

## 1. Application details

1.1. Permit application de	tails						
Permit application No.:	549/1						
Permit type:	Area Permit						
1.2. Proponent details							
Proponent's name:	PG & RM Hickey						
	1 G & Rin Hickey						
1.3. Property details							
Property:	LOT 27447 ON PLAN 206855						
Local Government Area:	Shire Of Narembeen						
Colloquial name:	Coshes Road - Avon Loc 27447						
1.4. Application							
Clearing Area (ha) No. Tr	rees Method of Clearing	For the purpose of:					
5	Mechanical Removal	Grazing & Pasture					
		0					
2. Site Information							
2.1. Existing environment							
	e vegetation under application						
Vegetation Description	Clearing Description	Vegetation Condition	Comment				
Beard Vegetation Association 516:	Vegetation consisting of mallee	Good: Structure	Stock have had uncontrolled access to				
Shrublands; mallee scrub, black with an understorey of Casuarina significantly altered by sp., Gastrolobium sp. and other multiple disturbance; being fenced. Regeneration of							
marlock	groundcover species. Area	retains basic	Gastolobium sp. has occurred within				
(Hopkins et al 2001, Shepherd et al 2001).	subject to the proposal is in strips	structure/ability to	the subject area. Condition of				
2001).	of no greater than 12 metres in width. Annual weed and crop	regenerate (Keighery	vegetation is based upon assessment				
	species have invaded much of	1994)	by DoE officer during site visit (11 April 2005).				
	the understorey however there		,				
	would appear to be a recent						
	resurgence of Gastrolobium sp. (Site Visit 11 April 2005).						
3. Assessment of applicat	ion against clearing principle	es					

(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 areas under application consists of strips of vegetation between 5 and 10m long, and of varying lengths, along contour banks in grazing paddocks (DAWA 2005). The paddocks have been cleared for over 20 years and have been grazed throughout this period (DAWA 2005). The condition of the vegetation varies from fair to poor and is infested with weed and pasture species (DAWA 2005). Given the degraded condition of the area under application and the isolation of the strips of vegetation under application it is unlikely that the clearing as proposed would be at variance to this Principle.

Methodology DAWA (2005) Land Degradation Assessment Report (DoE Trim No NI1000) Site visit (11 April 2005)

# (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 following Priority Listed Fauna species are known to occur in the local area (10km radius): White-browed Babbler (Pomatostomus superciliosus ashbyi, P4); Western Rosella, inland species (Platycercus icterotis xanthogenys, P3); Shy Heathwren, western species (Hylacola cauta whitlocki, P4); and Crested Bellbird, southern species (Oreoica gutturalis gutturalis, P4) (CALM 2005).

The vegetation within the area under application is very sparse, patchey and consists of low lying plants

is 43.2% of the pre-European extent remaining (Shepherd et al. 2001) and therefore of 'least concern' for biodiversity conservation (Department of Natural Resources and Environment 2002). However, there is less than 30% of native vegetation covering the bioregion and only 7.1% remaining in the Shire of Narembeen. The property is located in the agricultural area as defined by EPA Position Statement No. 2 (EPA 2000). The EPA's position on 'clearing in the agricultural area for agricultural purposes' is that any further reduction in native vegetation through clearing for agriculture cannot be supported. However, the 5 ha under application is not in a single, sustainable patch but consists of linear strips that have been severely grazed with little to no original understorey remaining. Annual weed and crop species have invaded much of the understorey leaving little representation of original vegetation structure or an ecologically productive remnant. <u>Pre-European</u> Current extent Remaining Conservation In reserves/CALM <u>Area (ha) (ha) (%) Status**** managed land(%)</u> IBRA Bioregion - Mallee* 4 130 281 806 971 19.5 Vulnerable Shire of Narembeen** 379 894 26 993 7.1 Endangered Beard Vegetation Association 516** 1 541 361 666 416 43.2 Least concern 35.9 *Area within the Intensive Landuse Zone ** Shepherd et al. (2001) *** Department of Natural Resources and Environment (2002) <b>Methodology</b> Shepherd et al. (2001)								
Site visit (11 Åpril 2005)         (c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, significant flora.         Comments       Proposal is not likely to be at variance to this Principle         There are no known occurrences of Declared Rare Flora or Priorly species within the local area (10km radius) of the area under application, it is unlikely to support viable populations of any species of conservation significance (CALM 2005).         Methodology       CALM (2005) Land Clearing Proposal Advice (DoE Trim No E11844)         Site Visit (11 April 2005)       GIS Databases:         Oli S 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 Threatened Ecological Community Database - CALM 1507/03       - Threatened Ecological Community Database - CALM 1507/03         - Threatened Ecological Community Database - CALM 1507/03       - Environment ally Sensitive Areas - DOE 22/10/04         (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 at the site is a component of Beard Vegetation Association 516 (Hopkins et al. 2001) of which the is 42.0% of the pre-European etter trema								
significant flora.           Comments         Proposal is not likely to be at variance to this Principle           There are noknown occurrences of Declared Rare Flora or Priority species within the local area (10km radius) of the area under application (CALM 2005). Given the degraded and isolated nature of the area under application, it is unlikely to support viable populations of any species of conservation significance (CALM 2005).           Methodology         CALM (2005) Land Clearing Proposal Advice (DoE Trim No E11844)           Site Visit (11 April 2005)         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 Threatened Ecological Communities are recorded within 10km of the proposal (CALM 2005).           Methodology         CALM (2005) Land Clearing Proposal Advice (DoE Trim No E11844)           Gis Databases:         - Threatened Ecological Community Database - CALM 15/07/03           - Environmentally Sensitive Areas - DOE 22/10/04         Flore area and Priority Sensitive Areas - DOE 22/10/04           (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 at the site is a component of Beard	Methodology		Proposal Advice	(DoE Trim No	EI1844)			
Comments         Proposal is not likely to be at variance to this Principle           There are no known occurrences of Declared Rare Flora or Priority species within the local area (10km radius) of the area under application, it is unlikely to support viable populations of any species of conservation significance (CALM 2005).           Methodology         CALM (2005) Land Clearing Proposal Advice (DoE Trim No El1844) Site Visit (11 April 2005)           GIS Databases: - Declared Rare and Priority Flora List - CALM 13/08/03           Comments         Proposal is not likely to be at variance to this Principle No Threatened Ecological Community.           Comments         Proposal is not likely to be at variance to this Principle No Threatened Ecological Communities are recorded within 10km of the proposal (CALM 2005).           Methodology         CALM (2005) Land Clearing Proposal Advice (DoE Trim No El1844) GIS Databases: - Threatened Ecological Community Database - CALM 15/07/03 - Environmentally Sensitive Areas - DOE 22/10/04           (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 at the site is a component of Beard Vegetation Association 516 (Hopkins et al. 2001) of which the is 43.2% of the pre-European extent remaining (Shepherd et al. 2001) and therefore of Vesetorem for biodiversity conservation (Department of Natural Resources and Environment 2002). However, there is less than 30% of native vegetation storing in the agricultural area as defined by EPA Position Statement No. 2 (EPA 2000). The EPA's position on clearing in the agricultural area		re vegetation should not be cleared if it includes, or is necessary for the continued existence of,						
There are no known occurrences of Declared Rare Flora or Priority species within the local area (10km radius) of the area under application, it is unlikely to support viable populations of any species of conservation significance (CALM 2005).         Methodology       CALM (2005) Land Clearing Proposal Advice (DoE Trim No El1844) Site Visit (11 April 2005)         GIS Databases:       - beclared 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 Threatened Ecological Community are recorded within 10km of the proposal (CALM 2005).         Methodology       CALM (2005) Land Clearing Proposal Advice (DoE Trim No El1844) GIS Databases: - Threatened Ecological Community Database - CALM 15/07/03 - Environmentally Sensitive Areas - DOE 22/10/04         (e)       Native vegetation is the site is a component of Beard Vegetation Association 516 (Hopkins et al. 2001) of which the is 43.2% of the pre-European extent remaining (Shepherd et al. 2001) and therefore of least concern for biodiversity conservation (Department of Natural Resources and Environment 2002). However, there is less than 30% of native vegetation covering the bioregion and only 7.1% remaining in the Shire of Narembeen.         The property is located in the agricultural area as defined by EPA Position Statement No. 2 (EPA 2000). The EPA's position on clearing in the agricultural area as defined by EPA Position Statement No. 2 (EPA 2000). The EPA's position on original wegetation structure or an ecologically productive remnant.	signific	ant flora.						
Site Visit (11 April 2005)         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 Threatened Ecological Community are recorded within 10km of the proposal (CALM 2005).         Methodology       CALM (2005) Land Clearing Proposal Advice (DoE Trim No EI1844) GIS Databases: - Threatened Ecological Community Database - CALM 15/07/03 - Environmentally Sensitive Areas - DOE 22/10/04         (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 at the site is a component of Beard Vegetation Association 516 (Hopkins et al. 2001) of which the is 43.2% of the pre-European extent remaining (Shepherd et al. 2001) and therefore of least concern for biodiversity conservation (Department of Natural Resources and Environment 2002). However, there is less than 30% of native vegetation covering the bioregion and only 7.1% remaining in the Shire of Narembeen.         The property is located in the agricultural area as defined by EPA Position Statement No. 2 (EPA 2000). The EPA's position on 'clearing in the agriculture cannot be supported. However, the 5 ha under application is not in a single, sustainable patch but consists of linear strips tha have been severely grazed with little to no original understorey remaining. Annual weed and crop spacies have invaded mucho	Comments	There are no known occurrences of Declared Rare Flora or Priority species within the local area (10km radius) of the area under application (CALM 2005). Given the degraded and isolated nature of the area under						
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 Threatened Ecological Communities are recorded within 10km of the proposal (CALM 2005). Methodology CALM (2005) Land Clearing Proposal Advice (DoE Trim No El1844) GIS Databases: Threatened Ecological Community Database - CALM 15/07/03 Environmentally Sensitive Areas - DOE 22/10/04  (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 at the site is a component of Beard Vegetation Association 516 (Hopkins et al. 2001) of which the is 43.2% of the pre-European extent remaining (Shepherd et al. 2001) and therefore of least concern for biodiversity conservation (Department of Natural Resources and Environment 2002). However, there is less than 30% of native vegetation covering the bioregion and only 7.1% remaining in the Shire of Narembeen. The property is located in the agricultural area to agricultural purposes' is that any further reduction in native vegetation through clearing for agriculture cannot be supported. However, the 5 ha under application is not in a single, sustainable patch but consists of linear strips that have been severely grazed with liftle to no original understorey remaining. Annual weed and crop species have invaded much of the understorey leaving liftle representation of original vegetation structure or an ecologically productive remnant.  Pre-European Erea (ha) (ha) (%) Status*** managed land(%) BRA Bioregion - Mallee Association Status*** Managed land(%) BRA Bioregion - Mallee Association Status Association Status*** Managed land(%) BRA Bioregion - Mallee Association Status*** Managed land(%) BRA Bioregion - Mallee Association Status Association Sta	Methodology		Proposal Advice	e (DoE Trim No	EI1844)			
maintenance of a significant ecological community.           Comments         Proposal is not likely to be at variance to this Principle No Threatened Ecological Communities are recorded within 10km of the proposal (CALM 2005).           Methodology         CALM (2005) Land Clearing Proposal Advice (DoE Trim No El1844) GIS Databases: - Threatened Ecological Community Database - CALM 15/07/03 - Environmentally Sensitive Areas - DOE 22/10/04           (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 at the site is a component of Beard Vegetation Association 516 (Hopkins et al. 2001) of which the is 43.2% of the pre-European extent remaining (Shepherd et al. 2001) and therefore of least concern for biodiversity conservation (Department of Natural Resources and Environment 2002). However, there is less than 30% of native vegetation covering the bioregion and only 7.1% remaining in the Shire of Narembeen.           The property is located in the agricultural area for agricultural purposes is that any further reduction in native vegetation through clearing for agriculture area for agricultural purposes is that any further reduction in native vegetation but consists of linear strips that have been severely graced with lift to no original understorey remaining. Annual weed and crop species have invaded much of the understorey leaving little representation of original vegetation structure or an ecologically productive remnant.           Pre-European         Current extent Remaining (%)         Conservation Status***         In reserves/CALM managed land(%)			Flora List - CALN	M 13/08/03				
No Threatened Ecological Communities are recorded within 10km of the proposal (CALM 2005).         Methodology       CALM (2005) Land Clearing Proposal Advice (DoE Trim No EI1844) GIS Databases: <ul> <li>Threatened Ecological Community Database - CALM 15/07/03</li> <li>Environmentally Sensitive Areas - DOE 22/10/04</li> </ul> (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 at the site is a component of Beard Vegetation Association 516 (Hopkins et al. 2001) of which the is 43.2% of the pre-European extent remaining (Shepherd et al. 2001) and therefore of 'least concern' for biodiversity conservation (Department of Natural Resources and Environment 2002). However, there is less than 30% of native vegetation covering the bioregion and only 7.1% remaining in the Shire of Narembeen.         The property is located in the agricultural area as defined by EPA Position Statement No. 2 (EPA 2000). The EPA's position on 'clearing in the agricultureal area for agricultural purposes' is that any further reduction in native vegetation through clearing for agriculture area for agricultural purposes' is that any further reduction in native vegetation of original vegetation structure or an ecologically productive remnant.         Vere-European       Current extent Remaining (Anau Weed and crop species have invaded much of the understorey leaving little representation of original vegetation structure or an ecologically productive remnant.         IBRA Bioregion - Mallee*       4 130 281       806 971       19.5       Vulnerable Shire of Narembeen**					whole or a	part of, or is ne	ecessary for the	
GIS Databases:       - Threatened Ecological Community Database - CALM 15/07/03         - Environmentally Sensitive Areas - DOE 22/10/04         (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 at hesite is a component of Beard Vegetation Association 516 (Hopkins et al. 2001) of which the is 43.2% of the pre-European extent remaining (Shepherd et al. 2001) and therefore of least concern' for biodiversity conservation (Department of Natural Resources and Environment 2002). However, there is less than 30% of native vegetation at the agricultural area for agricultural purposes' is that any further reduction in native vegetation through clearing in the agricultural area for agricultural purposes' is that any further reduction in native vegetation through clearing for agriculture cannot be supported. However, the 5 ha under application is not in a single, sustainable patch but consists of linear strips that have been severely grazed with little to no original understorey remaining. Annual weed and crop species have invaded much of the understorey leaving little representation of original vegetation structure or an ecologically productive remnant.         Pre-European       Current extent Remaining       Conservation       In reserves/CALM managed land(%)         IBRA Bioregion - Mallee*       4130.281       806 971       19.5       Vulnerable         Shire of Narembeen**       379 894       26 993       7.1       Endangered         Beard Vegetation Association       516**	Comments					proposal (CALM 2	2005).	
- Environmentally Sensitive Areas - DOE 22/10/04  (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 at the site is a component of Beard Vegetation Association 516 (Hopkins et al. 2001) of which the is 43.2% of the pre-European extent remaining (Shepherd et al. 2001) and therefore of 'least concern' for biodiversity conservation (Department of Natural Resources and Environment 2002). However, there is less than 30% of native vegetation covering the bioregion and only 7.1% remaining in the Shire of Narembeen. The property is located in the agricultural area as defined by EPA Position Statement No. 2 (EPA 2000). The EPA's position on 'clearing in the agricultural area for agricultural purposes' is that any further reduction in native vegetation through clearing for agriculture cannot be supported. However, the 5 ha under application is not in a single, sustainable patch but consists of linear strips that have been severely grazed with little to no original understorey remaining. Annual weed and crop species have invaded much of the understorey leaving little representation of original vegetation structure or an ecologically productive remnant.  Pre-European Current extent Remaining Conservation In reserves/CALM Managed land(%) IBRA Bioregion - Mallee* 4 130 281 806 971 19.5 Vulnerable Shire of Narembeen** 379 894 26 993 7.1 Endangered Beard Vegetation Association 516** 1 541 361 666 416 43.2 Least concern 35.9  *Area within the Intensive Landuse Zone ** Shepherd et al. (2001)  *** Department of Natural Resources and Environment (2002)  Methodology Shepherd et al. (2001)	Methodology	GIS Databases:			,			
that has been extensively cleared.         Comments       Proposal is at variance to this Principle         The vegetation at the site is a component of Beard Vegetation Association 516 (Hopkins et al. 2001) of which the is 43.2% of the pre-European extent remaining (Shepherd et al. 2001) and therefore of 'least concern' for biodiversity conservation (Department of Natural Resources and Environment 2002). However, there is less than 30% of native vegetation covering the bioregion and only 7.1% remaining in the Shire of Narembeen.         The property is located in the agricultural area as defined by EPA Position Statement No. 2 (EPA 2000). The EPA's position on 'clearing in the agriculture cannot be supported. However, the 5 ha under application is not in a single, sustainable patch but consists of linear strips that have been severely grazed with little to no original understorey remaining. Annual weed and crop species have invaded much of the understorey leaving little representation of original vegetation structure or an ecologically productive remnant.         Pre-European       Current extent Remaining       Conservation       In reserves/CALM managed land(%)         IBRA Bioregion - Mallee*       4 130 281       806 971       19.5       Vulnerable         Shire of Narembeen**       379 894       26 993       7.1       Endangered         Beard Vegetation Association       516**       1 541 361       666 416       43.2       Least concern       35.9         *Area within the Intensive Landuse Zone         *** Department of Natural Resources and Environme		-	-		7/03			
The vegetation at the site is a component of Beard Vegetation Association 516 (Hopkins et al. 2001) of which the is 43.2% of the pre-European extent remaining (Shepherd et al. 2001) and therefore of least concern' for biodiversity conservation (Department of Natural Resources and Environment 2002). However, there is less than 30% of native vegetation covering the bioregion and only 7.1% remaining in the Shire of Narembeen.         The property is located in the agricultural area as defined by EPA Position Statement No. 2 (EPA 2000). The EPA's position on 'clearing in the agricultural area for agricultural purposes' is that any further reduction in native vegetation through clearing for agriculture cannot be supported. However, the 5 ha under application is not in a single, sustainable patch but consists of linear strips that have been severely grazed with little to no original understorey remaining. Annual weed and crop species have invaded much of the understorey leaving little representation of original vegetation structure or an ecologically productive remnant.         Pre-European Current extent Remaining Conservation In reserves/CALM Area (ha) (ha) (%)       In reserves/CALM managed land(%)         IBRA Bioregion - Mallee*       4 130 281       806 971       19.5       Vulnerable         Shire of Narembeen**       379 894       26 993       7.1       Endangered         \$16**       1 541 361       666 416       43.2       Least concern       35.9         *Area within the Intensive Landuse Zone       *** Shepherd et al. (2001)       **** Department of Natural Resources and Environment (2002)         Methodology       Shepherd et al. (2001)				significant as	s a remnan	t of native vege	etation in an area	
EPA's position on 'clearing in the agricultural area for agricultural purposes' is that any further reduction in native vegetation through clearing for agriculture cannot be supported. However, the 5 ha under application is not in a single, sustainable patch but consists of linear strips that have been severely grazed with little to no original understorey remaining. Annual weed and crop species have invaded much of the understorey leaving little representation of original vegetation structure or an ecologically productive remnant.         Pre-European       Current extent Remaining       Conservation       In reserves/CALM         Area (ha)       (ha)       (%)       Status***       managed land(%)         IBRA Bioregion - Mallee*       4 130 281       806 971       19.5       Vulnerable         Shire of Narembeen**       379 894       26 993       7.1       Endangered         Beard Vegetation Association       516**       1 541 361       666 416       43.2       Least concern       35.9         *Area within the Intensive Landuse Zone       ** Shepherd et al. (2001)       ****       Department of Natural Resources and Environment (2002)	Comments	The vegetation at the site is a component of Beard Vegetation Association 516 (Hopkins et al. 2001) of which there is 43.2% of the pre-European extent remaining (Shepherd et al. 2001) and therefore of 'least concern' for biodiversity conservation (Department of Natural Resources and Environment 2002). However, there is less than						
Area (ha)       (ha)       (%)       Status***       managed land(%)         IBRA Bioregion - Mallee*       4 130 281       806 971       19.5       Vulnerable         Shire of Narembeen**       379 894       26 993       7.1       Endangered         Beard Vegetation Association       516**       1 541 361       666 416       43.2       Least concern       35.9         *Area within the Intensive Landuse Zone       ** Shepherd et al. (2001)       *** Department of Natural Resources and Environment (2002)       Methodology       Shepherd et al. (2001)		EPA's position on 'clearing in the agricultural area for agricultural purposes' is that any further reduction in na vegetation through clearing for agriculture cannot be supported. However, the 5 ha under application is not single, sustainable patch but consists of linear strips that have been severely grazed with little to no original understorey remaining. Annual weed and crop species have invaded much of the understorey leaving little				ner reduction in native application is not in a ttle to no original		
IBRA Bioregion - Mallee*       4 130 281       806 971       19.5       Vulnerable         Shire of Narembeen**       379 894       26 993       7.1       Endangered         Beard Vegetation Association       516**       1 541 361       666 416       43.2       Least concern       35.9         *Area within the Intensive Landuse Zone       ** Shepherd et al. (2001)       ***       Department of Natural Resources and Environment (2002)         Methodology       Shepherd et al. (2001)       ***					-			
Shire of Narembeen**       379 894       26 993       7.1       Endangered         Beard Vegetation Association       516**       1 541 361       666 416       43.2       Least concern       35.9         *Area within the Intensive Landuse Zone       ** Shepherd et al. (2001)       *** Department of Natural Resources and Environment (2002)         Methodology       Shepherd et al. (2001)       5		IBRA Bioregion - Mallee*						
Beard Vegetation Association         516**       1 541 361       666 416       43.2       Least concern       35.9         *Area within the Intensive Landuse Zone         ** Shepherd et al. (2001)         *** Department of Natural Resources and Environment (2002)         Methodology         Shepherd et al. (2001)		-						
516**       1 541 361       666 416       43.2       Least concern       35.9         *Area within the Intensive Landuse Zone         ** Shepherd et al. (2001)       *** Department of Natural Resources and Environment (2002)         Methodology       Shepherd et al. (2001)								
<ul> <li>** Shepherd et al. (2001)</li> <li>*** Department of Natural Resources and Environment (2002)</li> <li>Methodology Shepherd et al. (2001)</li> </ul>				666 416	43.2	Least concern	35.9	
Methodology Shepherd et al. (2001)		** Shepherd et al. (2001)		vironment (2002	2)			
	Mothedology				-,			
Department of Natural Resources and Environment (2002)	methodology	Hopkins et al. (2001) Department of Natural Resources and Environment (2002)						
		GIS Databases: - Pre-European Vegetation - DA 01/01						
- Fre-European vegetation - DA 01/01 - Interim Biogeographic Regionalisation of Australia - EA 18/10/00 - EPA Position Paper No 2 Agriculture Region - DEP 12/00		- Interim Biogeographic Regionalisation of Australia - EA 18/10/00						
Page 2								

	vegetation should not be cleared if it is growing in, or in association with, an environment ated with a watercourse or wetland.
Comments	Proposal is not at variance to this Principle
	There are no watercourses or wetlands within or associated with the area of the proposal.
Methodology	Site visit (11 April 2005) GIS Databases: - Hydrography, linear - DOE 01/02/04 - Hydrographic Catchments - Catchments DOE 3/4/03
	vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable gradation.
Comments	<b>Proposal is not likely to be at variance to this Principle</b> DAWA (2005) advise that the proposed clearing of approximately 5 hectares of native vegetation on Avon Location 27447 for grazing and pasture is not likely to cause appreciable on site and off site land degradation.
	Three contour banks are in place to mitigate soil erosion.
Methodology	Site visit (11 April 2005) DAWA (2005) (DOE TRIM Ref NI 1000)
	vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on vironmental values of any adjacent or nearby conservation area.
Comments	<b>Proposal is not likely to be at variance to this Principle</b> The North Karlgarin Nature Reserve is the only CALM managed conservation reserve within the local area (10km radius) of the area under application (CALM 2005). However, being >5km from the area under application, it is considered that the clearing as proposed would not have a significant impact based on the scale and nature of the clearing (CALM 2005).
Methodology	CALM (2005) Land Clearing Proposal Advice (DoE Trim No El1844)
	vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration quality of surface or underground water.
Comments	<b>Proposal is not likely to be at variance to this Principle</b> The area subject to this proposal has an average annual rainfall of 350mm and an evaporation rate of 2200mm per annum. This area has very little surface flow with the exception of intensive rainfall events and above average seasonal rainfall. The locally high topography of this site should result in any surface water leaving the site being relatively fresh. The high evaporation rate, the small size of the clearing proposal (5ha) combined with the lineal nature of the clearing should result in minimal recharge to groundwater. Regional groundwater at this site is saline and ranges between 7 000 and 14 000 mg/l.
Methodology	Site visit (11 April 2005) GIS Databases: - Evaporation Isopleths - BOM 09/98 - Isohyets - BOM 09/98 - Hydrography, linear - DOE 01/02/04 - Topographic Contours, Statewide - DOLA 12/09/02 - Groundwater Salinity, Statewide - 22/02/00
	vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the nce of flooding.
Comments	<b>Proposal is not likely to be at variance to this Principle</b> The vegetation subject to this proposal is located adjacent to contour banks that have been implemented for surface water management purposes. Contour banks are designed to slow down surface water sheet flow. Given that the local area has high evaporation rates and low annual rainfall, that the area to be cleared is small (5ha) and that surface water management controls have been implemented it is extremely unlikely that flooding is likely to be caused as a result of this proposal.
Methodology	Site visit (11 April 2005) GIS Databases: - Evaporation Isopleths - BOM 09/98 - Isohyets - BOM 09/98 - Hydrography, linear - DOE 01/02/04 - Topographic Contours, Statewide - DOLA 12/09/02

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

#### Comments

The Shire of Narembeen has no objection to the issuing of a permit for the clearing of 5ha on Location 27447. Methodology Shire of Narembeen (2005) (DOE TRIM Ref NI 1045)

## 4. Assessor's recommendations

Purp	oose	Method	Applied area (ha)/ trees	Decision	Comment / recommendation
Grazi Pastu	5	Mechanica Removal	5	Grant	The assessable criteria have been addressed and the clearing as proposed is at variance to Principle e.
					For Principle e, the vegetation representation within the Mallee bioregion (and the Shire) is lower than the 30% minimum committed to by the State Government in the National Objectives and Targets for Biodiversity Conservation (Department of Natural Resources and Environment 2002, EPA 2000). However, given the degraded nature of the vegetation under application, it is unlikely to be an ecologically productive remnant of vegetation. Therefore, the assessing officer recommends that the permit should be granted.

### 5. References

AGPS (2001) The national objective and targets for biodiversity conservation 2001-2005. Commonwealth of Australia, Canberra.

- 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 El1844.
- DAWA Land degradation assessment advice. Office of the Commissioner of Soil and Land Conservation, Department of Agriculture Western Australia. DoE TRIM ref NI 1000.

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.

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.

Shire of Narembeen (2005) Submission. DOE TRIM Ref NI 1045.