



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 5079/1
File Number: 2012/003802-1
Duration of Permit: From 24 August 2012 to 24 August 2017

PERMIT HOLDER

Bristle Operations Pty Ltd trading as Austral Bricks (WA) Pty Ltd

LAND ON WHICH CLEARING IS TO BE DONE

Lot M1957 on Diagram 13411, CHITTERING

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 1 hectare of native vegetation within the area hatched yellow on attached Plan 5079/1.

CONDITIONS

1. Period in which clearing is authorised

The Permit Holder shall not clear native vegetation unless actively mining within 3 months of the authorised clearing being undertaken.

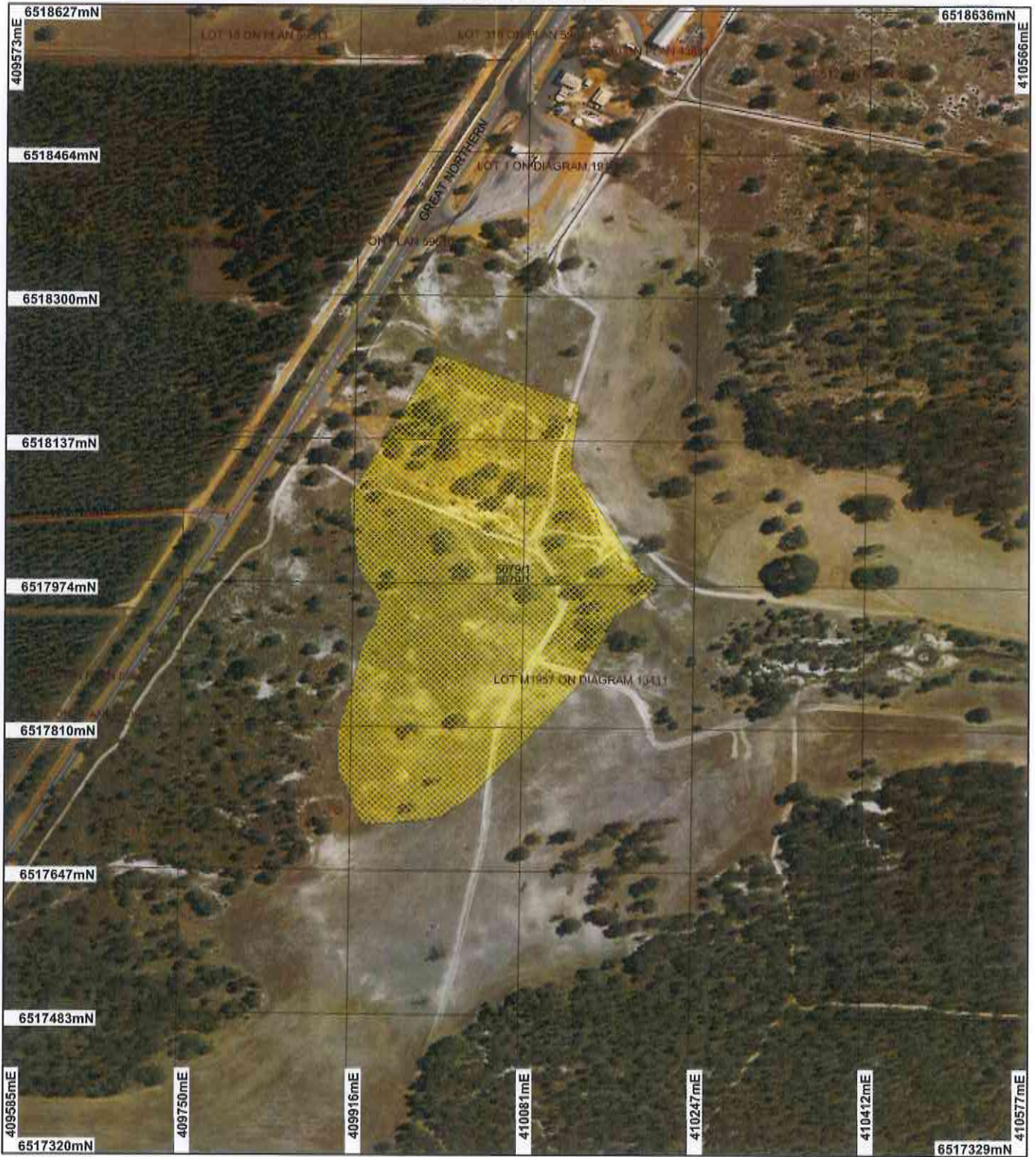
A handwritten signature in blue ink, appearing to read "K Faulkner", written over a horizontal line.

Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

2 August 2012

Plan 5079/1



LEGEND

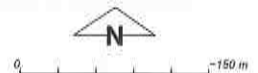
✗ Road Centrelines
 Cadastre for labelling

- Freehold
- Crown Reserve
- State Forest / Timber Reserve (cont)

- Marine Park
- Crown Lease
- Lease / Reserve
- Lease on State Forest / Timber Reserve
- Public Roads
- Unallocated Crown Land (cont)

Water
 Clearing Instruments

- Area Approved to Clear
- Perth Metropolitan North
 15cm Orthomosaic - Landgate
 2011



Scale 1:5795
 (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 2/8/12
 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.



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1. Application details

1.1. Permit application details

Permit application No.: 5079/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: Bristle Operations Pty Ltd

1.3. Property details

Property: LOT M1957 ON DIAGRAM 13411 (House No. 5030 GREAT NORTHERN CHITTERING 6084)

Local Government Area: Shire of Chittering

Colloquial name:

1.4. Application

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

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 2 August 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 3 is described as Medium forest; jarrah-marri (Shepherd et al, 2001).	The proposed clearing of 1 hectare within a 9.5ha area is for the purpose of clay extraction.	Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)	Condition of vegetation was established through aerial photography and photos provided by the applicant (Land Insights 2012, Perth Metropolitan North 15cm Orthomosaic - Landgate 2011)
Mapped Beard vegetation association 4 is described as Medium woodland; marri & wandoo (Shepherd et al, 2001).	The vegetation under application consist of scattered jarrah (Eucalyptus marginata) trees and grass trees () over pasture weeds in a completely degraded (Keighery 1994) condition.		
Mapped Beard vegetation association 1027 is described as Mosaic: Medium open woodland; jarrah & marri, with low woodland; banksia / Medium sparse woodland; jarrah & marri (Shepherd et al, 2001).			
Mattiske vegetation complex Coolakin (CK) is described as Woodland of Eucalyptus wandoo with mixtures of Eucalyptus patens, Eucalyptus marginata subsp. thalassica and Corymbia calophylla on the valley slopes in arid and perarid zones (Mattiske et al 1980).			
Mattiske vegetation complex Yalanbee (Y6) is described as Woodland of Eucalyptus wandoo-Eucalyptus accedens, less consistently open forest of Eucalyptus marginata fs24 subsp. thalassica-Corymbia calophylla on lateritic uplands and breakaway landscapes in arid and perarid zones (Mattiske et al 1980).			

3. Assessment of application against clearing principles

Comments

The proposed clearing of 1 hectare within a 9.5 hectare area is for the purpose of clay extraction and is unlikely to have any significant environmental impacts.

The vegetation under application consists of scattered jarrah (*Eucalyptus marginata*) trees and grass trees over pasture weeds in a completely degraded (Keighery 1994) condition.

There are no declared rare (DRF) flora species or threatened ecological communities (TEC) in the vicinity of the project and given the degraded condition of the vegetation it is not considered likely for the vegetation to provide habitat for DRF or TECs. Given the clearing consists of 1 hectare of scattered trees and that the vegetation to be cleared is well represented in the local area (approximately 45 per cent remaining), it is unlikely the vegetation is significant fauna habitat. In addition, the clearing is not considered to impact on conservation areas; or cause or exacerbate flooding.

Chittering Landcare Group (2012) has advised that the removal of trees should be avoided as the area is susceptible to water table rise and subsequent surface expression of salinity. Given that 1 hectare is proposed to be cleared within a 9.5 hectare area, it is not expected for the proposed clearing to cause deterioration in groundwater or surface water through salinity.

The proposed clearing may cause some short term wind erosion. However, this issue should be minimised through staged clearing. Rehabilitation of the excavation pit in accordance with the Rehabilitation Management Plan will minimise land degradation impacts.

The assessment of the application identified that the clearing is not likely to be at variance to any of the principles.

Methodology

References

- Keighery (1994)
- Chittering Landcare Group (2012)
- GIS databases:
 - Hydrography, linear
 - Mattiske Vegetation Complexes
 - Pre-European vegetation
 - SAC Biodatasets (26 July 2012)
 - DEC Managed Lands
 - Perth Metropolitan North 15cm Orthomosaic - Landgate 2011

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

Comments

The proposed clearing of 1 hectare within a 9.5 hectare area is for the purpose of clay extraction.

The applicant has fenced and revegetated a 30 m buffer to a watercourse that occurs 250m away from the application area with the Chittering Landcare Centre (Land Insights 2012).

Chittering Landcare Group (2012) has advised that the removal of trees should be avoided as the area is susceptible to water table rise and subsequent surface expression of salinity. The applicant is also involved with a revegetation program on the property and that the 10, 000 stems already planted and subsequent continuation of the program will offset the removal of the trees.

The applicant has provided an extraction management plan as required by planning approval from the Shire of Chittering. In this plan, a rehabilitation and decommissioning program has been provided which allows the re-contouring of stage 1 area to fit with surrounding landscape and the re-contour of stage 2 to form a depression which will act as a drainage basin for future industrial development. This depression will be revegetated with native species in conjunction with the local landcare group (Land Insight 2012a). This plan also allows for the revegetation of wet areas associated with a nearby creekline on the property with native wetland species (Land Insight 2012).

No submissions from the public have been received.

The area under application is identified in State Planning Policy (SPP) 2.4 Basic Raw Materials as a Priority Resource Area.

The area under application occurs within a Right in Water and Irrigation Act Groundwater Area. The Rehabilitation Management Plan states that groundwater has not been encountered in preliminary drilling and site investigations and dewatering is not required.

Planning Approval for extractive industry has been approved by the Shire of Chittering on the 1 March 2012.

The application area is zoned agricultural resources under the Local Town Planning Scheme.

Methodology

References

- Land Insights (2012)

-Chittering Landcare Group (2012)
GIS Databases
-Town Planning Scheme Zones

4. References

Chittering Landcare Group (2012) Direct Interest Response for CPS 5079/1 - Bristle Operations Pty Ltd T/A Austral bricks WA Pty Ltd. DEC ref A521017

Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.

Land Insights (2012) Supporting information for Application to clear CPS 5079/1 - Bristle Operations T/A Austral Bricks Wa Pty Ltd. DEC ref A508239

Mattiske, E.M. and Havel, J.J. (1998) Vegetation Complexes of the South-west Forest Region of Western Australia. Maps and report prepared as part of the Regional Forest Agreement, Western Australia for the Department of Conservation and Land Management and Environment Australia.

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)