



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Purpose Permit Number: 4610/1

File Number: 2011/008787-1

Duration of Permit: From 25 May 2012 from 25 May 2014

PERMIT HOLDER

Rocla Pty Ltd T/A Rocla Quarry Products

LAND ON WHICH CLEARING IS TO BE DONE

Lot 15 on Diagram 20440, WANGARA

PURPOSE FOR WHICH THE CLEARING MAY BE DONE

Clearing for the purpose of sand extraction

CONDITIONS

1. Area of Clearing

The Permit Holder shall not clear more than 1.27 hectares of native vegetation within the area cross hatched yellow on attached Plan 4610/1.

2. 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.

3. Period in which clearing is authorised

The Permit Holder shall not clear native vegetation unless actively mining within 1 month of the authorised clearing being undertaken

A handwritten signature in blue ink, appearing to be "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*

3 May 2012

Plan 4610/1



LEGEND

- | | | |
|--------------------------------------|--|---|
| Road Centrelines | Marine Park | Water |
| Cadastral labelling | Crown Lease | Clearing Instruments |
| Freehold | Lease / Reserve | Areas Approved to Clear |
| Crown Reserve | Lease on State Forest / Timber Reserve | Swan Coastal Plain North 20cm Orthomosaic - Landgate 2009 |
| State Forest / Timber Reserve (cont) | Public Roads | |
| | Unallocated Crown Land (cont) | |



0 100 m

Scale 1:3566
(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 3/5/12
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.: 4610/1
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Rocla Pty Ltd

1.3. Property details

Property: LOT 15 ON DIAGRAM 20440 (House No. 193 GNANGARA WANGARA 6065)
Local Government Area: City of Wanneroo
Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
1.27		Mechanical Removal	Extractive Industry

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 3 May 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
Mapped Beard vegetation association Spearwood (6) is described as medium woodland; tuart and jarrah.	The proposed clearing is for 1.27ha for the purpose of sand extraction.	Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994)	The condition of the application area was established through a Level 1 flora survey of the application undertaken in April 2011 and from a site visit carried out by DEC officers on the 14 October 2011 (Bennett Environmental Consulting 2011, DEC 2011).
Hedde vegetation complex: Karrakatta Complex Central and South is described as Swan Coastal Plain open forest and woodland. (Hedde et al 1980, Shepherd 2009).	The vegetation under application consists of woodland of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana over a low woodland of Banksia attenuata, Nuytsia floribunda and Banksia menziesii over scrub dominated by the weed Ehrharta calycina and native species including Hibbertia sp, Conostylis sp, Ptilotus manglesii, Anigozanthos humilis subsp. humilis, Xanthorrhoea sp, Conospermum polycephalum, Regalia inops, Alexgeorgea nitens, native sedges and other native species.	Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery 1994) Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	
	The application area occurs in a degraded to very good (Keighery 1994) condition with the majority occurring in a Good (Keighery 1994) condition. The northern portion of the proposed clearing contains a small area of very good (Keighery 1994) condition (Bennett Environmental Consulting 2011).		

3. Assessment of application against clearing principles

Comments

The vegetation under application consists of woodland of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana over a low woodland of Banksia attenuata, Nuytsia floribunda and Banksia menziesii over scrub dominated by the weed Ehrharta calycina and native species including Hibbertia sp, Conostylis sp, Ptilotus manglesii, Anigozanthos humilis subsp. humilis, Xanthorrhoea sp, Conospermum polycephalum, Regalia inops, Alexgeorgea nitens, native sedges and other native species (Bennett Environmental Consulting

Regalia inops, Alexgeorgea nitens, native sedges and other native species (Bennett Environmental Consulting 2011, DEC 2011). The application area occurs in a degraded to very good (Keighery 1994) condition with the majority occurring in a Good (Keighery 1994) condition. The northern portion of the proposed clearing contains a small area of very good (Keighery 1994) condition (Bennett Environmental Consulting 2011). The application area has been impacted by clearing for tracks and soil dumping and is surrounded an industrial area (DEC 2011).

The proposed clearing is not considered to impact on rare flora or watercourses/ wetlands and is not considered to cause deterioration in surface or groundwater or cause flooding.

The small portion of the application area occurs within a buffer to a Threatened Ecological Community (TEC), Floristic Community Type 20a - Banksia attenuata woodland over species rich dense shrubland. The vegetation under application does consist of Banksia woodland in a predominantly good (Keighery 1994) condition and therefore may contain this TEC. However, the application area is invaded by grassy weeds, is fragmented by a track, impacted by soil dumping and is surrounded by an industrial estate. Given this, and its relatively small size (1.27ha), it is not considered for the vegetation under application to be sustainable. Therefore, the proposed clearing is not likely to be at variance to Principle d.

The vegetation under application contains Banksia species, Eucalyptus marginata subsp. marginata and Hakea ruscifolia (Coterra Environment 2011a). These species are a known food source for the conservation significant Carnaby's (Calyptorhynchus latirostris) and Baudin's (Calyptorhynchus baudinii) black cockatoo which have been recorded in the local area (10 km radius).

However, the vegetation under application containing these flora species is 0.73ha and is considered to consist of very open and scattered Banksia species. Therefore, given the small size of the feeding source area and the isolation of the application area from other remnant vegetation, it is not considered for the application area to be significant habitat for black cockatoos. The proposed clearing is not likely to be at variance to Principle b.

The proposed clearing is of vegetation that is a part of a Spearwood sand dune which is at a much higher (4-5m) elevation than the surrounding industrial area. The removal of vegetation may cause land degradation in the form of wind erosion due to the steep slopes and higher elevation of the application area. However, this impact is considered to be temporary and short term and is not likely to be appreciable. Therefore, the proposed clearing is not at variance to Principle g.

The proposed clearing is not likely to be at variance to any of the clearing principles.

Methodology

References

- DEC (2011)
- Bennett Environmental Consulting (2011)
- Coterra Environment (2011a)
- Keighery (1994)
- GIS Databases
- SAC Bio datasets (29 September 2011)

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

Comments

The proposed clearing is for 1.27ha for the purpose of sand extraction.

Lot 15 occurs within the Landcorp Wangara Industrial Estate. The development of Lot 15 is outlined within the East Wanneroo Cell 8 agreed Structure Plan which has been approved by the City of Wanneroo (Coterra Environment 2011b).

Rocla Pty Ltd holds a Sand Extraction Agreement with the owners of Lot 15 Ngangara Rd, Wangara. This agreement requires Rocla Pty Ltd to acquire all necessary approvals prior to sand extraction commencing and the first approval being sort is the clearing permit (Coterra Environment 2011b).

Bulk earthworks and sand extraction approval has been obtained and is valid from 30 April 2012 until 30 April 2014. Condition 34 of this approval states that:

'Unless otherwise approved by the City, following completion of extractive activities:

- (a) the Operator is to carry out such ancillary works as may be necessary to facilitate future industrial development of the site; and
- (b) the Operator shall provided to the City for its approval, detailed feature and contour surveys of the site, geotechnical, compaction and stabilization certification to demonstrate compliance with the finished levels and contours referred to in condition 35, and to ensure the Site's suitability for future industrial development, the City's satisfaction.'

Therefore, as the end land use is for future industrial development a revegetation of the application area is not required.

Lot 15 is currently zoned industrial under the Perth Metropolitan Regional Scheme.

Department of Water (DOW 2011) states that the proposed clearing occurs within the Wanneroo Groundwater Area, a proclaimed Rights in Water and Irrigation Act (1914) area and currently the Gngangara confined aquifer have reached its sustainable limit. Therefore, it is unlikely that any additional water licence would be approved. The proposed activity may require water for the need of dust suppression. The DOW note that there is other practices such as using an existing bore or water carting which could be used for dust expression (DoW 2011).

Methodology	References
	-Coterra Environment (2011b)
	-Department of Water (2011)
	GIS Databases
	-Perth Metropolitan Regional Scheme zone

4. References

Bennett Environmental Consulting Pty Ltd (2011) Botanical Assessment of Remnant Vegetation at Lot 15 Gngangara Road Wangara. Prepared for Coterra Environment. DEC ref A4429856

Coterra Environment (2011a) Clearing Application For Lot 15 Gngangara Road, Wangara Report. For proposed sand extraction by Rocla Quarry Products. DEC ref AA429856

Coterra Environment (2011b) Additional information regarding planning issues for CPS 4610/1 - Lot 15 Gngangara Rd, Wangara. DEC ref A443249

DEC (2011) Site Inspection Report for Clearing Permit Application CPS 4610/1, Lot 75 Gngangara Rd Wangara. Site inspection undertaken 14/10/2011. Department of Environment and Conservation, Western Australia (DEC ref A441364).

Department of Water (2011) Advice on Water Licence for Proposed Sand Extraction. CPS 4610/1 -Lot 15 Gngangara Rd, Wangara. DEC ref A440573

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)