

## **Clearing Permit Decision Report**

## 1. Application details

1.1. Permit application details

Permit application No.:

2134/1

Permit type:

Purpose Permit

1.2. Proponent details

Proponent's name:

City of Albany

1.3. Property details

Property:

PART LOT 5990 ON PLAN 208107 (House No. 48341 SOUTH COAST MARBELUP 6330)

Local Government Area:

City Of Albany

Colloquial name:

1.4. Application

Clearing Area (ha)

No. Trees

Method of Clearing

For the purpose of: Extractive Industry

20

Mechanical Removal

#### 2. Site Information

## 2.1. Existing environment and information

#### 2.1.1. Description of the native vegetation under application

#### **Vegetation Description**

The vegetation is sporadically located within Lot 5990. Photographs (Albany, 2007) and aerial photography indicate that the vegetation condition ranges from degraded to completely degraded. Consists of vegetation association 978: Low forest; jarrah, Eucalyptus staeri & Allocasuarina fraseriana

## Clearing Description

The area under application is to clear 20 native trees for the purpose of gravel extraction by the City of Albany. Much of the area under application has been cleared for agricultural purposes. The vegetation is sporadically located within Lot 5990. Photographs (Albany, 2007) and aerial photography indicate that the vegetation condition ranges from degraded to completely degraded.

## Vegetation Condition

Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)

#### Comment

Vegetation condition was assessed through ground level photographs supplied by the City of Albany (2007) and aerial photographs.

As above

As above

Completely Degraded: No longer intact; completely/almost completely without native species

(Keighery 1994)

As above

#### 3. 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 vegetation under application is to be cleared for the extraction of gravel on Lot 5990, South Coast Hwy, within the City of Albany. Aerial photos and photos supplied by the City of Albany (2007), suggest that the 20 trees proposed to be cleared, are of degraded condition (Keighery, 1994) with limited scope for regeneration without intensive management. The local surrounding area appears to have undergone previous clearing possibly in association with agricultural activities.

Given that the vegetation is relatively isolated and degraded with obvious signs of disturbance and limited scope for regeneration, the vegetation within the application area is unlikely to be representative of vegetation comprised of outstanding biodiversity in the Bioregion or local area.

Methodology

City of Albany (2007) Keighery (1994) (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

There have been 21 reported sightings of rare or endangered fauna within a 5km radius of the proposed clearing site. These include the declared vulnerable Pseudocheirus occidentalis (Western Ringtail Possum), Botaurus poiciloptilus (Australasian Bittern) and Calyptorhynchus banksii naso (Forest Red-tailed Black-Cockatoo). Other rare species within the 5km radius include Isoodon obesulus fusciventer (Quenda), Hydromys chrysogaster (Water-rat), Galaxiella nigrostriata (Black-stripe Minnow) and Ardeotis australis (Australian Bustard); all with conservation status of priority 3 to 5.

The Pseudocheirus occidentalis reported sightings were 3.5km from the proposed clearing. There are no vegetation corridors apparent that link the reported sightings with the proposed clearing area, limiting the likelihood of the Pseudocheirus occidentalis habituating within the application area. This can also be deduced for Isoodon obesulus fusciventer.

The Botaurus poiciloptilus, Calyptorhynchus banksii naso and Ardeotis australis have been sighted 4 to 5kms from the proposed clearing sight. Although the sightings of these birds were some 4-5kms from the proposed clearing area, the native vegetation maybe frequented by these birds. The 20 trees under application are situated on, and partially segregated from, the eastern boundary of the area and range from degraded to completely degraded condition (Keighery, 1994). The condition of these trees signifies that they are unlikely to represent the state of the vegetation within the remaining area. Therefore it is unlikely that these trees will be necessary for the maintenance of a significant habitat for birds.

The Galaxiella nigrostriata and Hydromys chrysogaster are limited to waterbodies some 4 to 5km from the proposed clearing area. Therefore, given the distance and limitations, the clearing of 20 trees will not negatively influence the habitats of these species.

Given the condition of the 20 trees under application and the small scale of the application, the vegetation proposed to be cleared is not likely to be necessary for the maintenance of, a significant habitat for indigenous fauna.

#### Methodology

GIS Layers:

Albany Mt Barker 140cm Orthomosiac - Landsgate 02

Fauna

Keighery (1994)

(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 12 known records of Declared Rare and Priority Flora within a 5km radius of the proposed clearing site.

The closest known record is a priority four species, Leucopogon polystachyus, located approximately 2.5kms from the application, and occurs on different vegetation type as the proposed clearing area. Synaphea incurva, is a priority one species and was reported 3.5kms from the application area. It also occurs on different vegetation type as the application site.

Aerial and ground level photos (Albany, 2007) suggests that the trees to be cleared are in a degraded condition (Keighery, 1994) with limited scope for regeneration without intensive management.

Given the disturbed condition and isolated location of the vegetation, and differeing vegetation type from DEFL to the area under application, the proposed clearing area is unlikely to be necessary for the continued existence of flora.

#### Methodology

GIS Layer:

Albany Mt Barker 140cm Orthomosiac - Landsgate 02

DEFL

Keighery (1994)

(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 at variance to this Principle

There are no threatened ecological communities within a 5km radius of the proposed clearing area and is therefore not at variance to this principle.

#### Methodology

GIS: Albany Mt Barker 140cm Orthomosiac - Landsgate 02

TEC, PEC

## (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 likely to be at variance to this Principle

	Pre- European (ha)*	Current Extent Remaining		Conservation Status**
		(ha)*	(%)*	
IBRA Bioregion: Jarrah Forest	4,506,674	2,426,079	53.8	Least concern
Shire: Albany***	383,843	149,341	38.9	Depleted
Beard Unit: 978	53,433	19,901	37.2	Depleted

The 20 trees under application fall with the IBRA Bioregion of Jarrah Forrest; this complex still maintains 53.8% of its pre-European vegetation and therefore, falls within the category of least concern (Shepherd et al., 2001). Both the City of Albany and the beard unit that the proposed clearing area fall in, have a conservation status of Depleted, with the current extent remaining being 38.9% and 37.2% respectively. The State Government is committed to the National Objectives Target for Biodiversity Conservation which includes a target that prevents clearance of ecological communities with an extent below 30% of that present pre-1750 (DNRE, 2002). Beyond this value, species extinction is believed to occur at an exponential rate and any further clearing may have irreversible consequences for the conservation of biodiversity.

As the vegetation complex that the proposed clearing application falls within a conservation category that is above the National Objective Target for Biodiversity Conservation, it is not seen as a significant remnant of native vegetation in an area that has been extensively cleared and is therefore not likely to be at variance to this principle.

#### Methodology

DNRE, (2002)

Shepherd et al. (2001) Intensive Land Use Zone

## (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 not likely to be at variance to this Principle

The proposed clearing is located approximately 180m north of a minor-perennial watercourse and 1km northwest of a marsh area. Also, Seven Mile Creek, which is located 1km north-east, and Powell Lake, situated 3kms south-west of the proposed clearing area, are both conservation class wetlands.

Given the low topography and shallow gradients of the local area (40-50m AHD), and the small nature of the area to be cleared, it is believed that clearing of 20 native trees is unlikely to compromise the values of these water bodies.

#### Methodology

GIS Layer:

Albany Mt Barker 140cm Orthomosiac - Landsgate 02 Topography Contours, Statewide - DOLA 12/09/02

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

#### Comments

Proposal is not at variance to this Principle

The topography of the region is relatively flat with an elevation rising from 40-50 AHD, and has a mean annual rainfall of 900m. Groundwater salinity has been mapped between 500-1000mg/L TDS (Total Dissolved Solids). There is no known Acid Sulphate Soil (ASS) risk within the local area.

Given the small area proposed to be cleared relative to the above information, the proposed clearing is unlikely to cause appreciated land degradation in the form of wind or water erosion, water logging or salinisation.

<sup>\*</sup>Shepherd et al. 2001

<sup>\*\*</sup>Department of Natural Resources and Environment 2002

<sup>\*\*\*</sup>Within the Intensive Land Use Zone (Inside the Clearing Line)

Methodology

GIS Layer:

Albany Mt Barker 140cm Orthomosiac - Landsgate 02

Groundwater Salinity, Statewide - DOW

Acid Sulphate Soils Risk Map - Albany-Torbay - DEC

Rainfall, Mean Annual - BOM 30/09/01

Topography Contours, Statewide - DOLA 12/09/02

(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 area proposed to be cleared does not lie within, or adjacent to, areas set aside for conservation. Lake Powell Nature Reserve a Register of National Estate lays 2.6kms south-west of the clearing.

Given that the vegetation under application appears to be degraded, consists of 20 native trees and not linked to nearby conservation areas, it is highly unlikely that the clearing of native vegetation as proposed will impact on the values of the nearby conservation area.

Methodology

GIS Layer:

Albany Mt Barker 140cm Orthomosiac - Landsgate 02 CALM Managed Lands and Water - CALM 1/7/05 (category)

(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 is not likely to be at variance to this Principle

The proposed clearing site lies within the Torbay-Inlet catchment and the Seven Mile Creek catchment division. The region is of low relief (40-50m AHD) and has an annual rainfall of 900m.

Due to the small area proposed to be cleared in relation to the topography, it is unlikely that the clearing of native vegetation will clause deterioration in the quality of surface water or groundwater within the local area.

Methodology

GIS Layer:

Albany Mt Barker 140cm Orthomosiac - Landsgate 02 Hydrography catchments - catchment DOE 23/03/05

Rainfall, Mean Annual - BOM 30/09/01

Topography contours, statewide - DOLA 12/09/02

(j) 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 hydrology of the area is predominately rock of low permeability such as Gneiss and migimatite, which can assist in intensifying flooding if an abundance of vegetation is cleared. Given though, the small scale of clearing, it is unlikely it will cause or exacerbate flooding within the local area.

Methodology

GIS Layers:

Albany Mt Barker 140cm Orthomosiac - Landsgate 02

Hydrology, statewide - DOW

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

Comments

There are two Native Title Claims over the area under application. The Department of Environment and Conservation's advertising of the application in the West Australian Newspaper constitutes legal notification of the Native Title representative body for the purpose of the future act procedures under the Native Title Act

The Esperance Groundwater Area is a proclaimed Area under the RIWI Act, the proposed clearing of 20 native trees falls within this area.

Methodology

GIS Layers:

RIWI Act, Groundwater Areas - DOW (P\_Status)

#### 4. Assessor's recommendations

Purpose

Method Applied

Decision

Comment / recommendation

Extractive

Mechanical

area (ha)/ trees

The assessment has shown the proposed

Removal

## 5. References

City of Albany. 2007. Photographs. Supplied by City of Albany 2007

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.

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

CALM Department of Conservation and Land Management

DAWA Department of Agriculture

DEP Department of Environmental Protection (now DoE)

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 DoE)