

T. Application details						
1.1. Permit application details						
Permit application No.:	354/1					
Permit type:	Area Permit	Area Permit				
1.2 Proponent details	•					
Proponent's name:	George Hevdon	and Garry Gosatti Fox	and Investments Ptv I to trading as Arlewood			
	Estate Pty Ltd	Estate Pty Ltd				
1.3. Property details						
Property:	LOT 2 ON DIAGRAM 34843 (Lot No. 2 HARMANS WILYABRUP 6280)					
Local Government Area:	Shire Of Busselton					
Colloquial name:						
1.4. Application						
Clearing Area (ha) N	lo. Trees Method of	of Clearing For	the purpose of:			
13.5	Mechan	ical Removal Hor	ticulture			
2. Site Information						
2.1. Existing environm	nent and information	n				
2.1.1. Description of the r	native vegetation und	ler application				
Vegetation Description Cl	learing Description	Vegetation Condition	Comment			
Beard Unit 3 Ju	udith Carter (DoE) and	Degraded: Structure	DoE site visit (2005)			
Ca	athy Derrington (DoE)	severely disturbed;				
Mattiske Consulting or	n 31 January 2005. The	condition requires				
C2 Cowaramup of	ficers were accompanied	intensive management				
Cw2 by Ha	arding (Busselton Survey	(Reighery 1994)				
Of	ffice) and George Heydon					
(12	and owner).					
Sr	Species identified					
pr	redominantly include					
jai	rrah (Eucalyptus					
pr	revious logging), some					
m. (D	arri, bracken fern					
(P ex	kotic grass species.					
Th	he area under application					
ha ar	as been grazed by sheep					
ye	ears. The condition of the					
Ve	egetation is consistent					
im	npacts being that it has					
Ve	ery little understorey. The					
ar	rea under application had vidence to logging.					

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 area under application predominantly consists of jarrah (Eucalyptus marginata) and marri (Corymbia calophylla) with an under storey of bracken fern (Pteridium esculentum) and exotic weeds. A history of logging and grazing disturbance is evident and the vegetation is therefore considered to be Degraded (Keighery 1994, DoE site visit 2005). Consequently, the area under application has limited biodiversity value.

The proponent has agreed to reserve other areas of higher biodiversity value within the property and fence if stock are introduced. Some of these areas have been fenced to keep stock out for some time increasing the biodiversity value of these areas.

Methodology DoE site visit (2005) 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 may be at variance to this Principle

DoE site visit (2005) indicates that the vegetation may provide some habitat for fauna species, however the level of disturbance within the site is likely to limit the habitat value of the vegetation.

The proponents are willing to retain an area of vegetation that is higher quality than the area under application and fenced if stock are introduced. These areas are likely to be of higher habitat quality than the area under application, as parts have fenced out stock for some time.

Methodology DoE Site Visit (2005)

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

Comments Proposal may be at variance to this Principle

No declared rare flora or priority flora have been recorded within the area under application. A number of DRF and priority flora occur within a 10 km radius from the property, they are as follows:

Declared Rare Flora 'Caladenia excelsa' (three locations ranging from 4 to 10 kms from the area under application).

There are three Priority 2 species within the local area. The closest is Boronia capitata subsp. graci, 6.3km north north east of the area under application.

There are eleven Priority 3 species within the local area. The closest is Pultaneae pinifolia 3.3 km north east of the area under application.

There are two Priority 4 species within the local area. The closest is Thysanotus glaucus 5.7km north east of the area under application.

Declared Rare Flora and Priority Species within the Local Area (10km radius)

	No. Species	No. Specimens	No. Specimens in same Beard Veg Type		No. Specimens in same Mattiske Veg Type	
	·		Yes	No	Yes	No
Rare	1	3	3	0	0	3
Priority 1	0	0	0	0	0	0
Priority 2	2	2	1	1	1	1
Priority 3	6	11	6	5	4	7
Priority 4	2	2	1	1	1	1
TOTAL	11	18	11	7	6	12

Methodology GIS databases:

- Declared Rare and Priority Flora List - CALM 13/08/03

(d) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a significant ecological community.

Comments Proposal is not likely to be at variance to this Principle

No Threaten Ecological or Plant Communities were found within the local area (10km radius).

Methodology GIS databases:

- Threatened Ecological Communities - CALM 15/7/03

- Threatened Plant Communities - DEP 06/95.

Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area (e) that has been extensively cleared.

Comments	Proposal is not likely to be at variance to this Principle Pre-European Current Extent Remaining				
		(ha)	(ha)	(%)	
	IBRA Bioregion Warren	851 529	739 273	86.8	
	Shire - Busselton	145 966	64 904	44.5	
	Beard Unit 3	3 046 385	2 197 857	72.1	
	Mattiske Consulting C2 Cowaramup Cw2 Cowaramup Valleys W2 Wilyabrup	128 773 63 666 s 35 235	29 617 8 276 7 399	23 21	13
	Havel (2002) Mattiske report india sub region from a c Targets for Biodiver with an extent below 2000). Given the area under to past disturbance, variance with this prive getation that are been grazed for sor The property has an 40% remaining (364)	cates that C2, W2 a conservation point o rsity Conservation v w 30% of that prese er application is not , including grazing a rinciple. The propo representative of the me time. pproximatley 49% of ha). There is appro-	and Cw2 vegetation f view. The State G which includes a tar ent pre-1750 (Depa t regionally represe and logging (DoE s ment's are willing to be above mentioned of vegetation remain oximately 35-40% o	a units are for overnment is get that prev rtment of Na intative of the ite visit 2005 o retain (and d Mattiske ve hing and if im f vegetation	und to be among the most deficient in this s committed to the National Objectives vents clearance of ecological communities tural Resources and Environment 2002; EPA, e above mentioned vegetation units and due) it is assessed that the proposal is not at fence, if stock are introduced) areas of egetation units. Parts of these areas have not applemented this clearing proposal will leave remaining in a 10km radius of the property.
Methodology	DoE site visit (2005) EPA (2000) Havel (2002) Shepherd et al. (2001) GIS databases: - Mattiske Vegetation - CALM 24/3/98 - Interim Biogeographic Regionalisation of Australia - EM 18/10/00 - Local Government Authorities - DLI 8/07/04 - Pre European Vegetation - DA 01/01				
(f) Native v associat	egetation should ted with a waterc	not be cleared i ourse or wetland	f it is growing ir d.	n, or in ass	ociation with, an environment
Comments	Proposal is not a One of the areas ur upper reaches of th	at variance to the nder application, the e Willyabrup Brook	is Principle e northern most are Catchment).	a, is over a v	watercourse (located on or close to the

As part of the negotiation (DoE site visit 2005), the proponent agreed to remove this vegetation from the application as it was not intended to be cleared for some time.

Methodology DoE site visit (2005). GIS databases: - Hydrography Linear - DoE 1/2/04

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

Comments Proposal is not likely to be at variance to this Principle DAWA report (2005):

Water erosion

'The slope of the landscape under the proposed clearing ranges from 0 to 7%. There is a slight chance of increased water erosion in the south western block of clearing under this proposal. This risk can be managed through the maintenance of ground cover and appropriate vine establishment techniques. Consideration of infiltration rates of the soil when scheduling irrigation will also reduce the risk of runoff, and associated erosion.'

Waterlogging

'Drainage in the area concerned is well defined. Provided that appropriate irrigation management is applied, there is deemed to be no significant waterlogging risk associated with this proposal.'

Eutrophication

'Provided appropriate fertigation techniques are applied, the risk of eutrophication associated with this clearing and land use change will be limited. The soils have high phosphorus retention capabilities, and are not prone to excessive leaching. The application of low concentrations of fertiliser through fertigation (as opposed to surface applied granular fertilisers) limits the chances of nutrients washing into water bodies with overland flow.'

Salinity

'Drainage is well defined in this area, the soil has limited salt store, and in a high rainfall zone. The proposal is not expected to contribute to salinity.'

Wind Erosion

'There is limited risk of wind erosion under this proposal, as the proposed cleared areas have loamy and gravelly surfaced soils. The proposed land use does not involve regular cultivation of the soil, nor any stock traffic, and this further limits the risk of wind erosion.'

'The proposed land use (viticulture) is well suited to the soil types and climate in this area, and provided appropriate establishment, and management practices are maintained, the risk of land degradation associated with this proposal is limited. There is a slight water erosion risk associated with this proposal, but simple steps can be taken to maintain this risk at an acceptable level.'

Methodology DAWA report (2005).

(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

Leewin Naturaliste National Park is located 4.6 km from the proposed clearing site. No vegetation links join the proposed clearing site and the National Park.

Methodology GIS database:

- CALM Managed Lands and Waters - CALM 1/06/04

(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 in the Wilyabrup Brook Catchment in the Busselton Coast Basin. The salt store is not expected to rise significantly as a result of the proposed clearing as the area under application is in a high rainfall area with a medium evaporation rate and is reasonably well drained lateritic soils. Offsite groundwater points have low salinities.

The acid sulfate risk in this area has not been mapped.

Methodology GIS databases:

- Evaporation Isopleth - BOM 09/98

- Hydrogeology, statewide WRC 05/02/02
- Hydrographic Catchments, Catchments DoE 3/4/03
- Rainfall, Mean Annual BOM 30/09/01
- Soils, statewide DA 11/99
- WIN Groundwater sites, other DEWCP (Current)

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

Comments Proposal is not likely to be at variance to this Principle Due to scale, flooding impacts are unlikely to occur as a result of the proposed clearing. Methodology Hydrogeological advice (R. Smith Supervising Hydrogeologist, DoE, pare, comm. 2005).

Methodology Hydrogeological advice (R. Smith, Supervising Hydrogeologist, DoE, pers. comm. 2005)

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

Comments

Appeal to WAPC regarding subdivision of LOT 2 ON DIAGRAM 34843 was successful. Subdivision conditions do not exempt proponents from obtaining a clearing permit. Methodology Appeal outcome, to WAPC, regarding subdivision (2005)

4. Assessor's recommendations

Purpose	Method	Applied area (ha)/ trees	Decision	Comment / recommendation
Horticulture	Mechanical Removal	13.5	Grant	Recommend that the permit be granted. The proposal is at variance with Principle (e), as three Mattiske vegetation types are under 30%. However, the area under application is not representative of these vegetation types due to the degraded condition of the area (see section 2.1). The proposal may be at variance with Principle (b) and (c). The vegetation under application may provide some habitat for fauna species, however the degraded condition within the site is likely to limit the habitat value of the vegetation. The area under application is unlikely to support significant flora species due to the degraded condition of the vegetation.

5. References

DAWA Land degradation assessment report. Office of the Commissioner of Soil and Land Conservation, Department of Agriculture Western Australia. DoE TRIM ref SWO23755.

- 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.
- Havel, J.J. and Mattiske Consulting Pty Ltd (2002) Review of management options for poorly represented vegetation complexes, Conservation Commission.

Keighery, BJ (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.