



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 5043/1
Permit Holder:	Western Australian Land Authority T/A LandCorp
Duration of Permit:	3 August 2012 – 3 August 2017

The Permit Holder is authorised to clear native vegetation subject to the following conditions of this Permit.

1. Purpose for which clearing may be done

Clearing for the purpose of extending Sharpe Avenue and to allow for city centre mixed use developments.

2. Land on which clearing is to be done

Lot 4603 on Deposited Plan 193080 (Karratha 6714)
Lot 1480 on Deposited Plan 213602 (Karratha 6714)

3. Area of Clearing

- (a) The Permit Holder must not clear more than 2.72 hectares of native vegetation within the area cross hatched yellow on attached Plan 5043/1.
- (b) The removal of native vegetation in the drainage reserve on Lot 1480 on Deposited Plan 213602 is to be restricted to a 10 metre wide strip on either side of the new road reserve.

4. 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.

5. Type of clearing authorised

This Permit authorises the Permit Holder to clear native vegetation for activities to the extent that the Permit Holder has the right to access land under the *Land Administration Act 1997* or any other written law.

PART II – ASSESSMENT SEQUENCE AND MANAGEMENT PROCEDURES

6. Avoid, minimise etc clearing

In determining the amount of native vegetation to be cleared authorised under this Permit, the Permit Holder must have regard to the following principles, set out in order of preference:

- (a) avoid the clearing of native vegetation;
- (b) minimise the amount of native vegetation to be cleared; and
- (c) reduce the impact of clearing on any environmental value.

7. Vegetation management

- (a) Where practicable the Permit Holder shall avoid clearing riparian vegetation.
- (b) Where a watercourse is to be impacted by clearing, the Permit Holder shall maintain the existing surface flow by use of culverts.

8. Weed control

- (a) 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*:
 - (i) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
 - (ii) ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
 - (iii) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.
- (b) At least once in each 12 month period for the term of this Permit, the Permit Holder must remove or kill any *weeds* growing within areas cleared under this Permit.

DEFINITIONS

The following meanings are given to terms used in this Permit:

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 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*.



Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

12 July 2012

Plan 5043/1



LEGEND

- Road Centrelines
- Cadastre
- Karratha Townsite 20cm Orthomosaic - Landgate 2008
- Clearing Instruments**
- Areas Approved to Clear



0 ————— 75 m

Scale 1:3011
(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 12/7/12

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.: 5043/1
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Western Australian Land Authority TA LandCorp

1.3. Property details

Property: LOT 4603 ON PLAN 193080 (Lot No. 4603 BASSET KARRATHA 6714)
LOT 1480 ON PLAN 213602 (House No. 20 WARAMBIE KARRATHA 6714)
Local Government Area: Shire of Roebourne

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
2.72		Mechanical Removal	Road construction or maintenance

1.5. Decision on application

Decision on Permit Application: 12 July 2012
Decision Date: Grant

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 mapped Beard vegetation association 157 is described as 'Short bunch grassland - savanna/grass plain (Pilbara)' (Shepherd et al, 2001).	The application area consists predominantly of Acacia shrubland (95%) with the remainder consisting of Eucalyptus riverine woodland in a degraded to very good condition (GHD, 2012). 0.203ha of the application area is in a good or very good condition (GHD, 2012).	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994) To Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery 1994)	The vegetation condition and description was determined from a report supplied by the applicant (GHD, 2012) and aerial photography (Karratha townsite-Landgate 2008).

3. Assessment of application against clearing principles

Comments

This application to clear up to 2.72 hectares is for the purpose of extending existing roads and to allow for city centre mixed use developments in Karratha. There are no mapped records of declared rare flora or threatened ecological communities in the vicinity of the project and the vegetation to be cleared is well represented in the local area.

Five priority flora species have been recorded in the local area (10km radius). The closest recorded priority species is *Acacia glaucocaesia* (Priority 3) which has been recorded approximately 300m southeast of the application area. GHD conducted a Level 1 flora survey on 21 March 2012 in accordance with the Environmental Protection Authority's (EPA) Guidance Statement No. 51 (GHD, 2012). No rare or priority flora were identified within the application area (GHD, 2012). Five weed species have been identified within the application area, predominately Buffel grass (*Cenchrus ciliaris*) (GHD, 2012). Weed management techniques will assist in mitigating potential impacts to native vegetation and prevent further weed infestation.

Five fauna species of conservation significance have been recorded in the local area (10kms). An opportunistic fauna survey was conducted in accordance with EPA Guidance Statement No. 56 (GHD, 2012). No fauna of conservation significance were identified (GHD, 2012). The priority 4 reptile *Notoscincus butleri* has been recorded in the local area (10kms) and is only known from the Dampier district and Harding River Dam (GHD, 2012). The application area contains preferred habitat for this species (areas near creeks and river margins dominated by spinifex and cracking clays (GHD, 2012) therefore the application area may contain habitat for this priority species and may be at variance to Principle (b). Avoiding and minimising the clearing of riparian vegetation will assist in mitigating impacts upon this species.

An ephemeral watercourse runs through a small section of the application area. Riparian vegetation in very

good (Keighery, 1994) condition along this creekline is proposed to be cleared therefore the proposed clearing is at variance to Principle (f). Avoiding and minimising the clearing of riparian vegetation will assist in mitigating potential impacts to this watercourse.

Short term erosion and sedimentation may occur following clearing therefore the proposed clearing may be at variance to Principle (i). The proponent has indicated that it intends to implement erosion control measures by the use of appropriate drainage design, surface water management and rehabilitation techniques (GHD, 2012). Runoff will be subject to detailed drainage management in consultation with the Department of Water (GHD, 2012).

The assessment of the application identified that the clearing is at variance to Principle (f), may be at variance to Principles (b) and (i) and is not likely to be at variance to any of the remaining clearing principles.

Methodology References:
DEC (2007-)
GHD (2012)
Keighery (1994)

GIS Databases
- SAC Bio Datasets (Accessed 19 June 2012)

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

Comments

The Shire of Roebourne (2012) advised the area under application contains some of the best examples of uncleared native vegetation in drainage reserve in the Karratha City Centre and in Karratha generally. The Council supports the application and requests the following:

- Maximum clearing of a 10m wide strip of vegetation on either side of the proposed road reserve
- Larger trees and understorey are retained where possible within these strips
- The area is reinstated with indigenous species to restore as far as possible the drainage reserve flora and fauna habitat.

The application area falls within the Karratha Hills East Aboriginal Site of Significance. The applicant will be notified of their obligations under the *Aboriginal Heritage Act 1972*.

The application area falls within the Native Title area of the Ngarlumu People. The Ngarlumu People native title claimants and their representative body have been notified by a letter dated 10 May 2012. No responses have been received.

The Department of Regional Development and Lands (DRDL) have advised they do not have any objections to the clearing permit application (DRDL, 2012).

The application area is zoned City Centre and Parks, Recreation and Drainage under the Local Town Planning Scheme.

The application area occurs within a proclaimed surface water area under the *Rights in Water and Irrigation Act 1914* (RIWI Act). A bed and banks permit may be required from the Department of Water. The applicant will be notified of their obligations under the RIWI Act.

No submissions from the public have been received.

Methodology References:
DRDL (2012)
Shire of Roebourne (2012)

GIS Databases:
- Aboriginal Sites of Significance
- Town Planning Scheme Zones
- RIWI Surface Water Areas

4. References

- DEC (2007 -) NatureMap: Mapping Western Australia's Biodiversity. Department of Environment and Conservation. URL: <http://naturemap.dec.wa.gov.au/>. Accessed 14/5/2012.
- DEC (2012) Regional Advice for Clearing Permit Application CPS 5043, Lot 4603 on Deposited Plan 193080 and Lot 1480 on Deposited Plan 213602, Karratha. Advice received 25/5/2012. Department of Environment and Conservation, Western Australia DEC REF A507895).
- DRDL (2012) Submission for Clearing Permit Application CPS 5043/1, Lot 4603 on Deposited Plan 193080 and Lot 1480 on Deposited Plan 213602, Karratha. Received 30/5/2012. Department of Regional Development and Lands, Pilbara, Western Australia (DEC REF A499336).

- GHD (2012) Report for Karratha City Centre Infrastructure Works- Stage 1 (Works Packages A & B); Clearing Permit Application Supporting documentation, April 2012, GHD, Western Australia (DEC REF A498352).
- Government of Western Australia (2011); 2011 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). WA Department of Environment and Conservation, Perth.
- 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.
- Shire of Roebourne (2012) Submission for Clearing Permit Application CPS 5043/1, Lot 4603 on Deposited Plan 193080 and Lot 1480 on Deposited Plan 213602, Karratha. Received 30/5/2012. Shire of Roebourne, Karratha, Western Australia (DEC REF A508698).

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)