

# **Clearing Permit Decision Report**

# 1. Application details

Permit application details

Permit application No.:

1966/1

Permit type:

Area Permit

Proponent details

Proponent's name:

**Barry James Dunnet** 

1.3. Property details

Property:

LOT 2 ON DIAGRAM 10390 ( CHANNYBEARUP 6260)

Local Government Area:

Shire Of Manjimup

Colloquial name:

1.4. Application Clearing Area (ha)

No. Trees

Method of Clearing

Mechanical Removal

For the purpose of:

Dam construction or maintenance

# Site Information

# Existing environment and information

2.1.1. Description of the native vegetation under application

**Vegetation Description** 

Beard vegetation Association 1: Tall forest; karri (Eucalyptus

diverscolor) (Shepherd et al. 2001)

clearing of 1 ha of isolated

vegetation that appears to

**Clearing Description** 

The proposal includes

be in good condition.

Vegetation Condition

Good: Structure significantly altered by multiple disturbance;

retains basic structure/ability to regenerate (Keighery

1994)

## Comment

Vegetation condition determined using orthomosaic mapping (Donnelly 50cm 04)

# Assessment of application against clearing principles

(a) Native vegetation should not be cleared if it comprises a high level of biological diversity.

### Comments

# Proposal is not likely to be at variance to this Principle

The proposal is to clear 1 ha of native vegetation. Aerial photography suggests that the vegetation is in good condition (Keighery 1994). The vegetation is, however, a small remnant within a paddock that has been extensively cleared.

The small size of the area to be cleared and its location within a paddock suggests that it is likely to be subject to edge effects and possible weed infestations and therefore it is unlikely that the clearing is at variance to this principle.

## Methodology

Keighery 1994

GIS Database:

- SAC Bio datasets 07/08/2007
- Pre-European Vegetation DA 01/01

# (b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.

## Comments

# Proposal is not likely to be at variance to this Principle

The clearing proposed consists of one small area totalling 1ha with no connectivity to larger tracts of native vegetation. The Donnelly State Forest is located 150m East and Pemberton National Park is located 1.8km Northwest and 6.6km southeast of the proposed clearing. There are 1 threatened and 3 priority fauna known to occur within the local area (10km radius).

Given the small size of the area under application and the large tracts of National Park and State Forest which exist nearby it is not considered to represent a significant habitat for fauna.

Methodology

GIS Database:

- SAC Bio datasets 07/08/2007
- (c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.

### Comments

## Proposal is not likely to be at variance to this Principle

There are 2 populations of Declared Rare Flora (DRF) and 3 populations of priority flora within the local area (10km radius). Of these no DRF or priority populations occur within the same Mattiske vegetation complexes (Pm 1).

Given the above it is considered unlikely to be a significant habitat for rare flora.

## Methodology

GIS Database:

- SAC Bio datasets 07/08/2007
- Mattiske Vegetation CALM 24/03/98
- (d) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community.

## Comments

## Proposal is not likely to be at variance to this Principle

There are no known records of Threatened Ecological Communities (TEC) within a 20km radius of the proposed clearing. It is unlikely that the proposed clearing will impact on any known TEC's.

## Methodology

GIS Database:

- SAC Bio datasets 07/08/2007
- (e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.

## Comments

# Proposal is not at variance to this Principle

The proposed clearing is located in the Shire of Manjimup and within the Warren Bioregion. The extent remaining within these areas is 85.8% and 80% respectively.

The vegetation is a component of the Beard Vegetation Association 1 of which 78.6% of Pre-European vegetation is remaining (Shepherd et al. 2001). In addition it is a component of Mattiske Vegetation Complex Pm1 of which 65.6% is remaining.

At a regional level the conservation status is of 'least concern' (Department of Natural Resources and Environment 2002) and at the local level it has a conservation status of 'least concern' (Department of Natural Resources and Environment 2002).

Due to the conservation status of the proposed clearing, the small area under application, the extent of vegetation remaining in the local and bioregional areas and the extent of vegetation complexes remaining the area under application is not considered to be a significant remnant of native vegetation in an area that has been extensively cleared.

## Methodology

Shepherd et al. (2001)

Department of Natural Resources and Environment (2002)

GIS Database:

- Mattiske Vegetation CALM 24/03/98
- Interim Biogeographic Regionalisation of Australia EA 18/10/00
- Pre-European Vegetation DA 01/01
- (f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.

# Comments

# Proposal is at variance to this Principle

There are approximately 15 mapped wetlands within a 10km radius of the proposed clearing. The nearest being 3.3km west. The proposed clearing is unlikely to have a significant impact due to the distance.

The proposed clearing includes an unnamed minor perenial watercourse which is a tributary of fly brook 125m to the east. Therefore the proposed clearing is at variance with this principle.

## Methodology

GIS Database:

- Hydrography, linear DOE 01/02/04
- EPP. Areas DEP 06/95
- EPP, Lakes DEP 28/07/03
- Geomorphic Wetlands Swan Coastal Plain } DEC

- Anca Wetlands CALM 08/01
- EPP, Wetlands DEP 21/07/04

# (g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.

### Comments

# Proposal is not likely to be at variance to this Principle

The area has a medium salinity risk and a ground water salinity of 500-1000 mg/L. Given the small size of this clearing it is unlikely to impact upon salinity.

The chief soils are hard and also sandy so there is little risk of wind or water erosion. The proprosed area of clearing has a medium relief with sedimentary rocks and extensive deep aquifers so it is unlikely water logging will occur.

Therefore the clearing is unlikely to be at variance to this principle.

## Methodology

### GIS Database:

- Topography Contours, Statewide DOLA 12/09/02
- Acid Sulfate Soil Risk Map, Swan Coastal Plain DEC
- Groundwater Salinity, Statewide DOW
- Hydrogeology, Statewide DOW
- Soils, Statewide DA 11/99

# (h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.

### Comments

## Proposal is not likely to be at variance to this Principle

The Donnelly State Forest lies 150m East and 1 National Park (Pemberton) 1.8km northwest and 6.6km southeast of the proposed area.

Given the proximity of the state forest and the nearby National Park, the lack of vegetation linkage/corridors and the small area to be cleared it is unlikely the proposed clearing will impact on the environmental values of nearby conservation areas..

## Methodology

## GIS Database:

- CALM Managed Lands and Waters CALM 1/06/04
- System 6 Conservation Reserves DEP 06/95

# (i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.

# Comments

# Proposal may be at variance to this Principle

The proposed area is not in a Public Drinking Water Source Area or catchment area. Topography shows the area under application has medium relief. The area also has low groundwater salinity (500-1000 mg/L) and an evaporation rate of 1200 mm combined with a rainfall rate of 1200 mm. Soil geology mapping shows the area has high permeability with deep aquifers.

Given the size of the area to be cleared, the medium relief and low impact on groundwater salinity the proposed clearing is unlikely to impact on groundwater quality.

The proposed area is, however, directly associated with an unnamed minor perennial watercourse. Therefore it is likely the export of sediments into this watercourse will occur, which may lead to a decrease in surface water quality and the proposal maybe at variance to this principle.

## Methodology

## GIS Database:

- Hydrography, linear DOE 01/02/04
- Acid Sulfate Soil Risk Map, Swan Coastal Plain DEC
- Groundwater Salinity, Statewide DOW
- Hydrogeology, Statewide DOW
- Soils, Statewide DA 11/99
- Public Drinking Water Source Areas (PDWSAs) DOW
- Hydrographic Catchments Subcatchments DOW
- Evaporation Isopleths BOM 09/98
- Mean Annual Rainfall Isohyets (1975-2003) } DOW
- Topography Contours, Statewide DOLA 12/09/02

# Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.

#### Comments

# Proposal is not likely to be at variance to this Principle

The soil in the area under application consists of sedimentary rocks with high permeability, rainfall of 1200mm and an evaporation rate of 1200mm.

Given the small size of the proposed clearing and the medium relief it is considered unlikely to be at variance with this principle.

### Methodology

GIS Database:

- Hydrogeology, Statewide DOW
- Soils, Statewide DA 11/99
- Topography Contours, Statewide DOLA 12/09/02
- Evaporation Isopleths BOM 09/98
- Mean Annual Rainfall Isohyets (1975-2003) } DOW

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

### Comments

There is one Native Title claim (Southwest Boojarah 2) over the area under application, as the property is privately owned the granting of the clearing permit is a secondary approval and does not constitute a future act under the Native Title Act 1993.

There are no Aboriginal Sites of Significance listed within the area under application. It is the responsibility of the proponent to ensure that no Aboriginal Sites of Significance are damaged through the clearing process.

The proposal is within the RIWI act area of Donnelly River and tribuitaries, however a RIWI license is not required.

## Methodology

GIS Database:

- Native Title Claims DLI 7/11/05
- Aboriginal Sites of Significance } DIA
- RIWI Act, Surface Water Areas DOW
- RIWI Act, Rivers DOW
- RIWI Act, Irrigation Districts DOW
- RIWI Act, Groundwater Areas DOW
- RIWI Act, Areas } DOW

area (ha)/ trees

1

## 4. Assessor's comments

Purpose Method Applied

Comment

Mechanical construction oRemoval

maintenance

Assessable criteria have been addressed and it is found that principles a, d, and e are not at variance, principles b, c, g, h and j are not likely to be at variance, principle i maybe at variance and principle f is at variance.

## 5. References

Department of Natural Resources and Environment (2002) Biodiversity Action Planning. Action planning for native biodiversity at multiple scales; catchment bioregional, landscape, local. Department of Natural Resources and Environment, Victoria.

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 (1998) Mapping of vegetation complexes in the South West forest region of Western Australia, CALM. Shepherd, D.P., Beeston, G.R. and Hopkins, A.J.M. (2001) Native Vegetation in Western Australia, Extent, Type and Status. Resource Management Technical Report 249. Department of Agriculture, Western Australia.

# 6. Glossary

Term

Meaning

BCS CALM Biodiversity Coordination Section of DEC

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)