



GOVERNMENT OF
WESTERN AUSTRALIA

CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Number: 3212/1
File Number: DEC12009
Duration of Permit: From 6 September 2009 to 6 September 2011

PERMIT HOLDER

City of Armadale

LAND ON WHICH CLEARING IS TO BE DONE

ROAD RESERVE (CHAMPION DRIVE, SEVILLE GROVE 6112)

AUTHORISED ACTIVITY

Clearing of up to 0.216 hectares of native vegetation within the area hatched yellow on attached Plan 3212/1.

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.

2. 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 not move soils in wet 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.

3. Records must be kept

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

In relation to the clearing of native vegetation authorised under this Permit:

- (a) the species composition, structure and density of the cleared area;
- (b) 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;
- (c) the date that the area was cleared; and
- (d) the size of the area cleared (in hectares).

4. 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 3 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 6 June 2011, the permit holder must provide to the CEO a written report of records required under condition 3 of this Permit where these records have not already been provided under condition 4 (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;

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

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.



Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

6 August 2009

Plan 3212/1



LEGEND


- Clearing Instruments
-  Areas Approved to Clear
 -  Road Centrelines
 - Perth Metropolitan Area
 - Central 20cm Orthomosaic - Landgate 2007



0  75 m

Scale 1:3000
(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.

 Date 6/8/09
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.: 3212/1
 Permit type: Area Permit

1.2. Proponent details

Proponent's name: City of Armadale

1.3. Property details

Property: ROAD RESERVE (SEVILLE GROVE 6112)
 Local Government Area:
 Colloquial name: Champion Drive Road Reserve

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.216		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
<p>HeddeVegetation Complex: Forrestfield Complex : Vegetation ranges from open forest of E. calophylla - E. wandoo - E. marginata to open forests of E. marginata - E. calophylla - C. fraseriana - Banksia species. Fringing woodland of E. rudis in the gullies that dissect this landscape. (Hedde et al 1980).</p> <p>Beard Vegetation Association: 968: Medium woodland; jarrah, marri & wandoo. (Shepherd 2007; SAC Bio datasets 30/07/2009).</p>	<p>The proposal is to clear 0.216 hectares of native vegetation for the upgrade and widening of Champion Road; between Williams Road in the north to Seville Drive in the south. All proposed clearing of native vegetation is to be confined within the road reserve on the southern side of Champion Drive.</p> <p>The vegetation under application comprises Eucalyptus species (both native and planted eastern state species), Jacaranda trees (planted) Banksia menziesii, Xylomelum occidentale, Callistermon spp, Leptospermum laevigatum (Victorian Tea Tree) and Acacia species over an understorey of Hypocalymma robustum, Conospermum spp, Hibbertia cuneiformis, Stirlingia latifolia and introduced grasses and other weed species.</p> <p>The vegetation on site ranged from completely degraded to good (Keighery, 1994) condition (DEC, 2009), with an overall average of degraded (Keighery, 1994) condition.</p>	<p>Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)</p>	<p>The vegetation clearing description is based on a site inspection by DEC officers on 31 July 2009.</p>

3. Assessment of application against clearing principles

Comments

The proposal is to clear up to 0.216 hectares of native vegetation for the purpose of road construction or maintenance on the southern side of Champion Drive road reserve. Given the degraded (Keighery, 1994) condition of the vegetation under application and limited understorey species present, the applied area is not considered likely to comprise a high level of biological diversity or to provide significant habitat for ground dwelling fauna species.

The area under application is located immediately adjacent to Bush Forever site 62 (Bob Blackburn Reserve Bushland) and within a buffer for an Threatened Ecological Community (TEC) identified as FCT20b - *Banksia attenuata* and/or *Eucalyptus marginata* woodlands of the eastern side of the Swan Coastal Plain. Given that a only 8 individual plants from 3 flora species associated with the identified TEC were observed on site (DEC, 2009), the vegetation to be cleared is not considered likely to represent a TEC or be considered significant as a remnant of native vegetation. However, the proposed clearing has the potential to indirectly impact the environmental values of the adjacent Bush Forever reserve through the spread or introduction of dieback and weed species by machinery. In order to minimise the risk of introducing weeds or dieback into the nearby conservation reserve, a condition has been imposed on the permit relating to weed and dieback prevention.

The proposed clearing for the road works may cause some short term water quality issues in terms of localised surface water sedimentation and surface water run-off during works. However these issues should be minimised as the road works will include roadside infrastructure to prevent water quality issues and flooding associated with roads (ie table drains and culverts).

The area under application is located approximately 220 metres east of a Multiple Use Wetland and approximately 440 metres south of Kuhl Park Drain, at an elevation of between 35-40 metres. Given the narrow, linear nature of the proposed area to be cleared and the distance to the nearest wetland and watercourse, it is not considered likely to impact on the quality of surface or underground water.

Methodology

References:

- DEC (2009)
- Keighery (1994)
- GIS Databases:
 - Bushforever
 - CALM Managed Lands and Waters
 - Geomorphic Wetlands (Classification) Swan Coastal Plain
 - Hydrography, linear
 - Hydrography, linear (hierarchy)
 - Register of National Estate
 - Soils, Statewide
 - SAC BIO Datasets - accessed 30/07/2009
 - Topographic Contours, Statewide

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

Comments

Champion Drive is zoned Urban under the Metropolitan Region Scheme.

No submissions from the public have been received.

Methodology

GIS Databases:

- Metropolitan Regional Scheme

4. Assessor's comments

Comment

The assessable criteria have been addressed and the proposed clearing is at variance to Principle (b) and may be at variance to Principle (h) and is not likely to be at variance to Principles (a), (c), (d), (e), (f), (g), (i) and (j).

5. References

DEC (2009) Site Inspection Report for Clearing Permit Application CPS 3144/1, Warton Road Extension. Site inspection undertaken 17/06/2009. Department of Environment and Conservation, Western Australia (TRIM Ref. DOC92328).

Heddl, 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. (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

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
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)