



## CLEARING PERMIT

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

### PERMIT DETAILS

Area Permit Number: 3834/2

File Number: 2010/005051-1

Duration of Permit: From 16 October 2010 to 16 October 2015

### PERMIT HOLDER

Shire of West Arthur

### LAND ON WHICH CLEARING IS TO BE DONE

Collie South East Road reserve, Bowelling (PIN: 11594850, 11594849, 11594851)

### AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 0.35 hectares of native vegetation and three native trees within the combined areas shaded yellow on attached Plan 3834/2a and Plan 3834/2b.

### 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.

#### 2. Dieback and 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* and *dieback*:

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

(b) At least once in each 12 month period for the term of this Permit, the Permit Holder must remove or kill any *weeds* growing within areas cleared under this Permit.

#### 3. Revegetation and rehabilitation

(a) Prior to 31 December 2012 the Permit Holder shall *revegetate* and *rehabilitate* at least 0.35 hectares of native vegetation within the area cross-hatched red on attached Plan 3834/2c by:

- (i) ripping the ground on the contour to remove soil compaction prior to undertaking works pursuant to condition 3(a)(ii); and
- (ii) at an *optimal time*, deliberately *planting* and/or *direct seeding* native vegetation within the area cross-hatched red on attached Plan 3834/2c that will result in a similar species composition, structure and density of native vegetation to pre-clearing vegetation types in that area; and
- (iii) ensuring only *local provenance* seeds and propagating material are used to *revegetate* and *rehabilitate* the area.

- (b) Within 2 years of undertaking *revegetation* and *rehabilitation* in accordance with condition 3(a) of this Permit:
- (i) engage an *environmental specialist* to 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 3(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 3(a)(ii) and (iii) of this Permit.

#### 4. Records to 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 the *revegetation* and *rehabilitation* of areas pursuant to condition 3 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*.

#### 5. 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 4 of this Permit; and
  - (ii) concerning activities done by the Permit Holder under this Permit between 1 January and 31 December of the preceding year.
- (b) Prior to 16 July 2015, the Permit Holder must provide to the CEO a written report of records required under condition 4 of this Permit where these records have not already been provided under condition 5(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;

**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;

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

**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;

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

**local provenance** means native vegetation seeds and propagating material from natural sources within 10 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;

**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;

**optimal time** means the period from April to June for undertaking *direct seeding*, and the period from May to June for undertaking *planting*;

**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 natural *regeneration*, *direct seeding* and/or *planting*, so that the species composition, structure and density is similar to pre-clearing vegetation types in that area;

**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*.



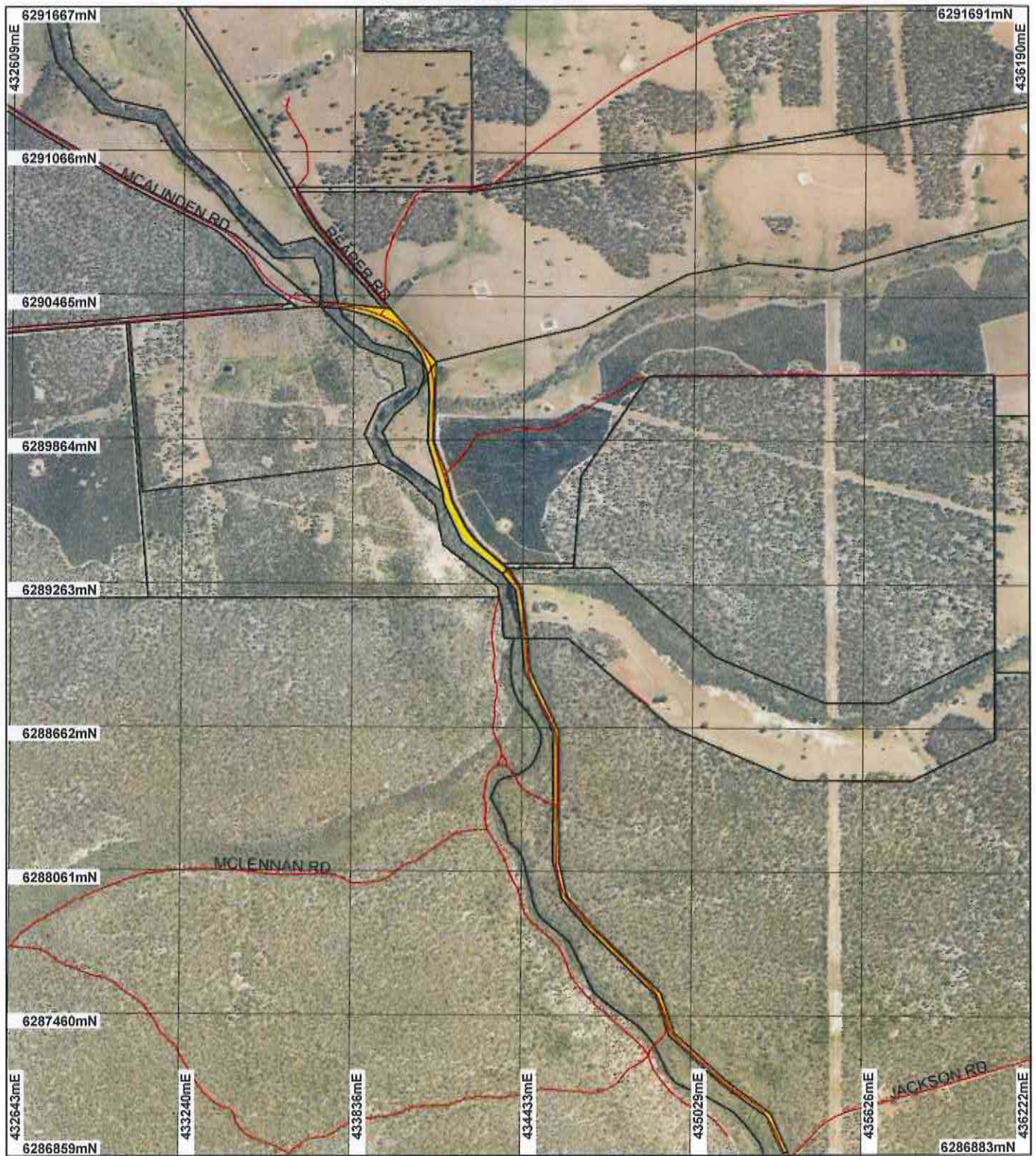
Kelly Faulkner  
MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

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

9 February 2012



# Plan 3834/2a



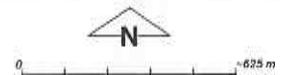
## LEGEND

### Clearing Instruments

- Areas Applied to Clear
- Areas Approved to Clear
- Areas Subject to Conditions
- Road Centrelines

### Cadastral

- Towns
- Bridgetown 50cm
- Orthomosaic - Landgate 2004



Scale 1:21192

(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 9/2/12  
K. Faulkner

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

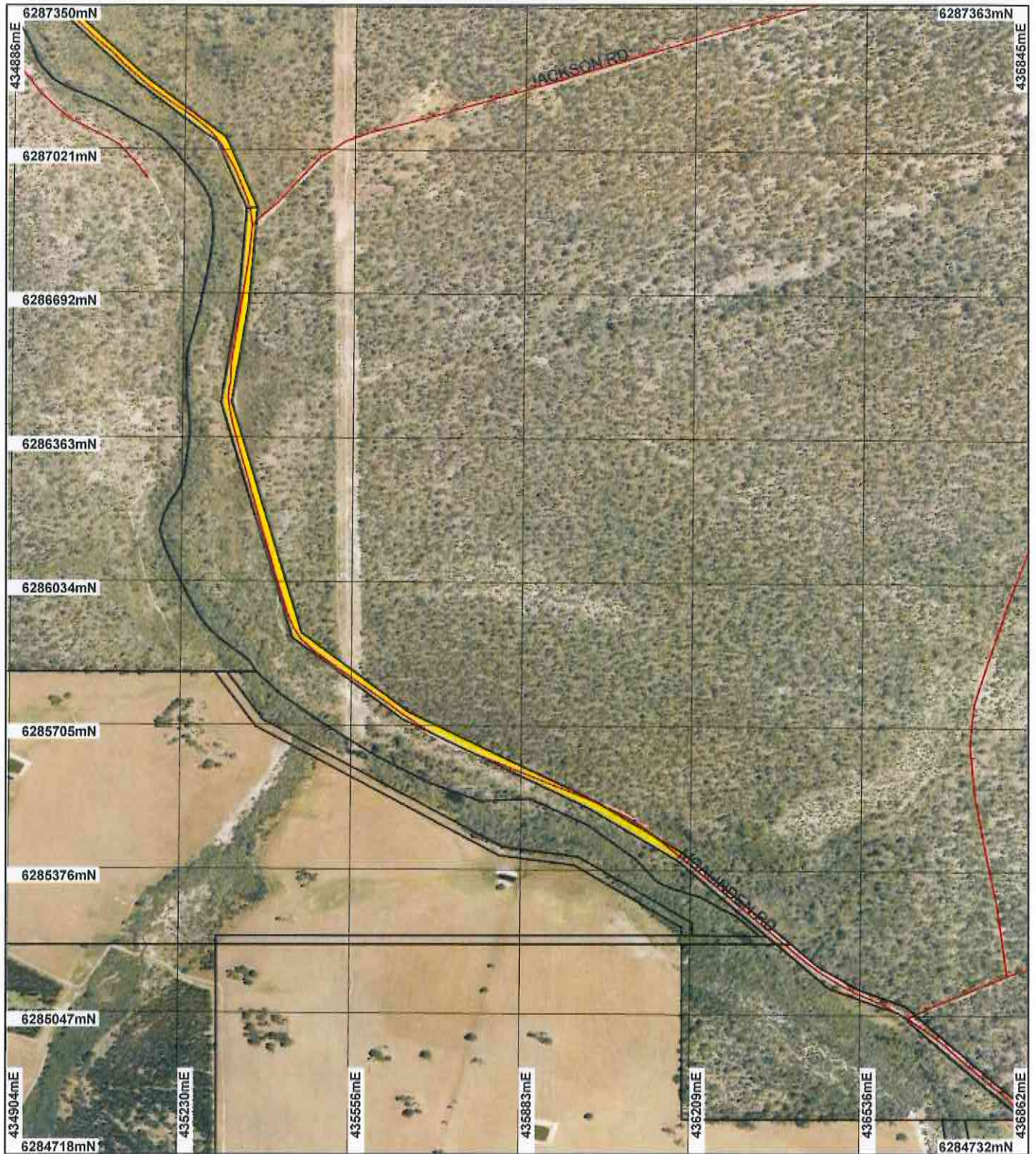


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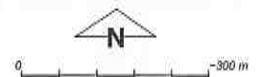


# Plan 3834/2b



## LEGEND

- |                             |                        |
|-----------------------------|------------------------|
| <b>Clearing Instruments</b> | Cadastre               |
| Areas Applied to Clear      | Towns                  |
| Areas Approved to Clear     | Bridgetown 50cm        |
| Areas Subject to Conditions | Orthomosaic - Landgate |
| Road Centrelines            | 2004                   |



Scale 1:11596

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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Date 9/2/10  
K. Faulkner

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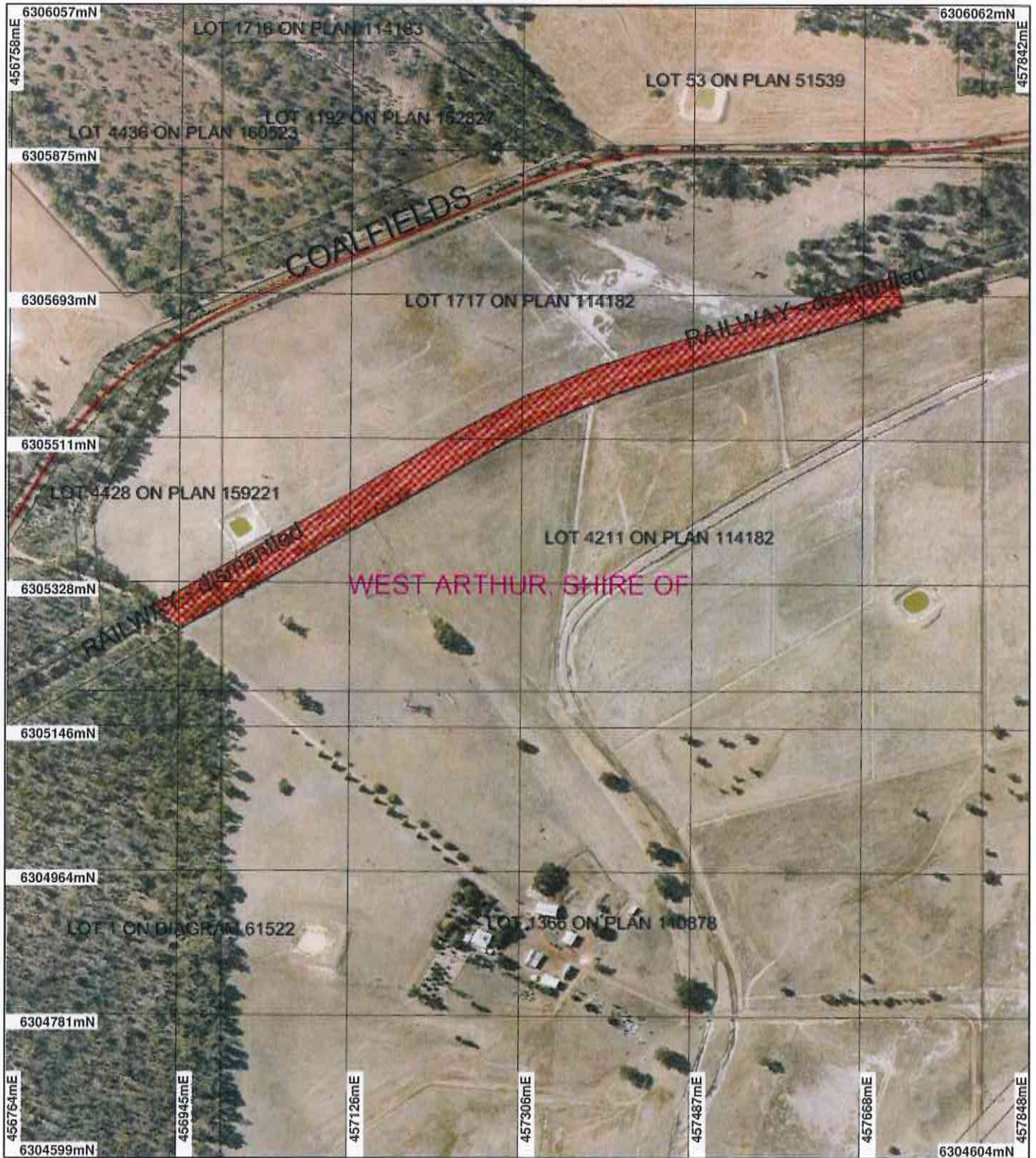


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# Plan 3834/1c



## LEGEND

- ☐ Cadastre
- ☐ Local Government Authorities
- ☐ Clearing Instruments
- ☐ Areas Subject to Conditions
- ☐ Darken 50cm Orthomosaic - Landgate 2006

### Railways

- 0
- 5
- 6
- 8
- 9

### Road Centrelines

- FW
- HY
- LRO
- LRS
- WR
- N
- (cont)

TR



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 9/2/12  
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.



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## 1. Application details

### 1.1. Permit application details

Permit application No.: 3834/2  
Permit type: Area Permit

### 1.2. Proponent details

Proponent's name: Shire of West Arthur

### 1.3. Property details

Property: ROAD RESERVE (BOWELLING 6225)  
ROAD RESERVE (BOWELLING 6225)  
ROAD RESERVE (BOWELLING 6225)  
ROAD RESERVE BOWELLING 6225)  
Local Government Area: Shire of West Arthur

### 1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.35	3	Mechanical Removal	Road construction or maintenance

### 1.5. Decision on application

Decision on Permit Application: Grant  
Decision Date: 9 February 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
Beard Vegetation Association: 1114: Shrublands tree-heath; paperbark over teatree thickets; and  3: Medium forest; jarrah-marri. (Shepherd, 2009)	The vegetation under application is within the existing Collie South East Road reserve and as such has been subjected to previous clearing activities and road construction and usage disturbances.	Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery 1994)  To	Vegetation condition was determined from aerial photography, photographs provided by the applicant (Shire of West Arthur, 2010) and site inspection advice (DEC, 2010).
Mattiske Vegetation Complex: Pn: Woodland to low open forest of Eucalyptus marginata subsp. marginata-Corymbia calophylla with some Eucalyptus cornuta, Eucalyptus tetragona and Eucalyptus angulosa on slopes and crests of granite hills and tall shrubland of Melaleuca raphiophylla-Callistachys lanceolata on lower slopes in the subhumid zone;	The northern 15% of the application area is mapped as Beard 3 Vegetation Association (Shepherd, 2009), where the condition ranges from completely degraded to good (Keighery, 1994) and the land adjacent to the road reserve is cleared for agriculture. Some parts of this section of the road reserve appear to be largely cleared of native vegetation, but retain large trees of which some are in close proximity to the road surface.	Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)	
S: Mosaic of low open woodland of Melaleuca preissiana-Banksia littoralis, closed scrub of Myrtaceae spp., closed heath of Myrtaceae spp. and sedgelands of Baumea and Leptocarpus spp. on seasonally wet or	The remainder of the vegetation under application is mapped as Beard 1114 Vegetation Association (Shepherd, 2009). In this section of the road reserve, vegetation condition ranges from degraded (Keighery, 1994) in areas largely cleared, to		



moist sand, peat and clay soils on valley floors in all climatic zones; and

very good (Keighery, 1994) where the roadside vegetation is wide and adjacent to uncleared land.

D4: Open forest to woodland of *Eucalyptus marginata* subsp. *thalassica-Corymbia calophylla* on lateritic uplands in semiarid and arid zones.

(Mattiske et al., 1998)

The conservation value of vegetation within the Collie South East Road reserve has not been assessed by the Roadside Conservation Committee (RCC, 2010).

Hedde Vegetation Complex:

Pindalup and Yarragil Complex in Low to Medium Rainfall; and

Swamp Complex.

(Hedde, et al. 1980)

### 3. Assessment of application against clearing principles

#### Comments

Clearing Permit CPS 3834/1 has been amended to increase the clearing footprint and the amount of clearing by a further 3 trees.

The assessment against the clearing principles has not changed and can be found in the Clearing Permit Decision Report CPS 3834/1.

#### Methodology

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

#### Comments

No submissions for the application have been received.

#### Methodology

### 4. References

- DEC (2010) Collie District Site Inspection Advice. Department of Environment and Conservation. DEC Ref: A327281
- Hedde, E. M., Loneragan, O. W., and Havel, J. J. (1980) Vegetation Complexes of the Darling System, Western Australia. In Department of Conservation and Environment, Atlas of Natural Resources, Darling System, 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 (2010) Roadside Conservation Value Advice. Roadside Conservation Committee. DEC Ref: A324057
- Shepherd, D.P. (2009) 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.

### 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)