



GOVERNMENT OF
WESTERN AUSTRALIA

CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 4770/1

File Number: 2011/011541-1

Duration of Permit: From 12 March 2012 to 12 March 2014

PERMIT HOLDER

Richard Alan Stokes Hughes

LAND ON WHICH CLEARING IS TO BE DONE

Lot 2 on Plan 20585 (Bow Bridge 6333)

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 0.49 hectares of native vegetation within the area hatched yellow on attached Plan 4770/1.

CONDITIONS

Nil.

A handwritten signature in black ink, appearing to be '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*

16 February 2012

CPS 4770/1 - Plan



LEGEND

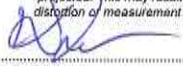
-  Road Centrelines
-  Clearing Instruments
-  Areas Approved to Clear
-  Cadastre for labelling
-  Danmark 50cm Orthomosaic - Landgate 2007



Scale 1:4450
(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 16/2/12

Kelly 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.: 4770/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: Richard Alan Stokes Hughes

1.3. Property details

Property: LOT 2 ON PLAN 20585 (House No. 213 TINDALE BOW BRIDGE 6333)
Local Government Area: Shire of Denmark
Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.49		Mechanical Removal	Aquaculture

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 16 February 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 2009)	The application proposes to clear 0.49 hectares of native vegetation within Lot 2 on Plan 20585, Bow Bridge.	Degraded; Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The condition of the vegetation was assessed using aerial imagery (Denmark 50cm Orthomosaic - Landgate 2007).
Mapped Mattiske vegetation complex Kordabup (KO) is described as Mosaic of low forest of <i>Agonis juniperina</i> , closed heath of <i>Myrtaceae-Proteaceae-Papilionaceae</i> spp. with occasional emergent <i>Melaleuca preissiana</i> and <i>Banksia littoralis</i> on broad swampy plains in hyperhumid and perhumid zones. (Mattiske, E.M. and Havel, J.J. (1998)			

3. Assessment of application against clearing principles

Comments

The application proposes to clear 0.49 hectares of native vegetation within Lot 2 on Plan 20585, Bow Bridge, for the purpose of constructing marron dams.

The area under application is located within the Warren Interim Biogeographic Regionalisation of Australia (IBRA) bioregion. This IBRA bioregion has approximately 80 per cent of its Pre European vegetation extent remaining (Shepherd 2009). Digital Imagery (Denmark 50 cm Orthomosaic - Landgate 2007) indicates the local area (10 km radius) surrounding the area under application retains approximately 80 per cent vegetation cover. Given the above it is unlikely the vegetation proposed to be cleared is considered to be significant as a remnant of native vegetation in an extensively cleared area.

31 priority flora species have been recorded within the local area (10km). The closest known record is *Andersonia auriculata* located approximately 1.5 km south east of the application area on the same vegetation and soil type. There are no known Declared Rare Flora populations in the local area that occur within the same vegetation type (DEC 2012). Given the small area under application and the degraded (Keighery 1994) condition of the vegetation it is unlikely it comprises a high level of biological diversity when compared to the local and regional area.

Numerous fauna species of conservation significance have been located in the local area (10km) (DEC 2007-). *Spicospina flammorcaerulea* (Sunset Frog) are known to occur within 1 km of the area under application, however the area does not contain suitable habitat and is not contiguous with suitable habitat (DEC 2012). Given the degraded (Keighery 1994) condition of the vegetation and the small area under the application it is unlikely the vegetation proposed to clear is necessary for the maintenance of a significant habitat for fauna indigenous to Western Australia.

Mount Roe National park is located approximately 850m west of the application area. Given the small area

proposed to be cleared and given the vegetation is located within an otherwise cleared paddock; it is unlikely the clearing as proposed will have an impact on the environmental values of the nearby national park.

There are no wetlands or watercourses located within the application area, however the application is located approximately 100m north of a creek system that feeds into the Irwin Inlet. Given the degraded (Keighery 1994) condition of the vegetation and the distance from the creek system it is unlikely the vegetation proposed to clear is growing in association with or providing a buffer for a watercourse or wetland.

The assessment determined that the proposed clearing is not likely to significantly impact any biodiversity or environmental values; nor will it cause any appreciable land degradation within the local or regional context. Therefore, the proposed clearing is not likely to be at variance to any of the clearing principles.

Methodology Reference:
-DEC (2007-)
-DEC (2012)
-Keighery (1994)
-Shepherd (2009)

GIS Databases:
- Denmark 50 cm Orthomosaic - Landgate 2007
-DEC Tenure
-Hydrology, linear
-IBRA Australia
-Pre-European vegetation
-SAC Biodatasets - accessed 20 January 2012

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

Comments

The Shire of Denmark (2012) issued Planning Consent for No. 213 (Lot 2) Tindale Road, Denmark for Four Aquaculture (Marron) Dams and Retrospective Planning Consent for Two Aquaculture (Marron) Dams

The Walpole/Tingledale LCDC (2012) has no objections against the application to clear native vegetation. The land is low lying but is not water logged and in the installation of a low level water dam would not affect neighbours or the environment by causing any degradation to the immediate or surrounding area (Walpole/Tingledale LCDC 2012).

The application is located approximately 100m north of a creek system that feeds into the Irwin Inlet. Overflows from the proposed dams may flow into the creek system and have an impact of the quality of the surface water (DEC 2012).

Methodology Reference:
-DEC (2012)
-Shire of Denmark (2012)
-Walpole/Tingledale LCDC (2012)

4. References

- DEC (2007 -) NatureMap: Mapping Western Australia's Biodiversity. Department of Environment and Conservation. URL: <http://naturemap.dec.wa.gov.au/>. Accessed 20/January/2011
- DEC (2012) Regional Advice for Clearing Permit CPS 4770/1. Department of Environment and Conservation, Warren Region, Western Australia. (DEC Ref:A471187)
- 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, 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. (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.
- Shire of Denmark (2012) Planning Consent Application ? No. 213 (Lot 2) Tindale Road, Denmark Four (4) Aquaculture (Marron) Dams and Retrospective Planning Consent for Two (2) Aquaculture (Marron) Dams. (DEC Ref: A475065)
- Walpole/Tingledale LCDC (2012) Advice for Permit CPS 4770/1. Western Australia. (DEC Ref: A465560)

5. Glossary

Term	Meaning
CALM	Department of Conservation and Land Management (now BCS)
DAFWA	Department of Agriculture and Food
DEC	Department of Environment and Conservation
GIS	Geographical Information System