



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 4622/2
File Number: 2011/008986-1
Duration of Permit: From 19 December 2011 to 19 December 2016

PERMIT HOLDER

Alcoa of Australia Ltd

LAND ON WHICH CLEARING IS TO BE DONE

Lot 99 on Plan 17761, Cockburn Road, Naval Base.

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 0.95 hectares of native vegetation within the area cross hatched yellow on attached Plan 4622/2.

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 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.

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;

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 any plant -

- (a) that is a declared pest under section 22 of the *Biosecurity and Agriculture Management Act 2007*; or
- (b) published in the former Department of Environment and Conservation Regional Weed Assessments, regardless of ranking; or
- (c) not indigenous to the area concerned.

A handwritten signature in black ink, appearing to read "M Warnock".

M Warnock
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

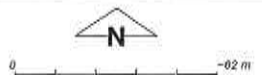
17 October 2013

Plan 4622/2



LEGEND

- | | |
|---|-----------------------------------|
| Clearing Instruments | <input type="checkbox"/> Cadastre |
| <input checked="" type="checkbox"/> Areas Approved to Clear | Perth Metropolitan Area |
| <input type="checkbox"/> Local Government | Central 15cm Orthomosaic - |
| | Landdate 2012 |



Scale 1:2260
(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 17/10/13
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.



Government of Western Australia
Department of Environment Regulation

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



Clearing Permit Decision Report

Government of Western Australia
Department of Environment Regulation

1. Application details

1.1. Permit application details

Permit application No.: 4622/2
Permit type: Area Permit

1.2. Proponent details

Proponent's name: Alcoa of Australia Ltd

1.3. Property details

Property: LOT 99 ON PLAN 17761 (Lot No. 99 COCKBURN NAVAL BASE 6165)
Local Government Area: City of Kwinana
Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.95		Mechanical Removal	Building or Structure

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 17 October 2013

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 (Shepherd, 2001)	The proposal is for clearing 0.95 hectares for the purpose of building construction and access road within Lot 99 on Plan 17761, Naval Base in the City of Kwinana.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The application is to clear 0.95 hectares of native vegetation, for purpose of constructing a new building. The application is within Bush Forever Site 346.
Hedde Complex - Central and South: Mosaic of woodland of Eucalyptus gomphocephala (Tuart) and open forest of Eucalyptus gomphocephala (Tuart) - Eucalyptus marginata (Jarrah) - Corymbia calophylla (Marri); closed heath on the Limestone outcrops (Hedde et al, 1980)		To Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery 1994)	The vegetation under application consists of Eucalyptus gomphocephala (Tuart), Banksia sp. over a variety of shrubs and ground cover species (DEC, 2011). The Tuart and Banksia species were confined to the southern and middle section of the proposed clearing. The shrub species in the application area was at times dense (DEC, 2011). A variety of weed species were observed in the application area, predominately near the track that bordered the eastern boundary of the proposed clearing and southern section of the application area (DEC, 2011). The condition (DEC, 2011) of the vegetation under application ranges from degraded to very good (Keighery, 1994). The vegetation condition was determined from a site inspection undertaken by Department of Environment and Conservation (DEC) on the 13 October 2011.

3. Assessment of application against clearing principles

Comments

This amendment has been made to extend the permit duration until December 2016.

The assessment against the clearing principles has not changed and can be found in Decision Report CPS 4622/1.

Methodology

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

Comments

The assessment against Planning and Other Matters has not changed and can be found in Decision Report CPS 4622/1.

Methodology

4. References

- DEC (2011) Site Inspection Report for Clearing Permit Application CPS 4622/1, Lot 99 Cockburn Road, Naval Base. Site inspection undertaken 13/10/2011. Department of Environment and Conservation, Western Australia (TRIM Ref. DOCA451003).
- 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. (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)