



## CLEARING PERMIT

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

**Purpose Permit number:** CPS 3470/1  
**Permit Holder:** Shire of Boyup Brook  
**Duration of Permit:** 14 February 2010 – 14 February 2015

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 widening.
- 2. Land on which clearing is to be done**  
Abels Road Reserve, Boyup Brook
- 3. Area of Clearing**  
The Permit Holder must not clear more than 1.0 hectare of native vegetation within the area shaded yellow on attached Plan 3470/1a.
- 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 for the authorised purpose of this Permit, the Permit Holder must have regard to the following principles, set out in order of preference:
  - (a) avoid the clearing of native vegetation;
  - (b) minimise the amount of native vegetation to be cleared; and
  - (c) reduce the impact of clearing on any environmental value.

## 8. Weed control

- (a) 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*:
- (i) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
  - (ii) ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
  - (iii) 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 identify *habitat tree(s)* suitable to be utilised by Muir's Corella (*Cacatua pastinator pastinator*).
- (b) Prior to clearing, any *habitat tree(s)* identified by condition 9(a) shall be inspected by a *fauna specialist* for the presence of Muir's Corella (*Cacatua pastinator pastinator*).
- (c) The Permit Holder shall not clear during the months of September through to January if Muir's Corella (*Cacatua pastinator pastinator*) or their nesting hollows are identified under condition 9(a) and 9(b).

## 10. Revegetation and rehabilitation

- (a) Within twelve months of clearing any area authorised under this Permit, the Permit Holder must *revegetate* and *rehabilitate* the area shaded red on attached Plan 3470/1b by:
- (i) deliberately *planting* and/or *direct seeding* native vegetation that will result in a similar species composition, structure and density of native vegetation to pre-clearing vegetation types in that area; and
  - (ii) ensuring only *local provenance* seeds and propagating material are used to *revegetate* and *rehabilitate* the area.
- (b) Within twelve months of undertaking *revegetation* and *rehabilitation* in accordance with condition 10(a) of this Permit, the Permit Holder must:
- (i) determine the species composition, structure and density of the area *revegetated* and *rehabilitated*; and
  - (ii) where, in the opinion of an *environmental specialist*, the composition structure and density determined under condition 10(b)(i) of this Permit will not result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, the Permit Holder must undertake additional *planting* or *direct seeding* of native vegetation in accordance with the requirements of condition 10(a)(i) and (ii) of this Permit.

## PART III - RECORD KEEPING AND REPORTING

### 10. Records must be kept

The Permit Holder must maintain the following records for activities done pursuant to this Permit:

- (a) In relation to the clearing of native vegetation authorised under this Permit:
- (i) the species composition, structure and density of the cleared area;
  - (ii) the location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings;
  - (iii) the date that the area was cleared; and
  - (iv) the size of the area cleared (in hectares).



- (b) In relation to fauna management pursuant to condition 9 of this Permit:
  - (i) 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; and
  - (ii) 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.
  
- (c) In relation to the *revegetation* and *rehabilitation* of areas pursuant to condition 10 of this Permit:
  - (i) the location of any areas *revegetated* and *rehabilitated*, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings;
  - (ii) a description of the *revegetation* and *rehabilitation* activities undertaken;
  - (iii) the size of the area *revegetated* and *rehabilitated* (in hectares); and
  - (iv) the species composition, structure and density of *revegetation* and *rehabilitation*.

## 11. Reporting

- (a) The Permit Holder must provide to the CEO, on or before 30 June of each year, a written report of records required under condition 10 of this Permit and activities done by the Permit Holder under this Permit between 1 January and 31 December of the preceding year.
  
- (b) Prior to 14 November 2014, 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:

*direct seeding* means a method of re-establishing vegetation through the establishment of a seed bed and the introduction of seeds of the desired plant species;

*environmental specialist* means a person who is engaged by the Permit Holder for the purpose of providing environmental advice, who holds a tertiary qualification in environmental science or equivalent, and has experience relevant to the type of environmental advice that an environmental specialist is required to provide under this Permit;

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

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

*habitat tree(s)* means trees that have a diameter, at average adult human chest height, of greater than 15 cm, 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;

*local provenance* means native vegetation seeds and propagating material from natural sources within 20 kilometres of the area cleared;

*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;

*planting* means the re-establishment of vegetation by creating favourable soil conditions and planting seedlings of the desired species;

*rehabilitate/ed/ion* means actively managing an area containing native vegetation in order to improve the ecological function of that area;

*revegetate/ed/ion* means the re-establishment of a cover of *local provenance* native vegetation in an area using methods such as *regeneration, direct seeding* and/or *planting*, so that the species composition, structure and density is similar to pre-clearing vegetation types in that area; and

*weed* 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*.



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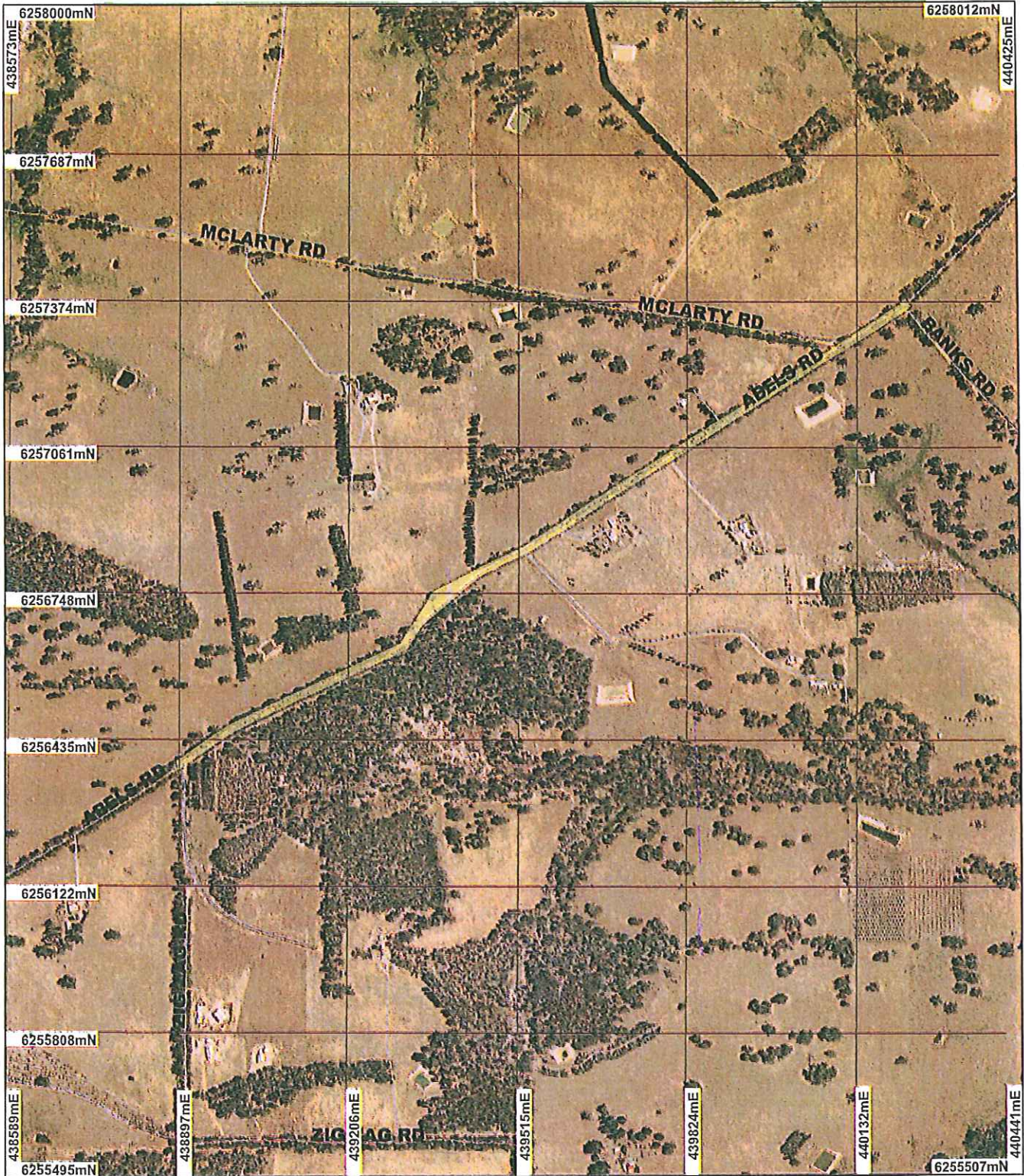
Kelly Faulkner  
MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

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

14 January 2010



# Plan 3470/1a



## LEGEND

- Clearing Instruments
- Areas Approved to Clear
- Road Centrelines
- Bridgetown 50cm Orthomosaic - Landgate 2004



0 ————— 300 m

Scale 1:11000  
(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.

*[Signature]* Date 14/10

K Faulkner  
Officer with delegated authority under Section 20 of the Environmental Protection Act 1986

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

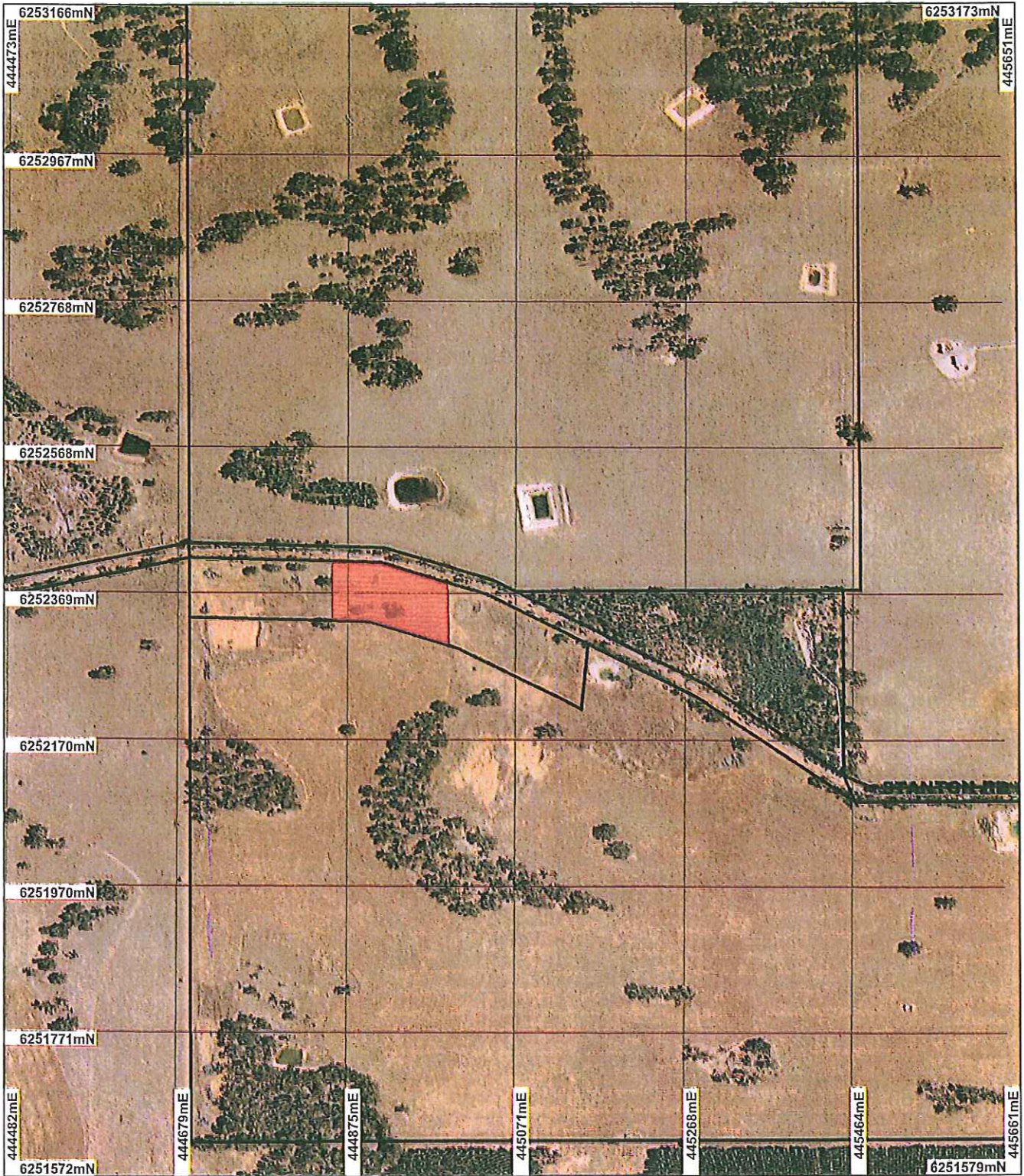


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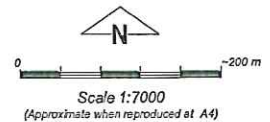


# Plan 3470/1b



## LEGEND

- Clearing Instruments
  - Areas Subject to Conditions
  - Road Centrelines
  - Cadastral
- Bridgetown 50cm  
Orthomosaic • Landgate  
2004



Geocentric Datum Australia 1994

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

Date .....

K Faulkner  
Officer with delegated authority under Section 20 of  
the Environmental Protection Act 1986

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



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## 1. Application details

### 1.1. Permit application details

Permit application No.: 3470/1  
Permit type: Purpose Permit

### 1.2. Proponent details

Proponent's name: Shire of Boyup Brook

### 1.3. Property details

Property: ROAD RESERVE ( BOYUP BROOK 6244)  
Local Government Area:  
Colloquial name: Abels Road reserve

### 1.4. Application

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

## 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
Beard Vegetation type: 992 - Medium forest; jarrah & wandoo (Eucalyptus wandoo) (Shepherd, 2007; SAC Bio Datasets 14/12/2009)	The vegetation under application (1 ha) is located within a road reserve, approximately 4 km west of Boyup Brook townsite. The purpose of the clearing is to widen and realign Abels Road.	Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)	The condition of the native vegetation under application was determined from photos supplied by the applicant (Shire of Boyup Brook, 2009). The condition of the vegetation ranged from completely degraded to good.

#### Mattiske Vegetation types:

DM1 (Dalmore 1) - Woodland of *Corymbia calophylla*-*Eucalyptus marginata* subsp. *marginata* with occasional *Eucalyptus wandoo* on uplands in the subhumid zone.

DMg (Dalmore) - Mosaic of woodland of *Eucalyptus wandoo* with some *Corymbia calophylla* on deeper soils and open heath of *Myrtaceae*-*Proteaceae* spp. and lithic complex on shallow soils near granite outcrops in subhumid to arid zones.

NWg1 (Newgalup) - Woodland of *Corymbia calophylla*-*Eucalyptus marginata* subsp. *marginata* on slopes, open heath on shallow soils near granites, open forest of *Eucalyptus rudis*-*Eucalyptus wandoo* on the valley floors in the subhumid zone.

Mattiske and Havel (1998)

## 3. Assessment of application against clearing principles

### Comments

The proposed clearing is 1.0 hectare of native vegetation within Abels Road reserve. The vegetation under application is associated with Beard vegetation type 992 (Medium forest; jarrah & wandoo) and aerial imagery and photos provided by the applicant (Shire of Boyup Brook, 2009) shows moderately sparse vegetation, considered to be in good (Keighery, 1994) condition. The assessment identified that the proposed clearing is not likely to significantly impact any biodiversity, land degradation, or environmental water values within the local or regional context. However, any mature trees located within the area under application may comprise hollows suitable for Muir's Corella (Endangered) (DEC, 2009).

To mitigate any impacts from the proposed clearing a fauna management condition will be imposed on the

clearing permit.

Additionally, the Environmental Protection Authority (EPA) supports a 30% threshold level as recommended in the National Objectives Targets for Biodiversity Conservation; below which species loss appears to accelerate exponentially at an ecosystem level (EPA, 2000). Vegetation types Beard 992 (24.0%), Dalmore (9.6%) and Newgalup (20%) retain less than this 30% threshold level. Therefore, the roadside vegetation under application is considered to be significant as a remnant of native vegetation in an area that has been extensively cleared. Roadside vegetation is important for providing habitat for local fauna, providing a local seed source and acting as a biological corridor to facilitate fauna movement (RCC, Undated). Therefore, the proposed clearing is at variance to Principle (e).

To mitigate any impacts from the proposed clearing a revegetation condition will be imposed on the clearing permit.

	Pre-European (ha)	Current extent (ha)	Remaining (%)	In secure tenure (%)
IBRA Bioregion*				
Jarrah Forrest (JF) <sup>^</sup>	4,506,655	2,440,940	54.1	
Shire of Boyup Brook*	282,611	127,117	44.9	
Local area (10 km radius)	31,400	~6,900	~21.9	
Beard vegetation type*				
992 (within JF)	121,369	29,185	24.0	8.6
Mattiske vegetation types**				
DM1 (Dalmore 1)	74,368	26,126	35.1	
DMg (Dalmore)	14,276	1,376	9.6	
NWg1 (Newgalup)	206,918	41,391	20.0	

\* (Shepherd, 2007)

\*\* (Mattiske and Havel, 1998)

<sup>^</sup> Area within Intensive Land Use Zone

#### Methodology

##### References:

- DEC (2009)
- EPA (2000)
- Keighery (1994)
- Mattiske and Havel (1998)
- RCC (Undated)
- Shepherd (2007)
- Shire of Boyup Brook (2009)

##### GIS Databases:

- Interim Biogeographic Regionalisation of Australia
- SAC Bio Datasets 17/12/2009

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

#### Comments

The vegetation under application is located in the area defined in EPA Position Statement No. 2 (EPA 2000). EPA Position Statement No. 2 states that clearing should not compromise any vegetation type by taking it below the threshold level of 30%; however, where this occurs EPA expects alternative mechanisms to be put forward to protect biodiversity (EPA, 2000).

The Shire of Boyup Brook (2010) has proposed revegetating an area of approximately 1.2 ha within Crown Reserve 28912 (Lot 12972), vested with the Shire of Boyup Brook for gravel extraction, to offset the proposed clearing along Abels Road.

There is no RIWI Act Licence or EP Act Licence that affects the area under application.

The area is zoned Roads in the Local Town Planning Scheme.

#### Methodology

##### References:

- EPA (2000)
- Shire of Boyup Brook (2010)

##### GIS database:

- Town Planning Scheme Zones

#### 4. Assessor's comments



## Comment

The clearing application has been assessed against the clearing principles, planning instruments and other matters in accordance with s51O of the Environmental Protection Act 1986, and the clearing as proposed is at variance to Principle (e) and not likely to be at variance to the remaining clearing principles.

## 5. References

DEC (2009) DEC Regional Advice. Department of Environment and Conservation. TRIM Ref DOC115052

EPA (2000) Environmental protection of native vegetation in Western Australia. Clearing of native vegetation, with particular reference to the agricultural area. Position Statement No. 2. December 2000. Environmental Protection Authority, Western Australia.

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 (Undated) Verge Notes-A Roadside Note for Landowners, Roadside Conservation Committee (RCC), Department of Conservation and Land Management, Western Australia.

Shepherd, D.P. (2007). Adapted from: 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. Includes subsequent updates for 2006 from Vegetation Extent dataset ANZWA1050000124.

Shire of Boyup Brook (2009) Application for a Clearing Permit (Purpose Permit): Abels Road, Boyup Brook Realignment and Reconstruction, Shire of Boyup Brook. TRIM Ref DOC109234

Shire of Boyup Brook (2010) Offset Proposal for Clearing Permit CPS 3470/1 Abels Road, Shire of Boyup Brook. TRIM Ref DOC115097

## 6. 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 (now DEC)
DMP	Department of Mines and Petroleum (ex DoIR)
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)



