



## CLEARING PERMIT

*Granted under section 51E of the Environmental Protection Act 1986*

<b>Purpose Permit number:</b>	CPS 5069/1
<b>Permit Holder:</b>	Shire of Manjimup
<b>Duration of Permit:</b>	3 August 2012 – 3 August 2017

The Permit Holder is authorised to clear native vegetation subject to the following conditions of this Permit.

### **PART I – CLEARING AUTHORISED**

**1. Purpose for which clearing may be done**

Clearing for the purpose of road reconstruction, road widening and hazardous tree removal.

**2. Land on which clearing is to be done**

Middleton Road reserve (PIN 11560473, PIN 11560472 and PIN 11560471), Boorara Brook and Northcliffe.

**3. Area of Clearing**

The Permit Holder must not clear more than 1 hectare of native vegetation within the combined areas shaded yellow on attached Plan 5069/1 (a), Plan 5069/1 (b) and Plan 5069/1 (c).

**4. Application**

This Permit allows the Permit Holder to authorise persons, including employees, contractors and agents of the Permit Holder, to clear native vegetation for the purposes of this Permit subject to compliance with the conditions of this Permit and approval from the Permit Holder.

**5. Type of clearing authorised**

This Permit authorises the Permit Holder to clear native vegetation for activities to the extent that the Permit Holder has the power to clear native vegetation for those activities under the *Local Government Act 1995* or any other written law.

**6. Compliance with Assessment Sequence and Management Procedures**

Prior to clearing any native vegetation under conditions 1, 2 and 3 of this Permit, the Permit Holder must comply with the Assessment Sequence and the Management Procedures set out in Part II of this Permit.

### **PART II – ASSESSMENT SEQUENCE AND MANAGEMENT PROCEDURES**

**7. Avoid, minimise etc clearing**

In determining the amount of native vegetation to be cleared authorised under this Permit, the Permit Holder must have regard to the following principles, set out in order of preference:

- avoid the clearing of native vegetation;
- minimise the amount of native vegetation to be cleared; and
- reduce the impact of clearing on any environmental value.

## 8. Dieback and weed control

When undertaking any clearing or other activity authorised under this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *weeds* and *dieback*:

- (a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- (b) shall only move soils in *dry conditions*;
- (c) ensure that no *dieback* or *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- (d) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

## 9. Fauna management

- (a) Prior to undertaking any clearing authorised under this Permit, the area(s) shall be inspected by a *fauna specialist* who shall:
  - (i) identify *habitat trees* suitable to be utilised by Carnaby's black cockatoo (*Calyptorhynchus latirostris*), Baudins black cockatoo (*Calyptorhynchus baudinii*) and Red-tailed black cockatoo (*Calyptorhynchus banksii*); and
  - (ii) inspect *habitat trees* identified under condition 9(a)(i) for the presence of Carnaby's cockatoo (*Calyptorhynchus latirostris*), Baudins cockatoo (*Calyptorhynchus baudini*) and Red-tailed black cockatoo (*Calyptorhynchus banksii*).
- (b) Within one week prior to undertaking any clearing authorised under this Permit, the Permit Holder shall engage a *fauna clearing person* to remove and relocate fauna identified under condition 9(a)(ii).

## PART III - RECORD KEEPING AND REPORTING

### 10. Records must be kept

The Permit Holder must maintain the following records in relation to fauna management pursuant to condition 9 of this Permit:

- (a) the location of each habitat tree identified, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
- (b) the species name of fauna reasonably likely to utilise, or that have been observed utilising, the trees that contain hollows;
- (c) the location and date where relocated fauna was released, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees.

### 11. Reporting

- (a) The Permit Holder must provide to the CEO on or before 30 June of each year, a written report:
  - (i) of records required under condition 10 of this Permit; and
  - (ii) concerning activities done by the Permit Holder under this Permit between 1 July and 30 June of the preceding year.
- (b) Prior to 2 May 2017, the Permit Holder must provide to the CEO a written report of records required under condition 10 of this Permit where these records have not already been provided under condition 11(a) of this Permit.

## DEFINITIONS

The following meanings are given to terms used in this Permit:

*dieback* means the effect of *Phytophthora* species on native vegetation;

*dry conditions* means when soils (not dust) do not freely adhere to rubber tyres, tracks, vehicle chassis or wheel arches;

*fill* means material used to increase the ground level, or fill a hollow;

**mulch** means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation; and

**weed/s** means a species listed in Appendix 3 of the "Environmental Weed Strategy" published by the Department of Conservation and Land Management (1999), and plants declared under section 37 of the *Agriculture and Related Resources Protection Act 1976*.

**fauna clearing person** means a person who has obtained a licence from the Department, issued pursuant to the *Wildlife Conservation Regulations 1970* authorising them to take fauna;

**fauna specialist** means a person with training and specific work experience in fauna identification or faunal assemblage surveys of Western Australian fauna; and

**habitat tree(s)** means trees that have a diameter, at average adult human chest height, of greater than 50cm, healthy but with dead limbs and broken crowns that are likely to contain hollows and roosts suitable for native fauna, or where these are not present then healthy but with the potential to contain hollows and roosts.



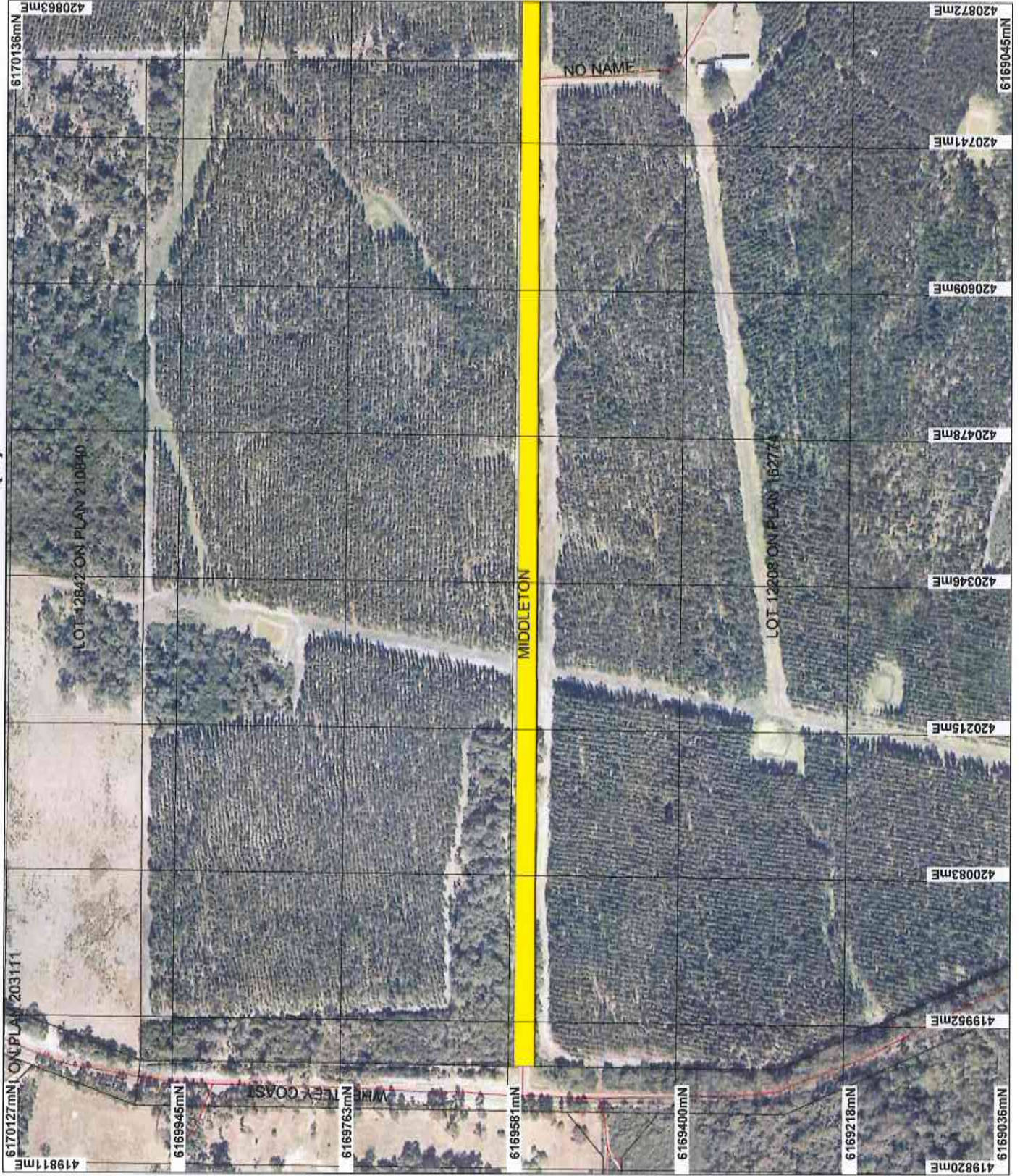
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Kelly Faulkner  
MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

*Officer delegated under Section 20  
of the Environmental Protection Act 1986*

12 July 2012

# Plan 5069/1 (a)



## LEGEND

- Freshwater
- Cadastre
- Crown Reserve
- State Forest / Timber Res
- Marine Park
- Crown Lease
- Lease / Reserve
- Lease on State Forest / Tr
- Public Roads
- Unallocated Crown Land
- Water
- Road Centrelines
- Clearing Instrument
- Areas Approved to Clear Northcliffe 50cm Or 2007

\* Project Data. This data has not been quality assured. Please contact map author for details.



Scale 1:5164  
 (Approximate when reproduced at A4)

Geocentric Datum Australia 1994

Note: the data on this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

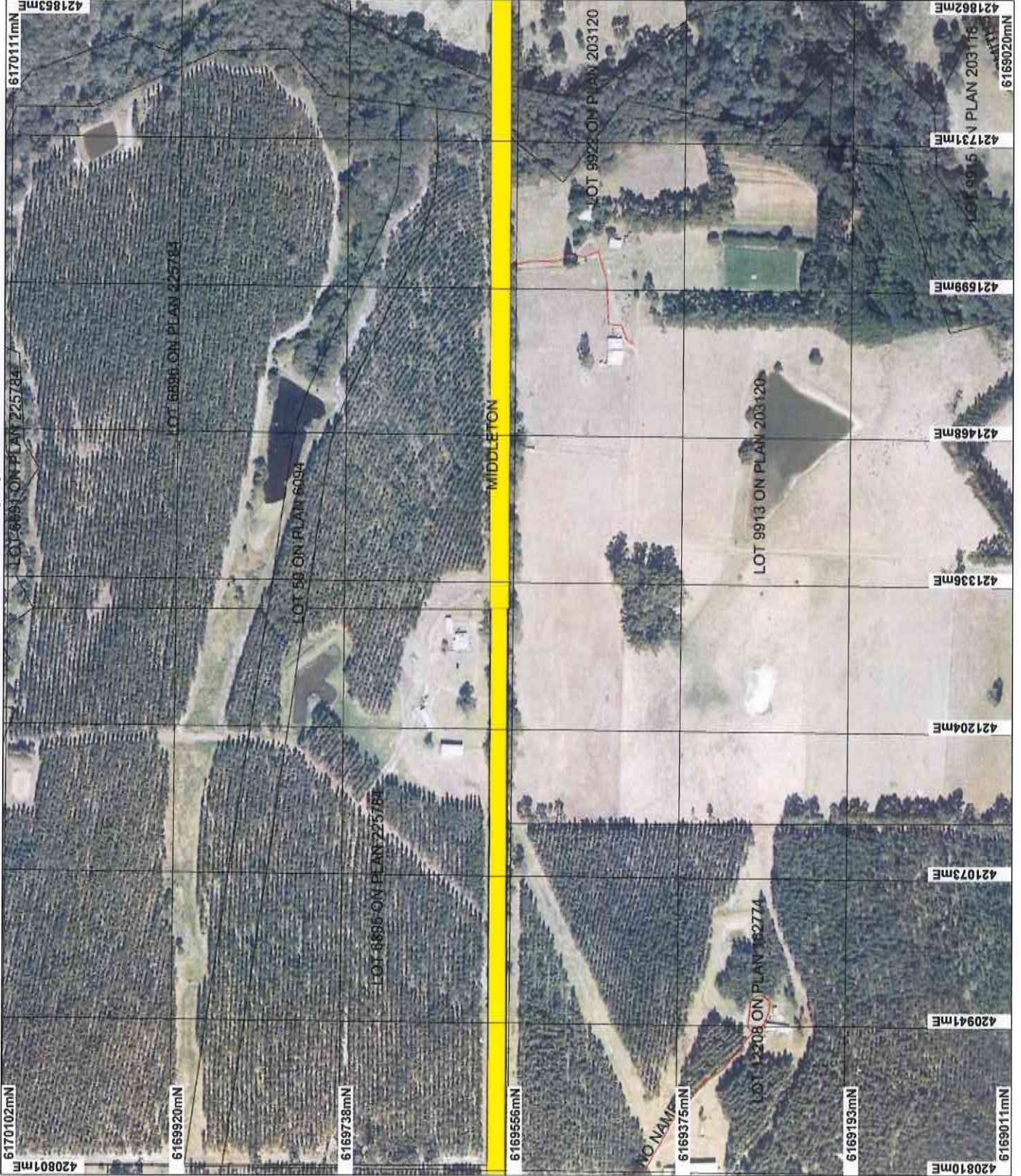
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Kelly Faulkner

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



# Plan 5069/1 (b)



## LEGEND

- Cadastral**
- Freehold
  - Crown Reserve
  - State Forest / Timber Res.
  - Marine Park
  - Crown Lease
  - Lease / Reserve
  - Lease on State Forest / Tr
  - Public Roads
  - Unallocated Crown Land
  - Water
- Road Centrelines**
- Clearing Instrument
- Areas Approved to Clear**
- Northcliffe 50cm Or 2007

\* Project Data. This data has not been quality assured. Please contact map author for details.



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(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

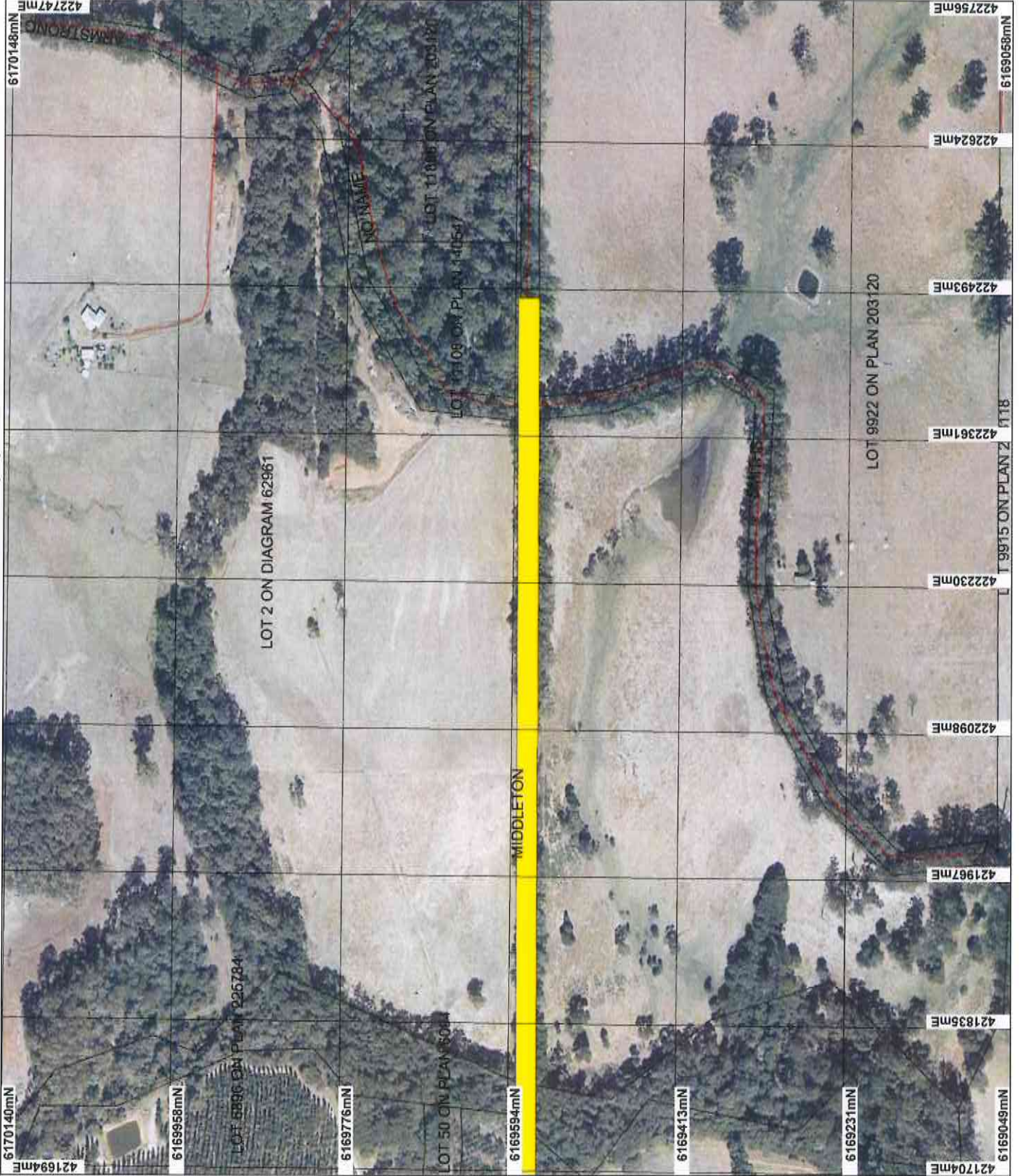
Note: The data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

*Kelly Faulkner*  
Date 12/7/12

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# Plan 5069/1 (c)



## LEGEND

- Freshwater
- Crown Reserve
- State Forest / Timber Res
- Marine Park
- Crown Lease
- Lease / Reserve
- Lease on State Forest / T
- Public Roads
- Unallocated Crown Land
- Water
- Road Centrelines
- Clearing Instrumental
- Area Approved to Clear
- Northcillie 50cm Or 2007

\* Project Data. This date has not been quality assured. Please contact map author for details.



0 150m

Scale 1:5764

(Approximate when reproduced at A4)

Geospatial Datum Australia 1984

Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

*Kelly Faulkner*

Date 12/7/12

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## 1. Application details

### 1.1. Permit application details

Permit application No.: 5069/1  
Permit type: Purpose Permit

### 1.2. Proponent details

Proponent's name: Shire of Manjimup

### 1.3. Property details

Property: ROAD RESERVE (BOORARA BROOK 6262)  
ROAD RESERVE (NORTHCLIFFE 6262)  
ROAD RESERVE (NORTHCLIFFE 6262)  
ROAD RESERVE (BOORARA BROOK 6262)  
Local Government Area: Shire of Manjimup  
Colloquial name: Middleton Road reserve

### 1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
1		Mechanical Removal	Road construction or maintenance

### 1.5. Decision on application

Decision on Permit Application: Grant  
Decision Date: 12 July 2012

## 2. Site Information

### 2.1. Existing environment and information

#### 2.1.1. Description of the native vegetation under application

Vegetation Description	Clearing Description	Vegetation Condition	Comment
<p>The area under application is mapped as Mattiske vegetation Angove complex consisting of open forest of <i>Eucalyptus marginata</i> subsp. <i>marginata</i>-<i>Banksia ilicifolia</i>-<i>Nuytsia floribunda</i> with some <i>Eucalyptus diversicolor</i> on gently sloping sandy terrain in hyperhumid and perhumid zones.</p> <p>Mattiske vegetation Collins 1 complex is described as tall open forest to woodland of <i>Eucalyptus marginata</i> subsp. <i>marginata</i>-<i>Corymbia calophylla</i>-<i>Banksia grandis</i>-<i>Allocasuarina fraseriana</i> on low hills with <i>Allocasuarina decussata</i> on slopes in perhumid and humid zones.</p> <p>Mattiske vegetation Shallow Valleys complex is described as low woodland of <i>Eucalyptus marginata</i> subsp. <i>marginata</i>-<i>Corymbia calophylla</i> on slopes, and mosaic of low open woodland of <i>Melaleuca preissiana</i>-<i>Banksia littoralis</i>, closed heaths and sedgeland of <i>Cyperaceae</i> spp. on valley floors with impeded drainage in hyperhumid and perhumid zones.</p> <p>Mattiske vegetation Crowea is described as tall open forest of <i>Corymbia calophylla</i>-<i>Eucalyptus diversicolor</i> on upper slopes with <i>Allocasuarina decussata</i>-<i>Banksia grandis</i> on upper slopes in hyperhumid and perhumid zones (Mattiske and Havel, 1998).</p> <p>Mapped Beard vegetation association 3 is described as medium forest consisting of jarrah and marri.</p> <p>Mapped Beard vegetation association 1144 is described as tall forest consisting of karri &amp; marri (<i>Corymbus calophylla</i>) (Shepherd, et al 2001).</p>	<p>The application proposes to clear 1 hectare of native vegetation within Middleton Road reserve, Boorara Brook and Northcliffe, for the purpose of hazardous tree removal, road reconstruction and road widening.</p> <p>A site inspection conducted by Department of Environment and Conservation's regional officers noted that Karri and Marri are the dominant tree species within the application area, with a middle storey comprised of <i>Agonis flexuosa</i> and Bracken Fern (DEC, 2012).</p>	<p>Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994).</p>	<p>The condition of the vegetation was established through aerial imagery (Northcliffe 15cm orthomosaic Landgate 2007).</p>

### 3. Assessment of application against clearing principles

#### Comments

The application proposes to clear up to 1ha of native vegetation over a linear distance of 3.2km within Middleton Road reserve, Northcliffe and Boorara Brook, for the purpose of hazardous tree removal, road reconstruction and road widening. The vegetation is in a degraded (Keighery, 1994) condition.

A recent site inspection by DEC (2012) confirmed the presence of large habitat trees containing hollows. Therefore, the proposed clearing may be at variance to principle (b). Inspection of the vegetation by a fauna specialist will help to ensure habitat trees with significant hollows are retained.

The Shire of Manjimup retains approximately 84.5 per cent of its pre-European vegetation extent (Government of Western Australia, 2011). A relatively large proportion (approximately 50 per cent) of the native vegetation in the local area (10km radius) is held in secure tenure, with Jane National Park approximately 900m to the north east of the applied area. Therefore the proposed clearing is unlikely to be at variance to Principle (e).

Gardner River, a major perennial, intersects the application area. Vegetation growing in association with this water course may be cleared however it is unlikely that the flow regime of this water course will be impacted as there is drainage infrastructure related to the existing road already in place. Therefore, the proposed clearing may be at variance to principle (f).

The Shire of Manjimup is a known Phytophthora dieback risk area and roadside clearing activities have the potential to introduce and spread this pathogen, as well as weeds, due to the movement and disturbance of soil (RCC, 2010). This threat can be minimised by the imposition of dieback and weed management practices.

Given the disturbed condition of the vegetation, and the small size and linearity of the proposed clearing, it is unlikely to cause appreciable land degradation, or cause or exacerbate the incidence of flooding.

Given the above the proposed clearing may be at variance to principle (b) and (f), and is not likely to be at variance to the remaining clearing principles.

#### Methodology

##### References:

- DEC (2012)
- Government of Western Australia (2011)
- Keighery (1994)
- RCC (2010)

##### GIS Databases:

- SAC Biodatasets (accessed June 2012)
- Soils, Statewide
- Northcliffe 15cm Orthomosaic - Landgate 2007
- Pre-European Vegetation
- Mattiske Vegetation

### Planning Instrument, Native Title, Previous EPA decision or other matter.

#### Comments

No submissions from the public have been received.

The native vegetation clearing permit, CPS 3826/1, previously granted to the Shire of Manjimup for the Middleton Road reserve lies directly adjacent to the proposed clearing area and expires on 19 September 2012.

#### Methodology

### 4. References

- DEC (2012) Site Inspection Report for Clearing Permit Application CPS 5069/1, Middleton Road reserve, Northcliffe and Boorara Brook. Site inspection undertaken 02/07/2012. Department of Environment and Conservation, Western Australia (DEC Ref. A519872).
- Government of Western Australia (2011); 2011 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). WA Department of Environment and Conservation, Perth.
- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Mattiske, E.M. and Havel, J.J. (1998) Vegetation Complexes of the South-west Forest Region of Western Australia. Maps and report prepared as part of the Regional Forest Agreement, Western Australia for the Department of Conservation and Land Management and Environment Australia.
- RCC (2010) Roadside Conservation Value Advice given to Application CPS 3826/1. Roadside Conservation Committee.
- Shepherd, D.P., Beeston, G.R., and Hopkins, A.J.M. (2001), Native Vegetation in Western Australia. Technical Report 249. Department of Agriculture Western Australia, South Perth.



## 5. Glossary

Term	Meaning
BCS	Biodiversity Coordination Section of DEC
CALM	Department of Conservation and Land Management (now BCS)
DAFWA	Department of Agriculture and Food
DEC	Department of Environment and Conservation
DEP	Department of Environmental Protection (now DEC)
DoE	Department of Environment
DoIR	Department of Industry and Resources
DRF	Declared Rare Flora
EPP	Environmental Protection Policy
GIS	Geographical Information System
ha	Hectare (10,000 square metres)
TEC	Threatened Ecological Community
WRC	Water and Rivers Commission (now DEC)