

1. Application details								
1.1. Permit applicat	ion details							
Permit application No.: Permit type:		164/1 Area Permit						
1.2. Proponent deta	ails							
Proponent's name:	Ron	Ronald Gordon & Dora Faye Lindsay						
1.3. Property detail	S							
Property:		LOT 4 ON PLAN 12312						
Local Government Area: Colloquial name:	Shire	Shire Of Gingin						
1.4. Application								
Clearing Area (ha)	No. Trees		of Clearing Ical Removal		the purpose of:			
10		Mechani	cal Removal	HOL	iculture			
2. Site Information	2. Site Information							
2.1. Existing environment and information								
2.1. Existing enviro	nment and	informatior	ı					
2.1. Existing enviro 2.1.1. Description of th								
•		getation und		ition	Comment			
2.1.1. Description of th	Clearing Des Clearing Des Area has bee cleared previo remaining ver very sparse, mainly Xanth species (gras	getation unde scription n parkland ously and getation is consisting of orrhoea s trees) and al growth from cland clearing	er application	ure 1; pod	Comment The area under application has been parkland cleared previous to this application. Scattered Xanthorrhoea spp. and a few large trees remain (Site visit 02/03/05).			
2.1.1. Description of the Vegetation Description Heddle vegetation complex: Karrakatta Complex North, predominantly low open forest and low woodland of Banksia species; less consistently open forest of tuart and blackbutt (Heddle et al. 1980, Government of	Clearing Des Clearing Des Area has bee cleared previo remaining ver very sparse, mainly Xanth species (gras regenerationa previous park	getation unde scription n parkland ously and getation is consisting of orrhoea s trees) and al growth from cland clearing	er application Vegetation Cond Degraded: Structu severely disturbed regeneration to go condition requires intensive manage	ure 1; pod	The area under application has been parkland cleared previous to this application. Scattered Xanthorrhoea spp.			

Assessment of application against clearing principles 3.

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

Comments Proposal is not at variance to this Principle

> The areas under application have been previously parkland cleared and the remaining vegetation is very sparse, degraded and consists mainly of native grasses, grass trees and Christmas trees (DAWA 2004). Remnant Banksia woodland on the property is of higher biodiversity value and is to be retained. Due to the degraded nature of the vegetation in the areas under application, it is unlikely that the proposed clearing is at variance to this Principle.

Methodology DAWA (2004) (Trim Reference: EI 409) Site visit (02/03/05)

(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 In the local area (10km radius) there has been one record of the Western Brush Wallaby. Due to the terrestrial nature and habitat requirements of this species it is unlikely that the Wallaby inhabits the area under application (CALM 2005). Kangaroos, Rosellas and other bird species were seen during the site visit, however it is unlikely

that the proposed clearing will have a significant affect on fauna habitat. Methodology CALM (2005) (HD19418) Site visit (02/03/05) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, (c) significant flora. Comments Proposal is not likely to be at variance to this Principle Two species of declared rare flora occur in the local area (10km radius); Eucalyptus argutifolia (Wabling Hill Mallee) and Eucalytpus x mundijongensis (CALM 2005). Both of these species are found on the same vegetation complexes as the areas under application. However due to the degraded nature of the areas under application there is a low probability of these species being present. Methodology CALM (2005) (HD19418) **GIS** Databases: - Declared Rare and Priority Flora List - CALM 13/08/03 Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the (d) maintenance of a significant ecological community. Comments Proposal is not likely to be at variance to this Principle The Threatened Ecological Community (TEC) SCP26a ('Melaleuca huegelii - M.acerosa shrublands of limestone ridges') occurs within 5km of the areas under application, however the soil and surface geology is dissimilar (CALM 2005). The areas under application have previously been parkland cleared. Therefore based on unsuitable and degraded habitat, there is a low probability of the clearing as proposed being at variance to Principle. Methodology CALM (2005) (HD19418) **GIS Databases:** - Threatened Ecological Communities - CALM 15/7/03 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. Proposal is at variance to this Principle Comments The vegetation under application is part of Beard vegetation association 1008 and 1948 with only 18% and 21.4% remaining (Hopkins et al. 2000, Shepherd et al. 2001). The vegetation under application is also of Heddle Karrakatta Complex North that has only 20% remaining (Hopkins et al. 2001, Government of Western Australia 2000). The State Government is committed to the National Objectives Target for Biodiversity Conservation which includes targets that prevents clearance of ecological communities with an extent below 30% of that present pre-European (Department of Natural Resources and Environment 2002, EPA 2000). Vegetation complexes in this application are below the recommended minimum of 30% representation. However the areas under application have been previously parkland cleared and may not be an accurate example of these vegetation complexes. Pre-European Current Remaining Conservation % in reserves/CALMarea (ha) extent (ha) %* Status** managed land IBRA Bioregion -Swan Coastal Plain 43 1,529,235 657,450 Depleted Shire - Gingin 56.3 Least concern 315,560 177,688 Heddle Karrakatta 20 Vulnerable Complex North 5,155 1,027 Beard vegetation complex 1008 5,369 967 18 Vulnerable 0.8 Beard vegetation complex Vulnerable 1948 81,022 17,315 21.4 15.6 * Shepherd et al. (2001) ** Department of Natural Resources and Environment (2002) Methodology Shepherd et al. (2001) Hopkins et al. (2001) Department of Natural Resources and Environment (2002) EPA (2000) Government of Western Australia (2000) **GIS** Databases: - Pre-European Vegetation - DA 01/01 - Heddle Vegetation Complexes - DEP 21/06/95 - Interim Biogeographical Regionalisation of Australia - EA 18/10/00

(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 at variance to this Principle The area under application contains no wetlands or watercourses. However immediately north and adjacent to the area under application is an area mapped as Conservation Category Wetland (CCW). The proponent provided information from a Department of Environment officer that the CCW is not on the register for the Draft Swan Coastal Plains Wetland Policy (EI456). Furthermore, Mr Lindsay applied to have the wetland re- classified. As of 8th March 2005, the wetland is now afforded the category of Resource Enhancement (EI670). As such, it is unlikely that the clearing as proposed is at variance with this Principle.					
Methodology	Information from Department of Environment Officer (2004) (EI456) Information from Department of Environment Officer (2005) (EI670) GIS Databases: - ANCA Wetlands - CALM 08/01 - EPP Wetlands (draft) - DEP 21/07/04 - Geomorphic Wetlands (Mgmt Categories) Swan Coastal Plain - DOE 15/09/04					
	vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable gradation.					
Comments	Proposal may be at variance to this Principle The proposed clearing has the potential for eutrophication and wind erosion to occur (DAWA 2004). Risks from other forms of land degradation was considered to be low (DAWA 2004). The areas under application have no known risk of shallow or deeper Acid Sulphate Soils (ASS) or Potential Acid Sulphate Soils (PASS). There is a moderate to high risk of ASS or PASS associated with the wetland adjacent to the proposed areas to be cleared. The potential for serious land degradation is considered to be low.					
Methodology	DAWA (2004) (EI409) GIS Databases: - Acid Sulphate Soil risk map, SCP - DOE 01/02/04					
	vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on ironmental values of any adjacent or nearby conservation area.					
Comments	Proposal may be at variance to this Principle Adjacent to the property containing the areas under application is the Gingin Stock Route Nature Reserve (CALM 2005). CALM recommends that appropriate management procedures be implemented to ensure that the reserve is not degraded by potential impacts such as spray-drift or groundwater utilisation. It is considered that there is a medium probability of this Principle being at variance. A Nutrient Irrigation Management Plan will be assessed by the Water and Rivers Commission as part of the Groundwater Licence.					
Methodology	CALM (2005) (HD19418) GIS Databases: - CALM Managed Lands and Waters - CALM 01/08/04					
	vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration uality of surface or underground water.					
Comments	Proposal is not at variance to this Principle The area under application is located within a groundwater resource area, however it is unlikely that the proposed parkland clearing will cause deterioration in the quality of surface or underground water.					
Methodology	GIS Databases: - Public Drinking Water Supply Areas (PDWSAs) - DOE 04/11/04 - Groundwater Resources					
	vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the ce of flooding.					
Comments	Proposal is not at variance to this Principle Flooding impacts are unlikely to occur as a result of the proposed clearing as the nearest watercourse is over 10km away. Land adjacent to the areas under application is prone to seasonal inundation and waterlogging. However the proposed clearing is unlikely to have a significant affect on these areas.					
Methodology	GIS Databases: - Geomorphic Wetlands, Swan Coastal Plain - DOE 15/09/04 - Topographic Contours, Statewide - DOLA 12/09/02					
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Comments	
	The proponent has applied for a licence to take groundwater that is still under assessment. The proponent has provided a Nutrient Irrigation Management Plan to the Water and Rivers Commission outlining their proposed monitoring of nutrient and groundwater levels.
	Submission from Shire of Gingin details that they have no objection to the proposal on the understanding that the proposed clearing is not to be commenced until Planning Consent has been obtained for Irrigated Horticulture (EI527).
Methodology	Pers Coms James Yuen, Licensing Officer 14/02/05 Submission from Shire of Gingin (EI527)

4. Assessor's recommendations

Purpose	Method	Applied area (ha)/ trees	Decision	Comment / recommendation
Horticulture	Mechanica Removal	1 10	Grant	The assessible criteria have been addressed and the clearing as proposed is at variance with Principles e and may be at variance with Principles g and h. However, given the historical disturbance of the area under application and its current degraded nature, the assessing officer recommends that the permit should be granted.

5. References

CALM (2005) Land clearing proposal advice. Advice to A/Director General, Department of Environment (DoE). Department of Conservation and Land Management, Western Australia. DoE TRIM ref HD19418.

DAWA (2004) Land degradation assessment report. Office of the Commissioner of Soil and Land Conservation, Department of Agriculture Western Australia. DoE TRIM ref El409.

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 (2001) Environmental Protection of Wetlands. Preliminary Position Statement No.4. Perth, Western Australia. 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, 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.