

## **Clearing Permit Decision Report**

1. Application	on details							
1.1. Permit	application de	etails						
Permit application Permit type:	on No.:	119/1 Area Permit		_				
1.2. Propon Proponent's nam Postal address: Contacts:	ent details ne:	James William Po Box 271 Bus Phone: Fax: E-mail:	<b>Deale - Trust</b> selton WA 62 9754 2462 9754 2464 info@traveljo	t <b>ee - James William T</b> 80 y.com.au	rust			
1.3. Propert Property:	ty details	Lot 1133 on Plar Lot 57 on Plan 2 Lot 2844 on Plar	Lot 1133 on Plan 103535 (Lot No. 1133 Bussell Ludlow 6280) Lot 57 on Plan 230891 (Lot No. 57 Bussell Ludlow 6280) Lot 2844 on Plan 254971 (Ludlow 6280)					
Colloquial name: Local Government Area: Shire of Capel							Formatted	
1.4. Applica Clearing Area (ha	ation a) No. T	rees Method	d of Clearing	For the purpos	e of:			
10	50	Mecha	inical Remova	al Horticulture				
2. Site Inform	mation							
<ol> <li>Existing</li> <li>I. Descrip</li> <li>Vegetation Descrip</li> <li>Soil-landscape matantzke (1990) sh cleared mostly occ</li> <li>Cokelup Subsyster</li> <li>Plain system abut system (Ludlow si map units are sho</li> <li>CKw - Cokelup wa</li> <li>Paperbark-flooded barley grass flats.</li> <li>CKv - Cokelup val flooded gum wood</li> <li>LD1 - Ludlow flats</li> <li>forest and woodla</li> <li>Assessment</li> </ol>	g environmen tion of the nati ription apping of Tille and hows the area to be curring on the em where the Abba ts the Spearwood ubsystem). Three wm: et clayey flats : d gum woodland a les: Paperbark- dland. s: Tuart-peppermin ind. ent of applica	t and information ve vegetation un Clearing Desc Medium forest and/or Marri/ L a woodland, ban forest, tea tree spp.). Mattiske Cons Ludlow Lw Lv tion against cle	on oder application toription tosaic; , Jarrah .ow kissia/ Low (Melaleuca ulting thing princ	ion Vegetation Condition Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	Comment No site visit was undertaken by the De of Agriculture or Department of Environ representatives. A consultant's report on the soils and o (Wise 2004) was provided by the prop Soil samples were taken from the prop visually and hand textured examined a Bunbury Office of the Department of A on a previous occasion.	partment nment capability onent. erty and it the griculture		
(a) Native ve	egetation shou	uld not be clear	ed if it com	prises a high level	of biological diversity.			
Comments	Comments Proposal is not at variance to this Principle No information was provided to enable an in depth assessment against this Principle. Given the condition of the vegetation, it is highly unlikely that the proposal would be at variance with this Principle.							
Methodology								
(b) Native ve maintena	getation shou nce of, a sign	Ild not be cleare	ed if it comp or fauna inc	prises the whole or digenous to Wester	a part of, or is necessary for t m Australia.	he		
Comments         Proposal is not likely to be at variance to this Principle           No information was provided to enable an in depth assessment against this Principle. However, given the condition of the vegetation, it is unlikely to provide a significant habitat for fauna.								
Methodology								
						Page 1		

signific									
Comments	<b>Proposal is not likely to be at variance to this Principle</b> There are thirty three Declared Rare (DRF) and Priority Listed flora species in the local area (defined as a 10km radius).								
	There are ten DRF (extant taxa), five Priority 1 species, three Priority 2 species, seven Priority 3 species, seven Priority 4 species and 1 species with No Data.								
	The closest specimen was recorded ~500m southwest of the proposed clearing.								
	Given the condition of the	vegetation, it is un	likely that the	area is significa	nt for flora.				
Methodology	CALM Declared Rare and Priority Flora List databases.								
(d) Native mainter	vegetation should not k nance of a significant e	be cleared if it co cological comm	omprises the unity.	e whole or a p	part of, or is neces	ssary for the			
Comments	Proposal is not likely There are 14 Threatened 2.8km southeast of the pr closest 4.1km from the pr	to be at variance Ecological Commu oposed clearing. T oposed clearing.	e to this Prin nities within th here are five	<b>nciple</b> ne local area (de Threatened Plar	fined as a 10km radi at Communities in the	ius), the closest e local area, the			
	There is unlikely to be an	impact on TEC give	en the degrad	ed nature of the	vegetation.				
Methodology	CALM Threatened Ecolog	jical Community da	tabase; DEP <sup>-</sup>	Threatened Plar	nt Communities data	base.			
(e) Native	vegetation should not b	be cleared if it is	significant	as a remnant	of native vegetat	ion in an area			
comments	<ul> <li>Proposal is not at variance to this Principle</li> <li>The property has approximately 8.2 hectares (13%) of native vegetation remaining, and if implemented, this clearing proposal will leave 6.7% remaining.</li> <li>Beard vegetation unit 1000 has been extensively cleared, and only 24.6% of the pre-European extent remains. Additionally, two vegetation complexes (as identified by Mattiske consulting) have already become extinct.</li> </ul>								
	clearing proposal will leav Beard vegetation unit 100 Additionally, two vegetatic	<ul><li>6.7% remaining.</li><li>0 has been extension complexes (as ic</li></ul>	ively cleared, a lentified by Ma	and only 24.6% attiske consultin	of the pre-European g) have already becc	extent remains. ome extinct.			
	Beard vegetation unit 100 Additionally, two vegetation However, the vegetation p remaining.	e 6.7% remaining. 0 has been extensi on complexes (as ic proposed for clearir	ively cleared, lentified by Ma ng appears to	and only 24.6% attiske consultin be paddock tree	of the pre-European g) have already becc es with no intact vege	extent remains. me extinct. etation communities			
	Beard vegetation unit 100 Additionally, two vegetation However, the vegetation p remaining.	e 6.7% remaining. 0 has been extension complexes (as ic proposed for clearin Pre-European area (ha)	ively cleared, i lentified by Ma ng appears to Current extent (ha)	and only 24.6% attiske consultin be paddock tree Remaining %*	of the pre-European g) have already becc es with no intact vege Conservation status**	extent remains. ome extinct. etation communities Reserves/CALM- managed land, %			
	Beard vegetation unit 100 Additionally, two vegetation However, the vegetation p remaining.	e 6.7% remaining. 0 has been extension complexes (as ic proposed for clearin Pre-European area (ha) 1 498 297***	ively cleared, i lentified by Ma ng appears to Current extent (ha) 626 512	and only 24.6% attiske consultin be paddock tree Remaining %* 41.8	of the pre-European g) have already becc as with no intact vege Conservation status** Depleted	extent remains. ome extinct. etation communities Reserves/CALM- managed land, %			
	IBRA Bioregion -Swan Coastal Plain Shire - Capel	e 6.7% remaining. 0 has been extension complexes (as ic proposed for clearin Pre-European area (ha) 1 498 297*** 55 869	ively cleared, i lentified by Ma ng appears to Current extent (ha) 626 512 20 059	and only 24.6% attiske consultin be paddock tree Remaining <u>%*</u> 41.8 35.9	of the pre-European g) have already becc es with no intact vege Conservation status** Depleted Depleted	extent remains. ome extinct. etation communities Reserves/CALM- managed land, %			
	Beard vegetation unit 100 Additionally, two vegetation However, the vegetation p remaining. IBRA Bioregion -Swan Coastal Plain Shire - Capel Beard Unit 1000	e 6.7% remaining. 0 has been extension complexes (as ic proposed for clearin Pre-European area (ha) 1 498 297*** 55 869 119 340	ively cleared, i lentified by Ma ng appears to Current extent (ha) 626 512 20 059 29 396	and only 24.6% attiske consultin be paddock tree Remaining %* 41.8 35.9 24.6	of the pre-European g) have already becc as with no intact vege Conservation status** Depleted Depleted Vulnerable	extent remains. ome extinct. etation communities Reserves/CALM- managed land, %			
	Clearing proposal will leav Beard vegetation unit 100 Additionally, two vegetation However, the vegetation p remaining. IBRA Bioregion -Swan Coastal Plain Shire - Capel Beard Unit 1000 Mattiske Consulting CO1 Ludlow Lv	e 6.7% remaining. 0 has been extension complexes (as icoroposed for clearing Pre-European area (ha) 1 498 297*** 55 869 119 340 1 869 -	ively cleared, i dentified by Ma ng appears to Current extent (ha) 626 512 20 059 29 396 0	and only 24.6% attiske consultin be paddock tree Remaining %* 41.8 35.9 24.6 0 -	of the pre-European g) have already becc as with no intact vege Conservation status** Depleted Depleted Vulnerable Presumed extinct Presumed extinct	extent remains. ome extinct. etation communities Reserves/CALM- managed land, %			
	Image: Proposity has approximately proposed will leave clearing proposed will leave clearing proposed will leave clearing proposed with the second clear cl	e 6.7% remaining. 0 has been extension complexes (as id proposed for clearin Pre-European area (ha) 1 498 297*** 55 869 119 340 1 869 - Resources and En anduse Zone	ively cleared, i lentified by Ma ng appears to Current extent (ha) 626 512 20 059 29 396 0 - vironment 200	and only 24.6% attiske consultin be paddock tree Remaining %* 41.8 35.9 24.6 0 -	of the pre-European g) have already becc as with no intact vege Conservation status** Depleted Depleted Vulnerable Presumed extinct Presumed extinct	extent remains. ome extinct. etation communities Reserves/CALM- managed land, %			
Methodology	Image: Proposal will be proposal will leave clearing proposal will leave clearing proposal will leave clearing proposal will leave clear	e 6.7% remaining. 0 has been extension complexes (as id proposed for clearin Pre-European area (ha) 1 498 297*** 55 869 119 340 1 869 - Resources and En anduse Zone Department of Naturiconsulting 1998; Shi	ively cleared, i dentified by Ma ng appears to Current extent (ha) 626 512 20 059 29 396 0 - vironment 200 ral Resources iepherd et al. 2	and only 24.6% attiske consultin be paddock tree Remaining %* 41.8 35.9 24.6 0 - 02) 22) and Environme 2001)	of the pre-European g) have already becc as with no intact vege Conservation status** Depleted Depleted Vulnerable Presumed extinct Presumed extinct	extent remains. ome extinct. etation communities Reserves/CALM- managed land, % 0			
Methodology (f) Native	IBRA Bioregion -Swan Coastal Plain Shire - Capel Beard Unit 1000 Mattiske Consulting CO1 Ludlow Lv * (Shepherd et al. 2001) ** (Department of Natural *** Within the Intensive La Mapping based on GIS (D Mattiske 2002; Mattiske Consulting CO1 Ludlow	e 6.7% remaining. 0 has been extension complexes (as iconoposed for clearing Pre-European area (ha) 1 498 297*** 55 869 119 340 1 869 - Resources and En anduse Zone Department of Natures and Entantistic State (State (	ively cleared, i dentified by Ma ng appears to Current extent (ha) 626 512 20 059 29 396 0 - vironment 200 ral Resources repherd et al. 2 growing in	and only 24.6% attiske consulting be paddock tree Remaining %* 41.8 35.9 24.6 0 - 02) and Environme 2001)	of the pre-European g) have already becc as with no intact vege <u>Conservation</u> status** Depleted Depleted Vulnerable Presumed extinct Presumed extinct ation with, an envi	extent remains. ome extinct. etation communities Reserves/CALM- managed land, % 0 0 Havel and ironment			
Methodology (f) Native associa Comments	IBRA Bioregion Additionally, two vegetation However, the vegetation premaining. IBRA Bioregion -Swan Coastal Plain Shire - Capel Beard Unit 1000 Mattiske Consulting CO1 Ludlow Lv * (Shepherd et al. 2001) ** (Department of Natural *** Within the Intensive La Mapping based on GIS (D Mattiske 2002; Mattiske Co vegetation should not batted with a watercourse Proposal is at variance The proposed clearing is a multiple use. Additionally at variance with this Princ significant additional impa	e 6.7% remaining. 0 has been extension complexes (as id proposed for clearing Pre-European area (ha) 1 498 297*** 55 869 119 340 1 869 - Resources and En anduse Zone Department of Natur consulting 1998; Sh be cleared if it is or wetland. the to this Princip almost entirely with the remaining tree iple, the condition of to on this wetland	ively cleared, i dentified by Ma ag appears to Current extent (ha) 626 512 20 059 29 396 0 - vironment 200 ral Resources iepherd et al. 2 <b>growing in</b> s are in poor h of the vegetation	and only 24.6% attiske consulting be paddock tree Remaining %* 41.8 35.9 24.6 0 - 02) and Environme 2001) , or in associa n Geomorphic w nealth (Wise, 20) on is degraded a	of the pre-European g) have already becc as with no intact vege Conservation status** Depleted Depleted Vulnerable Presumed extinct Presumed extinct ation with, an envious vetland. This wetland O4). Therefore, while and clearing is unlike	extent remains. ome extinct. etation communities Reserves/CALM- managed land, % 0 Havel and ironment d is classified as e the proposal is ely to have a			

	A RAMSAR wetland (Vasse Wonnerup System) is situated 2.8km west of the proposed clearing. An ANCA wetland (McCarleys Swamp or Ludlow Swamp), an Environmentally Sensitive Area, lies 689m NE of the proposed clearing. Additionally, another ANCA wetland (Vasse Wonnerup) lies 2.4km to the west.
	There is a major perennial watercourse (5th order) 35m west of the proposed clearing.
	There are 23 EPP Lakes within the local area (defined as a 10km radius). The closest lake was 283m east of the proposed clearing.
Methodology	CALM ANCA wetlands database; DEP EPP lakes database; DoE Environmentally Sensitive Areas database; DoE Geomorphic Wetlands (Mgt Categories), SCP databases; DoE Hydrography Linear databases; Wise (2004).
(g) Native	vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable
Comments	Proposal is not at variance to this Principle While some areas of salinity have been identified on the Cokelup subsystem, Wise (2004) found salinity levels on the property to be low (EC 7 mS/m). It is highly unlikely that the removal of the scattered trees would have any significant impact on salinity.
	There is a low risk (class 2) of shallow acid sulphate soils (or PASS) within the proposed clearing area and in the north west corner of the proposed clearing, there is an occurrence of no known risk (class 3) shallow acid sulphate soils (or PASS).
	Most of the sites examined by John Wise were well to relatively well drained when examined in the middle of July. This is due to their slightly elevated position. Two poorly drained depressions were identified; one of these appears to coincide with part of the northern area proposed for clearing.
	According to the DEM generated slope maps most of the proposed cleared has slope gradients of 0-2%, with a few small areas of 2-3%. There is unlikely to be any significant erosion on these areas. The sandy topsoils appear to have a high organic matter content and are not likely to be especially prone to wind erosion. While there is always some risk with sandy soils, this can be overcome with suitable management.
	While the broad scale mapping of Tille and Lantzke would suggest that much of the property consists of Cokelup wet flats with a poor capability for agricultural uses, the consultant's report (Wise, 2004) demonstrates that the soils in these areas are different. Wise concludes that most of the property is suitable for grazing and turf farming, with some areas suited to year round vegetable production. The soil profile descriptions in the report and the soil samples viewed at the Bunbury Office provide support for this conclusion, with relatively well drained sandy and loamy profiles covering much of the property.
	The removal of the trees is unlikely to have any significant impact on land degradation. Only scattered trees are present and Wise reports these are in poor condition.
Methodology	DAWA report (2004); DoE Acid Sulfate Soil Risk Map, SCP; DOLA salinity risk databases; Wise (2004).
(h) Native the env	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	<b>Proposal is not likely to be at variance to this Principle</b> The Ludlow Tuart Forest (System 1) lies 100m to the west and 1.9km north of the proposed clearing.
	The Ludlow State Forest (identified as an Environmental Sensitive Area as it is a Registered National Estate - Ludlow Wonnerup Area) is located 95m west of the proposed clearing.
	The Coolilup State Forest is situated 167m south-east of the proposed clearing.
	Given the degraded state of the vegetation, clearing is unlikely to impact on other conservation areas.
Methodology	CALM Managed Lands and Waters Database; DEP System 1-5 and 7-12 Areas database; Doe Environmentally Sensitive Areas Database; EA Register of National Estate database.
(i) Native in the q	vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration juality of surface or underground water.
Comments	Proposal is not likely to be at variance to this Principle The proposed clearing is within Vasse Wonnerup Estuary (Busselton Coast), Hydrographic Catchment.
	The risk of nutrient export is largely related to waterlogging. The brown coloured loamy sands and sandy loamy Page :

		topsoils should have 108 from a compo- would be effective	ve reasonably g site of topsoil s at reducing the	good phosphorous retention properties. Wise (2004) reports a PRI value of amples. This is a high value. The clayey subsoils have a similar PRI (96) and a leaching of nitrogen.
		The main risk of nu potential for nutrien may also be some horizon. The low	utrient export w nts to be expor possibility of n slope gradients	rould be in areas subject to waterlogging. On the heavier soils there is some ted via overland flow before they become incorporated into the soil. There itrogen loss in lateral through flows through the sandy topsoils above the clay s would tend to reduce these potential nutrient losses.
		The main degrada drained depression available on the el- farm on these well	tion concern we ns identified by evated areas ir drained soils s	ould relate to nutrient export in areas of poor drainage. While the poorly Wise would not be suitable locations for the turf farm, there is sufficient land the south and north-west of the property. With suitable management, a turf should not present significant risk of nutrient export.
		The adoption of go regular testing of s fertigation). A well application of wate given to increasing drainage does not	ood fertiliser ma coil nutrient leve designed irriga er would increas the width of th increase flows	anagement practices would be necessary. These practices should include els and the application of fertilisers in small, regular doses (eg. through ation system would also help reduce the risk of nutrient leaching as over se the risk of waterlogging and nutrient leaching. Consideration could also be ne vegetative buffer along the Ludlow River and ensuring that any artificial into the river.
Methodol	logy	DAWA report (200	4); DoE Hydrog	graphic Catchments Database.
(j) Na inc	tive ve idenc	egetation should e of flooding.	d not be clea	red if clearing the vegetation is likely to cause, or exacerbate, the
Commen	ts	Proposal is not Due to its scale, flo	at variance f	to this Principle are unlikely to occur as a result of the proposed clearing.
Methodol	logy			
k) Pla	nning	instrument or o	other matter.	
Commen	ts	No comment made	Э.	
Nethodol	logy			
4. Ass	sessor	's recommenda	tions	
The recon assessme such othe	nmenda ent by ea r agenc	tions of the Departm ach of the agencies. ies as required.	ent of Environme Any conditions o	ent to the CEO of the Department should be made consistent with the outcomes of the in the approval should also be outlined. These may be developed in consultation with
Purpose	Metho	od Applied	Decision	Comment / recommendation
lorticulture	Mechar Remov	nical 10 50 al	Grant	Recommend that the permit is granted.
				The remaining native vegetation associations in this area appear to have been previously cleared (Mattiske being the most up to date indicates that the Ludlow association has 0% remaining) resulting in scattered paddock trees. The geomorphic wetland on the property is multiple use and has been cleared of understorey for farming purposes in the past.
				It is recommended that you fence and replant native species along the river to the west to provide a buffer to the proposed activities on the property.
5. Ref	erenc	es		
Departm Departm	ent of / 2308 ent of I at mi	Agriculture WA (20 91, James Deale. Natural Resources Jltiple scales; catch	04) Application Unpublished R and Environment bioregion	I for Clearing Permit CPS 119/1 Sussex Location 57on Deposited Plan eport. Department of Environment Reference: TRIM SWO 22344 ent (2002) Biodiversity Action Planning. Action planning for native biodiversity nal, landscape, local. Department of Natural Resources and Environment,
EPA (200	Victo 00) Env refer	ria. vironmental protect ence to the agricul Mattisko Consultin	tion of native ve tural area. Posi	egetation in Western Australia. Clearing of native vegetation, with particular ition Statement No. 2. December 2000. Environmental Protection Authority.
Hill, A.L.,	comp , Seme	blexes, Conservation nuik, C. A, Semen	on Commission uik, V. Del Mar	c, A. (1996) Wetlands of the Swan Coastal Plain. Volume 2b, Wetland Wetland Atlas WRC and DEP. Parth WA
Hopkins, Keigherv	A.J.M. CALI . BJ (1	, Beeston, G.R. ar NScience after J. \$ 994) Bushland Pla	and evaluation ad Harvey J.M. S. Beard, late 1 nt Survey: A G	(2001) A database on the vegetation of Western Australia. Stage 1. 960's to early 1980's Vegetation Survey of Western Australia, UWA Press. uide to Plant Community Survey for the Community. Wildflower Society of WA
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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.
Tille, P.J. and Lantzke, N.J. (1990) Busselton-Margaret River-Augusta land capability study. Western Australian Department of Agriculture, Land Resources Series No. 5
Wise, J.L. (2004). Agricultural Assessment. Proposed Lot 302 of Stirling Loc. 1133. Tuart Drive, Wonnerup. Local Authority, Capel. John Wise Consultancy Pty. Ltd.

Page 5