



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 4412/2
Permit Holder:	Shire of Quairading
Duration of Permit:	5 September 2011 – 5 September 2016

The Permit Holder is authorised to clear native vegetation subject to the following conditions of this Permit.

PART I – CLEARING AUTHORISED

1. Purpose for which clearing may be done

Clearing for the purpose of road widening and upgrades.

2. Land on which clearing is to be done

LOT 2 ON DIAGRAM 65967 (CUBBINE ROAD, CUBBINE 6383)
LOT 1 ON PLAN 4943 (CUBBINE ROAD, CUBBINE 6383)
LOT 17568 ON PLAN 139934 (CUBBINE 6383)
LOT 7839 ON PLAN 128413 (CUBBINE 6383)
LOT 15 ON PLAN 16491 (CUBBINE 6383)
ROAD RESERVE (CUBBINE ROAD, CUBBINE 6383)
ROAD RESERVE (JUNCTION ROAD (PIN: 1309488), QUAIRADING 6383)
ROAD RESERVE (CUBBINE ROAD (PIN: 1309492), QUAIRADING 6383)
ROAD RESERVE (CUNDERDIN-QUAIRADING ROAD (PIN: 11661069, 1293485 AND 1293484), CUBBINE 6383)
ROAD RESERVE (CUNDERDIN-QUAIRADING ROAD (PIN: 1309567, 1309456 AND 11661771), QUAIRADING 6383)
LOT 3287 ON PLAN 103767 (QUAIRADING 6383)
ROAD RESERVE (CUNDERDIN-QUAIRADING ROAD (PIN: 1293486, 1293479 AND 1293479), YOUNDEGIN 6407)

3. Area of Clearing

The Permit Holder shall not clear more than 5.6 hectares of native vegetation within the combined areas shaded yellow on attached Plan 4412/2a and Plan 4412/2b and Plan 4412/2c and Plan 4412/2d and Plan 4412/2e and Plan 4412/2f and Plan 4412/2g and Plan 4412/2h and Plan 4412/2i.

4. Application

This Permit allows the Permit Holder to authorise persons, including employees, contractors and agents of the Permit Holder, to clear native vegetation for the purposes of this Permit subject to compliance with the conditions of this Permit and approval from the Permit Holder.

5. Type of clearing authorised

This Permit authorises the Permit Holder to clear native vegetation for activities to the extent that the Permit Holder has the power to clear native vegetation for those activities under the *Local Government Act 1995* or any other written law.

6. Compliance with Assessment Sequence and Management Procedures

Prior to clearing any native vegetation under conditions 1, 2 and 3 of this Permit, the Permit Holder must comply with the Assessment Sequence and the Management Procedures set out in Part II of this Permit.

PART II – ASSESSMENT SEQUENCE AND MANAGEMENT PROCEDURES

7. 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.

8. 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.

9. Flora management

- (a) Prior to undertaking any clearing authorised under this Permit within Lot 2 on Diagram 65967 Cubbine Road, Cubbine, the Permit Holder shall engage a *botanist* to inspect that area for the presence of rare flora listed in the *Wildlife Conservation (Rare Flora) Notice 2010(2)* and *priority flora*.
- (b) Where rare flora or *priority flora* are identified in relation to condition 9(a) of this Permit, the Permit Holder shall ensure that:
 - (i) no clearing occurs within 50 metres of identified rare flora, unless approved by the CEO;
 - (ii) no clearing of identified rare flora occurs unless approved under section 23F(2) of the *Wildlife Conservation Act 1950*;
 - (iii) no clearing occurs within 20 metres of identified *priority flora* unless approved by the CEO; and
 - (iv) no clearing of identified *priority flora* occurs, unless approved by the CEO.

10. Fauna management

- (a) Prior to undertaking any clearing authorised under this Permit within the area shaded red on attached Plan 4412/2i, the area(s) shall be inspected by a *fauna specialist* for the presence of Shield-backed trapdoor spider (*Idiosoma nigrum*) burrow(s).
- (b) Where Shield-backed trapdoor spider (*Idiosoma nigrum*) burrow(s) are identified in relation to condition 10(a) of this Permit, the Permit Holder shall ensure that no clearing occurs within 50 metres of the identified Shield-backed trapdoor spider (*Idiosoma nigrum*) burrow, unless approved by the CEO.
- (c) Prior to undertaking any clearing authorised under this Permit, the area(s) shall be inspected by a *fauna specialist* who shall identify tree(s) that contain hollows suitable to be utilised as *habitat tree(s)* by fauna listed in the *Wildlife Conservation (Specially Protected Fauna) Notice 2010(2)*.
- (d) Prior to clearing, any *habitat tree(s)* identified by condition 10(c) shall be inspected by a *fauna specialist* for the presence of fauna listed in the *Wildlife Conservation (Specially Protected Fauna) Notice 2010(2)*.

- (e) Within one week prior to undertaking any clearing authorised under this Permit, the Permit Holder shall engage a *fauna clearing person* to remove and relocate fauna identified under condition 10(d).

11. Retain vegetative material and topsoil, revegetation and rehabilitation

The Permit Holder shall:

- (a) retain the vegetative material and topsoil removed by clearing authorised under this Permit and stockpile the vegetative material and topsoil in an area that has already been cleared.
- (b) at an *optimal time* following clearing authorised under this Permit, *revegetate* and *rehabilitate* no less than 3.5ha within the three s-bend areas along Cunderdin-Quairading Road reserve as shown on Plan 4412/2d and Plan 4412/2f and Plan 4412/2i by:
 - (i) re-shaping the surface of the land so that it is consistent with the surrounding 5 metres of uncleared land; and
 - (ii) ripping the ground on the contour to remove soil compaction; and
 - (iii) laying the vegetative material and topsoil retained under condition 11(a) on the areas to be *revegetated* and *rehabilitated* as outlined in condition 11(b); and
 - (iv) deliberately *planting* and/or *direct seeding* native vegetation that will result in a similar species composition, structure and density of native vegetation to pre-clearing vegetation types in that area; and
 - (v) ensuring only *local provenance* seeds and propagating material are used to *revegetate* and *rehabilitate* the area.
- (c) within 24 months of undertaking *revegetation* and *rehabilitation* in accordance with condition 11(b) of this Permit:
 - (i) engage an *environmental specialist* to determine the species composition, structure and density of the area *revegetated* and *rehabilitated*; and
 - (ii) where, in the opinion of an *environmental specialist*, the composition structure and density determined under condition 11(c)(i) of this Permit will not result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, the Permit Holder must undertake additional *planting* or *direct seeding* of native vegetation in accordance with the requirements of condition 11(b)(iv) and (v) of this Permit.

PART III - RECORD KEEPING AND REPORTING

12. Records must be kept

The Permit Holder must maintain the following records for activities done pursuant to this Permit:

- (a) In relation to the clearing of native vegetation authorised under this Permit:
 - (i) the location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings;
 - (ii) the date that the area was cleared; and
 - (iii) the size of the area cleared (in hectares).
- (b) In relation to flora management pursuant to condition 9 of this Permit:
 - (i) the location of each rare and/or *priority flora* species recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
 - (ii) the species name of each rare and/or *priority flora* species identified; and
 - (iii) a copy of the *botanist's* flora survey report.

- (c) In relation to fauna management pursuant to condition 10 of this Permit:
- (i) the location of each Shield-backed trapdoor spider (*Idiosoma nigrum*) burrow identified recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
 - (ii) the location of each tree that contains hollows, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
 - (iii) the species name of fauna reasonably likely to utilise, or that have been observed utilising, the trees that contain hollows; and
 - (iv) the location and date where relocated fauna was released, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees.
- (d) In relation to the *revegetation* and *rehabilitation* of areas pursuant to condition 11 of this Permit:
- (i) the location of any areas *revegetated* and *rehabilitated*, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
 - (ii) a description of the *revegetation* and *rehabilitation* activities undertaken;
 - (iii) the size of the area *revegetated* and *rehabilitated* (in hectares);
 - (iv) the species composition, structure and density of *revegetation* and *rehabilitation*, and
 - (v) a copy of the *environmental specialist's* report.

13. Reporting

- (a) The Permit Holder must provide to the CEO on or before 30 June of each year, a written report:
- (i) of records required under condition 12 of this Permit; and
 - (ii) concerning activities done by the Permit Holder under this Permit between 1 January and 31 December of the preceding year.
- (b) Prior to 5 June 2016, the Permit Holder must provide to the CEO a written report of records required under condition 12 of this Permit where these records have not already been provided under condition 13(a) of this Permit.

Definitions

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

botanist means a person with specific training and/or experience in the ecology and taxonomy of Western Australian flora;

direct seeding means a method of re-establishing vegetation through the establishment of a seed bed and the introduction of seeds of the desired plant species;

environmental specialist means a person who is engaged by the Permit Holder for the purpose of providing environmental advice, who holds a tertiary qualification in environmental science or equivalent, and has experience relevant to the type of environmental advice that an environmental specialist is required to provide under this Permit;

fauna clearing person means a person who has obtained a licence from the Department, issued pursuant to the *Wildlife Conservation Regulations 1970* authorising them to take fauna;

fauna specialist means a person with training and specific work experience in fauna identification or faunal assemblage surveys of Western Australian fauna;

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

habitat tree(s) means trees that have a diameter, at average adult human chest height, of greater than 70cm, healthy but with dead limbs and broken crowns that are likely to contain hollows and roosts suitable for native fauna, or where these are not present then healthy but with the potential to contain hollows and roosts;

local provenance means native vegetation seeds and propagating material from natural sources within 40 kilometres of the area cleared;

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;

optimal time means the period from May to June for undertaking *direct seeding*, and the period from June to July for undertaking *planting*;

priority flora means those plant taxa described as priority flora classes 1, 2, 3 or 4 in the *Department's Declared Rare and Priority Flora List for Western Australia* (as amended);

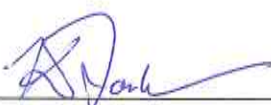
planting means the re-establishment of vegetation by creating favourable soil conditions and planting seedlings of the desired species;

regenerate/ed/ion means re-establishment of vegetation from in situ seed banks and propagating material (such as lignotubers, bulbs, rhizomes) contained either within the topsoil or seed-bearing *mulch*;

rehabilitate/ed/ion means actively managing an area containing native vegetation in order to improve the ecological function of that area;

revegetate/ed/ion means the re-establishment of a cover of *local provenance* native vegetation in an area using methods such as natural *regeneration*, *direct seeding* and/or *planting*, so that the species composition, structure and density is similar to pre-clearing vegetation types in that area;

weed/s 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*.



Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

9 February 2012

Plan 4412/2a



LEGEND

Cunderdin 50cm Orthomosaic - Landgate 2004

Brookton 80cm Orthomosaic - Landgate 2005

Clearing Instruments

(cont)

- Areas Applied to Clear
- Areas Subject to Conditions
- Areas Approved to Clear
- Road Centrelines
- Cadastre

Local Government Authorities

Cadastre for labelling

Towns

(cont)

- A
- B
- C



Scale 1:11001
(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 Faulkner Date 9/2/12

K Faulkner

Officer with delegated authority under Section 20 of the Environmental Protection Act 1996

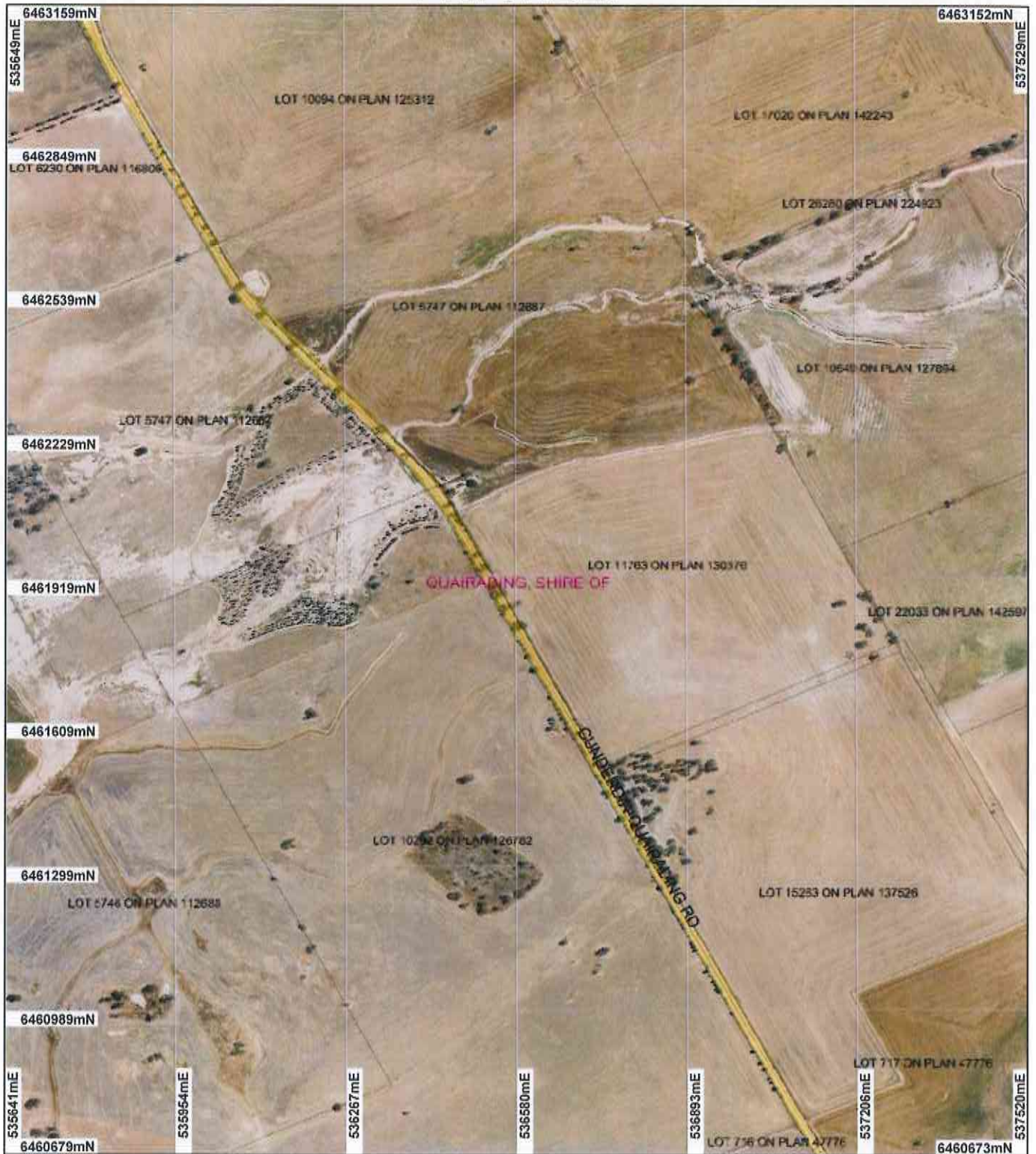
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Plan 4412/2b



LEGEND

Cunderdin 50cm Orthomosaic - Landgate 2004

Brookton 50cm Orthomosaic - Landgate 2005

Clearing Instruments

(cont)

- Areas Applied to Clear
- Areas Subject to Conditions
- Areas Approved to Clear
- Road Centrelines
- Cadastre

Local Government Authorities

Cadastre for labelling

Towns

(cont)

- A
- B
- C



Geocentric Datum Australia 1994

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

Date 9/2/12

K Faulkner
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Plan 4412/2c



LEGEND

Cunderdin 50cm Orthomosaic - Landgate 2004

Brookton 80cm Orthomosaic - Landgate 2005

Clearing Instruments

(cont)

- Areas Applied to Clear
- Areas Subject to Conditions
- Areas Approved to Clear
- Road Centrelines
- Cadastre

Local Government Authorities

Cadastre for labelling

Towns

(cont)

- A
- B
- C



Scale 1:11000
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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K Faulkner Date 9/2/12

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

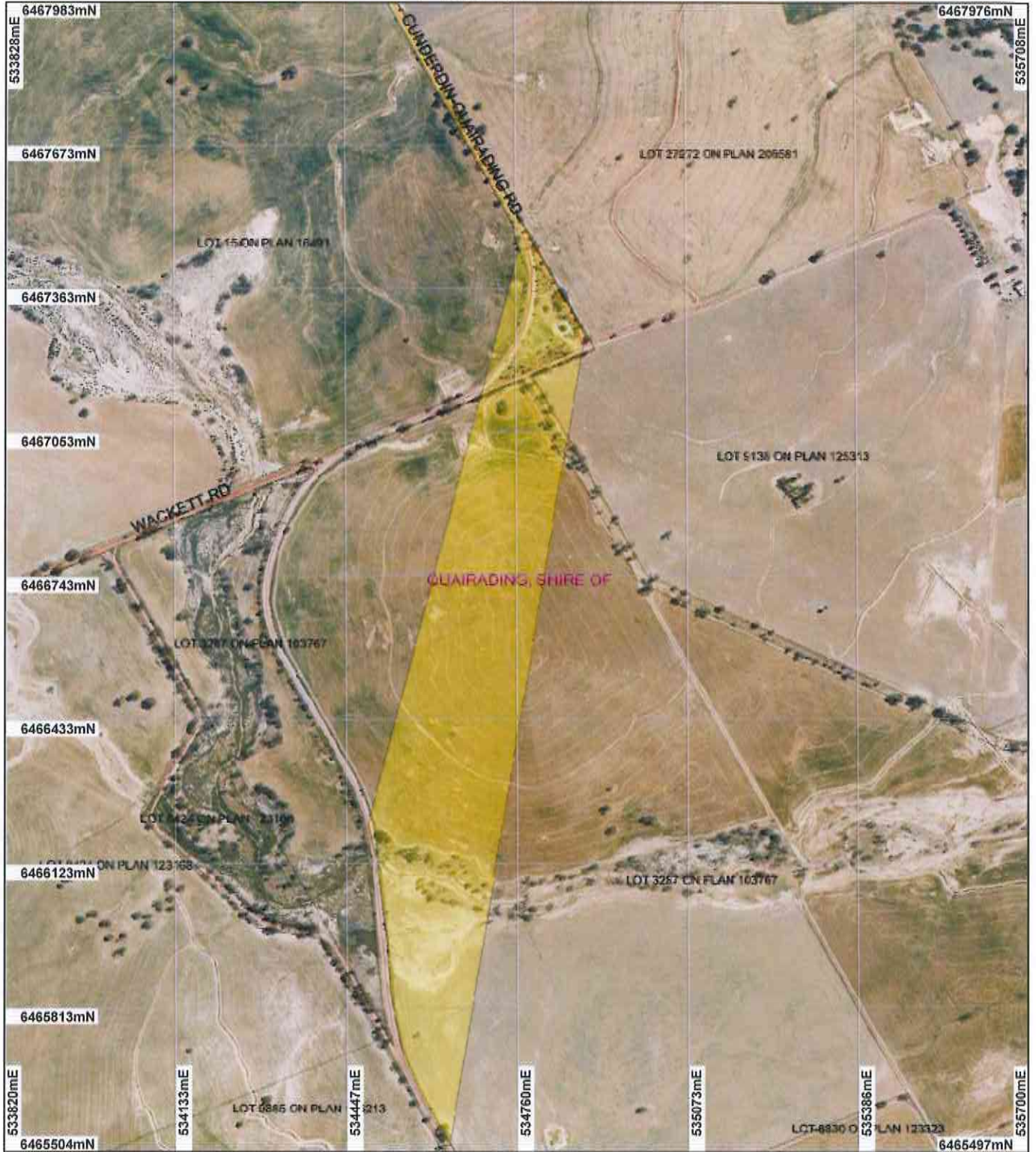
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Plan 4412/2d



LEGEND

Cunderdin 50cm Orthomosaic - Landgate 2004
 Brookton 80cm Orthomosaic - Landgate 2005
 Clearing Instruments (cont)

- Areas Applied to Clear
- Areas Subject to Conditions
- Areas Approved to Clear
- Road Centrelines
- Cadastre

- Local Government Authorities
- Cadastre for labelling
- Towns (cont)

- A
- B
- C



Geocentric Datum Australia 1994

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

Date 9/2/12
 K Faulkner

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

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Plan 4412/2e



LEGEND

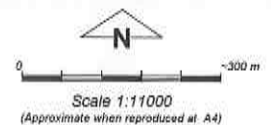
Cuenderbin 50cm Orthomosaic - Landgate 2004
 Brookton 80cm Orthomosaic - Landgate 2005
 Clearing Instruments
 (cont)

- Areas Applied to Clear
- Areas Subject to Conditions
- Areas Approved to Clear
- Road Centrelines
- Cadastre

Local Government Authorities

Cadastre for labelling
 Towns
 (cont)

- A
- B
- C



Geocentric Datum Australia 1994

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

Date 9/2/12
 K Faulkner

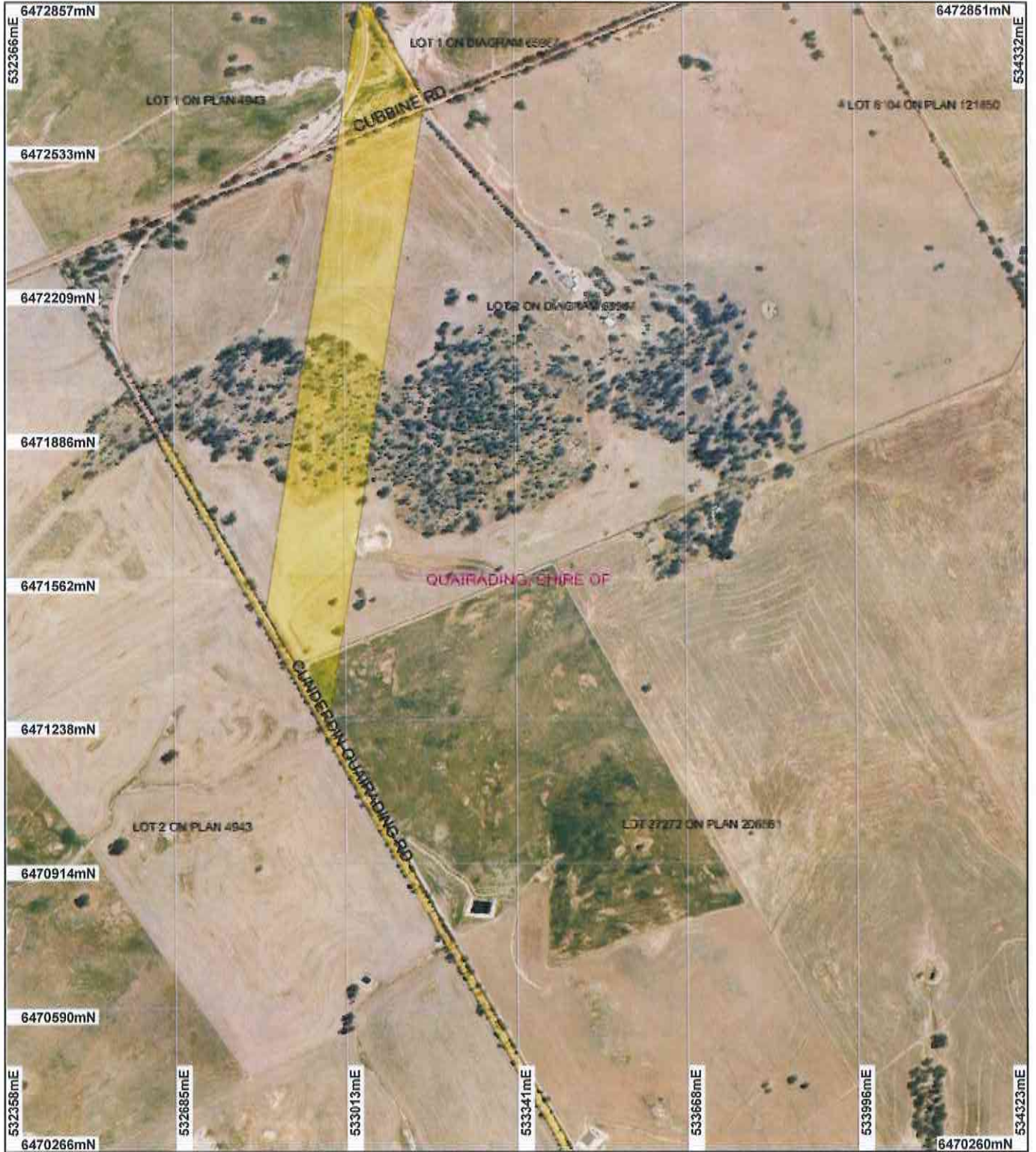
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Plan 4412/2f



LEGEND

Cusderdin 50cm Orthomosaic - Landgate 2004
 Brookton 80cm Orthomosaic - Landgate 2005
 Clearing Instruments
 (cont)

Areas Applied to Clear
 Areas Subject to Conditions
 Areas Approved to Clear
 Road Centrelines
 Cadastre

Local Government Authorities
 Cadastre for labelling
 Towns
 (cont)

A
 B
 C



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K Faulkner Date 9/2/12
 K Faulkner

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Plan 4412/2g



LEGEND

Cundledgin 50cm Orthomosaic - Landgate 2004
 Brookton 80cm Orthomosaic - Landgate 2005
 Clearing Instruments
 (cont)

Areas Applied to Clear
 Areas Subject to Conditions
 Areas Approved to Clear
 Road Centrelines
 Cadastre

Local Government Authorities
 Cadastre for labelling
 Towns
 (cont)

A
 B
 C



Scale 1:11000
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Geocentric Datum Australia 1994

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K. Faulkner Date 9/2/12
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Plan 4412/2h



LEGEND

- Cunderdin 50cm Orthomosaic - Landgate 2004
- Brookton 50cm Orthomosaic - Landgate 2005
- Clearing Instruments
- Areas Applied to Clear (cont)
- Areas Approved to Clear
- Road Centrelines
- Cadastre
- Local Government Authorities

Cadastre for labelling

- Towns
- A
 - B
 - C



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Geocentric Datum Australia 1994

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K Faulkner Date 9/2/12
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Plan 4412/2i



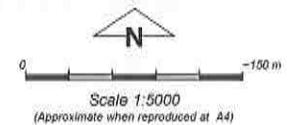
LEGEND

Cunderdin 50cm Orthomosaic - Landgate 2004
 Brookton 50cm Orthomosaic - Landgate 2005
 Clearing Instruments
 (cont)

- Areas Applied to Clear
- Areas Subject to Conditions
- Areas Approved to Clear
- Road Centrelines
- Cadastre

- Local Government Authorities
- Cadastre for labelling
- Towns
- (cont)

- A
- B
- C



Geocentric Datum Australia 1994

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Date 9/2/02
 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.



1. Application details

1.1. Permit application details

Permit application No.: 4412/2
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Shire of Quairading

1.3. Property details

Property:
ROAD RESERVE (CUBBINE 6383)
ROAD RESERVE (QUAIRADING 6383)
ROAD RESERVE (QUAIRADING 6383)
ROAD RESERVE (QUAIRADING 6383)
ROAD RESERVE (CUBBINE 6383)
LOT 2 ON DIAGRAM 65967 (CUBBINE ROAD, CUBBINE 6383)
LOT 1 ON PLAN 4943 (CUBBINE ROAD, CUBBINE 6383)
LOT 17568 ON PLAN 139934 (CUBBINE 6383)
LOT 7839 ON PLAN 128413 (CUBBINE 6383)
LOT 15 ON PLAN 16491 (CUBBINE 6383)
ROAD RESERVE (CUBBINE 6383)
LOT 3287 ON PLAN 103767 (QUAIRADING 6383)
ROAD RESERVE (YOUNDEGIN 6407)
Local Government Area: SHIRE OF QUIRADING

1.4. Application

Clearing Area (ha)	Method of Clearing	For the purpose of:
5.6	Mechanical Removal	Road construction or maintenance

1.5. Decision on application

Decision on Permit Application: GRANT
Decision Date: 9 FEBRUARY 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
Beard Vegetation Association: 1049 - Medium woodland; Wandoo, York gum, Salmon gum, Morrel and Gimlet (Hopkins et al., 2001).	The areas under application comprise 5.6ha of native vegetation consistent with the mapped vegetation association. The vegetation overall is in 'good' (Keighery, 1994) condition ranging from 'completely degraded' to 'very good' (Keighery, 1994) with the majority of the better condition vegetation being within remnants on freehold land proposed for the realignment of two of the three s-bends, one near Cubbine Road and one close to the northern boundary of the Shire of Quairading.	Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994) To Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery 1994)	Vegetation condition was confirmed during a DEC site inspection (DEC, 2011) undertaken on 26 July 2011 and through aerial imagery Brookton 80cm Orthomosaic - Landgate 2005 and Cunderdin 50cm Orthomosaic - Landgate 2004.

3. Assessment of application against clearing principles

Comments

The Shire of Quairading's permit CPS 4412/1 to clear 5.6 ha for the widening, upgrades and realignment to Cunderdin-Quairading and Cubbine Roads, Cunderdin was found to be at variance to Principles a, e and f and may be at variance to Principles b, c, g and i. Clearing permit CPS 4412/1 was granted on the 11 August 2011 subject to avoid, minimise, weed hygiene, flora and fauna management, revegetation and rehabilitation and

record and reporting conditions. The assessment against the clearing principles has not changed and can be found in the Clearing Permit Decision Report for CPS 4412/1.

Errors associated with conditions 8, 10 and 12 of the purpose permit were identified on review of the permit. Therefore, administrative amendments have been made to rectify these errors resulting in clearing permit CPS 4412/2.

In addition, condition 9 relating to flora management has been updated to bring the condition in line with current Department of Environment and Conservation practice.

Methodology

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

Comments

The Shire of Quairading was notified of the proposed amendments to clearing permit CPS 4412/1 in correspondence from the Department of Environment and Conservation on the 28 December 2011 (DEC, 2011). Although no comments were received from the Shire during the 28 day notification period, it has since been confirmed that the Shire of Quairading does not have any objections to the amendment of the clearing permit and its conditions.

Methodology References:
- DEC (2011)

4. References

- DEC (2011) Notice of Proposed Amendment to Clearing Permit CPS 4412/1. Department of Environment and Conservation, Kensington, Western Australia (DEC ref A462351).
- 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.

5. Glossary

Term	Meaning
CALM	Department of Conservation and Land Management (now DEC)
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
DoW	Department of Water
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 DoW)