

Clearing Permit Decision Report

1. Application details

1.1. Permit application details

Permit application No.:

1725/1

Area Permit

Permit type:

Proponent details

1.2. Proponen Proponent's name:

Shire of Augusta Margaret River

1.3. Property details

Property:

SUSSEX LOCATION 1491 (Lot No. 1491 CAVES DEEPDENE 6290)

SUSSEX LOCATION 4385 (Lot No. 4385 CAVES AUGUSTA 6290)

Local Government Area:

Colloquial name:

Shire Of Augusta-Margaret River

1.4. Application

Clearing Area (ha)

No. Trees

Method of Clearing

For the purpose of:

0.15

Mechanical Removal

Drainage

2. Site Information

2.1. Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description

Beard Vegetation Association 3: Medium forest; jarrah-marri (Hopkins et al. 2001; Shepherd et al. 2001). Clearing Description

The proposal involves clearing 0.15ha of relatively undisturbed open woodland for an underground water pipeline.

Vegetation Condition

Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery 1994) Comment

The description of the clearing application area is based on advice provided by DEC (former CALM) to the Shire of Augusta-Margaret River (CALM, 2004); and a site visit conducted by DEC officers on 25 May 2007 (DEC Site Visit, 2007).

Mattiske Vegetation
Complex: Cowaramup
(Cw1): Mixture of open
forest to woodland of
Eucalyptus diversicolorCorymbia calophylla and
woodland of Eucalyptus
marginata subsp.
marginata24 -Corymbia
calophylla on slopes and
low woodland of Melaleuca
preissiana-Banksia
littoralis on depressions in
the hyperhumid zone
(Mattiske Consulting,

The vegetation under application comprises Eucalyptus marginata, Corymbia calophylla, Agonis flexuosa forest, over Agonis parviceps, Callistachys lanceolata, Xanthorrhoea preissii, Acacia myrtifolia heath B, over Phlebocarya ciliate, Dasypogon bromelifolius low heath D (DEC Site Visit, 2007).

The vegetation health of the area under application was generally of Very Good to Excellent condition. While not obvious, there were indications that some form of past vegetation clearing may have occurred.

3. Assessment of application against clearing principles

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

Comments

1998).

Proposal is not likely to be at variance to this Principle

The proposed clearing is for the installation of a pipeline to transfer water from nearby soak Reserve 24816 to the Augusta Golf Course Reserve 27881. DEC Site Visit Report (2007) found that vegetation within the 0.15ha proposal site is of very good to excellent condition (Keighery, 1994). Aerial photography indicates that surrounding vegetation is extensive and appears to be in as good, or better, condition than that proposed to be cleared.

The proposed clearing of 0.15 hectares does not constitute a high level of biodiversity, and is therefore not likely to be at variance to this principle.

The proposed clearing site falls within a dieback risk area. Dieback conditions have been included in the permit to ameliorate the spread of dieback to uninfected areas.

Methodology

Keighery (1994)

DEC (2007) GIS Database:

- Augusta 1.4m Orthomosaic - DOLA 00

(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 proposal is to clear a total of 0.15 hectares for the installation of a pipeline from a nearby soak Reserve to the Augusta Golf course. DEC Site Visit Report (2007) found the condition of vegetation within the application area to be very good to excellent (Keighery, 1994).

Although the area may provide habitat for native fauna, the area proposed to be cleared is small (0.15ha) and linear (3m wide). Aerial photography indicates that surrounding vegetation is extensive and appears to be in as good, or better, condition than that proposed to be cleared.

Given the above, the vegetation under application is unlikely to provide significant habitat for indigenous fauna.

Methodology

Keighery (1994)

GIS Database:

- FAUNA Sac Bio Datasets 280607
- Augusta 1.4m Orthomosaic DOLA 00

(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 known records of Declared Rare Flora (DRF) within a five kilometre radius of the area under application. These include a Priority 4 species, Hemiandra australis, located approximately 2.8km east of the proposed clearing, and Kennedia macrophylla (classified rare) located just over 5kms to the south-east. Both of these species occur on different Mattiske vegetation complexes to vegetation types within the application area.

The area proposed to be cleared is small (0.15ha) and linear in shape. Given that the closest known record of rare flora is 2.8km from the application area and occurs on a different vegetation complex to that under application, the proposed clearing is unlikely to be at variance to this principle.

Methodology

GIS Database:

- Soils, Statewide DA 11/99
- DEFL SAC Bio dataset 280607

(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

Mapping indicates there is one known Threatened Ecological Community (TECs) within a five kilometre radius of the area under application. The TEC is described as an Aquatic Root Mat Community associated with the caves of the Leeuwin Naturaliste Ridge and located more than 3kms north-west of the application area.

Given the above, the proposed clearing is not likely to be at variance to this principle.

Methodology

GIS Database:

- TEC_POINTS Sac Bio Datasets 280607

(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
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Pre-European	Current extent			Conservation Status	% In reserves/CALM
IBRA Bioregions	(ha)*	(ha)*	(%)*		managed land
- Warren	834,053.950	657,114.138	78.8	Least Concern	46.7
Shire of Augusta- Margaret River	222,718	159,679	71.7	Least Concern	
Vegetation type: Beard: Unit 1	69,130.23	54304.737	78.6	Least Concern	36.2
Beard: Unit 3	250,323.727	198,947.836	79.5	Least Concern	40.3
Mattiske Veg:	189,838	75,049	39.5	Depleted	
Cowaramup (C1) Cowaramup (Cw1)	61,422	20,153	32.8	Depleted	

The area under application is located in the Shire of Augusta Margaret River and within the Warren Bioregion. The extent of pre-European vegetation within these areas is 71.7% and 78.8% respectively (Shepherd et al., 2001; Shepherd, 2006).

The vegetation proposed to be cleared is a component of Beard Vegetation Associations 1 and 3 (Hopkins et al., 2001) of which there is 78.6% and 79.5% respectively of the pre-European vegetation extent remaining (Shepherd, 2006). These vegetation types are considered as having a conservation status of Least Concern (Department of Natural Resources and Environment, 2002).

The proposed clearing also forms a component of Mattiske vegetation complex Cowaramup (C1) and Cowaramup (Cw1), of which there is 39.5% and 32.8% respectively remaining (Mattiske Consulting, 1998) and has a conservation status of Depleted (Department of Natural Resources and Environment, 2002).

The proposed clearing does not fall within an extensively cleared area and the pre-European extent of the Warren Bioregion, Beard Vegetation Associations and Mattiske Vegetation Complexes of the area under application meet the National Objectives Targets for Biodiversity Conservation 2001 - 2005 (being greater than 30% of that present pre-1750). Based on this, the vegetation under application is not considered to be significant as a remnant within an area that has been extensively cleared.

Methodology

Shepherd et al (2001)

Shepherd (2006)

Hopkins et al., 2001

Mattiske Consulting (1998)

Department of Natural Resources and Environment (2002)

GIS Database:

- Pre-European Vegetation DA 10/01
- Interim Biogeographic Regionalisation of Australia EA 18/10/00
- Mattiske Vegetation CALM 24/3/98

(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

There are no wetlands within the proposed clearing site. A Palusplain (seasonally waterlogged flat) is located approximately 180m north of the proposed clearing.

A minor perennial watercourse passes through the area under application. Aerial photography indicates that the proposed clearing intersects the watercourse within the road reserve associated with Caves Road.

Given the above, the proposed clearing is unlikely to impact riparian vegetation associated with the identified watercourse.

Methodology

GIS Database:

- Hydrography, Linear DOE 1/2/04
- Rivers, DOW
- Geomorphic Wetlands, Augusta to Walpole ý DOE 18/6/03

(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 purpose of the clearing is for the installation of a pipeline to service the Augusta Golf Club from a water supply dam located north-east of the application area. The topography within the region is of low relief with very shallow gradients, ranging from 10 - 25m AHD. The vegetation under application is not considered to be in an area associated with high salinity risk, and has a moderate to low risk of Acid Sulphate Soils occurring as a result of developmental activities.

Given the small and linear nature of the application area, it is unlikely that the proposed clearing of native vegetation would cause appreciable land degradation.

Methodology

GIS Database:

- Topographic Contours, Statewide DOLA 12/09/02
- Acid sulphate Soil Risk Map, Lower south West DEC
- Salinity Risk LM 25m DOLA 00

(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

Fragmented sections of the Leeuwin Naturaliste National Park surround the proposed clearing, the nearest point of which lies approximately 30m east of the application area and comprises the same Mattiske vegetation complex as that of the proposed clearing.

The area under application falls within System 1 to 5 and 7 to 12 Areas, recommended for conservation as determined by the Environmental Protection Authority, Western Australia.

Given the small and linear nature of the application area, the proposed clearing of 0.15ha is unlikely to compromise the environmental values of the Leeuwin Naturaliste National Park. However, due to the proposed clearing site falling within a dieback risk area, dieback conditions have been included in the permit to ameliorate the spread of dieback to uninfected areas.

Methodology

GIS Database:

- CALM Managed Lands and Waters CALM 1/07/05
- Mattiske Vegetation CALM 24/3/98
- System 1 to 5 and 7 to 12 Areas 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 is not likely to be at variance to this Principle

The proposed clearing site falls within the Hardy Estuary_Blackwood River Cattchment. The region is of low relief with an annual rainfall of 1100mm. Groundwater salinity is mapped at less than 500mg/L TDS (Total Dissolved Solids).

The proposed clearing for the installation of a pipeline may cause some short term water quality issues in terms of localised surface water sedimentation during works. However, due to the small and linear nature of the area proposed to be cleared, it is unlikely that the clearing of native vegetation for pipeline installation will cause deterioration in the quality of surface water or groundwater within the local area.

Methodology

GIS Database:

- Hydrographic Catchments Catchments DOE 23/03/05
- Rainfall, Mean Annual BOM 30/09/01
- Topographic Contours, Statewide DOLA 12/09/02
- Groundwater Salinity, Statewide 22/02/00

(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

Due to the topography within the local area, and the scale and nature of the proposed clearing, it is unlikely to exacerbate the incidence of flooding within the local area.

Methodology

GIS Database:

- Topographic Contours, Statewide DOLA 12/09/02

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

Comments

The proposal to clear 0.15ha for the installation of a pipeline to service the Augusta Golf Club has been informally assessed by the EPA, with Public Advice given.

No submissions have been received for this proposal.

There is a Native Title Claim 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 1993. No response was received from the representative body.

Methodology

GIS Database:

- Native Title Claims - DLI 07/11/05 - Environmental Impact Assessments

4. Assessor's comments

Purpose

Drainage

Method Applied

Comment

Mechanical Removal

area (ha)/ trees 0.15

The assessable criteria have been addressed and the proposal is not at variance to Principle (e); and is not likely to be at variance to Principles (a), (b), (c), (d), (f), (g), (h), (i) and (j).

5. References

Department of Environment and Conservation, DEC. (2007). Site visit report. TRIM ref DOC24447

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.

Hopkins, A.J.M., Beeston, G.R. and Harvey J.M. (2001) A database on the vegetation of Western Australia. Stage 1. CALMScience after J. S. Beard, late 1960's to early 1980's Vegetation Survey of Western Australia, UWA Press.

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. (2006). 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. Includes subsequent updates for 2006 from Vegetation Extent dataset ANZWA1050000124.

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

Biodiversity Coordination Section of DEC

CALM

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 EPP Declared Rare Flora

GIS

Environmental Protection Policy

ha

Geographical Information System Hectare (10,000 square metres)

TEC WRC Threatened Ecological Community Water and Rivers Commission (now DEC)