



## **CLEARING PERMIT**

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

### **PERMIT DETAILS**

Area Permit Number: 3638/1  
File Number: DEC14727  
Duration of Permit: From 22 May 2010 to 22 May 2012

### **PERMIT HOLDER**

Shire of Busselton

### **LAND ON WHICH CLEARING IS TO BE DONE**

Kaloorup Road, Jindong (ROAD RESERVE – PIN11471096)

### **AUTHORISED ACTIVITY**

The Permit Holder shall not clear more than 0.16 hectares of native vegetation within the area cross hatched yellow on attached Plan 3638/1.

### **CONDITIONS**

#### **1. 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:

- (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.

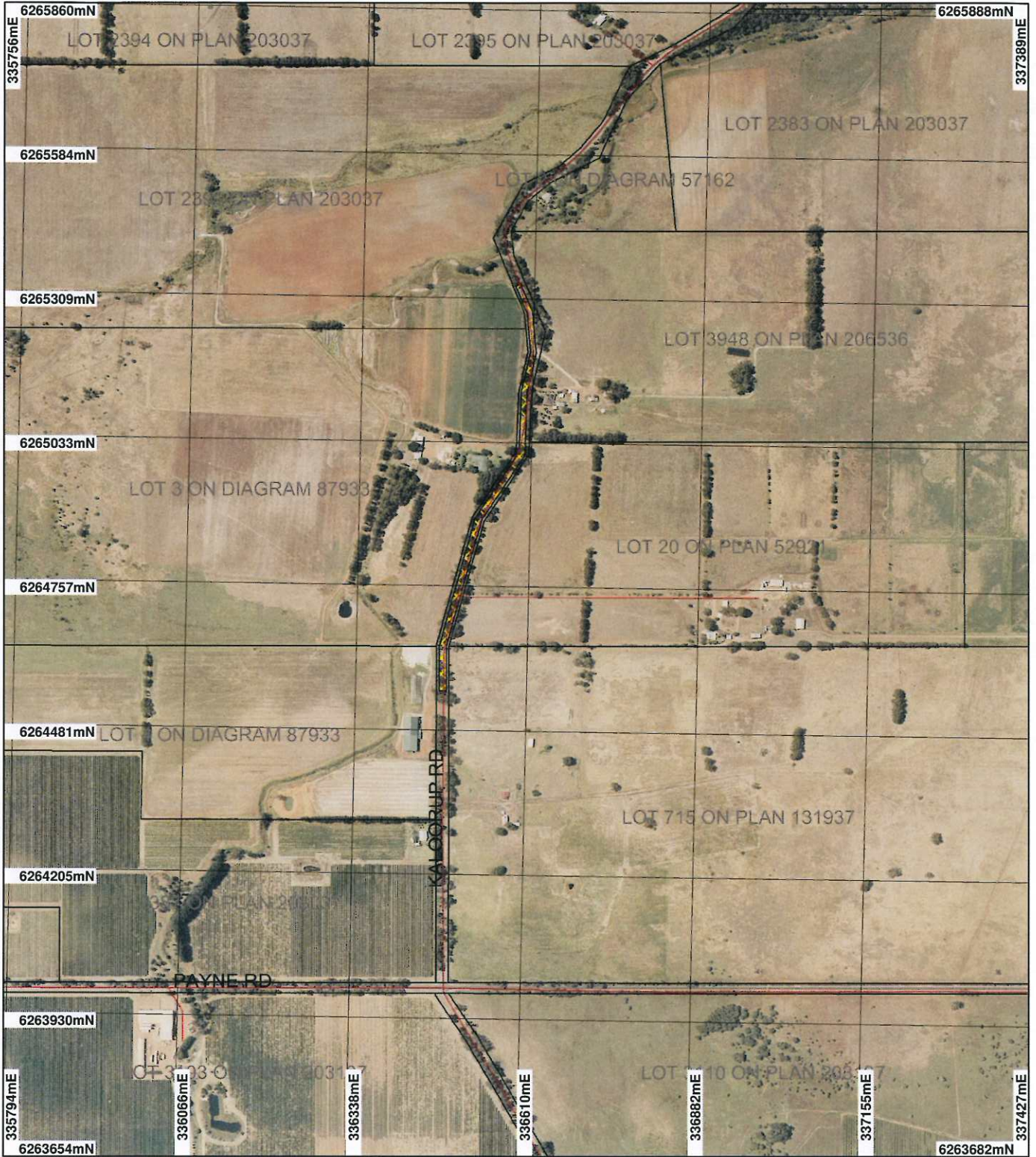
A handwritten signature in black ink, appearing to read "K Faulkner", written over a horizontal line.

Kelly Faulkner  
MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

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

22 April 2010

# CPS3638/1 - Plan

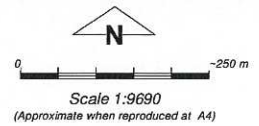


## LEGEND

- Clearing Instruments**
- Areas Applied to Clear
  - Areas Subject to Conditions
  - Areas Approved to Clear
  - Road Centrelines
- Mount Barker North 1.4m Orthomosaic - Landgate 2001**

- Cadastre for labelling**
- Swan Coastal Plain Central 20cm Orthomosaic - Landgate 2009
  - Busseton 50cm Orthomosaic - Landgate 2007
  - > Image Index
- Recently added  
 Coverage

Perth Metropolitan Area  
 North 20cm Orthomosaic - Landgate 2007  
 Busseton 50cm Orthomosaic - Landgate 2007



Geocentric Datum Australia 1994

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

*K Faulkner* Date 22/4/12  
 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.



Department of Environment and Conservation

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## 1. Application details

### 1.1. Permit application details

Permit application No.: 3638/1  
Permit type: Area Permit

### 1.2. Proponent details

Proponent's name: Shire of Busselton

### 1.3. Property details

Property: ROAD RESERVE ( JINDONG 6280)

Local Government Area:

Colloquial name:

### 1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.16		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 Association: 1136 - Medium woodland; marri with some jarrah, wandoo, river gum and casuarina Shepherd (2007)	The application is for the clearing of 0.16ha of roadside vegetation for the purpose of upgrading Kaloorup Road.	Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994)	Condition of vegetation under application was assessed through aerial photography.
Mattiske Vegetation Association: AF - Woodland of <i>Corymbia calophylla</i> - <i>Agonis flexuosa</i> and tall shrubland of <i>Myrtaceae</i> - <i>Proteaceae</i> spp. on terraces and valley floors in the humid zone. Aw - Mosaic of tall shrubland of <i>Melaleuca viminea</i> and woodland of <i>Eucalyptus rudis</i> - <i>Melaleuca raphiophylla</i> with occasional <i>Corymbia calophylla</i> on broad depr Mattiske (1980)	The vegetation under application is considered to be in a good (Keighery, 1994) condition.		

## 3. Assessment of application against clearing principles

### Comments

The proposal to clear 0.16ha of native vegetation for the purpose of upgrading existing road infrastructure may have detrimental environmental impacts. There are a number of rare and priority flora species within close vicinity to the application area, however they are unlikely to be found within the road reserve (DEC, 2010).

The vegetation under application is considered to be in a good to degraded (Keighery, 1994) condition. The vegetation contained within the western side of Kaloorup road reserve has been classified as having a high conservation value (RCC, 2010). Clearing to the eastern side of this road is advised.

No threatened ecological communities have been identified in the vicinity of the project (5km radius) and if clearing is conducted to the eastern side of the road, the proposal is unlikely to have a detrimental impact on fauna.

All of the vegetation associations in which the application area falls within are underrepresented within the Jarrah Forest bioregion. Beard vegetation association 1136 has 6.73% remaining, Mattiske vegetation association AF has 11.29% and AW 5.26% remaining. As the vegetation under application is predominately in good (Keighery, 1994) condition, it is not considered significant in an extensively cleared landscape.

The proposed clearing for road works may cause some short term water quality issues in terms of localised

surface water sedimentation and flooding during works. However, these issues should be minimised as road works will include roadside infrastructure to prevent water quality issues and flooding associated with roads (ie table drains and culverts).

The assessment recommendation is that the proposal may impact on biodiversity at a local level (Principle a) given the high conservation value of the vegetation under application and is not likely to be at variance to any of the remaining principles.

**Methodology** References:  
DEC (2010)  
Keighery (1994)  
RCC (2010)

GIS Databases:  
- CALM Managed Lands & Waters - CALM 01/06/05  
- Clearing Regulations - Environmentally Sensitive Areas - 30 May 2005  
- Groundwater Salinity, statewide - DoW 13/07/06  
- Hydrogeographic Catchments, Catchments - DoW 01/06/07  
- Hydrogeology, statewide - DOW 13/07/06  
- Hydrography, linear DOW 13/7/06  
- Matiske Vegetation Complexes (01/03/1998)  
- Pre-European vegetation - DA 01/01  
- Mean Annual Rainfall Isohytes (1975 - 2003) - DEC 02/08/05  
- SAC Biodatasets 13/04/10

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

### **Comments**

No submissions from the public have been received.

### **Methodology**

## **4. Assessor's comments**

### **Comment**

The 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 proposed clearing is may be at variance to Principle (a) and is not likely to be at variance to the remaining clearing Principles.

## **5. References**

- DEC (2010) South West Regional Advice. Department of Environment and Conservation DEC Ref A299030.
- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Matiske, 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). Road Conservation Committee Value Mapping, Shire of Busselton. Roadside Conservation Committee February 2009.
- 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.

## **6. Glossary**

Term	Meaning
CALM	Department of Conservation and Land Management (now DEC)
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)
DoW	Department of Water
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)