



## 1. Application details

### 1.1. Permit application details

Permit application No.: 2777/1  
 Permit type: Purpose Permit

### 1.2. Proponent details

Proponent's name: MR Brad Fish Busselton Civil and Plant Hire

### 1.3. Property details

Property: LOT 1 ON DIAGRAM 21157 (House No. 455 KALOORUP VASSE 6280)  
 Local Government Area: Shire Of Busselton  
 Colloquial name:

### 1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.003		Mechanical Removal	Road construction or maintenance

## 2. Site Information

### 2.1. Existing environment and information

#### 2.1.1. Description of the native vegetation under application

Vegetation Description	Clearing Description	Vegetation Condition	Comment
Beard Vegetation ✓ Association: (27) 27 is described as low woodland; paperbark (Melaleuca sp.) Shepherd et al. (2001)	The area under application is in a degraded condition (Keighery, 1994) consisting of predominantly Marri (Corymbia calophylla) with some young Peppermint trees (Agonis flexuosa) over mixed herbs and shrubs including Acacia pulchella var. pulchella (prickly moses), Thelymitra sp., Bossiaea ornata, Hibbertia hypericoides, Leucopogon propinquus, Scaevola calliptera, Gompholobium knightianum and Agrostocrinum hirstum with Mesomelaena tetragona (Semaphore sedge) and Lomandra sp. in the understorey closer to the southern boundary fence of Lot 1. Roadside Vegetation.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The vegetation condition and description has been determined from Aerial Imagery and a DEC Site Visit conducted November 2008.
Mattiske Vegetation Association: (Ad) & (Af) ABBA (Ad) : Woodland of Corymbia calophylla (Marri) - Agonis flexuosa (Peppermint) - Allocasuarina fraseriana (Sheoak) - Nuytsia floribunda (WA Christmas Tree) on mild slopes in the humid zone. ABBA (Af) : Open forest of Corymbia calophylla (Marri) - Agonis flexuosa (Peppermint) - Acacia saligna (Orange Wattle) on lower slopes in the humid zone. Mattiske Consulting (1998)	(This description is merged into the first row's clearing description for brevity and accuracy)	(This description is merged into the first row's clearing description for brevity and accuracy)	(This description is merged into the first row's clearing description for brevity and accuracy)

## 3. Assessment of application against clearing principles

### Comments

It is proposed to selectively clear 0.003ha of native vegetation for the purpose of road widening. The area is considered to be in a degraded (Keighery, 1994) condition (DEC, 2008).

Rare flora species *Chamelaucium roycei* is located 240m south west on Kaloorup Road Reserve. This species is described as "Bushy shrub, 0.3 to 1.5 m high. Fl. white, pink, Aug to Dec." and occurs within "Sandy clay, clay, lateritic soils. Winter-wet flats, swamps, stream banks" (FloraBase, 2008).

A number of weed species were identified within the applied clearing areas. No declared rare or priority flora species were recorded during a DEC site visit (DEC, 2008).



The area under application is within a dieback risk area and is adjacent large intact remnants. Therefore there is a risk of the phytophthora disease spreading. Additionally, there is a risk of weeds spreading into the large intact remnants via the clearing disturbance. Dieback and weed conditions will be placed on the Permit to mitigate these potential impacts.

Given the degraded condition (Keighery, 1994) and small area applied to be cleared the clearing is not likely to impact on biodiversity, flora and fauna, land degradation or environmental water values within the local or regional context.

**Methodology** DEC (2008)  
 Florabase (2008)  
 Mattiske Consulting (1998)  
 Shepherd (2006)  
 Shepherd et al (2001)  
 GIS Layers:  
 - Busselton 50cm Orthomosaic - DLI04  
 - CALM Managed Lands and Waters - CALM 01/06/05  
 - DEFL SAC Bio Datasets (12/05/08)  
 - Interim Biogeographic Regionalisation of Australia - EA 18/10/00  
 - Mattiske Vegetation - CALM 1/03/1998  
 - Pre European Vegetation - DA 01/01  
 - Threatened Fauna, SAC Bio Datasets (12/05/08)

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

##### Comments

Three sections within the area under application are within the Koorup Road Reserve, however one section within the area in question is within Lot 1 on Diagram 21157, and the Town Planning Scheme for this section is zoned as General Farming.

**Methodology** GIS Database: - Town Planning Scheme Zones - MFP 31/08/98

#### 4. Assessor's comments

##### Comment

The application has been assessed against the clearing principles, planning instruments and other matters in accordance with s510 of the Environmental Protection Act 1986, and the proposed clearing is not likely to be at variance to any of the Principles.

#### 5. References

- DEC (2008) FloraBase - Flora Species Profile: . Accessed at <http://florabase.dec.wa.gov.au/search/advanced>. Accessed 21 October 2008. Department of Environment and Conservation, 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, 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: Melbourne.
- 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.

#### 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)

