



## CLEARING PERMIT

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

### PERMIT DETAILS

Area Permit Number: 4180/1  
File Number: 2010/009026-1  
Duration of Permit: From 25 April 2011 to 25 April 2013

### PERMIT HOLDER

Shire of Cunderdin

### LAND ON WHICH CLEARING IS TO BE DONE

Cunderdin – Quairading Road reserve (Cunderdin 6407)  
Cunderdin – Quairading Road reserve (Youndegin 6407)

### AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 0.36 hectares of native vegetation and 23 native trees within the combined areas shaded yellow on attached Plan 4180/1a, Plan 4180/1b, Plan 4180/1c and Plan 4180/1d.

### CONDITIONS

#### Weed control

When undertaking any clearing or other activity authorised under this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *weeds*:

- (a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- (b) ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- (c) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

#### Definitions

The following meanings are given to terms used in this Permit:

*fill* means material used to increase the ground level, or fill a hollow;

*mulch* means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation;

*weeds* means a species listed in Appendix 3 of the "Environmental Weed Strategy" published by the Department of Conservation and Land Management (1999), and plants declared under section 37 of the *Agriculture and Related Resources Protection Act 1976*.

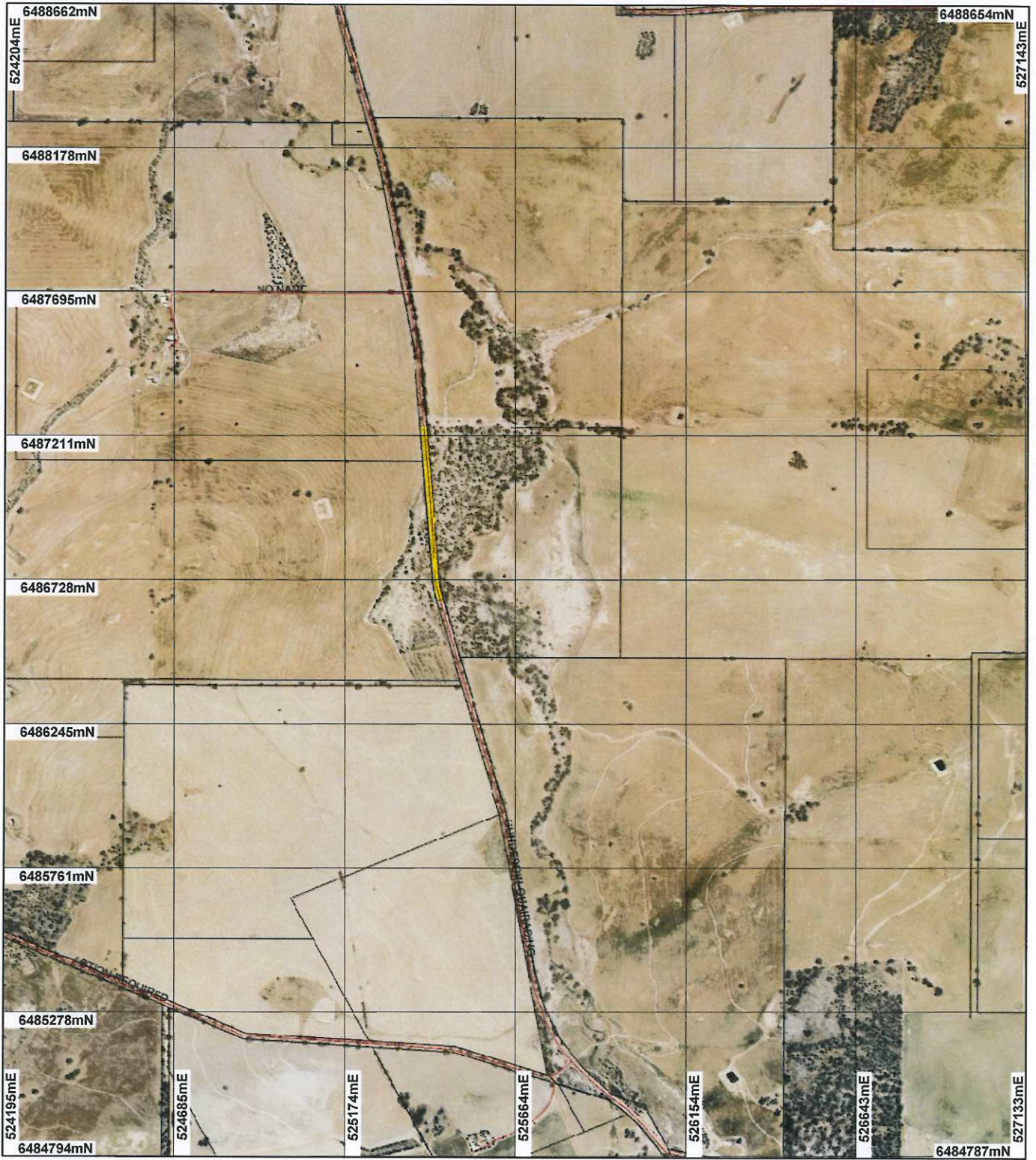
A handwritten signature in black ink, appearing to read "K Faulkner", written over a horizontal line.

Kelly Faulkner  
MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

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

31 March 2011

# Plan 4180/1a



## LEGEND

- Clearing Instruments**
- Areas Approved to Clear
  - Road Centrelines
  - Cadastre
  - Cunderdin 50cm Orthomosaic - Landgate 2004



Scale 1:17174

(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.

*[Signature]* Date 31/9/11  
K. Faulkner

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

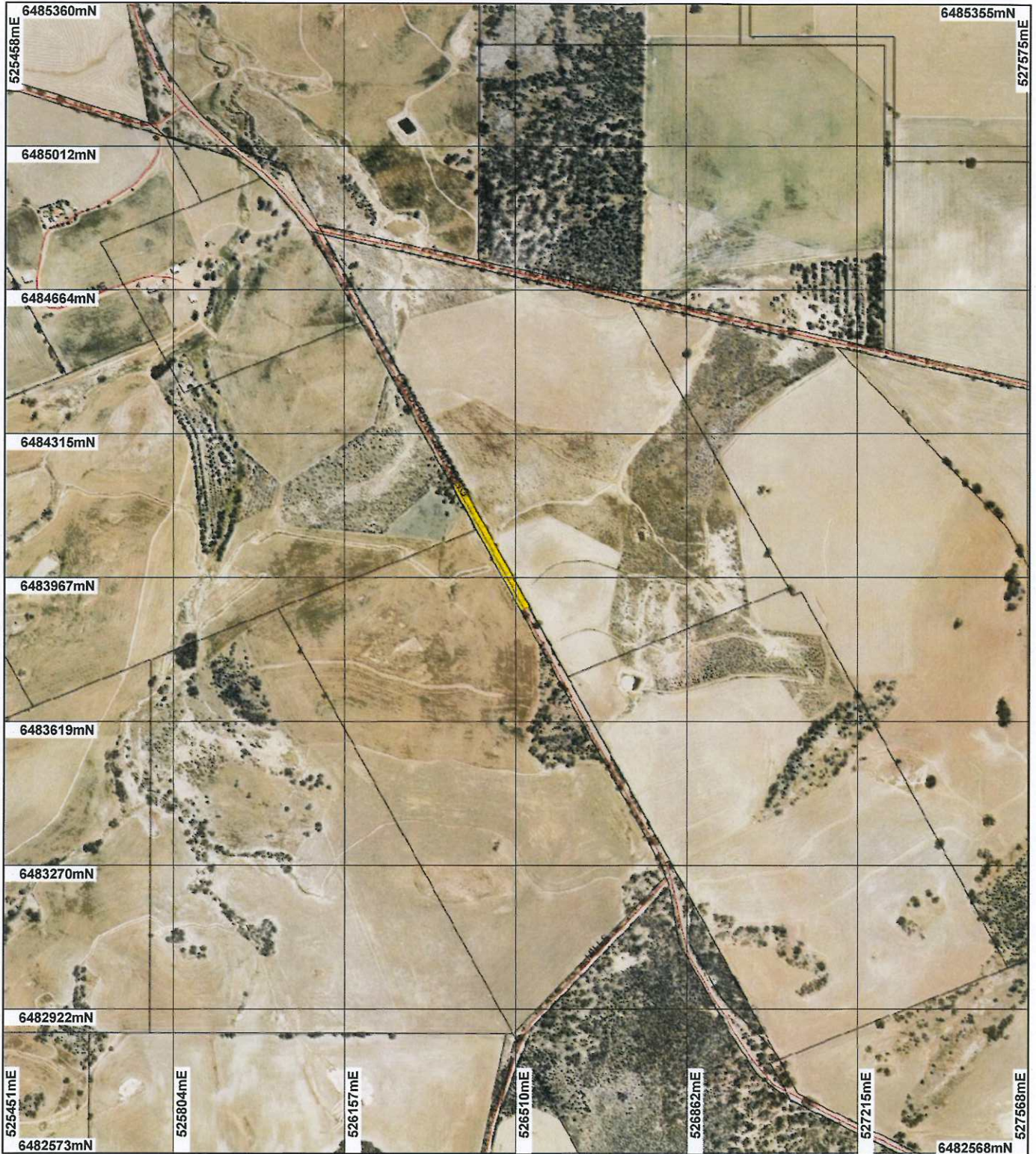
Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



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# Plan 4180/1b



## LEGEND

- Clearing Instruments**
- Areas Approved to Clear
  - Road Centrelines
  - Cadastre
- Cunderdin 50cm Orthomosaic  
- Landgate 2004



0 
0
300 m

Scale 1:12375  
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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*K. Faulkner* Date 30/3/11

K. Faulkner

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**

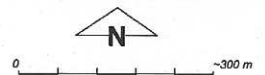
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# Plan 4180/1c



## LEGEND

- Clearing Instruments**
- Areas Approved to Clear
  - Road Centrelines
  - Cadastre
- Cunderdin 50cm Orthomosaic  
- Landgate 2004



Scale 1:11245  
(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.*

*K. F. Mulknern* Date 31/3/11  
K. F. Mulknern

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

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# Plan 4180/1d



## LEGEND

### Clearing Instruments

- Areas Approved to Clear
- Road Centrelines
- Cadastre
- Cunderdin 50cm Orthomosaic - Landgate 2004



0 -375 m

Scale 1:15279

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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Date 31/3/11  
K. Faulkner

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

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## 1. Application details

### 1.1. Permit application details

Permit application No.: 4180/1  
Permit type: Area Permit

### 1.2. Proponent details

Proponent's name: Shire of Cunderdin

### 1.3. Property details

Property: ROAD RESERVE (CUNDERDIN 6407)  
ROAD RESERVE (YOUNDEGIN 6407)  
ROAD RESERVE (YOUNDEGIN 6407)

Local Government Area: Shire of Cunderdin

Colloquial name: Cunderdin – Quairading Road reserve

### 1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.36	23	Mechanical Removal	Road construction or maintenance

### 1.5. Decision on application

Decision on Permit Application: Grant  
Decision Date: 31 March 2011

## 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
The vegetation under application has been identified as Beard vegetation association 1049 which has been described as 'Medium woodland; wandoo, York gum, salmon gum, morrel & gimlet' (Shepherd, 2009).	The proposal is to clear 0.36 hectares of native vegetation and 23 native trees within the Cunderdin - Quairading Road reserve. The applicant has taken great care in selecting areas to be cleared favouring degraded, less sensitive areas.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The condition of the vegetation under application was determined via a site inspection (DEC, 2011 and Roadside Conservation Committee, 2011).

## 3. Assessment of application against clearing principles

### Comments

The proposal is to clear 0.36 hectares of native vegetation and 23 native trees for the purpose of upgrading the Cunderdin - Quairading Road. The proposed upgrades are required as a result of the planned rail closures in the region forcing more grain trucks onto the road network.

The Shire of Cunderdin has been extensively cleared and has approximately 6.5 per cent of its pre European extent remaining (Shepherd, 2009). In addition, vegetation association 1049 retains less than 4 per cent of its pre European extent (Shepherd, 2009).

Roadside vegetation is significant as linear linkage in a highly cleared landscape. The road reserve holds a high level of biodiversity in the local and regional context. Additionally, clearing of the road reserve vegetation may hinder flora and fauna dispersal. Given this, the application may be at variance to principles (a), (b) and is at variance to principle (e).

Groundwater salinity in this area is 14000-35000mg/L which is highly saline. The removal of deep rooted native vegetation may impact on the groundwater levels and salinity. Given this the proposal may be at variance to principle (i).

The proposal may cause some short term land degradation issues in terms of water logging and soil erosion during works. However these issues should be minimal as the existing road already has road side infrastructure in place to prevent land degradation associated with roads, ie; table drains and culverts.

Given the above the application is at variance to principle (e), may be at variance to principles (a), (b) and (i) and is not likely to be at variance to the remaining clearing principles.

**Methodology**   References:  
Shepherd (2009)

GIS Database:  
- Cunderdin 50cm Orthomosaic - Landgate 2004  
- Local Government Authorities - DLI 8/07/04  
- Pre European Vegetation (DA 2001)  
- SAC Biodatasets (accessed Feb 2011)

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

### **Comments**

The Roadside Conservation Committee (2011) has advised that further removal of vegetation within the Shire of Cunderdin is not desirable as it may have significant impacts to the biodiversity, flora and fauna occurring within the region as well as potential impacts to groundwater salinity and increase wind erosion.

In noting this, the applicant has taken great care in selecting degraded, less sensitive areas of vegetation to be cleared (Roadside Conservation Committee, 2011).

Considering the effort the Shire has gone to, to minimize damage to native vegetation the Roadside Conservation Committee (2011) has no objection to the proposed clearing however it encourages offsetting vegetation loss.

**Methodology**   References:  
Roadside Conservation Committee (2011)

## **4. References**

- DEC (2011) Site Inspection Report for Clearing Permit Application CPS 4180/1, Cunderdin, Quairading Road reserve, Cunderdin. Site inspection undertaken 4 March 2011. Department of Environment and Conservation, Western Australia (DEC Ref: A378273).
- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Roadside Conservation Committee (2011) Advice for clearing permit application CPS 4180/1, Cunderdin - Quairading Road reserve, Cunderdin (DEC Ref: A378274).
- 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.

## **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)