



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 5833/1
Permit Holder:	Department of Water
Duration of Permit:	25 January 2014 – 25 January 2019

ADVICE NOTE:

This Permit does not confer upon the Permit Holder authorisation to access the land to which the Permit relates.

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 groundwater monitoring bores and access tracks.

2. Land on which clearing is to be done

Lot 83 on Deposited Plan 217187, Eighty Mile Beach
Lot 1539 on Deposited Plan 69939, Eighty Mile Beach
Unnamed road reserve, Eighty Mile Beach (PIN 11735921)
Lot 2 on Deposited Plan 193879, Telfer
Lot 7 on Plan 174029, Telfer
Lot 11 on Deposited Plan 214515, Telfer
Unallocated Crown land, Telfer (PIN 1011653)
Lot 50 on Deposited Plan 238018, Marble Bar

3. Area of Clearing

The Permit Holder must not clear more than 77.8 hectares of native vegetation within the combined areas cross hatched and shaded yellow on attached Plan 5833/1a and Plan 5833/1b and Plan 5833/1c and Plan 5833/1d.

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.

PART II – MANAGEMENT CONDITIONS

5. 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*:

- clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- 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;

weed/s means any plant -

- (a) that is a declared pest under section 22 of the *Biosecurity and Agriculture Management Act 2007*; or
- (b) published in the former Department of Environment and Conservation Regional Weed Assessments, regardless of ranking; or
- (c) not indigenous to the area concerned.

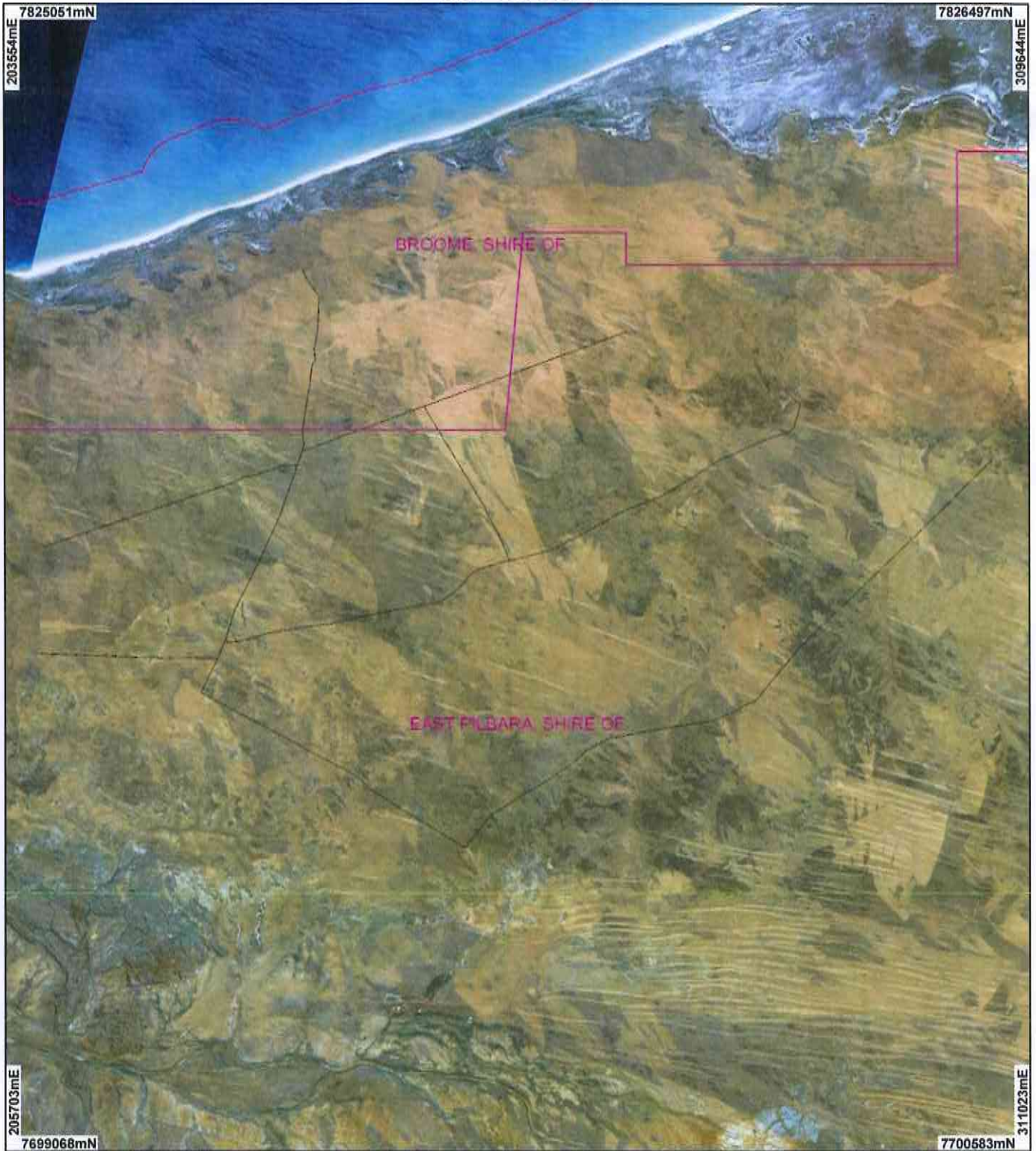


M Warnock
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH


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

27 December 2013

Plan 5833/1a



LEGEND

-  Road Centrelines
-  Areas Approved to Clear
-  Local Government Authorities

Western Australia Landsat
Mosaic 25m - AGO 2006



Scale 1:580983

(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 Warnock Date 27/12/13

M 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.



Government of Western Australia
Department of Environment Regulation


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* Project Data is denoted by asterisk. This data has not been quality assured. Please contact map author for details.

Plan 5833/1b



LEGEND

-  Road Centrelines
-  Clearing Instruments
-  Areas Approved to Clear
-  Local Government Authorities

Shoona 50cm Orthomosaic - Landgate 2004



Scale 1:4530

(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 Warnock Date *27/12/13*
M Warnock

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

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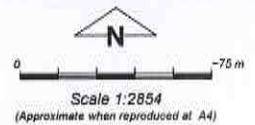
Plan 5833/1c



LEGEND

-  Road Centrelines
-  Areas Approved to Clear
-  Local Government Authorities

Shoanta 50cm Orthomosaic - Landgate 2004



Geocentric Datum Australia 1994

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

M Warnock Date 27/12/13
M Warnock

Officer with delegated authority under Section 20 of the Environmental Protection Act 1985

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

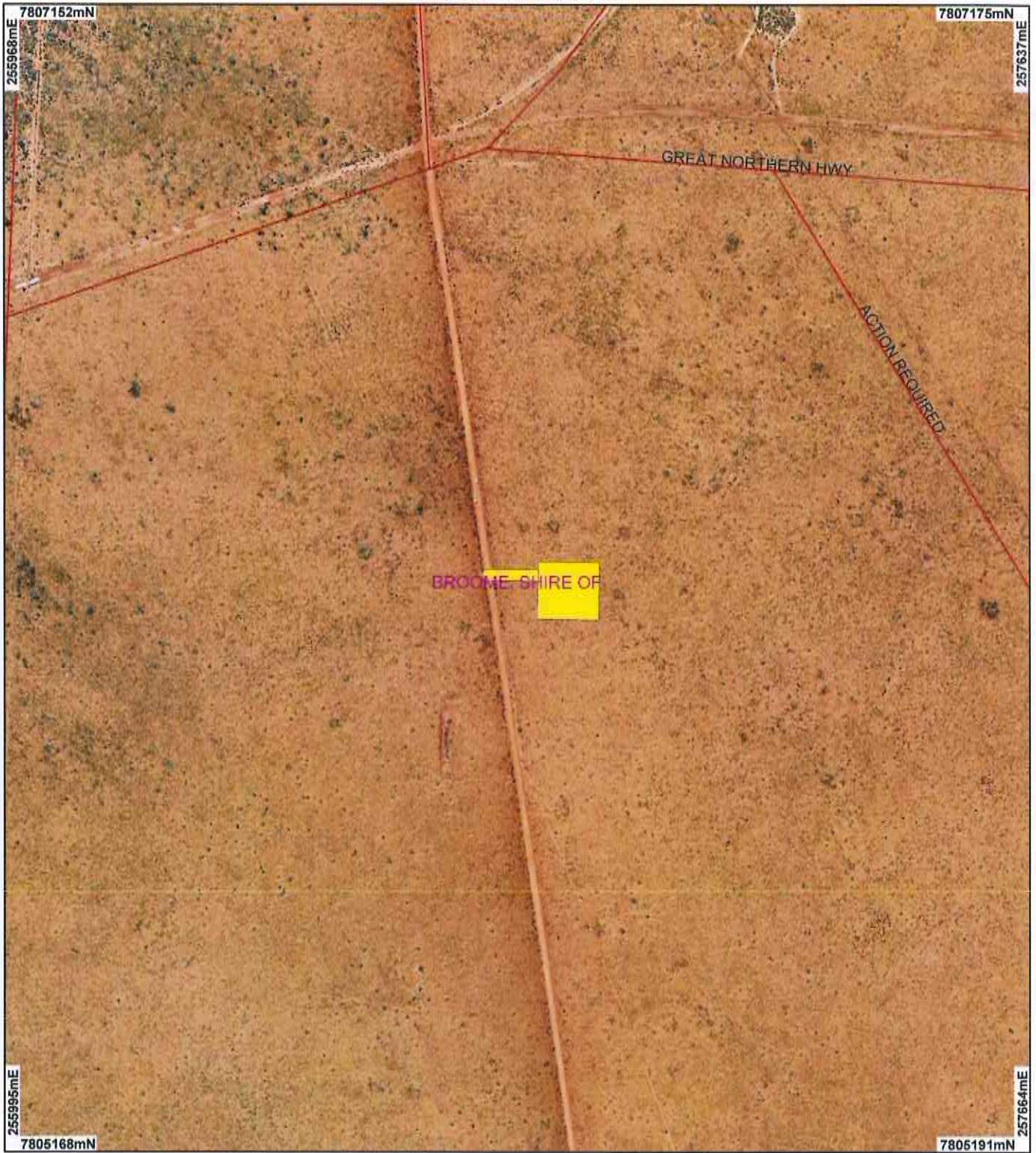


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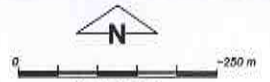
Plan 5833/1d



LEGEND

- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear
- Local Government Authorities

Mandora 50cm Orthomosaic - Landgate 2004



Scale 1:9161
(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 Warnock Date 27/12/13
M Warnock

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1. Application details

1.1. Permit application details

Permit application No.: 5833/1
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Department of Water

1.3. Property details

Property: UNALLOCATED CROWN LAND (TELFER 6762)
LOT 50 ON PLAN 238018 (MARBLE BAR 6760)
LOT 2 ON PLAN 193879 (TELFER 6762)
LOT 1539 ON PLAN 69939 (House No. 44 GREAT NORTHERN EIGHTY MILE BEACH 6725)
LOT 937 ON PLAN 69938 (EIGHTY MILE BEACH 6725)
ROAD RESERVE (EIGHTY MILE BEACH 6725)
LOT 83 ON PLAN 217187 (EIGHTY MILE BEACH 6725)
LOT 11 ON PLAN 214515 (TELFER 6762)
LOT 7 ON PLAN 174029 (TELFER 6762)

Local Government Area: Shire of East Pilbara
Shire of Broome

Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
77.8		Mechanical Removal	Groundwater monitoring bores and access tracks

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 27 December 2013

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 32 is described as Shrublands, pindan; acacia shrubland with scattered low trees over <i>Triodia</i> spp (Shepherd et al, 2001).	Clearing 77.8 hectares of native vegetation within various properties throughout the Shire of Broome and East Pilbara, for the purpose of drilling groundwater monitoring bores and constructing access tracks.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	Vegetation condition was determined through aerial imagery (Shoonta 50cm Orthomosaic - Landgate 2004 and Mandora 50cm Orthomosaic - Landgate 2004).
Mapped Beard vegetation association 73 is described as Grasslands, short bunch grass savanna, grass; salt water grassland (<i>Sporobolus virginicus</i>) (Shepherd et al, 2001).		To	
Mapped Beard vegetation association 101 is described as Hummock grasslands, shrub steppe; <i>Acacia pachycarpa</i> over soft spinifex (Shepherd et al, 2001).		Excellent: Vegetation structure intact; disturbance affecting individual species, weeds non-aggressive (Keighery 1994)	

Mapped Beard vegetation association 80 is described as Hummock grasslands, low tree steppe; desert walnut over soft spinifex between sandridges (Shepherd et al, 2001).

Mapped Beard vegetation association 117 is described as Hummock grasslands, grass steppe; soft spinifex (Shepherd et al, 2001).

3. Assessment of application against clearing principles

Comments

The application is to clear 77.8 hectares of native vegetation throughout the Shires of East Pilbara and Broome. The proposed clearing is for 15 drill pads and the construction of new tracks over a distance of approximately 131.2 kilometres.

The vegetation under application is in a degraded to excellent (Keighery, 2013) condition.

Six priority flora species has been recorded within 40 kilometres of the areas under application, with the closest being approximately seven kilometres away from the proposed clearing area. Some records occur on the same mapped soil and vegetation types as the application areas. The priority flora species within the local area (40 kilometre radius) have been recorded at a number of sites within the Local Government Areas of Broome, Derby, West Kimberley, Ashburton, Wyndham and East Pilbara (Western Australian Herbarium 1998), which indicates they have a large distribution. Therefore, the proposed clearing is not likely to impact on their conservation status.

There has been no rare flora recorded within 40 kilometres of any of the application areas.

The Northern Marsupial Mole (*Notoryctes caurinus*) is the only fauna species recorded within the local area (40 kilometre radius) that is classified as rare or likely to become extinct under the Wildlife Conservation Act 1950 (DPaW 2007-). The Northern Marsupial Mole may occur within the application areas however, the habitat for this species is well represented within the local and regional area.

There has been no priority or threatened ecological communities mapped within 40 kilometres of any of the application areas.

The vegetation under application is represented by five Beard vegetation associations, all of which have 99 percent or above of their pre-European extent remaining (Government of Western Australia, 2013). Additionally, the areas under application are within an extensively vegetated landscape with approximately 98 percent of vegetation remaining within 40 kilometres of the application. The national objectives and targets for biodiversity conservation in Australia has a target to prevent clearance of ecological communities with an extent below 30 per cent of that present pre-1750, below which species loss appears to accelerate exponentially at an ecosystem level (Commonwealth of Australia 2001). The mapped Beard vegetation associations are above the national objectives and target level of 30 per cent.

There are no recorded conservation areas within 40 kilometres of any of the application areas.

There are no wetlands or watercourses mapped within any of the areas under application and given most of the clearing is of a linear nature, it is not likely to cause appreciable land degradation, impact water quality, consist of riparian vegetation or cause or exacerbate the intensity of flooding.

Given the above, the proposed clearing is not likely to be at variance to any of the clearing principles.

The disturbance caused by the proposed clearing will increase the risk of weeds being introduced into the adjacent vegetation. Weed management practices will assist in mitigating this risk.

Methodology

References:

- Commonwealth of Australia (2001)
- DPaW (2007-)
- Government of Western Australia (2013)
- Keighery (1994)
- Western Australian Herbarium (1998)

GIS Databases:

- SAC Bio Datasets (Accessed November 2013)
- NLWRA, Extent of Vegetation Remaining
- Hydrography, linear

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

Comments

No submissions from the public have been received for the proposed clearing.

Areas of the proposed clearing are subject to native title claims with the traditional owners of the land being the Nyangumarta people. The Department of Water is in negotiation with the traditional owners.

Methodology

4. References

- Commonwealth of Australia (2001) National Objectives and Targets for Biodiversity Conservation 2001-2005, Canberra.
- DPaW (2007 -) NatureMap: Mapping Western Australia's Biodiversity. Department of Environment and Conservation. URL: <http://naturemap.dec.wa.gov.au/>. Accessed November 2013.
- Government of Western Australia. (2013). 2012 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). Current as of October 2012. WA Department of Environment and Conservation, Perth.
- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- 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.
- Western Australian Herbarium (1998-) FloraBase - The Western Australian Flora. Department of Environment and Conservation. <http://florabase.dec.wa.gov.au/> (Accessed November 2013).