



GOVERNMENT OF
WESTERN AUSTRALIA

CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 3171 / 2
File Number: 20238
Duration of Permit: From 2 August 2009 to 2 August 2011

PERMIT HOLDER

Alcoa of Australia Ltd

LAND ON WHICH CLEARING IS TO BE DONE

LOT 205 ON DEPOSITED PLAN 34250

AUTHORISED ACTIVITY

Clearing of up to 18 hectares of native vegetation within the area cross hatched yellow on attached Plan 3171/2.

CONDITIONS

Nil.

A handwritten signature in black ink, appearing to read 'K Faulkner', written over a horizontal line.

Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

22 October 2009

Plan 3171/2



LEGEND

- Clearing Instruments**
- Areas Subject to Conditions
 - Areas Approved to Clear

Pinjarra 50cm Orthomosaic - Landgate 2006



Scale 1:8741

(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.

[Signature] Date *22/08/09*
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.: 3171/2

Permit type: Area Permit

1.2. Proponent details

Proponent's name: Alcoa of Australia Ltd

1.3. Property details

Property: LOT 205 ON PLAN 34250 (House No. 205 SOMERS WAGERUP 6215)

Local Government Area:

Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
18		Mechanical Removal	Dam 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>Bead Vegetation Type: 968: Medium woodland: Jarrah, Marri and Wandoo</p> <p>Hedde Vegetation Complex: Guildford Complex: A mixture of open forest to tall open forest of <i>E. calophylla</i> - <i>E. wandoo</i> - <i>E. marginata</i> and woodland of <i>E. wandoo</i> (with rare occurrences of <i>E. lane-polei</i>). Minor components include <i>E. rudis</i> - <i>M. raphiophylla</i>.</p>	<p>The proposal is to clear 18 hectares of native vegetation for the purpose of dam construction. An additional Residue Storage Area is required to maintain current production at the Wagerup Refinery.</p> <p>The native vegetation under application includes 4 <i>Melaleuca</i> sp., 4 <i>Kingia australis</i> and approximately 600 <i>Juncus</i> sp. individuals over pasture weeds in a completely degraded condition (Keighery 1994).</p>	<p>Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)</p>	<p>The condition of the native vegetation under application was determined from information and photographs provided with the application (Alcoa of Australia, 2009).</p>

(Hedde et al. 1980, SAC Bio Databases 23/06/09)

3. Assessment of application against clearing principles

Comments

The application is to amend Clearing Permit CPS 3171/1 to change the area to be cleared from 8 trees to 18 hectares. This is due to the presence of approximately 600 *Juncus pallidus* and *Juncus subsecundus* plants on site which were not included in the original permit. The native vegetation under application also includes 4 *Melaleuca* trees and 4 *Kingia australis*. The remaining vegetation is considered to be in completely degraded (Keighery 1994) condition, consisting mainly pasture weeds. Given this, the vegetation is considered to comprise limited habitat or biodiversity values.

The proposed clearing is not likely to impact any biodiversity, land degradation, or environmental water values within the local or regional context. In addition, the vegetation is not considered significant as a remnant due to its small size, degraded nature and separation from other native vegetation, nor is the proposed clearing considered to impact on nearby conservation areas with the nearest being Buller Nature Reserve occurring 3.2 km west of the area under application.

The area under application occurs within a Multiple Use wetland and contains wetland dependent vegetation. Therefore, the proposed clearing may be at variance to Principle F.

Given the completely degraded condition and the location of the area under application within the Wagerup Refinery Storage Area, the proposed clearing is not considered likely to be at variance to any other clearing principle.

Methodology Keighery (1994)

GIS database:

- CALM Managed Lands and Waters - CALM 01/06/05
- SAC Biodatasets - accessed 23 June 09
- Mattiske Vegetation (01/03/1998)
- Declared Rare and Priority Flora List - CALM 13/08/03
- Pre European Vegetation - DA 01/01
- Clearing Regulations, Environmentally Sensitive Areas 30 May 2005
- NLWRA, Current Extent of Native Vegetation 20 Jan 2001
- Hydrography linear - DOW 13/7/06
- Geomorphic Wetlands (Mgt Categories), Swan Coastal Plain - DEC 11/04/07

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

Comments

Within the area under application, Alcoa of Australia intends to construct an additional Residue Storage Area to maintain its current production at the Wagerup Refinery. Three of the Kingias within the area are planned to be relocated to a garden at the front entrance to the refinery (Alcoa of Australia 2009).

The area under application is zoned Special Industry under the Shire of Waroona Town Planning Scheme and is zoned Industrial under the Peel Regional Scheme.

The area under application has been classified as "Contaminated - remediation required". An instrument affecting land which comprises all, or part, of, this site will not be registered or accepted for registration, unless the CEO of the Department of Environment and Conservation consents to the registration in writing. There is a restriction on groundwater abstraction at the site because of the nature and extent of groundwater contamination (DEC 2009).

A works approval for the Residue Storage Area has been granted. TRIM ref DOC98536.

The area under application as a moderate to low risk of Acid Sulphate Soils. The proposed land use involves disturbance of soil within the area under application to construct a dam and therefore it may be considered likely for appreciable land degradation to occur.

Methodology

References

- Alcoa of Australia (2009)
- DEC (2009)

GIS databases:

- EPP, Areas
- Peel Regional Scheme
- Town Planning Scheme Zones

4. Assessor's comments

Comment

The application has been assessed against the clearing principles, planning instruments and other matters in accordance with s51O of the Environmental Protection Act 1986, and the proposed clearing may be at variance to Principle (f) and is not likely to be at variance to the remaining clearing Principles.

5. References

- Alcoa of Australia (2009) Clearing application and additional information for Lot 205 Willowdale Rd, Waroona. TRIM Ref DOC87147.
- 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)