing cabins.

## **6. Communication**

- To inform the community and visitors in a creative and inviting manner, of the unique attributes of the reserve and the most responsible means of conserving and enhancing these attributes.

## **7. Community Involvement**

- To encourage the active participation of the local community and visitors in the conservation, restoration, enhancement and long term management of the reserve.
- To inspire public appreciation of the ecological, aesthetic and cultural values of the reserve.

## **8. Safety and Public Health**

- To ensure the provision and maintenance of facilities in a manner that minimises risk to users of the reserve and promotes a healthy lifestyle.

## **9. Utility Services**

- To provide and maintain services such as reticulated water, underground power, effluent disposal and drainage in a manner, which is efficient, visually unobtrusive and environmentally responsible.

## **10. Management Style**

- To implement a management system which will ensure the viability and sustainability of the reserve and promote co-operative decision making.
- To ensure the management of the reserve is responsive to legal, community, social and technological change.

### **2.3 MANAGEMENT UNITS**

To facilitate the effective planning and management of the Hungry Head Beach Reserve, the reserve has been divided into five distinct management units. Delineation of these units is based on environmental sensitivity, ecological/biophysical parameters, physical barriers and the type and intensity of recreational use. Objectives and strategies have been formulated for each unit to define specific land use, environmental, recreational and educational opportunities for all sections of the reserve.

Appendix 10 comprises a map indicating the management units within the reserve. These are as follows:

1. Headland Unit
2. Rainforest Unit
3. Amenities Unit
4. Bushland Unit
5. Cabins Unit

The Reserve Trust in consultation with the Reserve Trust Management Committee will be responsible for the development of action plans to facilitate achievement of the objectives and implementation of the strategies relevant to each management unit.

## Description

This unit comprises the north-eastern portion of the reserve and includes the headland, an area of bushland and a pocket of rainforest situated within a gully. Man-made features within this unit include parking and picnic facilities.

## Vegetation Communities

The headland unit contains five vegetation communities as identified by consultants, EcoPro in its 1996 Flora Survey:

- Foredune vegetation
- Littoral rainforest, in its most northerly representation within the reserve
- Narrow-leaved Apple Coastal Scrub
- Narrow-leaved Apple/Swamp Turpentine Closed Forest
- Cleared Woodland

## Fuel Groups, Fire Regime Tolerances and Fire Management Zones

The following table is a summary of information relevant to this Plan of Management extracted from the 'Draft Hungry Head Reserve and Wenonah Headland Fire Management Plan' prepared by Rod Rose in 1997. This table will be repeated for each management unit and should be read in conjunction with the Draft Fire Management Plan, a copy of which forms Appendix 8.

<b>VEGETATION COMMUNITY</b>	<b>FUEL GROUP CLASSIFICATION</b>	<b>FIRE REGIME TOLERANCES</b>	<b>FIRE MANAGEMENT ZONES</b>
<b>FOREDUNE VEGETATION</b>	Medium	<ul style="list-style-type: none"> <li>• Exclude all fires</li> </ul>	Hungry Head Protection Zone
<b>LITTORAL RAINFOREST</b>	Negligible	<ul style="list-style-type: none"> <li>• Exclude all fires</li> </ul>	Hungry Head Protection Zone
<b>NARROW-LEAVED APPLE COASTAL SCRUB</b>	Medium/High	<ul style="list-style-type: none"> <li>• Maximum recommended fire frequency 30 years</li> <li>• Where possible, exclude higher intensity fires</li> </ul>	Hungry Head Protection Zone
<b>NARROW-LEAVED APPLE / SWAMP TURPENTINE CLOSED FOREST</b>	Medium	<ul style="list-style-type: none"> <li>• Maximum recommended fire frequency 30 years</li> <li>• Where possible, exclude higher intensity fires</li> </ul>	Hungry Head Protection Zone



<ul style="list-style-type: none"> <li>Encourage use of the reserve and its facilities by persons with access disabilities.</li> </ul>	<ul style="list-style-type: none"> <li>Consider the provision of access to the headland suitable for persons with access disabilities.</li> <li>Ensure any new facility incorporates facilities for persons with access disabilities.</li> <li>Ensure level access is maintained from the road to the accessible toilet.</li> <li>Erect signs indicating the availability of facilities for persons with access disabilities.</li> <li>Provide a designated parking space for persons with access disabilities.</li> </ul>	<p>undertake as funds permit</p>	<p>satisfaction levels.</p> <ul style="list-style-type: none"> <li>Periodic site inspections</li> <li>Site inspection and assessment by Access Committee.</li> <li>Visitor survey to determine level of usage by persons with access disabilities.</li> <li>Level access maintained.</li> <li>Signs erected.</li> <li>Space provided and identified.</li> </ul>
<ul style="list-style-type: none"> <li>Minimise the visual impact of man-made features upon the natural environment</li> </ul>	<ul style="list-style-type: none"> <li>Replace existing lawn on the headland with native headland grass.</li> </ul>		<ul style="list-style-type: none"> <li>Buffer planted.</li> <li>Lawn replaced.</li> </ul>
<ul style="list-style-type: none"> <li>Optimise the aesthetic attractions of the headland by preserving the coastline and ocean views</li> <li>Restore headland areas affected by erosion and degradation</li> </ul>	<p>Work in progress.</p>	<p>HIGH PRIORITY</p>	<ul style="list-style-type: none"> <li>Periodic site inspection</li> <li>Additional seating erected.</li> <li>Survey of visitor satisfaction.</li> <li>Grant funds expended.</li> </ul>
<ul style="list-style-type: none"> <li>Foster public appreciation of the natural values of the reserve</li> </ul>	<ul style="list-style-type: none"> <li>Devise and implement a reserve promotion program incorporating: <ul style="list-style-type: none"> <li>tourist information pamphlets</li> <li>signs explaining the values of the</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>Implementation of promotion program</li> <li>Periodic survey to determine increase/decrease in number of visitors.</li> <li>Reduction in amount of</li> </ul>



	<ul style="list-style-type: none"> <li>- reserve display at the tourist information centre</li> <li>- ecological information and/or tours for local schools.</li> </ul>		litter and vandalism
<ul style="list-style-type: none"> <li>• Provide and maintain facilities safe from fire risk</li> <li>• Implement recommendations of the Draft Hungry Head Reserve and Wenonah Headland Fire Management Plan as they apply to Hungry Head.</li> </ul>	<ul style="list-style-type: none"> <li>• Prepare and implement a works program to incorporate the strategies recommended in the Draft Hungry Head Reserve and Wenonah Headland Fire Management Plan as they relate to the Hungry Head Protection Zone.</li> <li>• Install signs regarding the lighting of fires and fire risk indicator.</li> <li>• Ensure regular ranger patrol Ensure regular rubbish collection to avoid overflow.</li> <li>• Install additional rubbish bins where necessary.</li> <li>• Carry out reserve maintenance in accordance with the current Development Consent.</li> </ul>		<ul style="list-style-type: none"> <li>• Implementation of the works program.</li> <li>• A nil fire occurrence within the foredune and littoral rainforest.</li> <li>• Periodic inspection by Fire Control Officer.</li> <li>• Signs installed.</li> <li>• Periodic site inspection</li> </ul>
<ul style="list-style-type: none"> <li>• Minimise the impact of weed species upon the natural environment</li> <li>• Maintain an adequate level of control of noxious plant infestation</li> </ul>	<ul style="list-style-type: none"> <li>• Develop and implement a program for removal and/or containment of weed species incorporating the techniques and methods outlined in the Draft Bellingen Shire Council Noxious Weeds Management Plan.</li> <li>• Through promotion, involve community groups and volunteers in the weed removal and containment program.</li> </ul>		<ul style="list-style-type: none"> <li>• Weed reduction and containment carried out in accordance with the program.</li> <li>• Periodic site inspection to assess levels of infestation.</li> <li>• Level of community involvement recorded.</li> </ul>

### 2.3.2 MANAGEMENT UNIT NO. 2 – RAINFOREST UNIT

#### Description

This management unit comprises the section of the foreshore from Dalhousie Creek to the headland, the Surf Club, viewing platform and surf patrol tower, the littoral rainforest on a steep slope behind the clubhouse and mouth of the Dalhousie Creek.

#### Vegetation Communities

The rainforest unit consists of 2 vegetation communities:

- Fore-dune Vegetation
- Littoral Rainforest

#### Fuel Groups, Fire Regime Tolerances and Fire Management Zones

VEGETATION COMMUNITY	FUEL GROUP CLASSIFICATION	FIRE REGIME TOLERANCES	FIRE MANAGEMENT ZONES
Fore-dune vegetation	Medium	<ul style="list-style-type: none"><li>• Exclude all fires</li></ul>	Hungry Head Protection Zone
Littoral rainforest	Negligible	<ul style="list-style-type: none"><li>• Exclude all fires</li></ul>	Hungry Head Protection Zone

**MANAGEMENT OBJECTIVES AND STRATEGIES**

<b>OBJECTIVES</b>	<b>STRATEGIES</b>	<b>PRIORITY</b>	<b>PERFORMANCE ASSESSMENT</b>
<ul style="list-style-type: none"> <li>Protect, maintain and rehabilitate areas of environmentally sensitive vegetation</li> </ul>	<ul style="list-style-type: none"> <li>Devise and implement a maintenance program for erosion control, specifically along access tracks.</li> <li>Combines existing access tracks within the rainforest to minimise erosion potential.</li> <li>Implement a planting program to reinforce existing foreshore vegetation to ensure protection of the rainforest from salt laden winds.</li> <li>Develop and implement a maintenance program for weed control (see specific objective below).</li> </ul>		<ul style="list-style-type: none"> <li>Periodic site inspection to assess erosion levels.</li> <li>Rehabilitation of eroded areas completed.</li> <li>Planting completed.</li> <li>Weed reduction carried out as per program.</li> </ul>
<ul style="list-style-type: none"> <li>Encourage use of the reserve and its facilities by persons with access disabilities.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure any new or up-graded facility incorporates facilities for persons with access disabilities.</li> <li>Review level of accessibility of each facility within the reserve.</li> <li>Develop a program for the upgrading of all facilities on-site to incorporate access for persons with access disabilities.</li> <li>Erect signs indicating the availability of facilities for persons with access disabilities.</li> <li>Provide a designated parking space for persons with access disabilities.</li> </ul>		<ul style="list-style-type: none"> <li>Site inspection and assessment by Access Committee.</li> <li>Visitor survey to determine level of usage by persons with access disabilities.</li> <li>Program implemented.</li> <li>Signs erected.</li> <li>Space provided and identified.</li> </ul>
<ul style="list-style-type: none"> <li>Minimise the visual impact of man-made features upon the natural environment</li> </ul>	<ul style="list-style-type: none"> <li>Assess whether existing structures require upgrading or re-painting.</li> <li>Develop and implement</li> </ul>		

	<p>a maintenance program for structures requiring upgrade.</p> <ul style="list-style-type: none"> <li>• Provide buffer planting in the vicinity of the carpark.</li> </ul>		
<ul style="list-style-type: none"> <li>• Foster public awareness and appreciation of the ecological, cultural / heritage values of the reserve</li> </ul>	<ul style="list-style-type: none"> <li>• Engage consultants to prepare an aboriginal heritage study to assess the relevance of the rainforest (incorporating consultation with the local aboriginal community/Land Council and National Parks and Wildlife Service).</li> <li>• Implement any recommendations of the study.</li> <li>• Devise and implement a reserve promotion program incorporating: <ul style="list-style-type: none"> <li>- tourist information pamphlet stressing the ecological and cultural values of the reserve</li> <li>- signage explaining the ecological and cultural values of the reserve</li> <li>- display at the tourist information centre</li> <li>- ecological/cultural information and tours for local schools.</li> </ul> </li> </ul>	<p>LOW PRIORITY</p>	<ul style="list-style-type: none"> <li>• Study completed.</li> <li>• Recommendations implemented.</li> <li>• Investigation completed.</li> <li>• Program implemented</li> <li>• Periodic visitor survey to assess changes in levels of awareness.</li> <li>• Reduction in amount of litter and vandalism.</li> </ul>
<ul style="list-style-type: none"> <li>• Identify and protect sensitive native fauna</li> </ul>	<ul style="list-style-type: none"> <li>• Engage consultants to survey fauna within the reserve and implement relevant recommendations for the conservation of rare and endangered species.</li> </ul>		<ul style="list-style-type: none"> <li>• Survey completed.</li> <li>• Recommendations implemented.</li> </ul>
<ul style="list-style-type: none"> <li>• Provide and maintain facilities safe from fire risk</li> <li>• Implement recommendations of the Draft Hungry Head Reserve and</li> </ul>	<ul style="list-style-type: none"> <li>• Prepare and implement a works program to incorporate the strategies recommended in the Draft Hungry Head Reserve and Wenonah Headland Fire</li> </ul>		<ul style="list-style-type: none"> <li>• Implementation of the works program.</li> <li>• A nil fire occurrence within the foredune and littoral rainforest.</li> <li>• Periodic inspection by</li> </ul>

<p>Wenonah Headland Fire Management Plan as they apply to Hungry Head.</p>	<p>Management Plan as they relate to the Hungry Head Protection Zone.</p> <ul style="list-style-type: none"> <li>• Carry out reserve maintenance in accordance with the current Development Consent.</li> <li>• Install signs regarding the lighting of fires and fire risk indicator.</li> <li>• Ensure regular ranger patrol.</li> <li>• Ensure regular rubbish collection to avoid overflow.</li> </ul>		<p>Fire Control Officer.</p> <ul style="list-style-type: none"> <li>• Signs installed.</li> <li>• Periodic site inspection</li> </ul>
<ul style="list-style-type: none"> <li>• Protect and maintain the water quality of Dalhousie Creek</li> </ul>	<ul style="list-style-type: none"> <li>• Implement regular monitoring of water quality and review results.</li> <li>• Actively discourage future development in the area of Osprey Drive that can be shown to reduce current water quality levels.</li> </ul>	<p>High Priority On-going</p>	<ul style="list-style-type: none"> <li>• Regular reports presented to Reserve Trustee and Management Committee.</li> <li>• Current level of water quality maintained.</li> </ul>
<ul style="list-style-type: none"> <li>• Support the efficient and effective operation of the surf patrol and rescue service</li> <li>• Maximise the safety of persons visiting the reserve</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure patrol tower is fully maintained.</li> <li>• Support fundraising activities of the surf club and SLISA.</li> <li>• Formalise the occupation of the reserve by the Surf Club facility by way of an appropriate lease from the Trust.</li> <li>• Install signs relating to water safety.</li> <li>• Ensure vehicular access and appropriately located parking for emergency vehicles.</li> <li>• Provide safe pedestrian access from the top parking area to the surf club.</li> <li>• Carry out reserve maintenance in accordance with current Development Consent.</li> </ul>	<p>High Priority</p>	<ul style="list-style-type: none"> <li>• Periodic site inspection.</li> <li>• Maintenance undertaken as required.</li> <li>• Lease executed and registered on title</li> <li>• Signs erected.</li> <li>• Access and parking provided.</li> <li>• Access provided.</li> <li>• Maintenance completed in accordance with Consent.</li> </ul>

<ul style="list-style-type: none"> <li>• Provide and maintain an appropriate standard of facility.</li> </ul>	<ul style="list-style-type: none"> <li>• Implement maintenance program for the surf club, viewing platform and patrol tower.</li> </ul>		<ul style="list-style-type: none"> <li>• Maintenance completed as per program.</li> </ul>
<ul style="list-style-type: none"> <li>• Minimise the impact of weed species upon the natural environment</li> <li>• Maintain an adequate level of control of noxious plant infestation</li> </ul>	<ul style="list-style-type: none"> <li>• Develop and implement a program for removal and/or containment of weed species incorporating the techniques and methods outlined in the Draft Bellingen Shire Council Noxious Weeds Management Plan.</li> <li>• Through promotion, involve community groups and volunteers in the weed removal and containment program.</li> </ul>		<ul style="list-style-type: none"> <li>• Weed reduction and containment carried out in accordance with the program.</li> <li>• Periodic site inspection to assess levels of infestation.</li> <li>• Level of community involvement recorded.</li> </ul>

### 2.3.3 MANAGEMENT UNIT NO. 3 – AMENITIES UNIT

#### Description

This management unit contains the area situated within the loop road and features an amenities block, the caretaker's cottage and surrounds.

#### Vegetation Communities

Four vegetation communities are represented within this unit:

- Cleared Woodland
- Moist Eucalypt Closed Forest
- Brushbox Closed Forest
- Melaleuca Closed Forest

#### Fuel Groups, Fire Regime Tolerances and Fire Management Zones



VEGETATION COMMUNITY	FUEL GROUP CLASSIFICATION	FIRE REGIME TOLERANCES	FIRE MANAGEMENT ZONES
<b>CLEARED WOODLAND</b>	Negligible	<ul style="list-style-type: none"> <li>• Maximum recommended frequency 5 years</li> <li>• Risk of decline where tree canopy is totally consumed</li> </ul>	Hungry Head Development Zone
<b>MOIST EUCALYPT CLOSED FOREST</b>	Low	<ul style="list-style-type: none"> <li>• Maximum recommended frequency 30 years</li> <li>• Where possible exclude higher intensity fires</li> </ul>	Hungry Head Protection Zone
<b>BRUSHBOX CLOSED FOREST</b>	Negligible	<ul style="list-style-type: none"> <li>• Maximum recommended frequency 30 years</li> <li>• Where possible exclude higher intensity fires</li> </ul>	Hungry Head Protection Zone
<b>MELALEUCA CLOSED FOREST</b>	Medium	<ul style="list-style-type: none"> <li>• Maximum recommended frequency 8 years</li> </ul>	Hungry Head Protection Zone

#### MANAGEMENT OBJECTIVES AND STRATEGIES

OBJECTIVES	STRATEGIES	PRIORITY	PERFORMANCE ASSESSMENT
<ul style="list-style-type: none"> <li>• Protect, maintain and rehabilitate areas of environmentally sensitive vegetation</li> </ul>	<ul style="list-style-type: none"> <li>• Devise and implement a maintenance program for erosion control, specifically along access tracks.</li> <li>• Combine existing access tracks within forested areas to minimise erosion potential.</li> <li>• Develop and implement a maintenance program which provides a greater vegetated buffer to the Littoral Rainforest</li> <li>• Develop and implement</li> </ul>		<ul style="list-style-type: none"> <li>• Periodic site inspection to assess erosion levels.</li> <li>• Rehabilitation of eroded areas completed.</li> <li>• Littoral rainforest increases in area on its western side.</li> </ul>

	a maintenance program for weed control ( see specific objective below).		
<ul style="list-style-type: none"> <li>Encourage use of the reserve and its facilities by persons with access disabilities.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure any new or upgraded facility incorporates facilities for persons with access disabilities.</li> <li>Erect signs indicating the availability of amenities for persons with access disabilities.</li> </ul>		<ul style="list-style-type: none"> <li>Site inspection and assessment by Access Committee.</li> <li>Signs erected.</li> </ul>
<ul style="list-style-type: none"> <li>Minimise the visual impact of man-made features upon the natural environment</li> </ul>	<ul style="list-style-type: none"> <li>Prepare and implement a landscape plan to provide a vegetative buffer between the caretaker's residence, the amenities building and the road.</li> <li>Replace exotic species with indigenous trees and shrubs.</li> <li>Assess whether existing structures require upgrading or re-painting.</li> <li>Develop and implement a maintenance program for structures requiring upgrade.</li> <li>Implement the proposed renovation of the shed adjoining the caretaker's residence.</li> </ul>		<ul style="list-style-type: none"> <li>Planting completed.</li> <li>Site inspection.</li> <li>Maintenance completed as per program.</li> <li>Renovation completed.</li> </ul>
<ul style="list-style-type: none"> <li>Provide and maintain clean and safe amenities.</li> <li>Provide and maintain an appropriate standard of facility</li> </ul>	<ul style="list-style-type: none"> <li>Prepare and implement a works program for the regular maintenance of the cleared area including: <ul style="list-style-type: none"> <li>Mowing and weed removal</li> <li>Cleaning and maintenance of the amenities building.</li> <li>Rubbish collection</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>Maintenance completed as per program.</li> <li>Number of compliments /complaints received</li> <li>Survey of visitor satisfaction levels.</li> <li>Periodic site inspections.</li> </ul>

	<ul style="list-style-type: none"> <li>Maintenance and upgrading of the caretaker's residence.</li> </ul>		
<ul style="list-style-type: none"> <li>Foster public awareness and appreciation of the ecological, cultural / heritage values of the reserve</li> </ul>	<ul style="list-style-type: none"> <li>Devise and implement a reserve promotion program incorporating: <ul style="list-style-type: none"> <li>tourist information pamphlet stressing the ecological and cultural values of the reserve</li> <li>signage explaining the ecological and cultural values of the reserve</li> <li>display at the tourist information centre</li> <li>ecological/cultural information and tours for local schools.</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>Program implemented</li> <li>Periodic visitor survey to assess changes in levels of awareness.</li> <li>Reduction in amount of litter and vandalism.</li> </ul>
<ul style="list-style-type: none"> <li>Identify and protect sensitive native fauna</li> </ul>	<ul style="list-style-type: none"> <li>Engage consultants to survey fauna within the reserve and implement relevant recommendations for the conservation of rare and endangered species.</li> </ul>		<ul style="list-style-type: none"> <li>Survey completed.</li> <li>Recommendations implemented.</li> </ul>
<ul style="list-style-type: none"> <li>Provide and maintain facilities safe from fire risk</li> <li>Implement recommendations of the Hungry Head Reserve /Wenonah Head Fire Management Plan as they apply to Hungry Head.</li> </ul>	<ul style="list-style-type: none"> <li>Prepare and implement a works program to incorporate the strategies recommended in the Draft Hungry Head Reserve and Wenonah Headland Fire Management Plan as they relate to the Hungry Head Protection Zone.</li> <li>Carry out reserve maintenance in accordance with the current Development Consent.</li> <li>Install signs regarding the lighting of fires and fire risk indicator.</li> <li>Ensure regular ranger patrol.</li> </ul>		<ul style="list-style-type: none"> <li>Implementation of the works program.</li> <li>A nil fire occurrence within the vicinity of the residence.</li> <li>Periodic inspection by Fire Control Officer.</li> <li>Maintenance completed in accordance with the consent.</li> <li>Signs installed.</li> </ul>

	<ul style="list-style-type: none"> <li>• Ensure regular rubbish collection to avoid overflow.</li> </ul>		<ul style="list-style-type: none"> <li>• Periodic site inspection.</li> </ul>
<ul style="list-style-type: none"> <li>• Maximise the safety of persons visiting the reserve</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure vehicular access and appropriately located parking for emergency vehicles.</li> <li>• Provide safe pedestrian access from the top parking area to the surf club.</li> <li>• Carry out reserve maintenance in accordance with current Development Consent.</li> </ul>		<ul style="list-style-type: none"> <li>• Access and parking provided.</li> <li>• Access provided.</li> <li>• Maintenance completed in accordance with Consent.</li> </ul>
<ul style="list-style-type: none"> <li>• Minimise the impact of weed species upon the natural environment</li> <li>• Maintain an adequate level of control of noxious plant infestation</li> </ul>	<ul style="list-style-type: none"> <li>• Develop and implement a program for removal and/or containment of weed species incorporating the techniques and methods outlined in the Draft Bellinghen Shire Council Noxious Weeds Management Plan.</li> <li>• Through promotion, involve community groups and volunteers in the weed removal and containment program.</li> </ul>		<ul style="list-style-type: none"> <li>• Weed reduction and containment carried out in accordance with the program.</li> <li>• Periodic site inspection to assess levels of infestation.</li> <li>• Level of community involvement recorded.</li> </ul>

#### 2.3.4 MANAGEMENT UNIT NO. 4 – BUSHLAND UNIT

##### DESCRIPTION

This management unit contains approximately five hectares of bushland located in the south- western quarter of the reserve. It is bordered by Hungry Head Road to the north and west and Dalhousie Creek flows through its south-eastern corner.

##### Vegetation Communities

The bushland unit consists of 3 vegetation communities:

- Brushbox Closed Forest
- Moist Eucalypt Closed Forest
- Swamp Turpentine/Bloodwood Open Forest

Fuel Groups, Fire Regime Tolerances and Fire Management Zones

VEGETATION COMMUNITY	FUEL GROUP CLASSIFICATION	FIRE REGIME TOLERANCES	FIRE MANAGEMENT ZONES
<b>MOIST EUCALYPT CLOSED FOREST</b>	Low	<ul style="list-style-type: none"> <li>• Maximum recommended frequency 30 years</li> <li>• Where possible exclude higher intensity fires</li> <li>• Maximum recommended frequency 30 years</li> <li>• Where possible exclude higher intensity fires</li> <li>• Maximum recommended frequency 5 years</li> <li>• Risk of decline where tree canopy is totally consumed.</li> </ul>	Hungry Head Protection Zone
<b>BRUSHBOX CLOSED FOREST</b>	Negligible		Hungry Head Protection Zone
<b>SWAMP TURPENTINE/ BLOODWOOD OPEN FOREST</b>	Medium		Hungry Head Protection Zone

**MANAGEMENT OBJECTIVES AND STRATEGIES**

OBJECTIVES	STRATEGIES	PRIORITY	PERFORMANCE ASSESSMENT
<ul style="list-style-type: none"> <li>• Protect, maintain and rehabilitate areas of environmentally sensitive vegetation</li> </ul>	<ul style="list-style-type: none"> <li>• Devise and implement a maintenance program for erosion control, specifically along access tracks.</li> <li>• Combine existing access tracks within the rainforest to minimise erosion potential.</li> <li>• Develop and implement a maintenance program for weed control (see specific objective below).</li> </ul>		<ul style="list-style-type: none"> <li>• Periodic site inspection to assess erosion levels.</li> <li>• Rehabilitation of eroded areas completed.</li> <li>• Weed reduction carried out as per program.</li> </ul>

<ul style="list-style-type: none"> <li>Encourage use of the reserve and its facilities by persons with access disabilities.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure any new or up-graded facility incorporates facilities for persons with access disabilities.</li> <li>Review level of accessibility of each facility within the reserve.</li> <li>Develop a program for the upgrading of all facilities on-site to incorporate access for persons with access disabilities.</li> <li>Erect signs indicating the availability of facilities for persons with access disabilities.</li> <li>Provide a designated parking space for persons with access disabilities.</li> </ul>		<ul style="list-style-type: none"> <li>Site inspection and assessment by Access Committee.</li> <li>Visitor survey to determine level of usage by persons with access disabilities.</li> <li>Program implemented.</li> <li>Signs erected.</li> <li>Space provided and identified.</li> </ul>
<ul style="list-style-type: none"> <li>Foster public awareness and appreciation of the ecological, cultural / heritage values of the reserve</li> </ul>	<ul style="list-style-type: none"> <li>Devise and implement a reserve promotion program incorporating: <ul style="list-style-type: none"> <li>tourist information pamphlet stressing the ecological and cultural values of the reserve</li> <li>signs explaining the ecological and cultural values of the reserve</li> <li>display at the tourist information centre</li> <li>ecological/cultural information and tours for local schools.</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>Program implemented</li> <li>Periodic visitor survey to assess changes in levels of awareness.</li> <li>Reduction in amount of litter and vandalism.</li> </ul>
<ul style="list-style-type: none"> <li>Identify and protect sensitive native fauna</li> </ul>	<ul style="list-style-type: none"> <li>Engage consultants to survey fauna within the reserve and implement relevant recommendations for the conservation of rare and endangered species.</li> </ul>		<ul style="list-style-type: none"> <li>Survey completed.</li> <li>Recommendations implemented.</li> </ul>
<ul style="list-style-type: none"> <li>Provide and maintain facilities safe from fire risk</li> </ul>	<ul style="list-style-type: none"> <li>Prepare and implement a works program to incorporate the strategies</li> </ul>		<ul style="list-style-type: none"> <li>Implementation of the works program.</li> <li>A nil fire occurrence</li> </ul>

<ul style="list-style-type: none"> <li>Implement recommendations of the Draft Hungry Head Reserve and Wenonah Headland Fire Management Plan as they apply to Hungry Head.</li> </ul>	<p>recommended in the Draft Hungry Head Reserve and Wenonah Headland Fire Management Plan as they relate to the Hungry Head Protection Zone.</p> <ul style="list-style-type: none"> <li>Carry out reserve maintenance in accordance with the current Development Consent.</li> <li>Install signs regarding the lighting of fires and fire risk indicator.</li> <li>Ensure regular ranger patrol.</li> <li>Ensure regular rubbish collection to avoid overflow.</li> </ul>		<p>within the foredune and littoral rainforest.</p> <ul style="list-style-type: none"> <li>Periodic inspection by Fire Control Officer.</li> <li>Maintenance completed in accordance with Consent.</li> <li>Signs installed.</li> <li>Periodic site inspection</li> </ul>
<ul style="list-style-type: none"> <li>Protect and maintain the water quality of Dalhousie Creek</li> </ul>	<ul style="list-style-type: none"> <li>Implement regular monitoring of water quality and review results.</li> <li>Prohibit future development in the area of Osprey Drive which can be shown to reduce current water quality levels.</li> </ul>		<ul style="list-style-type: none"> <li>Regular reports presented to Reserve Trustee and Management Committee.</li> <li>Current level of water quality maintained.</li> </ul>
<ul style="list-style-type: none"> <li>Maximise the safety of persons visiting the reserve</li> </ul>	<ul style="list-style-type: none"> <li>Carry out reserve maintenance in accordance with current Development Consent.</li> <li>Ensure vehicular access and appropriately located parking for emergency vehicles.</li> <li>Provide safe pedestrian access from the top parking area to the surf club.</li> </ul>		<ul style="list-style-type: none"> <li>Maintenance completed in accordance with Consent.</li> <li>Access and parking provided.</li> <li>Access provided.</li> </ul>
<ul style="list-style-type: none"> <li>Minimise the impact of weed species upon the natural environment</li> <li>Maintain an adequate level of control of noxious</li> </ul>	<ul style="list-style-type: none"> <li>Develop and implement a program for removal and/or containment of weed species incorporating the techniques and methods outlined in the Draft</li> </ul>		<ul style="list-style-type: none"> <li>Weed reduction and containment carried out in accordance with the program.</li> <li>Periodic site inspection to assess levels of infestation.</li> </ul>

plant infestation	<p>Bellingen Shire Council Noxious Weeds Management Plan.</p> <ul style="list-style-type: none"> <li>Through promotion, involve community groups and volunteers in the weed removal and containment program.</li> </ul>		<ul style="list-style-type: none"> <li>Level of community involvement recorded.</li> </ul>
-------------------	---	--	--

### 2.3.5 MANAGEMENT UNIT NO. 5 – CABINS UNIT

#### Description

This management unit contains the existing holiday cabins and semi-cleared bushland in the northwestern portion of the reserve. It is bordered by Hungry Head Road to the south and east and the reserve boundaries to the north and west.

#### Vegetation Communities

The cabins unit consists of two vegetation communities:

- Dry Grassy Woodland
- Swamp Turpentine/Bloodwood Open Forest

#### Fuel Groups, Fire Regime Tolerances and Fire Management Zones

VEGETATION COMMUNITY	FUEL GROUP CLASSIFICATION	FIRE REGIME TOLERANCES	FIRE MANAGEMENT ZONES
Dry grassy woodland	medium	<ul style="list-style-type: none"> <li>maximum recommended frequency 8 years</li> </ul>	hungry head development zone
Swamp turpentine/ bloodwood open forest	medium	<ul style="list-style-type: none"> <li>maximum recommended frequency 5 years</li> <li>risk of decline where tree canopy is totally consumed.</li> </ul>	hungry head protection zone

### MANAGEMENT OBJECTIVES AND STRATEGIES



OBJECTIVES	STRATEGIES	PRIORITY	PERFORMANCE ASSESSMENT
<ul style="list-style-type: none"> <li>Protect, maintain and rehabilitate areas of environmentally sensitive vegetation</li> </ul>	<ul style="list-style-type: none"> <li>Devise and implement a maintenance program for erosion control, specifically along access tracks.</li> <li>Combine existing access tracks within forested areas to minimise erosion potential.</li> <li>Develop and implement a maintenance program for weed control ( see specific objective below).</li> </ul>		<ul style="list-style-type: none"> <li>Periodic site inspection to assess erosion levels.</li> <li>Rehabilitation of eroded areas completed.</li> </ul>
<ul style="list-style-type: none"> <li>Provide and maintain an appropriate standard of aesthetically pleasing parkland and picnic facilities.</li> </ul>	<ul style="list-style-type: none"> <li>Prepare and implement a works program for the regular maintenance (including mowing, weed removal and cleaning) of the picnic area.</li> <li>Carry out reserve maintenance in accordance with the existing Development Consent.</li> <li>Maintain regular rubbish collection to avoid overflows.</li> <li>Regularly review condition of facilities to determine whether replacement or additional facilities are required</li> </ul>		<ul style="list-style-type: none"> <li>Maintenance completed as per program.</li> <li>Number of compliments /complaints received</li> <li>Survey of visitor satisfaction levels.</li> <li>Periodic site inspections.</li> </ul>
<ul style="list-style-type: none"> <li>Provide and maintain safe, clean picnic facilities</li> <li>Encourage use of the reserve and its facilities by persons with access disabilities.</li> </ul>	<ul style="list-style-type: none"> <li>Implement a works program to ensure regular cleaning and maintenance of picnic facilities</li> <li>Ensure any new facility incorporates facilities for persons with access disabilities.</li> </ul>		<ul style="list-style-type: none"> <li>Maintenance and cleaning carried out in accordance with works program.</li> <li>Number of compliments /complaints received</li> <li>Survey of visitor satisfaction levels.</li> <li>Periodic site inspections</li> <li>Site inspection and assessment by Access Committee.</li> <li>Visitor survey to determine level of usage by persons with access disabilities.</li> <li>Signs erected.</li> </ul>

	<ul style="list-style-type: none"> <li>Erect signs indicating the availability of facilities for persons with access disabilities.</li> <li>Provide a designated parking space for persons with access disabilities.</li> </ul>		<ul style="list-style-type: none"> <li>Space provided and identified.</li> </ul>
<ul style="list-style-type: none"> <li>Provide and maintain clean and safe cabin accommodation.</li> <li>Provide and maintain an appropriate standard of facility</li> </ul>	<ul style="list-style-type: none"> <li>Prepare and implement a works program for the regular cleaning and maintenance of the cabins including <ul style="list-style-type: none"> <li>Mowing and weed removal</li> <li>Cleaning and maintenance of buildings.</li> <li>Rubbish collection</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>Maintenance completed as per program.</li> <li>Number of compliments /complaints received</li> <li>Survey of visitor satisfaction levels.</li> <li>Periodic site inspections.</li> </ul>
<ul style="list-style-type: none"> <li>Foster public awareness and appreciation of the ecological, cultural / heritage values of the reserve</li> </ul>	<ul style="list-style-type: none"> <li>Devise and implement a reserve promotion program incorporating: <ul style="list-style-type: none"> <li>tourist information pamphlet stressing the ecological and cultural values of the reserve</li> <li>signage explaining the ecological and cultural values of the reserve</li> <li>display at the tourist information centre</li> <li>ecological/cultural information and tours for local schools.</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>Program implemented</li> <li>Periodic visitor survey to assess changes in levels of awareness.</li> <li>Reduction in amount of litter and vandalism.</li> </ul>
<ul style="list-style-type: none"> <li>Identify and protect sensitive native fauna</li> </ul>	<ul style="list-style-type: none"> <li>Engage consultants to survey fauna within the reserve and implement relevant</li> </ul>		<ul style="list-style-type: none"> <li>Survey completed.</li> <li>Recommendations implemented.</li> </ul>

	recommendations for the conservation of rare and endangered species.		
<ul style="list-style-type: none"> <li>• Provide and maintain facilities safe from fire risk</li> <li>• Implement recommendations of the Hungry Head Reserve /Wenonah Head Fire Management Plan as they apply to Hungry Head.</li> </ul>	<ul style="list-style-type: none"> <li>• Prepare and implement a works program to incorporate the strategies recommended in the Draft Hungry Head Reserve and Wenonah Headland Fire Management Plan as they relate to the Hungry Head Protection Zone.</li> <li>• Carry out reserve maintenance in accordance with the current Development Consent.</li> <li>• Install signs regarding the lighting of fires and fire risk indicator.</li> <li>• Ensure regular ranger patrol.</li> <li>• Ensure regular rubbish collection to avoid overflow.</li> </ul>		<ul style="list-style-type: none"> <li>• Implementation of the works program.</li> <li>• A nil fire occurrence within the vicinity of the residence.</li> <li>• Periodic inspection by Fire Control Officer.</li> <li>• Maintenance completed in accordance with the consent.</li> <li>• Signs installed.</li> <li>• Periodic site inspection.</li> </ul>
<ul style="list-style-type: none"> <li>• Maximise the safety of persons visiting the reserve</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure vehicular access and appropriately located parking for emergency vehicles.</li> <li>• Carry out reserve maintenance in accordance with current Development Consent.</li> </ul>		<ul style="list-style-type: none"> <li>• Access and parking provided.</li> <li>• Maintenance completed in accordance with Consent.</li> </ul>
<ul style="list-style-type: none"> <li>• Minimise the impact of weed species upon the natural environment</li> <li>• Maintain an adequate level of control of noxious plant infestation</li> </ul>	<ul style="list-style-type: none"> <li>• Develop and implement a program for removal and/or containment of weed species incorporating the techniques and methods outlined in the Draft Bellingen Shire Council Noxious Weeds Management Plan.</li> <li>• Through promotion, involve community groups and volunteers in the weed removal and containment program.</li> </ul>		<ul style="list-style-type: none"> <li>• Weed reduction and containment carried out in accordance with the program.</li> <li>• Periodic site inspection to assess levels of infestation.</li> <li>• Level of community involvement recorded.</li> </ul>

## 2.4 MONITORING PERFORMANCE AND PLAN REVIEW

Following the formal adoption of the plan in accordance with the Crown Lands Act 1989, the Reserve Trust Management Committee in conjunction with the Trust manager, should complete the following tasks

- Determine a priority listing for each strategy listed in the plan;
- Identify a responsible person, persons or entity for the achievement of each strategy;
- Determine, on the basis of those strategies considered to be high priority, those action plans that need to be addressed first;
- Agree on a schedule for either twelve or twenty-four months for the completion of the most urgent action plans on a rolling basis;
- Agree on a timetable for the implementation of those strategies considered to be of highest priority;
- Monitor the level of achievement of strategies in terms of measurement of action plans completed and strategies implemented on an annual basis; and
- Review the entire Plan of Management five years from the date of its adoption.

## 2.5 SOURCES OF FINANCE

Funding for Hungry Head Reserve can only generally be achieved through two sources, the first being Bellinghen Council budget items and the second being grants received from State and Commonwealth government departments. Purposes for which funding is required can be divided into two general categories as follows:

- Regular maintenance costs; and
- Specific projects.

### Funding for maintenance

The caretaker carries out general maintenance work on the Hungry Head cabins and the caretakers dwelling. These works form part of the responsibilities of his lease. Other general maintenance within the reserve is directly related to the income produced from the tourist occupation of the cabins. This income is utilised by Bellinghen Council, via the budget process to carry out other regular maintenance within the reserve. Specific maintenance projects, such as weed removal or revegetation may at times be undertaken on a voluntary basis.

### Specific Projects

Major projects or capital works within the reserve can only be funded if grant monies are forthcoming. Financial assistance from state and federal government is generally based on a '\$ for \$' arrangement. In these instances, where the Trust Management Committee has been successful in obtaining a grant, works in-kind, Council staff labour and voluntary labour makes up the 50% contribution required. To date the Trust management Committee has been successful in obtaining assistance under the State government's Coastal management Program.

## 2.6 ACKNOWLEDGMENT

The Hungry Head Reserve Trust and the Management Committee acknowledges the support of the Coast Care Program (a joint Federal, State and Local government initiative) in providing funds to assist in the preparation of this Plan of Management. Additionally, the support and assistance of the Regional Coast Care Facilitator is also acknowledged