

Clearing Permit Decision Report

1. Application details

1.1. Permit application details

Permit application No.:

1310/1

Permit type:

Purpose Permit

1.2. Proponent details

Proponent's name:

GHD Pty Ltd on behalf of City of Rockingham

1.3. Property details

Property:

LOT 101 ON DIAGRAM 59578 (House No. 21 COUNCIL ROCKINGHAM 6168)

LOT 9 ON PLAN 9740 (Lot No. 9 CENTRAL ROCKINGHAM 6168)

LOT 4 ON PLAN 22765 (House No. 44 CHALGROVE ROCKINGHAM 6168)

ROAD RESERVE (ROCKINGHAM 6168)

LOT 1511 ON PLAN 213615 (Lot No. 1511 LEGHORN ROCKINGHAM 6168)

LOT 1652 ON PLAN 41054 (ROCKINGHAM 6168)

LOT 800 ON PLAN 44879 (House No. 23 COUNCIL ROCKINGHAM 6168)

Local Government Area:

Colloquial name:

City Of Rockingham

Rockingham City Centre Transit Site

1.4. Application

Clearing Area (ha)

No. Trees

Method of Clearing Mechanical Removal For the purpose of:

Road construction or maintenance

2. Site Information

Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description

Heddle Vegetation
Complex -Quindalup
complex ý Coastal dune
complex consisting mainly
of two alliances ý the
strand and fore-dune
alliance and the mobile
and stable dune alliance.
Local variations include the
low closed forest of
Melaleuca lanceolata ý
Callitris preissii and the
closed scrub of Acacia
rostellifera.

Beard Vegetation Association ý 3048 ý Shrublands; scrub-heath on Swan Coastal Plain Clearing Description The proposal includes the clearing of up to 2 hectares of native vegetation for road construction purposes. The vegetation under application is described by GHD (2006) as vshrubland dominated by Acacia rostellifera. A.saligna and Xanthorrhoea preissii with an understorev often including shrubs such as Jacksonia furcellata and groundcover such as Lepidosperma pubisquameum, with often forms dense patchesý. Most of the applied area is adjacent to the road and is void of vegetation or contains planted vegetation, however some remnants exist. Vegetation to the east of Chalgrove Ave (Site 10) comprises sparse Acacia sp. in a degraded condition. The strip between houses and

carpark from Ako Lane to Chalgrove Ave (Site 9) and vegetation on Contest Parade north of Clifton St (Site 6) comprises mainly

Vegetation Condition

Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)

Comment

The vegetation description was obtained from a field survey conducted by GHD (2006) and from a site visit conducted on Tuesday 4 July 2006.

X.preissii with some Acacia sp. in a degraded to completely degraded condition. Vegetation on Contest Pde (Site 5) is considered to be good to degraded. Vegetation at the intersection of Rae Rd and Ennis Ave (Site 1) comprises X.preissii in a degraded condition (DEC site visit 2006).

DEC site visit 4/7/06 GHD (2006)

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 located in small isolated patches comprising mainly Acacia sp. and X.preissii in a completely degraded condition, having a limited understorey and extensive weed invasion. The area under application is therefore not likely to be self-sustaining into the future and is not likely to be representative of an area of outstanding biodiversity in the Bioregion or the local area.

Methodology

DEC site visit 4/7/06

(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 applied area consists of small, isolated patches of vegetation located within road reserves and vacant lots, with no connectivity to larger areas of vegetation. The vegetation under application has a high level of disturbance and weed invasion, and is likely to have limited potential for fauna habitat. It is therefore not considered likely to provide significant habitat for indigenous fauna.

Methodology

DEC site visit 4/7/06

(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 no known occurrences of Declared Rare or Priority Flora (DRF) within the local area (5km radius of the applied area). In addition, no threatened flora species were identified during a field survey conducted by GHD (2006), however the field survey was conducted in autumn, hence the presence of some ephemeral, annual or bulbous species cannot be assessed.

Although a spring survey was not conducted within the area under application, the vegetation under application is roadside vegetation and is in a completely degraded condition, and given the absence of DRF in the local area the proposal is not considered likely to impact DRF species.

Methodology

GHD (2006)

GIS Database: Declared Rare and Priority Flora List - CALM 01/07/05

(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

The vegetation under application is located approximately 2.4 kilometres southwest of the nearest known TEC. The Bush Forever study (Government of Western Australia, 2000) identifies possible TECs associated with the Quindalup Dune system in this landscape position as Callitris preissii and/or Melaleuca lanceolata forests and woodlands (30a). The vegetation under application is also considered to be in a completely degraded condition, comprising mainly Acacia sp. and X.preissii. Given this, and that no TECs were identified during the field survey conducted by GHD (2006) it is not considered likely that the proposed clearing will impact any TEC.

GHD (2006)

Government of Western Australia (2000)

GIS Databases:

Heddle Vegetation Complexes - DEP 21/06/95Threatened Ecological Communities - CALM 12/4/05

Methodology

GHD (2006)

Government of Western Australia (2000)

GIS Databases:

Heddle Vegetation Complexes - DEP 21/06/95

Threatened Ecological Communities - CALM 12/4/05

(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

The vegetation under application is identified by Heddle et al. (1980) as Quindalup complex of which there is 47.1% of pre-European vegetation remaining, and which is considered to be depleted (Department of Natural Resources and Environment 2002). The vegetation under application is also part of Beard vegetation association 3048 of which there is 28.7% remaining (Shepherd et al. 2002), and which is considered to be vulnerable (Department of Natural Resources and Environment 2002). While these representation figures classify the vegetation complexes as depleted and vulnerable, the vegetation under application is in a completely degraded condition and is therefore not considered likely to be representative of these communities.

reserves/CALM-	Pre-European	Current	Remaining	Conservation	% in	
reserves/CALIVI-	area (ha)	extent (ha)	%	status***	managed land	
IBRA Bioregion - SCP	1,529,235	657,450	43.0%*	Depleted		
City of Rockingham	24,326	8,534	35.1%*	Depleted		
Beard vegetation associations						
3048	14,575	4,184	28.7%*	Vulnerable	19.2%*	
Heddle vegetation complex						
Quindalup Complex	38,238	18,000	47.1%**	Depleted	5.2	

^{* (}Shepherd et al. 2001)

Methodology

DEC Site visit 4/7/06

Department of Natural Resources and Environment (2002)

EPA (2000)

Shepherd et al. (2001)

GIS Databases:

Heddle Vegetation Complexes - DEP 21/06/95

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 not likely to be at variance to this Principle

There are no wetlands mapped within the area under application, however approximately 0.08 hectares is located 5m to the northwest of a Conservation Category Wetland (CCW). Given the proximity of this area to the CCW it is considered likely to form part of the buffer for this wetland.

Although a portion of the area under application is located within the buffer to a CCW, this portion comprises only two Acacia sp. in a completely degraded condition and is likely to have limited buffering capacity from the adjacent urban land use. The proposal is therefore not considered likely to be at variance to this Principle.

Methodology

DEC site visit 4/7/06

GIS Database: Geomorphic Wetlands (Mgt Categories), Swan Coastal Plain - DOE

(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

Soils within the applied area are defined as deep calcareous sands with variable organic matter within the Quindalup south system. These sands are well drained and have a low risk of land degradation including erosion, salinity, eutrophication and acid sulphate soils (State of Western Australia 2005).

In addition, the Department of Agriculture and Food (DAFWA 2006) advise "the proposed clearing is unlikely to cause appreciable land degradation". Therefore the proposal is not considered likely to be at variance to this Principle.

Methodology

DAFWA (2006)

State of Western Australia (2005)

^{**(}EPA, 2003)

^{***(}Department of Natural Resources and Environment 2002)

(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 nearest conservation area is a Bush Forever site located approximately 1.5km to the northeast of the applied area. Given the degraded condition and limited amount of vegetation under application it is not considered likely that the environmental values of any nearby conservation reserves will be impacted by the proposed clearing.

The Quindalup Complex currently has 5.2% (Heddle et al 1980) in secure tenure with JANIS (1997) recommending that 15% of the pre-1750 distribution of each vegetation ecosystem should be protected in a comprehensive, adequate and representative reserve system. Given that the vegetation under application is located in isolated fragments within an urban area, and is in a completely degraded condition, it is not considered likely to be of conservation value.

Methodology

DEC site visit 4/7/06

Heddle et al. (1980)

Janis Forests Criteria (1997)

GIS Databases:

Bushforever - MFP 07/01

CALM Managed Lands and Waters - CALM 1/07/05

(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 area under application is not located within a Public Drinking Water Source Area (PDWSA) and the nearest watercourse is a drain located approximately 800m to the southwest of the southern portion of the applied area. Groundwater is at a depth of 3m below ground level, and there is a low risk of salinity and acid sulphate soils in the local area.

Based on this information, and given that the applied area is limited in size, the proposal is not considered likely to cause deterioration in the quality of surface or underground water.

Methodology

DEC site visit 4/7/06

GIS Databases:

Acid Sulphate Soil Risk Map, SCP - DOE 04/11/04

Groundwater Salinity, Statewide - 22/02/00

Public Drinking Water Source Areas (PDWSAs) - DOE 07/02/06

(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

Flooding impacts are not considered likely to occur as a result of the proposed clearing due to the size and location of the applied area. The applied area is located in small, isolated areas within an area of urban development. It is considered that the removal of vegetation from the site would have no impact on peak flood height or duration.

Methodology

DEC site visit 4/7/06

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

Comments

The City of Rockingham (2006) advises of their support for the clearing permit application prepared by GHD (2006).

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.

GHD (2006) has advised that prior to clearing the site a contractor will be engaged to remove grass trees deemed suitable for transplanting and prepare them for reuse. The City of Rockingham will recover any grass trees not used in the project landscaping, and reused them elsewhere in the City.

Methodology

City of Rockingham submission (2006)

GIS Databases:

Cadastre - DLI 1/12/05

Native Title Claims - DLI 7/11/05

4. Assessor's recommendations

Method Applied Purpose

Decision area (ha)/ trees

Comment / recommendation

Road construction of Removal maintenance

Mechanical

Grant

The assessable criteria have been addressed and no objections were raised. The assessing officer therefore recommends that the permit should be granted.

References

City of Rockingham submission (2006)

DAFWA Land degradation assessment report. Office of the Commissioner of Soil and Land Conservation, Department of Agriculture and Food Western Australia. DoE TRIM ref XXXXX.

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.

EPA (2000) Environmental protection of native vegetation in Western Australia. Clearing of native vegetation, with particular reference to the agricultural area. Position Statement No. 2. December 2000. Environmental Protection Authority. GHD (2006) Rockingham City Centre Transit Centre Vegetation Assessment.

Government of Western Australia (2000) Bush Forever Volumes 1 and 2. Western Australian Planning Commission, Perth WA. Heddle, E. M., Loneragan, O. W., and Havel, J. J. (1980) Vegetation Complexes of the Darling System, Western Australia. In Department of Conservation and Environment, Atlas of Natural Resources, Darling System, Western Australia.

JANIS Forests Criteria (1997) Nationally agreed criteria for the establishment of a comprehensive, Adequate and Representative reserve System for Forests in Australia. A report by the Joint ANZECC/MCFFA National Forest Policy Statement Implementation Sub-committee. Regional Forests Agreement process. Commonwealth of Australia, Canberra.

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.

State of Western Australia (2005) Agmaps Land Manager CD Rom.

6. Glossary

Term

CALM Department of Conservation and Land Management

DAWA Department of Agriculture

DEP Department of Environmental Protection (now DoE)

DoE Department of Environment

Department of Industry and Resources DolR

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)