



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 5691/2
Permit Holder:	The University of Western Australia
Duration of Permit:	14 September 2013 – 14 September 2016

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

PART I – CLEARING AUTHORISED

1. Purpose for which clearing may be done

Clearing for the purpose of archaeological excavations.

2. Land on which clearing is to be done

Lot 3000 on Deposited Plan 91514 (Reserve 11648), Barrow Island

3. Area of Clearing

The Permit Holder must not clear more than 0.0982 hectares of native vegetation within the area shaded yellow on attached Plan 5691/2a, Plan 5691/2b, Plan 5691/2c and Plan 5691/2d.

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.

PART II – ASSESSMENT SEQUENCE AND MANAGEMENT PROCEDURES

5. 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:

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

6. 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*:

- clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

7. Retain vegetative material and topsoil, revegetation and rehabilitation

The Permit Holder shall:

- (a) retain the vegetative material and topsoil removed by clearing authorised under this Permit and stockpile the vegetative material and topsoil;
- (b) backfill the archaeological excavation with excavated material;
- (c) within one month following completion of archaeological excavations, *revegetate* and *rehabilitate* areas no longer required for the purpose for which they were cleared under this Permit by:
 - (i) re-shaping the surface of the land so that it is consistent with the surrounding 5 metres of uncleared land; and
 - (ii) deliberately laying the vegetative material and topsoil retained under condition 7(a) over the cleared area(s).

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;

rehabilitate/ed/ion means actively managing an area containing native vegetation in order to improve the ecological function of that area;

revegetate/ed/ion means the re-establishment of a cover of *local provenance* native vegetation in an area using methods such as natural *regeneration*, *direct seeding* and/or *planting*, so that the species composition, structure and density is similar to pre-clearing vegetation types in that area;

weed/s means any plant -

- (a) that is a declared pest under section 22 of the *Biosecurity and Agriculture Management Act 2007*; or
- (b) published in a Department of Parks and Wildlife Regional Weed Rankings Summary, regardless of ranking; or
- (c) not indigenous to the area concerned.



M Warnock
SENIOR MANAGER
CLEARING REGULATION

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

22 May 2014

Plan 5691/2a



LEGEND

Clearing Instruments

- Areas Approved to Clear
- / Road Centrelines
- Local Government Authorities

Cadastral for labelling

Barrow and Montebello Islands 80cm Orthomosaic - Landgate 10/01



Scale 1:15000
(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.

M Warnock Date 22/5/14

M Warnock

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.

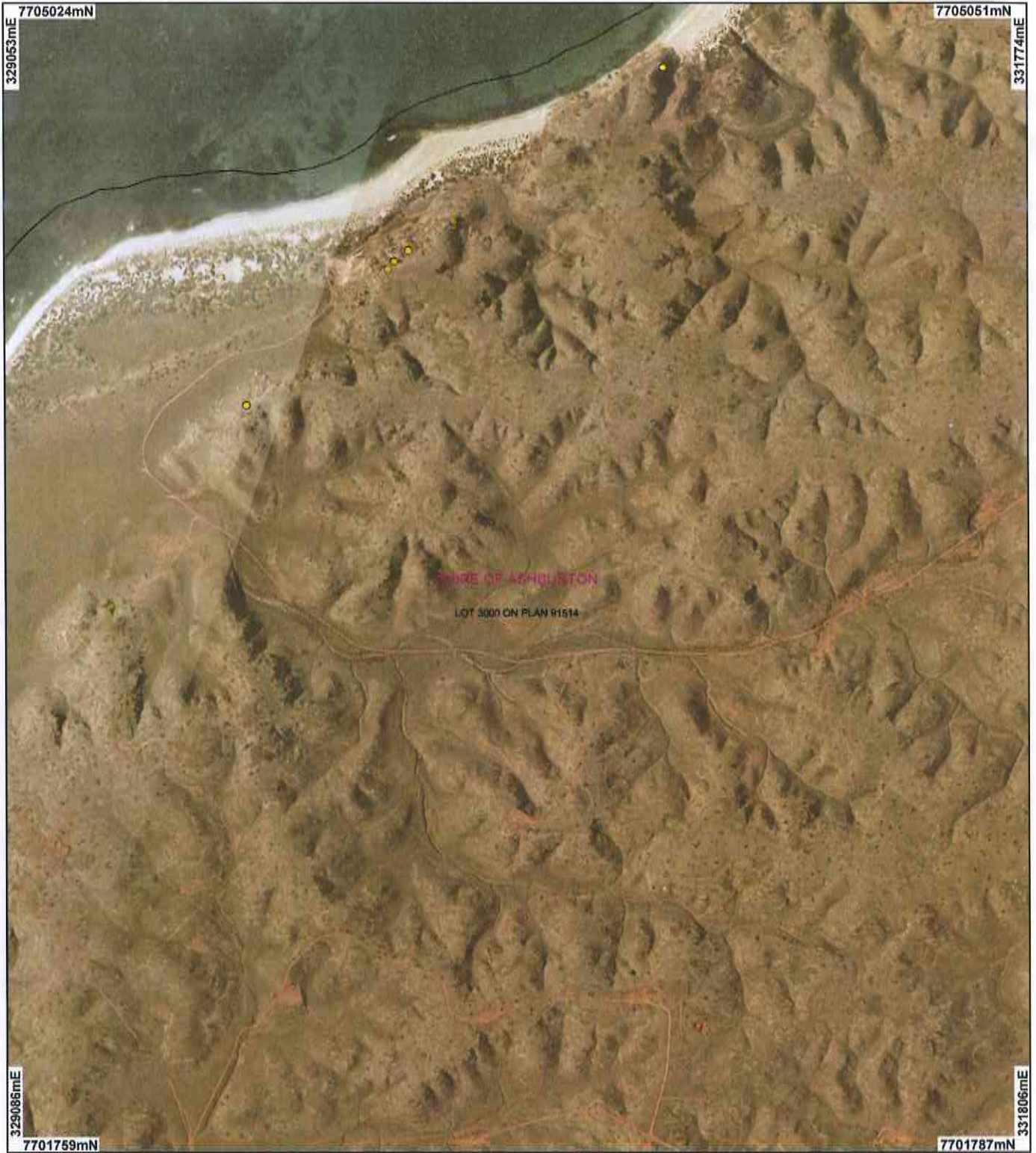


Government of Western Australia
Department of Environment Regulation

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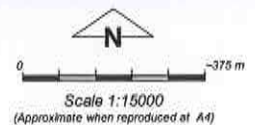
* Project Data is denoted by asterisk. This data has not been quality assured. Please contact map author for details.

Plan 5691/2b



LEGEND

- | | |
|------------------------------|---|
| Clearing Instruments | <input type="checkbox"/> Cadastre for labelling |
| Areas Approved to Clear | Barrow and Montebello Islands 80cm Orthomosaic - Landgate 10/01 |
| Road Centrelines | |
| Local Government Authorities | |



Geocentric Datum Australia 1994
 Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

M Wamock 22/5/14
 M Wamock Date

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Plan 5691/2c



LEGEND

Clearing Instruments

- Areas Approved to Clear
- Road Centrelines
- Local Government Authorities

Cadastre for labelling

- Barrow and Montebello Islands 80cm Orthomosaic - Landgate 10/01



Scale 1:19000

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Geocentric Datum Australia 1994

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M Warnock Date 22/5/14

M Warnock

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Plan 5691/2d



LEGEND

- | | |
|---|---|
| Clearing Instruments | <input type="checkbox"/> Cadastre for labelling |
| <input type="checkbox"/> Areas Approved to Clear | Barrow and Montebello Islands 80cm Orthomosaic - Landgate 10/01 |
| <input type="checkbox"/> Road Centrelines | |
| <input type="checkbox"/> Local Government Authorities | |



Scale 1:20000
(Approximate when reproduced at A4)

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M Warnock Date 22/5/16

M Warnock

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Clearing Permit Decision Report

Government of Western Australia
Department of Environment Regulation

1. Application details

1.1. Permit application details

Permit application No.: 5691/2
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: The University of Western Australia

1.3. Property details

Property: LOT 3000 ON PLAN 91514 (BARROW ISLAND 6712)
Local Government Area: Shire of Ashburton
Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.002		Mechanical Removal	Miscellaneous
0.098		Mechanical Removal	Miscellaneous

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 22 May 2014

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
Vegetation under application is mapped as Beard Vegetation Associations:	The application is to clear 0.0982 hectares of native vegetation for the purpose of archaeological excavation sites.	Pristine: No obvious signs of disturbance (Keighery 1994)	The vegetation on Barrow Island is generally floral assemblages dominated by <i>Triodia</i> grasslands and shrubby <i>Acacia</i> and <i>Melaleuca</i> species (Mattiske Consulting, 1997).
667 - Hummock grasslands, shrub-steppe: scattered shrubs over <i>Triodia wiseana</i> and <i>T.sp. indet. aff. angusta</i> over the majority of the island, and			Vegetation over the majority of the island has been disturbed historically for seismic activity and petroleum production. In areas other than these disturbed areas, vegetation is intact.
117 - Hummock grasslands, grass steppe, soft spinifex along the south coast and extending northwards (Shepherd et al, 2001).			Generally, extant vegetation in undisturbed areas appears to be in pristine condition, with introduced species (including weeds) restricted to established infrastructure, such as buildings (Mattiske Consulting, 1997).

3. Assessment of application against clearing principles

Comments This amendment has been made to increase the clearing size by 0.096 hectares to a total of 0.0982 hectares for the purpose of archaeological excavation sites and to extend the permit duration until September 2016.

The assessment against the clearing principles has not changed, the findings from the previous assessment is still relevant and can be found in Clearing Permit Decision Report CPS 5691/1.

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

Comments The assessment against Planning and Other Matters has not changed and can be found in Decision Report CPS 5691/1.

4. References

- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Mattiske Consulting Pty Ltd (1997). 1996 Assessment of Vegetation on Seismic Lines, Barrow Island. Report No. WAP007/005/97 prepared for West Australian Petroleum Pty Limited.
- 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.
- UWA (2013) Application and supporting documentation for Clearing Permit CPS 5691/1 - University of Western Australia - Barrow Island Nature Reserve 11648 - Shire of Ashburton (DER Ref: A653456 and A647848)