



## **CLEARING PERMIT**

*Granted under section 51E of the Environmental Protection Act 1986*

### **PERMIT DETAILS**

Area Permit Number: 4788/1

File Number: 21186

Duration of Permit: From 11 January 2012 to 11 January 2014

### **PERMIT HOLDER**

William Allen Higginson

Jean Higginson

### **LAND ON WHICH CLEARING IS TO BE DONE**

Lot 597 on Plan 202759, BALDIVIS

Lot 782 on Plan 202759, BALDIVIS

### **AUTHORISED ACTIVITY**

The Permit Holder shall not clear more than 0.5 hectares of native vegetation within the area hatched yellow on attached Plan 4788/1.

### **CONDITIONS**

#### **1. Avoid, minimise etc clearing**

In determining the amount of native vegetation to be cleared authorised under this Permit, the Permit Holder must have regard to the following principles, set out in order of preference:

- (a) avoid the clearing of native vegetation;
- (b) minimise the amount of native vegetation to be cleared; and
- (c) reduce the impact of clearing on any environmental value.

M G Warnock  
A/MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

*Officer delegated under Section 20  
of the Environmental Protection Act 1986*

10 January 2012

# Plan 4788/1



## LEGEND

- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li> Road Centrelines</li> <li><b>Cadastre for labelling</b></li> <li> Freehold</li> <li> Crown Reserve</li> <li> State Forest / Timber Reserve</li> <li> Marine Park (cont)</li> </ul> | <ul style="list-style-type: none"> <li> Crown Lease</li> <li> Lease / Reserve</li> <li> Lease on State Forest / Timber Reserve</li> <li> Public Roads</li> <li> Unallocated Crown Land</li> <li> Water</li> </ul> <p><b>Perth Metropolitan Central<br/>20cm Orthomosaic - Landgate<br/>2009</b></p> | <p><b>Clearing Instruments</b></p> <ul style="list-style-type: none"> <li> Areas Applied to Clear</li> <li> Areas Subject to Conditions</li> <li> Areas Approved to Clear</li> </ul> |
|--|---|--|



0 62 m

Scale 1:2232  
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

*M G Warnock* Date 10/1/12

M G Warnock

Officer with delegated authority under Section 20 of the Environmental Protection Act 1986

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



**Department of Environment and Conservation**

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## 1. Application details

### 1.1. Permit application details

Permit application No.: 4788/1  
Permit type: Area Permit

### 1.2. Proponent details

Proponent's name: William Allen and Jean Higginson

### 1.3. Property details

Property: LOT 597 ON PLAN 202759 (House No. 28 JARVIS BALDIVIS 6171)  
LOT 782 ON PLAN 202759 (House No. 52 JARVIS BALDIVIS 6171)

Local Government Area: City of Rockingham  
Colloquial name:

### 1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.5		Mechanical Removal	Hazard reduction or fire control

### 1.5. Decision on application

Decision on Permit Application: Grant  
Decision Date: 10 January 2012

## 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
Mapped Beard vegetation association is described as 998 -Medium woodland; tuart	The proposed clearing of 0.5ha is for the purpose of reduction in hazards, firebreak, clearing for maintenance of powerlines and for an access way for a house.	Degraded; Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	Condition of the vegetation was established from aerial photography (Perth Metropolitan Central 20cm Orthomosaic - Landgate 2009)
Hedde vegetation complex - Karrakatta Complex - Central and South is described as mosaic of woodland of Eucalyptus gomphocephala (Tuart) and open forest of Eucalyptus gomphocephala (Tuart) - Eucalyptus marginata (Jarrah) - Corymbia calophylla (Marri); closed heath on the Limestone outcrops.	The proposed clearing is of Tuart trees (Eucalyptus gomphocephala) over weeds in a degraded (Keighery 1994) condition.		
Herdsmen Complex: Sedgeland and fringing woodland of E. rudis - Melaleuca species. (Shepherd 2009 and Hedde et al 1980)			

## 3. 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 proposed clearing of 0.5ha is for the purpose of reduction in hazards, firebreak, clearing for maintenance of powerlines and for an access way for a house.

The proposed clearing is of Tuart (Eucalyptus gomphocephala) trees over weeds in a degraded (Keighery 1994) condition and is unlikely to impact on rare flora, a threatened ecological community or significant fauna habitat and therefore, it not likely to be at variance to this Principle.

**Methodology** References  
-Keighery (1994)  
GIS Databases  
-Sac Bio datasets (5/1/2012)

Beard Vegetation Association in Bioregion* 998	50,867.10	19,595.27	38.52
Hedde Vegetation Complex ** Karrakatta Complex Central and South	49,735.38	12,788.88	25.71%

Shepherd (2009)\*  
Shepherd (2007)\*\*

**Methodology** References  
 -Commonwealth of Australia (2001)  
 -Shepherd (2009)  
 -Shepherd (2007)  
 GIS Databases  
 -Hedde Vegetation Complexes  
 -Pre-European Vegetation  
 -NLWRA, Current Extent of Native Vegetation

**(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 at variance to this Principle**  
 Lots 782 & 597 Jarvis Road contain a relatively large portion of the Stakehill Swamp, which is classified as both a Conservation Category Wetland (CCW) and an Environmental Protection Policy (EPP) Lake. The northern portion of the proposed clearing area occurs within the boundary of the mapped wetland with the remaining proposed clearing occurring within the buffer of the wetland. The proposed clearing occurs outside but adjacent to the mapped EPP Lake.

The Water and Rivers Commission (2001) recommend a buffer distances for developments from wetland areas, with the minimum distance being 50 metres. The proposed clearing does not comply with these recommendations; however the proposed clearing of 0.5 hectares of scattered Tuart trees in a degraded (Keighery 1994) condition is unlikely to cause environmental impacts to Stakehill Swamp.

The proposed clearing is at variance to this Principle.

**Methodology** References  
 -Keighery (1994)  
 -Water and Rivers Commission (2001)  
 GIS Databases  
 -Hydrography, linear  
 -EPP Lake  
 - Geomorphic Wetlands (Classification), Swan Coastal Plain

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

**Comments** **Proposal is not likely to be at variance to this Principle**  
 The soils within the application area consist of siliceous sands (Uc1.22) with smaller areas of brown sands (Uc4.22) and leached sands (Uc2.21) occurring in the wetter sites (Northcote et al. 1968).

The northern portion of the proposed clearing area occurs within the boundary of Stakehill Swamp with the remaining proposed clearing occurring within the buffer of the wetland. Based on the limited amount of vegetation under application, it is considered unlikely that the removal of vegetation will impact on the wetland area through land degradation such as sedimentation, erosion, turbidity or eutrophication.

Therefore the proposed clearing is not likely to be at variance to this Principle

**Methodology** References  
 -Northcote et al. (1968)  
 GIS Databases  
 -Hydrography, linear  
 -Soils, statewide

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.

Shepherd, D.P. (2007) Adapted from: Shepherd, D.P., Beeston, G.R., and Hopkins, A.J.M. (2001), Native Vegetation in Western Australia. Technical Report 249. Department of Agriculture Western Australia, South Perth.

Shepherd, D.P. (2009) Adapted from: Shepherd, D.P., Beeston, G.R., and Hopkins, A.J.M. (2001), Native Vegetation in Western Australia. Technical Report 249. Department of Agriculture Western Australia, South Perth.

Water and Rivers Commission (2001) Position Statement: Wetlands, Water and Rivers Commission, Perth.

## 5. 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)