

CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:

CPS 3020/1

Permit Holder:

Shire of Beverley

Duration of Permit:

9 May 2009 - 9 May 2016

The Permit Holder is authorised to clear native vegetation subject to the following conditions of this Permit.

PART I-CLEARING AUTHORISED

1. Purpose for which clearing may be done

Clearing for the purpose of road maintenance and hazard reduction.

2. Land on which clearing is to be done

Lot 2 and 9 on Plan 2959 Forrest Street, Beverley (24 trees)
Talbot West Road reserve, Beverley (0.14 ha)
Kokendin Road reserve, Beverley (0.12 ha)
Yenyening Lakes Road reserve, Bally Bally (0.17 ha)
Qualandary Road reserve, Bally Bally (0.13 ha)
Caroling – Bally Bally Road reserve, Bally Bally (0.13)
Greenhills South Road reserve, East Beverley (5 trees)
Un-named Road reserve (PIN 11329452), East Beverley (2 trees)

3. Area of Clearing

The Permit Holder must not clear more than 0.7 hectares and 31 trees of native vegetation within the area hatched yellow on attached Plan 3020/1a, 3020/1b, 3020/1c and 3020/1d.

4. Application

This Permit allows the Permit Holder to authorise persons, including employees, contractors and agents of the Permit Holder, to clear native vegetation for the purposes of this Permit subject to compliance with the conditions of this Permit and approval from the Permit Holder.

5. Type of clearing authorised

This Permit authorises the Permit Holder to clear native vegetation for activities to the extent that the Permit Holder has the power to clear native vegetation for those activities under the *Local Government Act 1995* or any other written law.

6. Compliance with Assessment Sequence and Management Procedures

Prior to clearing any native vegetation under conditions 1, 2 and 3 of this Permit, the Permit Holder must comply with the Assessment Sequence and the Management Procedures set out in Part II of this Permit.

PART II - ASSESSMENT SEQUENCE AND MANAGEMENT PROCEDURES

7. Avoid, minimise etc clearing

In determining the amount of native vegetation to be cleared authorised under this Permit, the Permit Holder must have regard to the following principles, set out in order of preference:

- (a) avoid the clearing of native vegetation;
- (b) minimise the amount of native vegetation to be cleared; and
- (c) reduce the impact of clearing on any environmental value.

8. Fauna management

- (a) Prior to undertaking any clearing authorised under this Permit, the area(s) shall be inspected by a *fauna specialist* who shall identify tree(s) that contain hollows suitable to be utilised as habitat by fauna listed in the *Wildlife Conservation (Specially Protected Fauna) Notice* 2009.
- (b) Prior to clearing, any habitat tree(s) identified by condition 8(a) shall be inspected by a fauna specialist for the presence of fauna listed in the Wildlife Conservation (Specially Protected Fauna) Notice 2009.
- (c) Prior to clearing, the Permit Holder shall ensure that any fauna identified by condition 8(b) shall be removed and relocated by a *fauna clearing person*, in accordance with a licence issued by the Department.

9. Revegetation and rehabilitation

- (a) The Permit Holder must *revegetate* and *rehabilitate* the area cross-hatched red on attached Plan 3020/1e by:
 - (i) establishing and maintaining native vegetation to an average planting density of 2,000 plants per hectare;
 - (ii) ensuring the species consist of overstorey, midstorey and understorey species;
 - (iii) sourcing seeds and propagating material from within a 50 km radius of the area cleared,
 - (iv) commencing planting before 1 June 2010 and completing planting by 31 August 2012.
- (b) Within twelve months of undertaking *revegetation* in accordance with condition 9(a) of this Permit, the Permit Holder must:
 - (i) determine the species composition, structure and density of the area revegetated; and
 - where, in the opinion of an *environmental specialist*, the composition structure and density determined under condition 9(b)(i) of this Permit will not result in a similar species composition, structure and density to that defined under condition 9(a)(i)(ii) of this Permit, the Permit Holder must undertake additional planting or direct seeding of native vegetation in accordance with the requirements of condition 9(a)(i)(ii) and (iii) of this Permit.

PART III - RECORD KEEPING AND REPORTING

10. Records must be kept

(a) In relation to the clearing of native vegetation authorised under this Permit:

(i) the species composition, structure and density of the cleared area;

- (ii) the location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings;
- (iii) the date that the area was cleared; and
- (iv) the size of the area cleared (in hectares).

(b) In relation to fauna management pursuant to condition 8 of this Permit:

the location of each habitat/habitat tree identified recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings;

(ii) the species of fauna reasonably likely to utilise, or that have been observed utilising, the

habitat/habitat tree(s); and

- (iii) the location and date where relocated fauna was released, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings.
- (c) In relation to the revegetation and rehabilitation of areas pursuant to condition 9 of this Permit:
 - (i) the location of any areas revegetated and rehabilitated, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings;
 - (ii) a description of the revegetation and rehabilitation activities undertaken;
 - (iii) the size of the area revegetated and rehabilitated (in hectares); and
 - (iv) the species composition, structure and density of revegetation and rehabilitation.

11. Reporting

- (a) The Permit Holder must provide to the CEO, on or before 30 June of each year, a written report of records required under condition 10 of this Permit and activities done by the Permit Holder under this Permit between 1 January and 31 December of the preceding year.
- (b) Prior to 9 February 2016, the Permit Holder must provide to the CEO a written report of records required under condition 10 of this Permit where these records have not already been provided under condition 11(a) of this Permit.

Definitions

The following meanings are given to terms used in this Permit:

environmental specialist means a person who is engaged by the Permit Holder for the purpose of providing environmental advice, who holds a tertiary qualification in environmental science or equivalent, and has experience relevant to the type of environmental advice that an environmental specialist is required to provide under this Permit;

fauna clearing person means a person who has obtained a licence from the Department, issued pursuant to the Wildlife Conservation Regulations 1970 authorising them to take fauna;

fauna specialist means a person with training and specific work experience in fauna identification or faunal assemblage surveys of Western Australian fauna;

habitat tree(s) means trees that have a diameter, at average adult human chest height, of greater than 70cm, healthy but with dead limbs and broken crowns that are likely to contain hollows and roosts suitable for native fauna, or where these are not present then healthy but with the potential to contain hollows and roosts;

planting means the re-establishment of vegetation by creating favourable soil conditions and planting seedlings of the desired species;

rehabilitate/ed/ion means actively managing an area containing native vegetation in order to improve the ecological function of that area;

revegetate/ed/ion means the re-establishment of a cover of native vegetation in an area such that the species composition and structure consists of overstorey, midstorey and understorey species and the average density is 2,000 plants per hectare, and can involve regeneration, direct seeding and/or planting;

Kelly Faulkner MANAGER

NATIVE VEGETATION CONSERVATION BRANCH

Officer delegated under Section 20 of the Environmental Protection Act 1986

9 April 2009

Plan 3020/1a





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Road Centrelines

// FW // HY // LRO // LRS (cont) // MR // N // TR Clearing

√ TR

Clearing Instruments

Areas Approved to Clear
Corrigin North 1.4m
Orthomosaic - Landgate 2001

Northam 1m Orthomosaic -Landgate 2003

Beverley Townsite 15cm Orthomosaic - Landgate 2004

Beverley 50cm Orthomosaic -Landgate 2006



Scale 1:1102 (Approximate when reproduced at A4)

(Approximate when reproduced at IA4)

Geocentric Datum Australia 1994

Note: the data in this map have not been projected. The may result in geometric distortion or neasurement inaccuracies.

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Officer with delegated authority under Section 20 of the Environmental Protection Act 1986

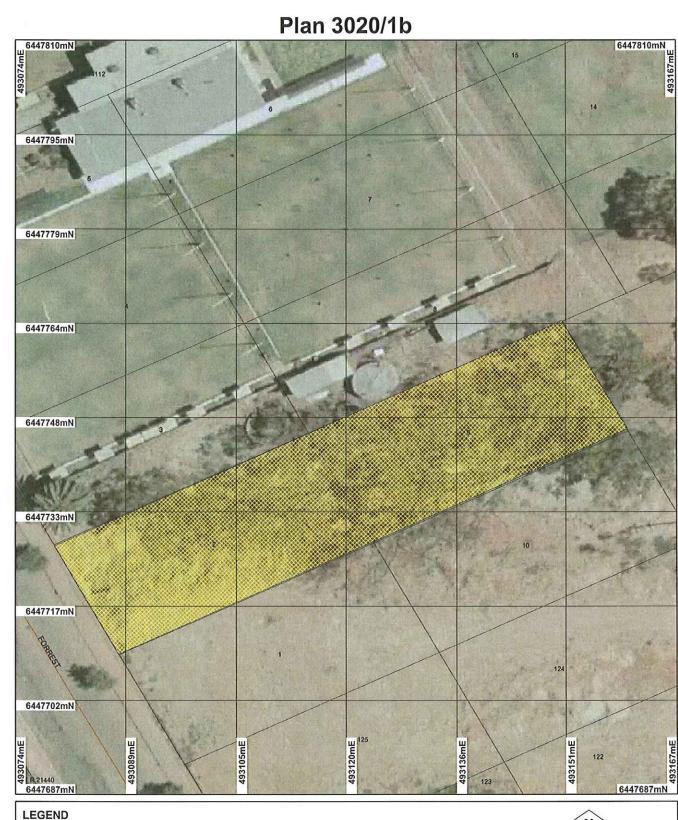
Information derived from this map should be confirmed with the data custodian acknowleged by the agency acronym in the legend.

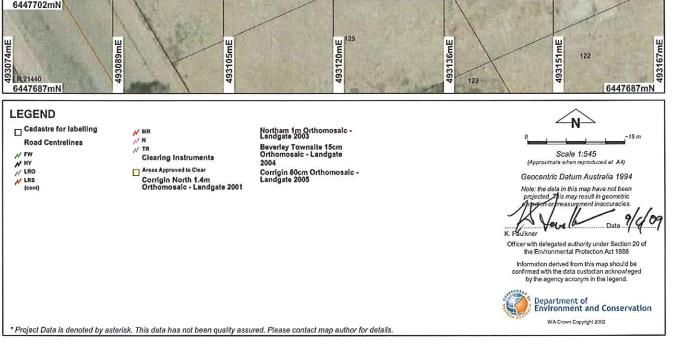


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* Project Data is denoted by asterisk. This data has not been quality assured. Please contact map author for details.

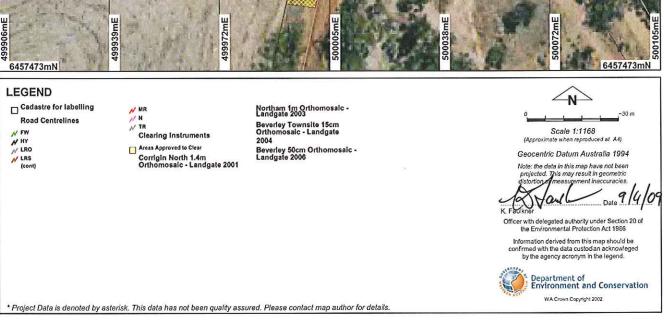
Plan 3020/1b



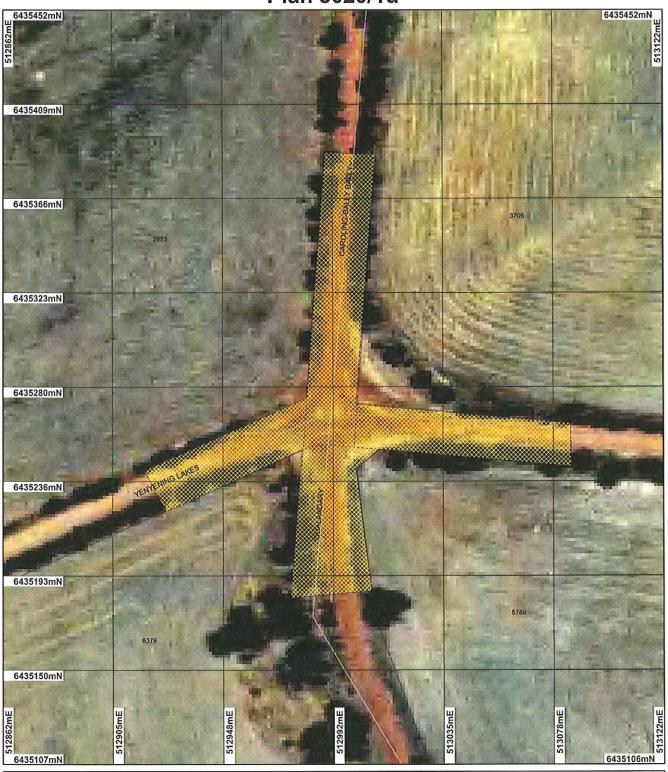


Plan 3020/1c





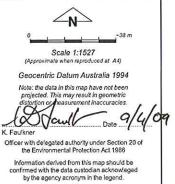
Plan 3020/1d







Northam 1m Orthomosalc -Landgate 2003 Beverley Townsite 15cm Orthomosalc - Landgate 2004 Beverley 50cm Orthomosalc -Landgate 2006

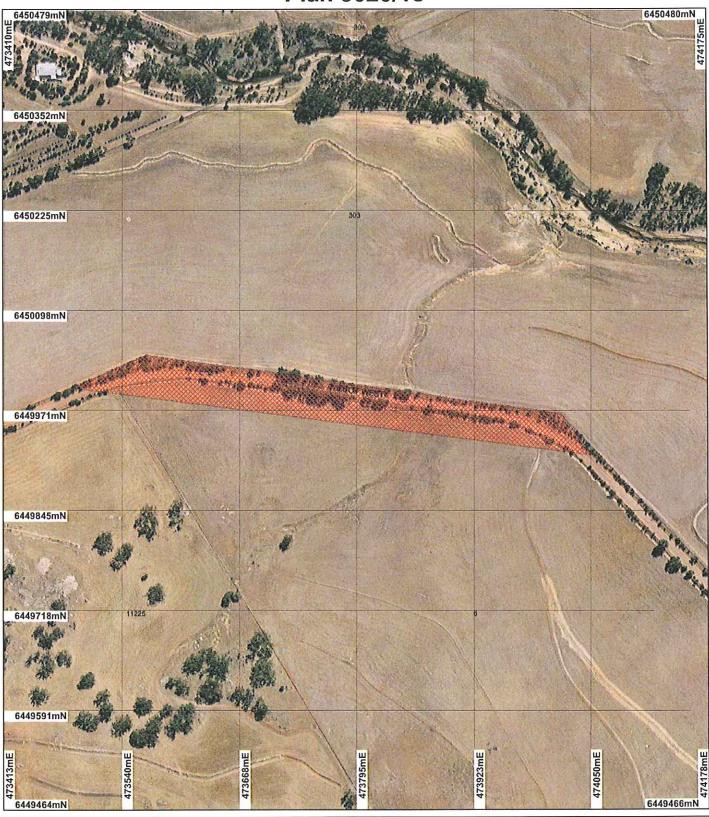


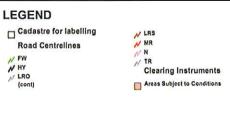
Department of Environment and Conservation

WA Crown Copyright 2002

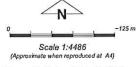
* Project Data is denoted by asterisk. This data has not been quality assured. Please contact map author for details.

Plan 3020/1e





Beverley 50cm Orthomosaic -Landgate 2006



Geocentric Datum Australia 1994

Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

K.Faulkner

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.



* Project Data is denoted by asterisk. This data has not been quality assured. Please contact map author for details.



Clearing Permit Decision Report

1. Application details

Permit application details

Permit application No.:

3020/1

Permit type:

Purpose Permit

Proponent details 1.2.

Proponent's name:

Shire of Beverley

Shire Of Beverley

1.3. Property details

Property:

LOT 9 ON PLAN 2959 (Lot No. 9 BARTRAM BEVERLEY 6304)

LOT 2 ON PLAN 2959 (House No. 62 FORREST BEVERLEY 6304)

ROAD RESERVE (EAST BEVERLEY 6304)

ROAD RESERVE (EAST BEVERLEY 6304)

ROAD RESERVE (EAST BEVERLEY 6304)

ROAD RESERVE (BALLY BALLY 6304) ROAD RESERVE (BEVERLEY 6304)

ROAD RESERVE (BEVERLEY 6304)

Local Government Area:

Colloquial name:

Clearing Area (ha)

0.7

Application

No. Trees

Method of Clearing

Mechanical Removal

Mechanical Removal

For the purpose of:

Hazard reduction or fire control Road construction or maintenance

2. Site Information

Existing environment and information

31

2.1.1. Description of the native vegetation under application

Vegetation Description

Beard Vegetation

Complex:

352: Medium woodland; York gum

25: Low woodland: Allocasuarina huegeliana & York gum

Mattiske Vegetation Complex:

Ck: Woodland of Eucalyptus wandoo with mixtures of Eucalyptus patens, Eucalyptus marginata subsp. thalassica and Corymbia calophylla on the valley slopes in arid and perarid zones.

(Mattiske 1998; Shepherd 2007)

Clearing Description

The proposal is to clear 0.7 ha and 31 trees within various road reserves in the Shire of Beverley for the purpose of road widening and improved line of sight. Also for reduction of leaf litter falling on bowling green.

The area under application consists of four distinct areas. Talbot West Road and Kokendin Road intersection consists of predominately Eucalyptus loxophleba subsp loxophleba, Allocasuarina spp. and Acacia sp. over pasture weeds in a degraded condition (0.23

The vegetation at Gors Road and Greenhills South Road intersection consisted of seven Eucalyptus salmonophloia trees, one dead, scattered over

Vegetation Condition Comment

Degraded: Structure severely disturbed;

regeneration to good

intensive management

condition requires

(Keighery 1994)

Vegetation clearing description based on a site visit conducted by DEC officers on 26 March 2009

pasture weeds and is in completely degraded condition.

The vegetation at the intersection of Qualandary Road and Yenyening Lakes Road consisted of Eucalyptus loxophleba subsp loxophleba, Allocasuarina spp. and Acacia sp. over semaphore sedges in a good (0.07ha) to degraded condition (0.40ha).

The vegetation occurring on Lot 2 and 9 Forest Street, Beverley, is in a completely degraded condition and consisted of 20 mature Eucalyptus loxophleba subsp loxophleba, and four small Eucalyptus loxophleba subsp loxophleba, over grassy weeds. Some regeneration was observed in the eastern corner of the area under application. Acacia sp were observed in the southern portion of the

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 may be at variance to this Principle

The areas under application include four distinct areas and generally consist of Eucalyptus loxophleba subsp loxophleba, Eucalyptus salmonophloia, Allocasuarina spp. and Acacia sp. over pasture weeds in a predominantly degraded condition. However, condition ranges from completely degraded to good.

The majority of the areas of vegetation under application are located within road reserves in an extensively cleared local area (~20 Km radius) which has only 10.5% of remnant vegetation remaining. Given the low vegetation representation within the local area (~20 km radius), it is considered that vegetation in a degraded or better condition, although thin and linear, can significantly contribute to the conservation of biodiversity. It is therefore considered that the vegetation under application may comprise a high level of biodiversity, especially in a local context.

Vegetation types are similar within the road reserves under application and range from completely degraded to good condition. Vegetation under application in good condition may have the potential to provide suitable habitat for fauna in a cleared landscape. In addition, the vegetation at the intersection of Gors Road and Greenhills South Road, contain seven Salmon Gums (Eucalyptus salmonophloia) that are surrounded by cleared farm land. These trees contain several hollows of various sizes and are considered potential nesting habitat for the conservation significant species, Carnaby?s Black Cockatoo (Calyptorhynchus latirostris).

Therefore, the proposed clearing is considered maybe at variance to this Principle. A revegetation condition will be placed on the permit to mitigate this impact.

Methodology

- References
- -DEC (2007)
- -DEC (2009)

GIS Databases

- NLWRA Current Extent of Native Vegetation
- SAC Bio Databases (25/3/09)
- (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 may be at variance to this Principle

There are seven fauna species of conservation significance recorded within the local area (~5km radius).

Roadside vegetation can provide shelter, food and nesting sites for a range of native fauna (Roadside Conservation Committee 2002). The vegetation of the area under application at the intersection of Gors Road and Greenhills South Road, contain mature Salmon Gums (Eucalyptus salmonophloia) that are surrounded by cleared farm land. These trees contain several hollows of various sizes and are considered potential nesting habitat for the conservation significant species, Carnaby?s Black Cockatoo (Calyptorhynchus latirostris). This species can be found in the wheatbelt region during the breeding season where it nests predominantly in Salmon Gums and Wandoo trees that contain hollows two to 10 metres off the ground (DEC 2007).

During the site inspection, vegetation in a good condition was identified within the area under application along Qualandary Road (DEC 2009). Even though small and linear in shape, this vegetation is considered to be significant habitat for fauna in the local area especially for birds, as it is in a better condition then surrounding vegetation and is in a Shire that has been extensively cleared for agriculture. This vegetation has the potential to provide better shelter and food for fauna in the local area. Therefore, the proposed clearing is considered maybe at variance to this Principle. A fauna survey condition will be placed on the permit to mitigate this impact.

Methodology

References

- -DEC (2007)
- -DEC (2009)
- -Roadside Conservation Committee (2002)

GIS Databases

- SAC Bio Databases (25/3/09)
- (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 three Rare flora species occurring in the local area (~5 km radius) being Eleocharis Keigheryi, Glyceria drummondii and Thomasia montana occurring 2.9 km southeast, 2.9 km southeast and 6.2 km east of the area under application, respectively.

Both Eleocharis Keigheryi and Glyceria drummondii are grass-like herbs that occur in claypans and Thomasia montana is an upright shrub, occurring on loamy soils in rocky granite knolls and lateritic hills (Western Australian Herbarium 1998-). Given that claypans, rocky granite knolls or lateritic hills were not identified in the areas under application during the site inspection (DEC 2009), it is unlikely for these Declared Rare Flora species to occur in the areas under application.

In addition, given the vegetation under application is in a predominantly degraded condition consisting of Eucalyptus trees and Acacia sp, over grassy weeds and in one of the areas, over semaphore sedges, and does not include shrubs such as the Thomasia montana, the vegetation under application is not considered necessary for the continued existence of rare flora.

Methodology

References

-DEC (2009)

-Western Australian Herbarium (1998-)

GIS Databases

-SAC Bio Databases (25/3/09)

(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 Threatened Ecological Communities (TEC) occurring within the local area (~ 10 km radius). The closest being Perched Wetlands of the Wheatbelt Region with Extensive Stands of Casuarina obesa and Melaleuca strobophylla occurring 11.5 km south of area under application at Lot 2 and 9 Forrest St, Beverley.

Given the distance to the nearest TEC and that the site inspection identified the vegetation under application as consisting of Eucalyptus trees and Acacia sp, over grassy weeds and in one of the areas, over semaphore sedges in an overall degraded condition (DEC 2009), it is considered unlikely for the proposed clearings to be at variance to this Principle.

Methodology

References

-DEC (2009)

Gis Databases

-SAC Bio Databases (25/3/09)

(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 at variance to this Principle

The vegetation under application is associated with Beard Vegetation Association 352 and 25 of which there is

approximately 14.02% and 12.63% pre-European extent remaining (Shepherd 2007).

The State Government is committed to the National Objectives and Targets for Biodiversity Conservation which includes a target that prevents a clearance of ecological communities with an extent below 30% of that present pre-European settlement (Commonwealth of Australia 2001). All areas under application occur within a Beard Vegetation Association which is below the State Governments target of 30%. In addition, the areas under application occur within the Avon Wheatbelt IBRA Bioregion which has less then 15.17 % of pre European vegetation extent remaining.

The clearing is also within the Intensive Land-use Zone (Shepherd et al, 2001) and is located in the ?agricultural area? defined in EPA Position Statement No. 2 (EPA, 2000). There is only 10.5% of vegetation left in the local area. Therefore, it is considered that the proposed clearing is at variance to this Principle. A revegetation condition will be placed on the permit to mitigate this impact.

	Pre-European (ha)	Current extent (ha)	Remaining (%)	In secure tenure (%)
IBRA Bioregion* Avon Wheatbelt	9 517 109	1 443 690	15.17	11.0
Shire of Beverley*	263 870	9999.5	32.9	87.2
Local Area (~20km radius)	31 400	3334.5	10.5	
Beard vegetation type in Avo 352 25	on Bioregion* 630 581 8925	88 397 1126.9	14.02 12.63	11.4 2.5

^{* (}Shepherd, 2007)

Methodology

References

- Commonwealth of Australia 2001
- EPA (2000)
- Shepherd (2007)

GIS Databases

- -NLWRA Current Extent of Native Vegetation
- SAC Bio Databases (25/3/09)

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

Three wetlands occur within the local area of the areas under application, the closest occurring 1.4 km north. Two minor non? perennial watercourse occur within 150 m of the areas under application. In addition, a minor non? perennial watercourse occurs within the southern portion of Lot 2 and 9 Forrest St Beverley and the Avon River occurs ~240 m east of this area.

Minor non-perennial watercourses are utilised for drainage flow during significant rainfall events, and thus are generally considered unlikely to contain wetland dependant vegetation.

In addition, a site inspection (DEC 2009) did not identify any wetland dependent vegetation associated with any of the areas under application. Given the vegetation generally consists of York Gum, Salmon Gums and Acacia and Allocasuarina over grassy weeds, the vegetation is not considered to be wetland dependant and the proposed clearing is not considered likely to be at variance to this Principle.

Methodology

References

- DEC (2009)

GIS Databases

- Hydrography, linear
- Hydrography, linear (hierarchy)
- Wheatbelt Wetlands

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

Comments

Proposal may be at variance to this Principle

The soils identified within the areas under application included; hard alkaline red soils, hard neutral red soils; hard alkaline yellow soils underlain by acid lateritic clays and hard alkaline yellow mottled soils containing

laterite or large amounts of ironstone gravels (Northcote et al. 1960-68). These soils generally have a high risk of water erosion.

The majority of the applied area is associated with a medium to high risk of salinity with the exception of the proposed clearing at Greenhill?s South Road which has low to nil salinity risk. Given the vegetation under application is relatively small in size (0.71 ha and 31 trees) and is spread over four locations through out the Shire of Beverley, it is not considered likely that the proposed clearing would have an impact on salinity in the local area.

The main land degradation risk associated with the removal of vegetation on the identified soil type is considered to be water erosion. The areas under application that are within road reserves are adjacent to existing roads, which already include roadside infrastructure, such as table drains and culverts, to prevent land degradation in the form of water erosion associated with the roads.

However, the proposed clearing at Lot 2 and 9, Forrest St includes the removal of 24 trees within an area that slopes from the east to the west down to a small creek line (DEC 2009). The removal of vegetation from this site may increase the risk of soil erosion during significant rainfall events. Therefore, the proposed clearing may cause appreciable land degradation through water erosion.

Methodology

References

- -DEC (2009)
- Northcote et al. (1960-68)

GIS Databases

- Salinity Risk LM 25m DOLA 00
- Soils, Statewide
- (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

There are numerous conservation areas within 20 km of the areas under application. They include Yandinilling Nature Reserve, 5 km northeast, Yenyening Lakes Nature Reserve 2.4 km south and Wandoo National Park 9 km west of the areas under application.

Given the distances to these reserves it is not considered likely for the proposed clearing to impact on the environmental values of these conservation areas.

Methodology

GIS Database

- DEC Managed Lands and Waters
- (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

Three wetlands occur within the local area of the areas under application, the closest occurring 1.4 km north. Two minor non? perennial watercourses occur within 150 m of the areas under application. In addition, a minor non? perennial watercourse occurs within the southern portion of Lot 2 and 9 Forrest St, Beverley and the Avon River occurs ~240 m east of this area.

Groundwater salinity in the areas under application is ranges from high to very high with 7000 to 35 000 mg/l. Given the relatively small size of the areas to be cleared, the proposed clearing is not likely to significantly alter groundwater levels and have a significant affect on the groundwater salinity in the local area.

However, the proposed clearing at Lot 2 and 9, Forrest St includes the removal of 24 trees within an area that slopes from the east to the west down to a small creek line (DEC 2009). The removal of vegetation from this site may cause sedimentation of this creek line, which is a tributary of the Avon River, from water erosion during significant rainfall events. Therefore, it is considered that the proposed clearing may be at variance to this Principle.

Methodology

References

- DEC (2009)

GIS Databases:

- Groundwater Salinity, Statewide
- Hydrography, linear
- Hydrography, linear (hierarchy)
- Salinity Risk LM 25m DOLA 00

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

Comments

Proposal is not likely to be at variance to this Principle

Three wetlands occur within the local area of the areas under application, the closest occurring 1.4 km north. Two minor non ? perennial watercourses occur within 150 m of the areas under application. In addition, a minor non? perennial watercourse occurs within the southern portion of Lot 2 and 9 Forrest St and the Avon River occurs ~240 m east of this area.

Given the extent of clearing in the local area for agriculture, and small areas of vegetation under application it is not considered likely that the proposed clearing would cause or exacerbate, the incidence or intensity of flooding.

Methodology

GIS Databases:

- Hydrography, linear
- Hydrography, linear (hierarchy
- Wheatbelt Wetlands

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

Comments

The proposal is to clear 0.71 ha and seven trees within various road reserves in the Shire of Beverley for the purpose of road widening and improved line of sight and 24 trees for the reduction of leaf litter falling on an adjacent bowling green of the Beverley Bowling Club.

The areas under application are zoned Town Centre - Residential Land (Lot 2 and 9 Forrest St) and Road (various road reserves) under the Shire of Beverley Town Planning Scheme.

The areas under application are within the EPA Position Statement No. 2 ?Agricultural area? (EPA 2000).

Roadside Conservation Committee (2009) provided comment on the proposed clearing within various road reserves throughout Beverley.

Methodology

References

DEC (2009)

EPA (2000)

Roadside Conservation Committee (2009)

GIS Databases

- Town Planning Scheme Zones

4. Assessor's comments

Comment

The assessable criteria have been addressed and the clearing as proposed is at variance to Principles (e) and may be at variance to Principle (a), (b), (g) and (i).

5. References

Commonwealth of Australia (2001) National Targets and Objectives for Biodiversity Conservation 2001-2005, AGPS,

DEC (2007) NatureBase - Fauna Species Profile: . Accessed at http://www.naturebase.net/content/view/840/1288/. Department of Environment and Conservation, Western Australia.

DEC (2009) Site Inspection Report for Clearing Permit Application CPS 3020/1, Lot 2 and 9 Forrest St and various road reserves, Beverley. Site inspection undertaken 26/03/2009. Department of Environment and Conservation, Western Australia (TRIM Ref. DOC80669).

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.

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, E.M. and Havel, J.J. (1998) Vegetation Complexes of the South-west Forest Region of Western Australia. Maps and report prepared as part of the Regional Forest Agreement, Western Australia for the Department of Conservation and Land Management and Environment 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:

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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)