

CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number:

2897 / 1

File Number:

DEC10053

Duration of Permit:

From 17 October 2009 to 17 October 2011

PERMIT HOLDER

Peters Investments Pty Ltd

LAND ON WHICH CLEARING IS TO BE DONE

Lot 22 on Diagram 78267

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 0.2 hectares of native vegetation within the area hatched yellow on attached Plan 2897/1.

CONDITIONS

Nil.

Keith Claymore

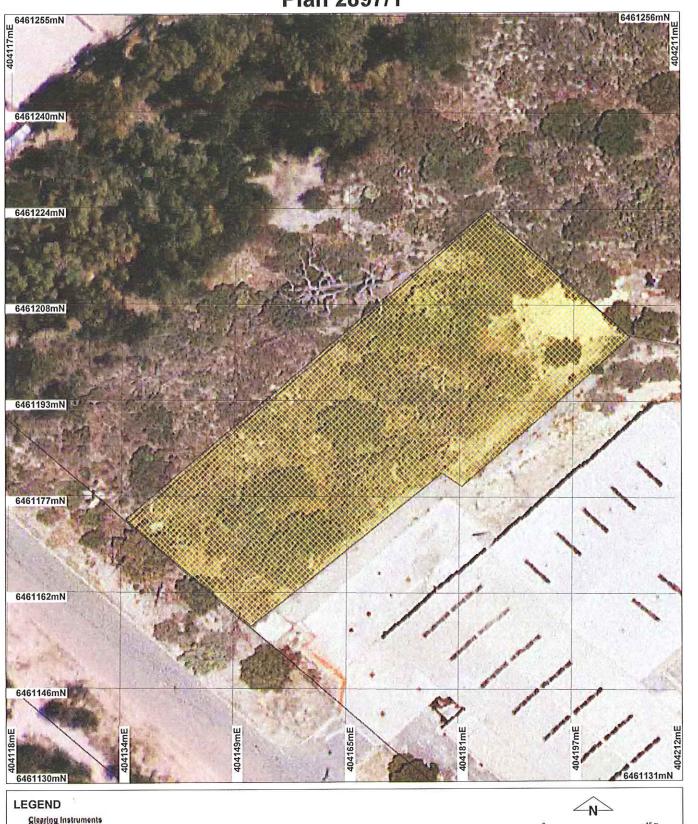
A/ ASSISTANT DIRECTOR

NATURE CONSERVATION DIVISION

Officer delegated under Section 20 of the Environmental Protection Act 1986

17 September 2009

Plan 2897/1



LEGEND

Clearing Instruments Swan Coastal Plain Central 20cm Orthomosaic - Landgate



Scale 1:554 (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.

Claymore

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 acknowleged by the agency acronym in the legend



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Clearing Permit Decision Report

1. Application details

Permit application details

Permit application No.:

2897/1

Permit type:

Area Permit

Proponent details 1.2.

Proponent's name:

Peters Investments Pty Ltd

1.3. Property details

Property:

LOT 22 ON DIAGRAM 78267 (House No. 80 BEDFORD FORRESTFIELD 6058)

Local Government Area:

Colloquial name:

Shire Of Kalamunda

1.4. Application

Clearing Area (ha)

No. Trees

Method of Clearing

For the purpose of: **Building or Structure**

0.2

Mechanical Removal

2. Site Information

Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description

Heddle Vegetation Complex:

Southern River Complex: Open woodland of E. calophylla - E. marginata -Banksia species with fringing woodland of E. rudis - M. rhaphiophylla along creek beds.

Beard Vegetation Unit:

-1018: Mosaic: Medium Forest; Jarrah & Marri/ Low Woodland; Banksia/ Low Forest

Beard Vegetation Unit:

-1018: Mosaic: Medium Forest; Jarrah & Marri/ Low Woodland: Banksia/ Low Forest

Clearing Description

The proposal is to clear 0.2 hectares of native vegetation to extend an existing hardstand.

The 0.07 hectares of native vegetation that has not been recently cleared ranged from good to very good condition with vegetation being dominated by a Banksia attenuata and Marri overstorey and species rich shrub layer.

Vegetation Condition

Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994)

Comment

Vegetation clearing description is based on information obtained from a site inspection on 5th January 2009

Degraded: Structure Approximately 0.13 hectares of vegetation severely disturbed; under application have regeneration to good been previously cleared condition requires and although some native intensive management vegetation has regenerated (Keighery 1994)

it is in a degraded condition.

Vegetation clearing description is based on information obtained from a site inspection on 5th January 2009

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 at variance to this Principle

The vegetation under application was considered to be a Banksia/Marri open woodland in good to very good condition with a species rich understorey. The vegetation under application has been inferred as a Threatened Ecological Community (TEC) and is mapped as Floristic Community Type (FCT) 20a, 'Banksia attenuata woodland over species rich dense shrublands'. The rare flora Conospermum undulatum was also identified within the area under application (DEC, 2009).

Given the vegetation under application is mapped as a TEC and contains a population of rare flora it is considered the vegetation under application is representative of an area with a high level of biological diversity and is therefore at variance to this principle.

Methodology

GIS Databases

- SAC Bio Datasets 9/1/2009

DEC (2009)

(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 majority of the vegetation within the area under application comprises of a dense understorey and well established leaf litter layer suitable for a range of ground-dwelling fauna such as reptiles and mammals like the Quenda (Isoodon obesulus fusciventer) which has been recorded in the local area (5km radius). During the Site inspection (DEC, 2009) Quenda diggings were observed within the area under application.

The vegetation under application is in a degraded to very good condition with an overstorey consisting of Banksia sp and Eucalyptus sp that may provide some suitable foraging habitat for the Carnaby's Black-Cockatoo (Calyptorhynchus latirostris)

While it is likely that the area provides habitat for a range of fauna including species of conservation significance, given the size of the area under application it is not considered to be considered significant habitat and therefore is not consider likely to be at variance with this principle.

Methodology

DEC (2009)

GIS Databases

- SAC Bio Datasets 9/1/2009

(c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.

Comments

Proposal is at variance to this Principle

There are over 100 recorded occurrences of rare flora within the local area (5km radius of area under application) with the majority being individuals of Conospermum undulatum. Other known rare flora within the local area include populations of Macarthuria keigheryi, Thelymitra stellata, Darwinia apiculata, Acacia anomola, Dryandra mimica, Caladenia huegelii, Lepidosperma rostratum, Eleocharis keigheryi, Diuris purdei, Tetraria australiensis, Andersonia gracilis and Calytrix breviseta subsp. breviseta.

The closest mapped population of rare flora is Conospermum undulatum, located within 70m of the cleared area on the adjacent Lot 21 (1.83ha) with 170 individuals of Conospermum undulatum identified (EPA 2004). During the site inspection (DEC, 2009) individuals of Conospermum undulatum were identified within the area under application and on the road reserve and adjacent property.

On the 14th September 2009 a permit to take declared rare flora (Permit No. 30 - 0910) under Section 23F of the Wildlife Conservation Act 1950 was issued for the area under application

Given that Conospermum undulatum was identified within the area under application the vegetation is considered to include rare flora and therefore be at variance to this principle.

Methodology

EPA (2004)

DEC (2009)

GIS Databases

- SAC Bio Datasets 21/10/2008
- Soils, Statewide
- (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 at variance to this Principle

There are seven occurrences of the Threatened Ecological Community (TEC) Floristic Community Type (FCT) 20a, 'Banksia attenuata woodland over species rich dense shrublands' (Gibson et al. 1994)' within the local area. The FCT 20a is considered Endangered in Western Australia (DEC, 2004).

The TEC FCT 20a is mapped as being present over the whole of the adjacent Lot 21 Bedford Crescent and the vegetated portion of Lot 22 which is the area under application.

Given the 0.2 hectares area under application is mapped as the endangered TEC 'Banksia attenuata woodland over species rich dense shrublands' the clearing as proposed is considered to be at variance to this principle.

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Methodology

GIS Databases

- SAC Bio Datasets 9/1/2009

(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 associated with Beard Vegetation Association 1018 and Heddle Southern River Complex, of which approximately 22.7% and 19.8% pre-European extent remain respectively (Heddle et al. 1980 and Shepherd 2007).

The Environmental Protection Authority (EPA) supports a 30% threshold level as recommended in the National Objectives Targets for Biodiversity Conservation; below which species loss appears to accelerate exponentially at an ecosystem level (EPA, 2000).

Both of the mapped vegetation complexes associated within the area under application are below the 30% threshold, however the EPA (2006) recognises the Perth Metropolitan Region as a constrained area, providing for the reduction of vegetation complexes to a minimum of 10% of the Pre-European extent.

The area under application is considered relatively small and the site is surrounded by a more contiguous remnant of vegetation protected within Bush Forever Site 319. Given the approximately 58 hectares of remnant vegetation within Bush Forever site 319 the area under application is not considered likely to be significant as a remnant in an area that has been significantly cleared.

Pre-European	Current extent (ha)	Remaining (ha)	% In reserves/ (%)	CALM managed land
IBRA Bioregion Swan Coastal Plain*	1,501,208	58,3140	38.84	10.4
Shire of Kalamunda*	32,354	24,140	74.6	
Beard Vegetation Unit: 1018*	14,059	3,192	22.7	3.0
Heddle: Southern River Complex** 5	7,979 1	1,501	19.8	1.5

^{* (}Shepherd 2007)

Methodology

Shepherd (2007)

Heddle et al. (1980)

Commonwealth of Australia (2001)

EPA (2006)

GIS databases:

- Bushforever
- -Heddle Vegtation Complexes
- -SAC Bio Datasets accessed 09/1/2009

(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 fourteen Conservation Category Wetlands (CCWs) within the local area (3km radius). The closest wetland is a CCW located 40 metres from the area under application on the other side of Bedford Crescent. There are no watercourses within the local area. During the site inspection (DEC, 2009) no wetland dependant vegetation was observed within the area under application.

Given that no wetland dependant vegetation was identified during the site inspection and the distance to the nearest watercourse it is not considered likely that the vegetation under application is growing in, or associated with, an environment associated with a watercourse or wetland.

Methodolo gy

References:

DEC (2009)

GIS databases:

- EPP, Lakes
- Geomorphic Wetlands (Mgt Categories), Swan Coastal Plain
- Hydrography, linear (hierarchy)

^{** (}EPA, 2006)

(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 under application is within the Bassendean dune system, with this system having the potential for a high risk of land degradation through wind erosion, as the sandy soils within the area under application are considered to be highly erodible.

Given the sandy soils present on site, it is considered that there is the potential for the proposed clearing to result in wind erosion however due to the limited area under application it is not considered it would result in appreciable land degradation.

In addition, wind erosion is likely to be managed on-site and the clearing as proposed is considered not likely to be at variance to this principle.

Methodolo

Northcote et al. (1968)

gy

GIS Databases:

-Salinity Risk

(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 reserve is the Dundas Road Bushland (Bush Forever Site 319) which is located 40 metres from the area under application on the south side of Bedford Crescent.

Although the area under application is relatively close it does not provide any ecological linkage to the Bush Forever site and given a road separates the two areas it is not considered likely that the proposed clearing would have a direct or indirect impact on adjacent or nearby conservation areas.

Methodolo

GIS databases:
- Bushforever

gy

(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

There are fourteen Conservation Category Wetlands (CCWs) within the local area (3km radius). The closest wetlands is a CCW located 40 metres from the area under application on the other side of Bedford Crescent.

It is considered any development within 50m the boundary of a wetland can critically influence a wetland (Hill et al. 1996), however given the limited area that is proposed to be cleared and that there is a road separating the area under application and the nearest wetland it is not considered likely that the propose clearing will impact on the surface or groundwater quality of this wetland.

Given the distance to closest watercourse and the limited area under application the proposed clearing is not considered likely to cause deterioration in the quality of surface water or groundwater.

Methodolo

Northcote et al. (1968)

gy

GIS databases:

- EPP, Lakes -
- Geomorphic Wetlands (Mgt Categories), Swan Coastal Plain
- Hydrography, linear (hierarchy)
- (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

There are no wetlands mapped within the area under application and there are no watercourses mapped within the local area (3km radius). Given size of the area under application the distance to the nearest watercourse, the clearing as proposed is not considered likely to cause or increase the incidence or intensity of localised flooding.

Methodolo

GIS databases:

gy

- EPP. Lakes -
- Geomorphic Wetlands (Mgt Categories), Swan Coastal Plain
- Hydrography, linear (hierarchy)

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

Comments

The area under application is zone for industry and planning approval has been received from Shire of Kalamunda for the proposed hardstand.

An EPA assessment of a subdivision proposal to clear 1.8 hectare on Lot 21 which is adjacent to the area under application identified 170 individuals of Conospermum undulatum and the presence of FCT 20a. The Minister granted approval for this proposal with condition. (EPA 2004).

On the 14th September 2009 a permit to take declared rare flora (Permit No. 30 - 0910) under Section 23F of the Wildlife Conservation Act 1950 was issued for the area under application

Methodology

4. Assessor's comments

Comment

The assessable criteria have been addressed and the clearing as proposed is at variance to Principles (a), (c) and (d) and is not likely to be at variance to the remainder of the principles.

5. References

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, Western Australia.

Gibson N., Keighery B., Keighery G., Burbidge A. and Lyons M. (1994). A Floristic Survey of the Southern Swan Coastal Plain. Western Australian Department of Conservation and Land Management and the Western Australian Conservation Council.

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.

Hill, A.L., Semenuik, C. A, Semenuik, V. Del Marco, A. (1996) Wetlands of the Swan Coastal Plain. Volume 2b, Wetland mapping, classification and evaluation. Wetland Atlas. WRC and DEP. Perth WA.

Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.

Northcote, K. H. with Beckmann G G, Bettenay E., Churchward H. M., van Dijk D. C., Dimmock G. M., Hubble G. D., Isbell R. F., McArthur W. M., Murtha G. G., Nicolls K. D., Paton T. R., Thompson C. H., Webb A. A. and Wright M. J. (1960-68): 'Atlas of Australian Soils, Sheets 1 to 10, with explanatory data'. CSIRO and Melbourne University Press: Melbourne.

Shepherd, D.P. (2007). 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.

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 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)