



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Purpose Permit Number: 3837/1
File Number: 2010/005116-1
Duration of Permit: From 5 September 2010 to 5 September 2012

PERMIT HOLDER

Department of Water

LAND ON WHICH CLEARING IS TO BE DONE

Casuarinas Road reserve (WEST CASUARINAS, 6630, PIN 11669383)
Winterbottom Road reserve (ALLANOOKA, 6525, PIN 11669382)

PURPOSE FOR WHICH THE CLEARING MAY BE DONE

Clearing for the purpose of installing groundwater monitoring bores

CONDITIONS

1. The Permit Holder must not clear more than 0.1 hectares of native vegetation within the areas shaded yellow on attached Plan 3837/1a and Plan 3837/1b.

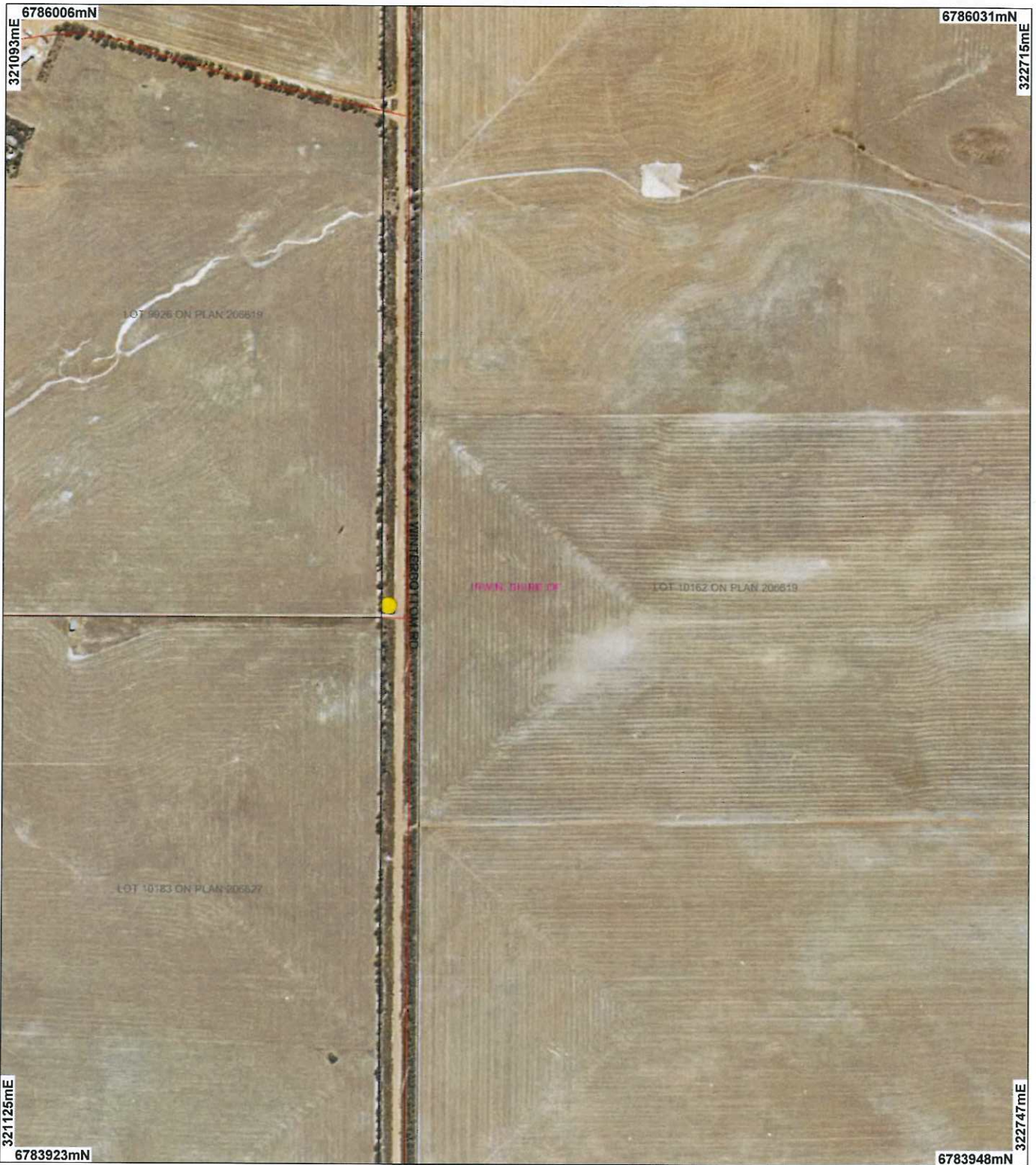
A handwritten signature in black ink, appearing to read "K Faulkner", written over a horizontal line.

Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

5 August 2010

Plan 3837/1a



LEGEND

- Clearing Instruments
- Areas Approved to Clear
- ✓ Road Centrelines

Mingenew 1.4m Orthomosaic - Landgate 2001



0 ————— 250 m

Scale 1:9318

(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.

[Signature] Date 5/8/10

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

Our environment, our future
WA Crown Copyright 2002

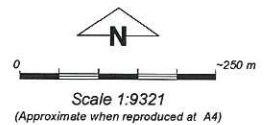
* Project Data is denoted by asterisk. This data has not been quality assured. Please contact map author for details.

Plan 3837/1 b



LEGEND

- Clearing Instruments
 Mingenev 1.4m Orthomosaic - Landgate 2001
- Areas Approved to Clear
 - Road Centrelines



Geocentric Datum Australia 1994

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

[Signature] Date 5/8/10
 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.



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



1. Application details

1.1. Permit application details

Permit application No.: 3837/1
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Department of Water

1.3. Property details

Property: ROAD RESERVE (WEST CASUARINAS 6630)
ROAD RESERVE (ALLANOOKA 6525)

Local Government Area:

Colloquial name: Winterbottom Road reserves

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.1		Mechanical Removal	Bore construction

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
Beard vegetation association 379 - Shrublands; scrub-heath on lateritic sandplain in the central Geraldton Sandplain Region	Vegetation proposed to be cleared consists of 0.1ha of native vegetation, assessed as being in a completely degraded (Keighery, 1994) condition.	Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)	Vegetation condition was determined from photographs supplied by the applicant and aerial photography.

3. Assessment of application against clearing principles

Comments

The proposal to clear 0.1 hectares of native vegetation for the purpose of installing groundwater monitoring bores within Casuarinas and Winterbottom road reserves is unlikely to have any significant environmental impacts. The vegetation is considered to be in a completely degraded (Keighery, 1994) condition.

There are no declared rare flora species or threatened ecological communities within the vicinity of the project.

Given the clearing consists of 0.1 ha of completely degraded (Keighery, 1994) native vegetation, it is unlikely the proposal will be considered as significant fauna habitat; impacting on conservation areas; or causing or exacerbating land degradation, water quality or flooding.

It is considered that it is not likely to be at variance to any of the principles.

Methodology

Reference:
Keighery (1994)
GIS Layers:
- CALM Managed Lands & Waters - CALM 01/06/05
- Clearing Regulations - Environmentally Sensitive Areas - 30 May 2005
- Groundwater Salinity, statewide - DoW 13/07/06
- Hydrogeographic Catchments, Catchments - DoW 01/06/07
- Hydrogeology, statewide - DOW 13/07/06
- Hydrography, linear DOW 13/7/06
- Mattiske Vegetation Complexes (01/03/1998)
- Pre-European vegetation - DA 01/01
- Mean Annual Rainfall Isohytes (1975 - 2003) - DEC 02/08/05
- SAC Biodatasets 280808

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

Comments

The Shire of Irwin has no objections with the proposal (DEC Ref: A321496).

Methodology

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.
- 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
CALM	Department of Conservation and Land Management (now DEC)
DAFWA	Department of Agriculture and Food
DEC	Department of Environment and Conservation
DEP	Department of Environmental Protection (now DEC)
DoE	Department of Environment (now DEC)
DoW	Department of Water
DMP	Department of Mines and Petroleum (ex DoIR)
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)