



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 4411/3
Permit Holder:	Shire of Bridgetown-Greenbushes
Duration of Permit:	19 September 2011 – 19 September 2016

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 maintenance and upgrades.

2. Land on which clearing is to be done

Kendall Road reserve, Hester
Krsuls Road reserve, Hester
Wilkins Road reserve, Bridgetown
Walter Road reserve, Bridgetown
James Road reserve, North Greenbushes
Kangaroo Gully Road reserve, Kangaroo Gully
Giblett Road reserve, Bridgetown
Maranup Ford Road reserve, Greenbushes
Blackwood Park Road reserve, Catterick
Wilga Road reserve, Catterick
Connell Road reserve, Hester
Nelson Road reserve, Bridgetown
Winnejup Road reserve, Winnejup
Bill Baldock Drive Road reserve, Hester
Donnelly Mill Road reserve, Yornup
Unnamed Road reserve, Hester Brook
Dalmore Road reserve, Winnejup
Brockman Highway reserve (Bridgetown Nannup Road), Maranup

3. Area of Clearing

The Permit Holder shall not clear more than 15.71 hectares of native vegetation within the combined areas shaded yellow on attached Plan 4411/2a, Plan 4411/2b, Plan 4411/2c, Plan 4411/2d, Plan 4411/2e, Plan 4411/2f, Plan 4411/2g, Plan 4411/2h, Plan 4411/2i, Plan 4411/2j Plan 4411/2k Plan 4411/2l, Plan 4411/2m, Plan 4411/3n and Plan 4411/o.

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:

- (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. 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 naso*); and
 - (ii) inspect *habitat trees* identified under condition 9(a)(i) for the presence of Carnaby's black cockatoo (*Calyptorhynchus latirostris*), Baudins black cockatoo (*Calyptorhynchus baudinii*) and Red-tailed black cockatoo (*Calyptorhynchus banksii naso*).
- (b) Where *habitat trees* identified under condition 9(a) contain hollows suitable for use by Carnaby's black cockatoo (*Calyptorhynchus latirostris*), Baudin's black cockatoo (*Calyptorhynchus baudinii*) and Red-tailed black cockatoo (*Calyptorhynchus banksii naso*), the Permit Holder shall retain these *habitat trees* in situ, or if this is not possible the Permit Holder shall:
 - (i) remove and retain intact hollows;
 - (ii) each removed and retained intact hollow shall be attached to a tree located within no more than 10 km from any clearing authorised under this Permit;
 - (iii) each removed and retained intact hollow shall be attached to a tree within one month of removing it; and
- (c) 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).

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 tree that contains hollows, 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;
 - (ii) the species name of fauna reasonably likely to utilise, or that have been observed utilising, the trees that contain hollows;
 - (iii) the location of surrogate trees for relocation with vacant hollows, 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; and
 - (iv) 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 19 June 2016, 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;

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;

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 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;

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*.



M Warnock
A/MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

31 August 2012

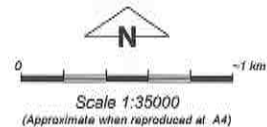
Plan 4411/3a



LEGEND

- Clearing Instruments**
- Areas Approved to Clear
 - Road Centrelines
 - Cadastre
- Bridgetown Townsite 20cm Orthomosaic - Landgate 2006**

Bridgetown 50cm Orthomosaic - Landgate 2004



Geocentric Datum Australia 1994

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M Warnock Date 31/8/12

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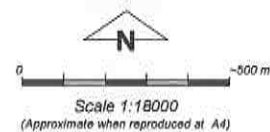
* Project Data. This data has not been quality assured. Please contact map author for details.

Plan 4411/3b



LEGEND

- | | |
|---|--|
| Clearing Instruments | Bridgetown 50cm Orthomosaic - Landgate 2004 |
| Areas Approved to Clear | |
| Road Centrelines | |
| Cadastral | |
| Bridgetown Townsite 20cm Orthomosaic - Landgate 2006 | |



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Plan 4411/3c



LEGEND

Clearing Instruments

Areas Approved to Clear

Road Centrelines

Cadastre

Bridgetown Townsite 20cm
Orthomosaic - Landgate
2006

Bridgetown 50cm
Orthomosaic - Landgate
2004



0 375 m

Scale 1:16500

(Approximate when reproduced at A4)

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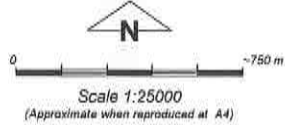
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Plan 4411/3d



- LEGEND**
- Clearing Instruments**
- Areas Approved to Clear
 - Road Centrelines
 - Cadastre
- Bridgetown Townsite 20cm Orthomosaic - Landgate 2006**

Bridgetown 50cm Orthomosaic - Landgate 2004



Geocentric Datum Australia 1994
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M Warnock Date 31/8/12
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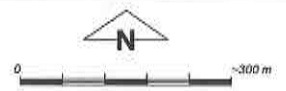
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Plan 4411/3e



LEGEND

- | | |
|--|--|
| Clearing Instruments | Bridgetown 50cm Orthomosaic - Landgate 2004 |
| Areas Approved to Clear | |
| Road Centrelines | |
| Cadastre | |
| Bridgetown Townsite 20cm Orthomosaic - Landgate 2006 | |



Scale 1:10000
(Approximate when reproduced at A4)

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Plan 4411/3f



LEGEND

- Clearing Instruments**
- Areas Approved to Clear
 - Road Centrelines
 - Cadastre
 - Bridgetown Townsite 20cm Orthomosaic - Landgate 2006

Bridgetown 50cm Orthomosaic - Landgate 2004



Scale 1:21000
(Approximate when reproduced at A4)

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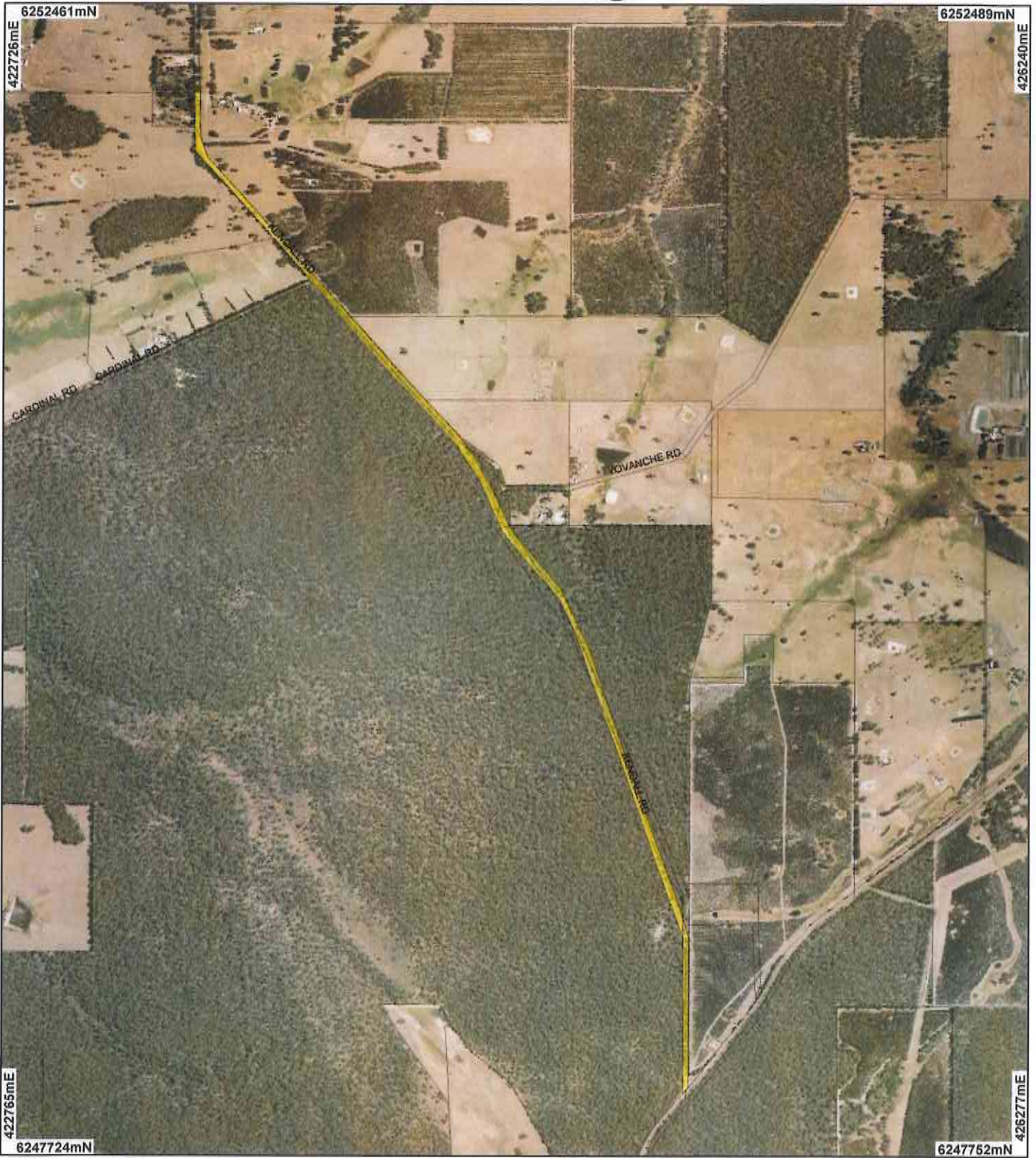


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Plan 4411/3g



LEGEND

Clearing Instruments

Area Approved to Clear

Road Centrelines

Cadastre

Bridgetown Townsite 20cm
Orthomosaic - Landgate
2006

Bridgetown 50cm
Orthomosaic - Landgate
2004



0 625 m

Scale 1:21000

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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M Warnock Date 31/8/12

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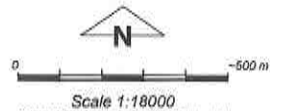


LEGEND

Clearing instruments

- Areas Approved to Clear
- Road Centrelines
- Cadastre
- Bridgetown Townsite 20cm Orthomosaic - Landgate 2006

Bridgetown 50cm Orthomosaic - Landgate 2004



Geocentric Datum Australia 1994

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LEGEND

<p>Cleaning Instruments</p> <ul style="list-style-type: none"> Areas Approved to Clear Road Centralines Cadastre <p>Bridgetown 50cm Orthomosaic - Landgate 2004</p> <p>Bridgetown Townsite 20cm Orthomosaic - Landgate 2006</p>	<p>Bridgetown 50cm Orthomosaic - Landgate 2004</p>	 <p>0 ————— 1.25 km</p> <p>Scale 1:42000 (Approximate when reproduced at A4)</p> <p>Geocentric Datum Australia 1994</p> <p><i>Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.</i></p> <p><i>M Warnock</i> Date 31/8/12</p> <p>M Warnock</p> <p>Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.</p> <div style="text-align: center;">  <p>Department of Environment and Conservation</p> <p>Our environment, our future</p> <p>WA Crown Copyright 2002</p> </div>
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Plan 4411/3j

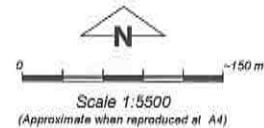


LEGEND

Clearing Instruments

- Areas Approved to Clear
- Road Centrelines
- Cadastre
- Bridgetown Townsite 20cm Orthomosaic - Landgate 2006

bridgetown 50cm
Orthomosaic - Landgate
2004



Geocentric Datum Australia 1994
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M Warnock 31/5/12
M Warnock Date

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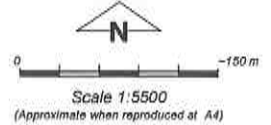
Plan 4411/3k



LEGEND

- Clearing Instruments**
- Areas Approved to Clear
 - Road Centrelines
 - Cadastre
- Bridgetown Townsite 20cm Orthomosaic - Landgate 2006**

Bridgetown 50cm Orthomosaic - Landgate 2004



Geocentric Datum Australia 1994
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M Warnock Date 31/8/12
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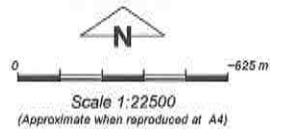
Plan 4411/3I



LEGEND

- Clearing instruments**
- Areas Applied to Clear
 - Areas Approved to Clear
 - Areas Subject to Conditions
 - Road Centrelines
 - Cadastre

Bridgetown 50cm
Orthomosaic - Landgate
2004
Manjimup 50cm Orthomosaic -
Landgate 2007



Geocentric Datum Australia 1994

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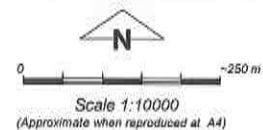
Plan 4411/3m



LEGEND

- Clearing Instruments**
- Areas Applied to Clear
 - Areas Approved to Clear
 - Areas Subject to Conditions
 - Road Centrelines

- Cadastre
- Bridgetown 50cm**
- Orthomosaic - Landgate**
- 2004**



Geocentric Datum Australia 1994
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Plan 4411/3n



LEGEND

- Road Centrelines
- Cadastre
- Local Government Authorities

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



0 1.25 km

Scale 1:50000

(Approximate when reproduced at A4)

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M Warnock Date 31/8/12

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

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Plan 4411/30



LEGEND

- Road Centrelines
- Cadastre
- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities

Bridgetown 50cm
Orthomosaic - Landgate
2004
Manjimup 50cm Orthomosaic -
Landgate 2007



0 750 m

Scale 1:25000
(Approximate when reproduced at A4)

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1. Application details

1.1. Permit application details

Permit application No.: 4411/3
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Shire of Bridgetown - Greenbushes

1.3. Property details

Property:

- BLACKWOOD PARK ROAD RESERVE (CATTERICK 6255)
- WILGA ROAD RESERVE (CATTERICK 6255)
- KENDALL ROAD RESERVE (HESTER 6255)
- KRSULS ROAD RESERVE (HESTER 6255)
- WILKINS ROAD RESERVE (BRIDGETOWN 6255)
- NELSON ROAD RESERVE (BRIDGETOWN 6255)
- WALTER ROAD RESERVE (BRIDGETOWN 6255)
- JAMES ROAD RESERVE (NORTH GREENBUSHES 6254)
- KANGAROO GULLY ROAD RESERVE (KANGAROO GULLY 6255)
- GIBLETT ROAD RESERVE (GREENBUSHES 6254)
- CONNELL ROAD RESERVE (HESTER 6255)
- BILL BALDOCK DRIVE ROAD RESERVE (HESTER 6255)
- UNNAMED ROAD RESERVE (HESTER BROOK 6255)
- WINNEJUP ROAD RESERVE (WINNEJUP 6255)
- ROAD RESERVE (YORNUP 6256)
- DALMORE ROAD (WINNEJUP 6255)
- BROCKMAN HIGHWAY (BRIDGETOWN NANNUP) (MARANUP 6255)

1.4. Application

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

1.5. Decision on application

Decision on Permit Application: GRANT
Decision Date: 31 AUGUST 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>Beard vegetation association:</p> <ul style="list-style-type: none"> - 3: Medium forest; jarrah-marri - 992: Medium forest; jarrah & wandoo (Eucalyptus wandoo) (Shepherd et al., 2001). <p>Mattiske vegetation complex:</p> <ul style="list-style-type: none"> - Dwellingup (D1): Open forest of Eucalyptus marginata subsp. marginata-Corymbia calophylla on lateritic uplands in mainly humid and subhumid zones. - Catterick (CC1): Open forest of Eucalyptus marginata subsp. marginata-Corymbia calophylla mixed with Eucalyptus patens on slopes, Eucalyptus rudis and Banksia littoralis on valley floors in the humid zone - Newgalup 1 (NWg1): Woodland of Corymbia calophylla-Eucalyptus marginata subsp. marginata on slopes, open heath on shallow soils near granites, open forest of Eucalyptus 	<p>The Shire of Bridgetown-Greenbushes proposes to clear 15.71ha within 17 road reserves throughout the Shire. The road reserves under application are Kendall, Krsuls, Wilkins, Walter, James, Kangaroo Gully, Giblet, Maranup Ford, Blackwood Park, Wilga, Connell, Nelson, Winnejup, Donnelly Mill, Bill Baldock, an un-named road reserve, Dalmore Road reserve and Brockman Hwy road reserve (Bridgetown Nannup Road).</p> <p>The permit holder has applied to increase the amount of clearing by 6.48ha to allow the clearing of approximately 2m on both sides of Dalmore Road and a section of Brockman Hwy (Bridgetown Nannup Road), Maranup.</p>	<p>Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery, 1994)</p> <p>To</p> <p>Completely Degraded: No longer intact; completely/almost completely without native species (Keighery, 1994)</p>	<p>The vegetation condition was confirmed during site inspections undertaken on 3 August 2011 (DEC, 2011) and 2 August 2012 (DEC, 2012).</p>

rudis-Eucalyptus wandoo on the valley floors in the subhumid zone

- Dalmore (DMg):

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

- Newgalup (NW1):

Woodland of Corymbia calophylla and Eucalyptus marginata subsp. marginata with some Eucalyptus wandoo on upper slopes in the subhumid zone

Mattiske vegetation complex Dalmore 1 (DM1):

Woodland of Corymbia calophylla-Eucalyptus marginata subsp. marginata with occasional Eucalyptus wandoo on uplands in the subhumid zone

- Balingup (BL): Open forest of Eucalyptus marginata subsp. marginata-Corymbia calophylla on slopes and woodland of Eucalyptus rudis on the valley floor in the humid zone .

- Balingup (BLf): Woodland of Eucalyptus rudis on valley floors and woodland of Eucalyptus patens-Corymbia calophylla on footslopes with some Eucalyptus marginata subsp. marginata on lower slopes in the humid zone

- Bridgetown (BT): Mixture of open forest of Eucalyptus marginata subsp. marginata-Corymbia calophylla with some Eucalyptus patens on slopes to low open forest of Eucalyptus rudis-Melaleuca raphiophylla on the valley floors in the humid zone

- Hester (HR): Tall open forest to open forest of Eucalyptus marginata subsp. marginata-Corymbia calophylla on lateritic uplands in perhumid and humid zones

(Mattiske and Havel, 1998).

3. Assessment of application against clearing principles

Comments

The permit holder has applied to amend Clearing Permit CPS 4411/2 to include Dalmore Road Reserve, Winneup, and Brockman Highway (Bridgetown Nannup Road) road reserve, Maranup, and increase the clearing size by 6.48 hectares to 15.71 hectares.

A review of current environmental information reveals that a number of the proposed clearing areas, including the western ends of the Dalmore Road and Brockman Highway application areas, pass through areas of state forest and conservation parks. The application area is in a relatively high (800mm) rainfall area, where soil disturbance and the movement of machinery whilst undertaking clearing activities poses a high risk of introducing or spreading dieback and weeds to the areas under application and surrounding environment. Therefore the proposed clearing may have an impact upon the environmental values of adjacent conservation areas and may be at variance to Principle (h). Weed and dieback management will minimise this risk.

The assessment against the remaining clearing principles has not changed and can be found in the Clearing Permit Decision Report CPS 4411/2.

Methodology

GIS Databases:
- Rainfall, mean annual - BOM 09/01
- DEC tenure - DEC 06/11
- SAC biodatasets - DEC 08/12

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

Comments

The permit holder has applied to amend Clearing Permit CPS 4411/2 to include Dalmore Road Reserve, Winnejup, and Brockman Highway (Bridgetown Nannup Road) road reserve, Maranup, and increase the clearing size by 3.68 hectares to 15.71 hectares.

The Shire of Bridgetown - Greenbushes (2012) advised the proposed widening of the Brockman Highway application area is part of a state funded Black Spot program.

There are registered Aboriginal Sites of Significance mapped within several of the application areas. It is the permit holder's responsibility to comply with the Aboriginal Heritage Act 1972 and ensure that no Aboriginal Sites of Significance are damaged through the clearing process. The permit holder is advised to contact the Department of Indigenous Affairs regarding their responsibilities.

No submissions from the public have been received.

Methodology

References:

Shire of Bridgetown - Greenbushes, 2012

GIS Databases:

- Aboriginal Sites of Significance - DIA 06/12

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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)