



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 5281/1
File Number: 2012/006704-1
Duration of Permit: From 7 December 2012 to 7 December 2017

PERMIT HOLDER

Western Australian Land Authority Trading as Landcorp

LAND ON WHICH CLEARING IS TO BE DONE

Lot 415 on Deposited Plan 215630, Hope Valley
Lot 418 on Deposited Plan 215630, Kwinana Beach
Lot 510 on Deposited Plan 244060, Postans
Lot 10 on Diagram 69849, Postans
Anketell Road reserve, Postans, PIN 1212774
Anketell Road reserve, Postans, PIN 11216007
Anketell Road reserve, Kwinana Beach, PIN 1145233
Anketell Road reserve, Kwinana Beach, PIN 1327894

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 0.86 hectares of native vegetation within the area shaded yellow on attached Plan 5281/1.

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.

1. Fauna management

The Permit Holder shall not clear *habitat trees* found within the area shaded yellow on attached Plan 5281/1.

3. Records to be kept

The permit holder must maintain the following records in relation to fauna management pursuant to condition 2 of this Permit:

- (a) the location of each *habitat tree* recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
- (b) the species name of fauna reasonably likely to utilise, or that have been observed utilising, the *habitat tree(s)*.

5. Reporting

The Permit Holder must:

- (a) provide to the CEO on or before 30 June of each year, a written report:
 - (i) of records required under condition 3 of this Permit; and
 - (ii) concerning activities done by the Permit Holder under this Permit between 1 January to 31 December of the preceding calendar year.
- (b) Prior to 7 September 2014, the Permit Holder must provide to the CEO a written report of records required under condition 3 of this Permit where these records have not already been provided under condition 4(a) of this Permit.

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;

habitat tree(s) means trees that have a diameter, measured at 1.5m above the ground, of 50cm or greater, healthy but with dead limbs and broken crowns that are likely to contain hollows and roosts suitable for native fauna, or where these are not present then healthy but with the potential to contain hollows and roosts;

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 *Agriculture and Related Resources Protection Act 1976*.

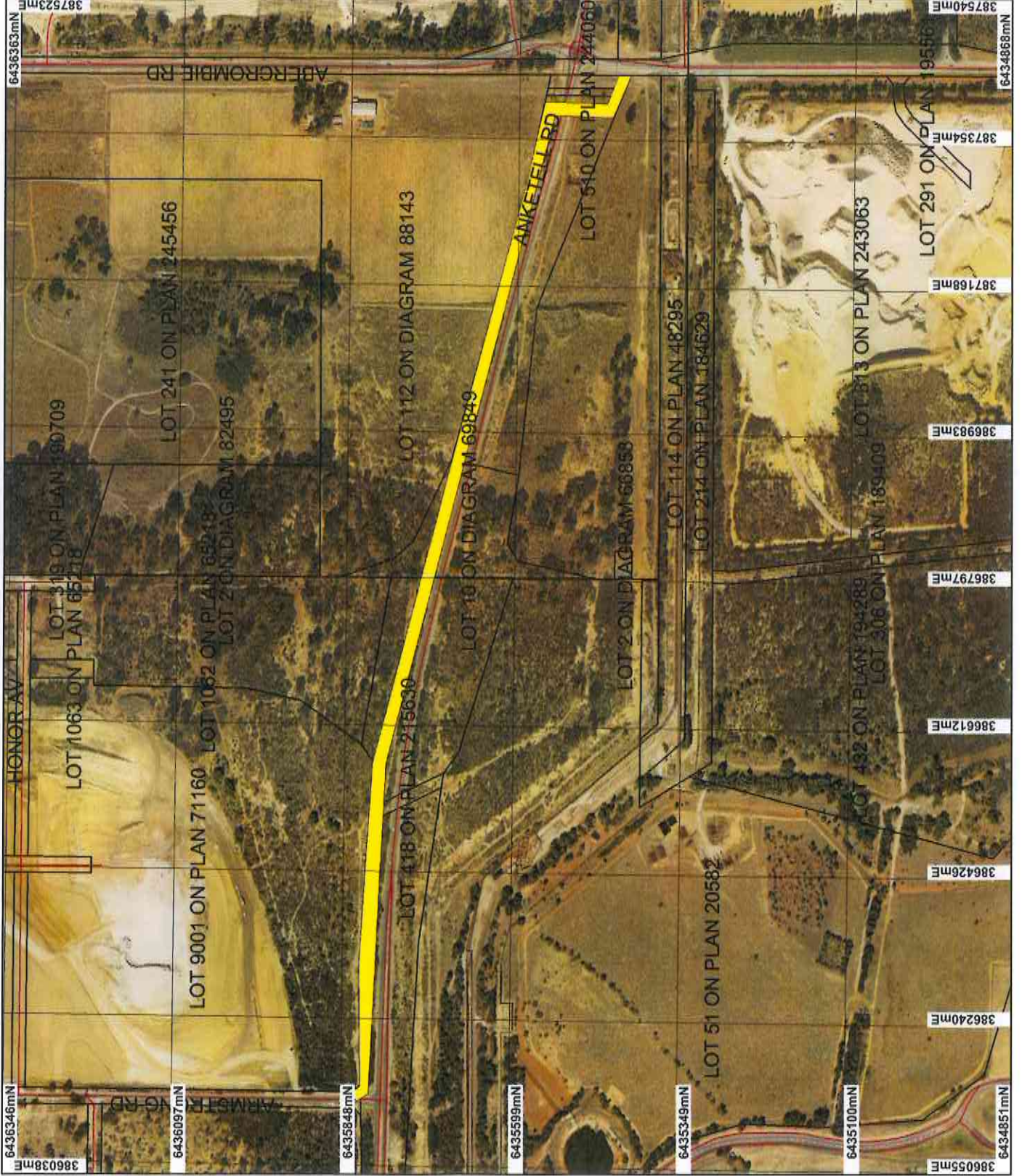


M Warnock
MANAGER, COMPLIANCE AND AUDIT SECTION
NATIVE VEGETATION CONSERVATION BRANCH

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

15 November 2012

Plan 5281/1



LEGEND

- Road Centrelines
- Cadastral
- Clearing Instruments
- Areas Approved to Clear
- Perth Metropolitan Council 15cm Orthomosaic - Landgate 2011

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



Scale 1:7181

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

Note: the data in this map have not been projected. This may result to geometric distortion or measurement inaccuracies.

Amelind Date 15/11/18

M Warrnook

Officer, with delegated authority under Section 20 of the Environmental Protection Act 1985

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.: 5281/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: Western Australian Land Authority TA Landcorp

1.3. Property details

Property: LOT 415 ON PLAN 215630 (HOPE VALLEY 6165)
ROAD RESERVE (KWINANA BEACH 6167)
ROAD RESERVE (KWINANA BEACH 6167)
LOT 418 ON PLAN 215630 (KWINANA BEACH 6167)
LOT 10 ON DIAGRAM 69849 (POSTANS 6167)
ROAD RESERVE (POSTANS 6167)
LOT 510 ON PLAN 244060 (Lot No. 510 ANKETELL POSTANS 6167)
ROAD RESERVE (POSTANS 6167)
Local Government Area: City of Kwinana
Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.86		Mechanical Removal	Water/gas/cable/pipeline/power installation

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 15 October 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
The vegetation under application is mapped as:	The application is for the proposed clearing of 0.86 ha within Anketell Road reserve for the purpose of underground power line installation.	Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994).	The vegetation condition and description were determined through a flora surveys undertaken by Strategen (2012), and Del Botanics (2012).
Beard vegetation association 998 - medium woodland; tuart (Shepherd 2007).		To	
Hedde vegetation complex:	The vegetation proposed to be cleared consists of an Acacia rostellifera heath, Banksia Attenuata low open woodland, Eucalyptus gomphocephala woodland and areas of completely degraded (Keighery 1994) farmland (Strategen, 2012).	Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994).	
Cottesloe Complex - Central and/south, described as 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).			

3. Assessment of application against clearing principles

Comments

The application is to clear up to 0.86 hectare of native vegetation for the purpose of underground power line installation and is unlikely to have any significant environmental impacts. The vegetation is considered to be in a completely degraded to good (Keighery, 1994) condition and consists of an *Acacia rostellifera* heath, *Banksia attenuata* low open woodland, *Eucalyptus gomphocephala* woodland and areas of completely degraded farmland (Strategen, 2012).

A survey of habitat trees within the application area (Strategen, 2012) identified two trees with the potential to provide nesting habitat for threatened fauna such as the Carnaby's cockatoo (*Calyptorhynchus latirostris*) which has been recorded within the local area (10 km radius); the application may therefore provide significant fauna habitat and may be at variance to principle (b). The applicant has identified methods to limit the impact to these trees (Strategen, 2012) by leaving them intact and strategically drilling around the root system for minimal impact. Fauna management strategies will further limit the potential impact to local fauna.

There are priority flora species recorded within a 10km radius on similar soil and vegetation types as the application area however, no rare or priority flora were identified during flora surveys undertaken in September (Del Botanics, 2012) and August 2012 (Strategen, 2012). Therefore, it is not considered likely for the proposed clearing to include habitat for these species nor contain a high level of biodiversity. However weed and dieback management practices will to mitigate the spread of weeds and dieback, management practices should be followed.

A portion of the application area is mapped within the buffer zone of a threatened ecological community (TEC). A flora survey undertaken by Strategen (2012) did not find any species consistent with the TEC and therefore the vegetation under application is not likely to represent this TEC.

Given the relatively small area proposed to be cleared, that there are no conservation reserves within the local area and that no wetlands or watercourses occur within the application area, it is not likely the proposed clearing will cause appreciable land degradation, impact conservation reserves, impact water quality, consist of riparian vegetation or cause or exacerbate the intensity of flooding.

The assessment of the application identified that the clearing may be at variance to principle (b) and is not likely to be at variance to any of the principles.

Methodology

References:

- Keighery (1994)
- Strategen (2012)
- Del Botanics (2012)

GIS databases:

- Hydrography, linear DOW 13/7/06
- Matiske Vegetation Complexes (01/03/1998)
- Pre-European vegetation - DA 01/01
- SAC Bio datasets (Accessed 9 November 2012)
- DEC managed estate

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

Comments

The clearing of 0.86 hectares is for the purpose of underground power installation.

The City of Kwinana (2012) advise that they have no objections to the clearing.

No submissions from the public have been received.

Methodology

References

- City of Kwinana (2012)

GIS databases:

- Town Planning Scheme Zones

4. References

City of Kwinana (2012) Response to request for regional advice for clearing permit application, CPS 5281/1. City of Kwinana, 16 October 2012. DEC ref A556530.

Del Botanics (2012) Addendum Letter, flora and vegetation survey results, submitted for clearing permit application CPS 5281/1, Anketell Road Reserve, Hope valley. September 2012. Del Botanics, Western Australia (DEC Ref. A551342).

- Government of Western Australia (2011); 2011 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). WA Department of Environment and Conservation, Perth.
- 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., Beeston, G.R., and Hopkins, A.J.M. (2001), Native Vegetation in Western Australia. Technical Report 249. Department of Agriculture Western Australia, South Perth.
- Strategen (2012) Supporting Documents submitted for clearing permit application CPS 5281/1, Anketell Road Reserve, Hope valley. September 2012. Strategen Environmental Consultants, Western Australia (DEC Ref. A548147).

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)