



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 4759/1
Permit Holder:	Minister for Education
Duration of Permit:	6 February 2012 – 6 February 2014

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 water main installation.

2. Land on which clearing is to be done

South Western Highway road reserve (WOKALUP 6221)
Mornington Road reserve (WOKALUP 6221)
Railway Reserve (WOKALUP 6221)

3. Area of Clearing

The Permit Holder must not clear more than 0.7 hectares of native vegetation within the area cross hatched yellow on attached Plan 4759/1.

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 *Main Roads Act 1930* 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. 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*:

- (a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- (b) ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- (c) 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 areas shall be inspected by a *fauna specialist* who shall identify *habitat tree(s)* suitable to be utilised as habitat by fauna listed in the *Wildlife Conservation (Specially Protected Fauna) Notice*.
- (b) The Permit Holder shall not clear *habitat tree(s)* identified under condition 9(a) unless approved by the CEO.

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 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 or decimal degrees;
 - (ii) the date that the area was cleared; and
 - (iii) 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 or decimal degrees;
 - (ii) the species name of fauna reasonably likely to utilise, or that have been observed utilising, the *habitat tree(s)*; and
 - (iii) a copy of the fauna specialist's report.

11. Reporting

- (a) The Permit Holder must provide to the CEO on or before 31 July 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 6 November 2013 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:

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, measured at 1.5m above the ground, of 50cm or greater, 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;

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*;

Wildlife Conservation (Specially Protected Fauna) Notice means those fauna taxa gazetted as rare fauna pursuant to section 14(4)(a) of the *Wildlife Conservation Act 1950* (as amended).

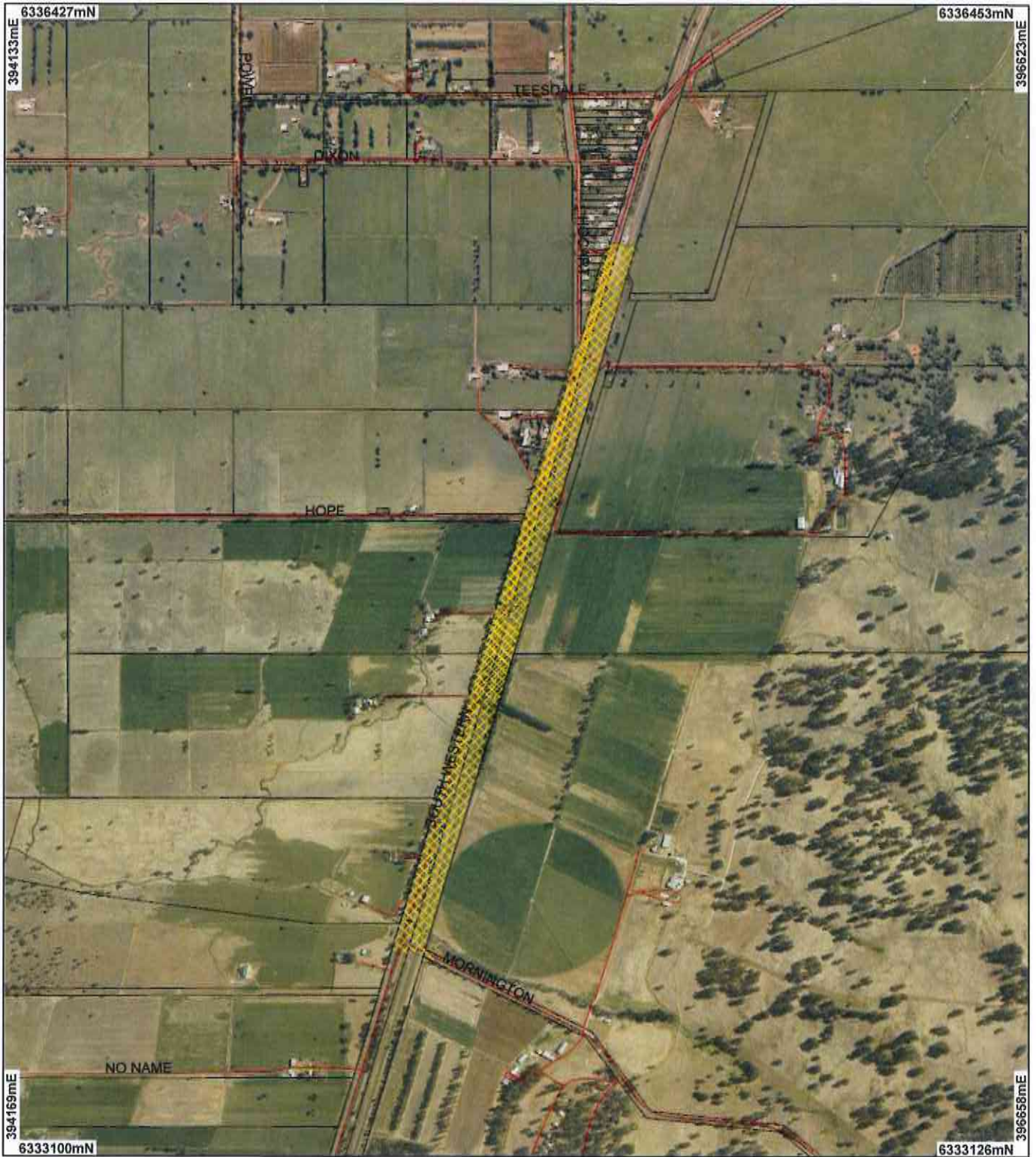


M Warnock
A/MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

12 January 2012

Plan 4759/1



LEGEND

- | | |
|--|--|
| <ul style="list-style-type: none"> ✓ Road Centrelines □ Cadastre Bunbury 50cm Orthomosaic - Landgate 2008 | <p>Clearing Instruments</p> <ul style="list-style-type: none"> ■ Areas Approved to Clear |
|--|--|



Scale 1:14692
(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.

M. Warnock Date 12/1/12

M Warnock
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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* Project Data is denoted by asterisk. This data has not been quality assured. Please contact map author for details.



1. Application details

1.1. Permit application details

Permit application No.: 4759/1
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Minister for Education

1.3. Property details

Property: ROAD RESERVE (WOKALUP 6221)
RAILWAY RESERVE (WOKALUP 6221)
Local Government Area: Shire of Harvey
Colloquial name: South West Highway - Station Street to Mornington Road

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.7		Mechanical Removal	Water/gas/cable/pipeline/power installation

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 12 January 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
90% of the vegetation under application is mapped as:	The application is for the proposed clearing of 0.7 ha within the South West Highway Road Reserve for the purpose of water main installation.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The vegetation condition and description was determined from aerial photography and photographs supplied by a Department of Conservation site visit (DEC, 2012).
Beard vegetation association 968: Medium woodland; jarrah, marri & wandoo and the remaining 10% is mapped as Beard vegetation association 1182: Medium woodland; Eucalyptus rudis & Melaleuca raphiophylla (Shepherd, 2009).	The vegetation proposed to be cleared consists of an overstorey of <i>Corymbia calophylla</i> with some <i>E. rudis</i> ssp. <i>rudis</i> . Understorey species are sparse and include <i>Melaleuca raphiophylla</i> , <i>Acacia saligna</i> , <i>Xanthorrhoea preissii</i> , <i>Viminaria juncea</i> , <i>Grevillea bipinnatifida</i> and <i>Banksia lindleyana</i> . The groundcover mainly consists of dense <i>Watsonia</i> sp. infestations and grassy weed species but the native species present include <i>Agrostocrinum hirsutum</i> and <i>Macrozamia reidleyi</i> .	To Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)	
The same 90% of the vegetation under application is also mapped as:			
Heddle's Guildford Complex and the remaining 10% is mapped as Heddle's Dardanup Complex (Heddle et al, 1980).	One plant of the highly invasive wetland weed <i>Juncus acutus</i> was located adjacent to a 'water pipe' survey peg on the east side of the South-West Highway.		

3. Assessment of application against clearing principles

Comments

The application to clear up to 0.7 hectares of native vegetation for the purpose of installing a new water main to service the Harvey Agricultural College is unlikely to have any significant environmental impacts. The vegetation is considered to be in a degraded to completely degraded (Keighery, 1994) condition and has been classified as open roadside vegetation dominated by Marri (*Corymbia calophylla*) and Flooded Gum (*Eucalyptus rudis* ssp. *rudis*), with a ground cover predominately consisting of introduced *Watsonia* sp. and grassy weeds (DEC, 2012).

The area under application is mapped as a Palusplain multiple use wetland and riparian vegetation was observed during the DEC site inspection (DEC, 2012) however the impacts of clearing on this vegetation are likely to be minimal. Although impacts are likely to be minimal, vegetation proposed to be cleared is growing within a wetland and therefore is at variance to Principle (f).

The vegetation to be cleared is well represented in the local area.

There are numerous threatened and priority fauna species recorded within a 10km radius, including two threatened species of black cockatoos; *Calyptorhynchus banksii subsp. naso* (Forest Red-tailed black-cockatoo) and *Calyptorhynchus baudinii* (Baudin's black cockatoo). These species are listed as rare or likely to become extinct under the *Wildlife Conservation Act 1950* and Vulnerable under the *Environment Protection and Biodiversity Conservation Act 1999*. At least two potential habitat trees were observed during a DEC site inspection (DEC, 2012) therefore the propose clearing may be at variance to Principle (b). A requirement to retain these habitat trees will mitigate potential impacts to native fauna.

The assessment of the application identified that the clearing may be at variance to Principle (b), is at variance to Principle (f) and is not likely to be at variance to any of the remaining clearing principles.

Methodology References:
DEC (2012)
Keighery (1994)
Heddle et al (1980)

GIS databases:
-Groundwater Salinity, statewide- Hydrogeographic Catchments
-Geomorphic wetlands- Swan Coastal Plain
- Heddle Vegetation Complexes
- Pre-European vegetation
- SAC Biodatasets (Accessed 28 December 2011)

Planning instruments, Native Title, Previous EPA decision or other matters.

Comments

The Water Corporation, Shire of Harvey and the Main Roads WA support the project. The Water Corporation has advised that the plans for the water main are still in the design stage and they will acquire the water main once it has been installed. The applicant has advised the Minister for Education will be responsible for the permit and any associated conditions and maintenance of the pipeline for the life of the permit.

No submissions from the public have been received.

South West Highway road reserve and Mornington Road reserves are zoned as Important Regional Roads and the Railway Reserve is zoned as Railway under the Local Town Planning Scheme.

Methodology GIS Databases:
- Town Planning Scheme Zones

4. References

- DEC (2012) Site Inspection Report for Clearing Permit Application CPS 4759/1- South West Highway road reserve, Mornington Road Reserve and Railway Reserve, Wokalup. Site inspection undertaken 5/1/2012. Department of Environment and Conservation, Western Australia (DEC REF A464517).
- Heddle, 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.
- 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)