



GOVERNMENT OF
WESTERN AUSTRALIA

CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 2772 / 2
File Number: DEC9642
Duration of Permit: From 11 January 2009 to 11 January 2011

PERMIT HOLDER

City of Stirling

LAND ON WHICH CLEARING IS TO BE DONE

Lot 2 on Plan 24379 Okely Road, Carine
Lot 51 on Plan 33571 Monyash Road, Carine

AUTHORISED ACTIVITY

Clearing of up to 0.081 hectares of native vegetation within the areas shaded yellow on attached Plan 2772/2a and 2772/2b.

CONDITIONS

1. 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 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 not move soils in wet conditions;
- (iii) ensure that no *dieback* or *weed*-affected soil, *mulch*, *fill* or other material is brought into an area to be cleared; and
- (iv) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

Definitions

The following meanings are given to terms used in this Permit:

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 *Agricultural and Related Resources Protection Act 1976*.

dieback means the effect of *Phytophthora* species on native vegetation;

Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH
*Officer delegated under Section 20
of the Environmental Protection Act 1986*

23 April 2009

Plan 2772/2a



LEGEND

- | | |
|--------------------------|---------------------------|
| □ Cadastre for labelling | LR3 |
| — Road Centrelines | MR |
| FW | N |
| HY | TR |
| LRO
(cont) | Clearing Instruments |
| | ■ Areas Approved to Clear |



Scale 1:623
(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.

K. Faulkner Date 23/4/09

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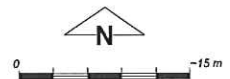
* Project Data is denoted by asterisk. This data has not been quality assured. Please contact map author for details.

Plan 2772/2b



LEGEND

- Cadastre for labelling
- Road Centrelines
- FW
- HY
- LRQ (cont)
- LR9
- MR
- N
- TR
- Clearing Instruments
- Area Approved to Clear



Scale 1:630
(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.

K. Faulkner Date 23/4/09

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.



* 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.: 2772/2
 Permit type: Area Permit

1.2. Proponent details

Proponent's name: City of Stirling

1.3. Property details

Property: LOT 2 (OKELY RD, CARINE 6020)
 LOT 51 (MONYASH RD, CARINE 6020)
 Local Government Area: City Of Stirling
 Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.081		Mechanical Removal Mechanical Removal	Building or Structure 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: 998: Medium Woodland: Tuart (SAC Bio Dataset 20/11/2008, Shepherd 2007). Hedde Vegetation Complex: Herdsman Complex: Sedgelands and fringing woodlands of <i>E. rudis</i> - <i>Melaleuca</i> species. (Hedde et al. 1980).	The proposal is to clear 0.081ha within Carine Regional Open Space for the purpose of constructing two footpaths, a vehicle access point and undertaking earthworks as a part of the City of Stirling's Carine Wetland Restoration Project. The vegetation within the area under application comprises of a Marri trees (<i>Eucalyptus Calphollya</i>), <i>Eucalyptus</i> sp. and re-vegetated areas consisting of <i>Jacksonia</i> sp., <i>Hakea</i> sp., <i>Acacia stirlingia</i> , <i>Conostylis</i> sp. and <i>Banksia attenuata</i> in a degraded condition.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	Vegetation clearing description is based on information obtained from a site visit undertaken on 21 November 2008

3. Assessment of application against clearing principles

Comments

The vegetation within the area under application comprises of Marri trees (*Eucalyptus Calphollya*), *Eucalyptus* sp. and re-vegetated areas consisting of *Jacksonia* sp., *Hakea* sp., *Acacia stirlingia*, *Conostylis* sp. and *Banksia attenuata* in a degraded condition.

Due to the relatively small area to be cleared (0.081 ha) and the degraded condition of the vegetation, it is considered unlikely for the area under application to comprise of a high level of biological diversity, or provide significant habitat for local fauna. No rare flora species or a Threatened Ecological Community (TEC) was identified in the area under application.

It is not considered likely for the area under application to be significant as a remnant of native vegetation as it consists of re-vegetated areas and a few marri trees. In addition, the proposed clearing is not considered likely to cause appreciable land degradation.

The area under application is located ~25m south of the Conservation Category Wetland (CCW) Big Carine Swamp. Given the vegetation under application comprises of upland re-vegetation in a degraded condition, it is considered not likely for the vegetation under application to be growing in association with a wetland.

A minimum wetland buffer of 50m is required for all proposed developments to protect wetland values and

functions (Water and Rivers Commission 2001). However, due to the degraded condition of the vegetation and the small size of the proposed clearing (0.081ha) it is considered unlikely for it to cause deterioration in the quality of surface or underground water.

The area under application occurs within the southern portion of Bush Forever site 203 Carine Swamps, Carine. The proposed clearing has directly impact on this conservation area through the removal of native vegetation and also has the potential to impact the area through the spread and introduction of weeds species or dieback by machinery. The proposal may impact on the environmental values of a conservation reserve and therefore, dieback and weed control conditions are required.

Methodology Reference
- DEC 2008
GIS Databases
- Bushforever
- Geomorphic Wetlands (Mgt Categories), Swan Coastal Plain
- SAC Bio Dataset 21/11/2008

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

Comments

The proposal to clear was originally for 0.0645ha of native vegetation for the purpose of constructing a single footpath and earthworks. The City of Stirling has applied to amend the proposed area to 0.081ha to provide an additional area for an access point for construction vehicles. The proposed clearing is within Carine Regional Open Space (Bushforever site 203) and is a part of the City of Stirling's Carine Wetland Restoration Project.

The area under application is zoned Parks and Recreation under the Metropolitan Regional Scheme.

Development approval was granted on the 17 March 2008 for the development of a boardwalk and connecting pathways along with all related earthworks and revegetation for Carine Regional Open Space.

The Resource Protection and Management section of the Department of Planning and Infrastructure (Department of Planning and Infrastructure 2008), stated that the area under application is within Bushforever Site 203 and that there is a general presumption against clearing of vegetation within Bushforever sites. Bushforever site 203 has a Council endorsed Regional Open Space Master Plan. This Master Plan outlines the functions of Carine Swamp however; it does not show this proposed path. There are no objections to the proposed clearing providing that an offset package is prepared and approved by Department of Environment and Conservation prior to the clearing of native vegetation, the construction of the path and the ongoing maintenance shall not result in further disturbance or clearing of native vegetation other than the area purposed to be cleared and the substrate of the path should be limestone for its dieback resistant qualities.

Methodology References
-Department of Planning and Infrastructure (2008)
GIS Databases
-Bushforever
-Metropolitan Regional Scheme Zones

4. Assessor's comments

Comment

The assessable criteria have been addressed and the clearing as proposed may be at variance to Principle (h).

5. References

DEC (2008) Site Inspection Notes and Photographs for Clearing Permit Application CPS 2772/1, Lot 2 Oakley Rd, Carine. Site inspection undertaken 21/11/2008. Department of Environment and Conservation, Western Australia (TRIM Ref. DOC68980).

Department of Planning and Infrastructure (2008) Direct Interest Submission. TRIM Ref DOC69022.

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.

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 updates for 2006 from Vegetation Extent dataset ANZWA1050000124.

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)