

Clearing Permit Decision Report

1. Application details

1.1. Permit application details

Permit application No.: 5648/1

Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Hinckley Range Pty Ltd

1.3. Property details

Property: Ex Local Government Area: Sh

Colloquial name:

Exploration Licence 69/3065 Shire of Ngaanyatjarraku

1.4. Application

Clearing Area (ha) No. Trees Method of Clearing For the purpose of:

14 Mechanical Removal Mineral Exploration

1.5. Decision on application

Decision on Permit Application: Grant

Decision Date: 1 August 2013

2. Site Information

2.1. Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description

Beard vegetation associations have been mapped for the whole of Western Australia and are useful to look at vegetation in a regional context. Three Beard vegetation associations have been mapped within the application area (GIS Database):

19: Low woodland; mulga between sand ridges;

39: Shrubland; mulga scrub; and 230: Mosaic: Medium sparse woodland; desert oak between sand dunes / Hummock grasslands, shrub steppe; hard spinifex, *Triodia basedowii*.

No vegetation surveys have been undertaken over the application area as part of this application.

Clearing Description

Hinckley Range Pty Ltd has applied to clear up to 14 hectares of native vegetation within an application area totalling approximately 7,311 hectares for the purpose of mineral exploration.

The clearing will comprise of drill pads and access tracks. The exploration activities are part of Hinckley Range Pty Ltd's exploration program in the Musgraves area, approximately 700 kilometres northeast of Laverton.

Vegetation will be cleared using front end loaders or graders.

Vegetation Condition

Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery, 1994);

To:

Excellent: Vegetation structure intact; disturbance affecting individual species, weeds non-aggressive (Keighery, 1994).

Comment

The vegetation condition has been inferred from orthophotos, historical land uses and extrapolated vegetation survey results from nearby areas. Historical exploration activities and disturbances from feral camels may have degraded some parts of the application area to a 'very good' condition. Given the remoteness of the location and the limited mining activities in the area, it is likely that some of the application area is in 'excellent' condition.

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 may be at variance to this Principle

The application area occurs within the Mann-Musgrave Block subregion of the Central Ranges Interim Biogeographic Regionalisation of Australia (IBRA) bioregion (GIS Database). The subregion is comprised of a high proportion of Proterozoic ranges including both volcanic and quartzites and derived soil plains, interspersed with red Quaternary sandplains with some permian exposure (CALM, 2002). The sandplains support low open woodlands of either Desert Oak or Mulga over *Triodia basedowii* hummock grasslands. Low open woodlands of Ironwood (*Acacia estrophiolata*) and Corkwoods (*Hakea* spp.) over tussock and hummock grasses often fringe the ranges. The ranges support mixed wattle scrub or *Callitris glaucophylla* woodlands over hummock and tussock grasslands (CALM, 2002).

The vegetation within the application area is broadly mapped as Beard vegetation associations 19, 39 and 230

(GIS Database). These vegetation associations are common and widespread throughout the Central Ranges bioregion, with over 99.9% of the pre-European vegetation extents remaining for each of them (Government of Western Australia, 2013; GIS Database).

Flora and vegetation surveys have not been undertaken over the application area as part of this application. No Threatened Flora, Threatened Ecological Communities or Priority Ecological Communities have been recorded within the application area or within a 40 kilometre radius (DEC, 2013b; GIS Database). Three Priority Flora species have been recorded within 40 kilometres of the application area: *Menkea lutea* (P1), *Calotis latiuscula* (P3) and *Lythrum paradoxum* (Priority 3) (DEC, 2013). The level of biological knowledge of the Musgraves area is relatively low but recent surveys seem to confirm that it is an area of high floral endemism, with a significant number of known Priority species (DEC, 2011). Potential impacts to Priority flora as a result of the proposed clearing may be minimised by the implementation of a flora management condition.

The presence and abundance of weeds in the application area is currently unknown. The presence of weed species would lower the biodiversity value of the application area. Care must be taken to ensure that the proposed clearing activities do not spread or introduce weed species to non-infested areas. Potential impacts to biodiversity as a result of the proposed clearing may be minimised by the implementation of a weed management condition.

A search of the Department of Conservation and Environment's (DEC) NatureMap revealed records of 58 bird, six mammal and 15 reptile species within a 40 kilometre radius (DEC, 2013b). Due to the remote location and lack of studies there is limited information on the faunal assemblages expected in the Central Ranges region.

The deficiency in biological survey data from the area, particularly in regards to fauna, brings a level of uncertainty when assessing the level of biological diversity of the application area. However, the broad-scale vegetation types are common and widespread locally and the surrounding area is largely uncleared. Given the moderate area proposed to be cleared (14 hectares), it is not likely that the proposed clearing will have any significant impact on biodiversity at a regional scale.

Based on the above, the proposed clearing may be at variance to this Principle.

Methodology CA

CALM (2002)

DEC (2011) DEC (2013b)

Government of Western Australia (2013)

GIS Database:

- IBRA WA (Regions Sub Regions)
- Pre-European Vegetation
- Threatened and Priority Flora
- Threatend Ecological Sites Buffered

(b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.

Comments Proposal may be at variance to this Principle

No targeted fauna surveys were undertaken within the application area and the fauna habitats present within the application area have not been recorded.

The three Beard vegetation types occurring within the application area (19, 39 and 230) are common and widespread (Government of Australia, 2013; GIS Database). It could therefore be expected that the main fauna habitats associated with these vegetation associations are also common and occur outside of the application area. There are large areas of intact vegetation outside the application area (GIS Database) and the Central Ranges bioregion is largely uncleared, with approximately 99.97% of pre-European vegetation remaining (Government of Western Australia, 2013; GIS Database).

There are 22 fauna species listed as Threatened Species under *the Environment Protection and Biodiversity Conservation Act 1999* or specially protected under Western Australian legislation that are known from the Mann-Musgrave Block subregion (CALM, 2002; DEC, 2013b). No systematic fauna surveys have been conducted in the Mann-Musgrave Block subregion and fauna survey data is sparse, confined to vertebrates, and mostly site specific (CALM, 2002). Therefore, data from a large search area is needed to predict the potential conservation significant fauna species occurring within the application area.

Many of the 22 conservation significant species are considered highly mobile and/or have a wide distribution so the clearing is unlikely to significantly impact on the species. Several of the species have specific habitat requirements that are not found within the application area, e.g. wetlands. Other species are known mostly from historical records (DEC, 2013b) and based on their current distribution the species are not expected to be in the application area or its surrounds. However, the Mulgara (*Dasycercus cristicauda* and *Dasycercus blythi*), Greater Bilby (*Macrotis lagotis*) and Great Desert Skink (*Liopholis kintorei*) are ground-dwelling Threatened or Priority fauna with limited dispersal abilities and are more likely to be impacted on by any clearing activities. The habitat needed for the Mulgara is spinifex (*Triodia*) hummock grassland (Burbidge, 2004) which is similar in description to Beard vegetation association 230 that is mapped within the application area (GIS Database). Bilbies live in a variety of habitats from open woodland to desert loamy sands (Burbidge, 2004). The entrance

to their burrows is often against a spinifex hummock, termite mound or shrub (Burbidge, 2004) so the application area provides potential habitat for the Bilby. The Great Desert Skink occupies a range of vegetation types, with a major habitat being hummock grasslands with occasional trees such as Acacia and Eucalyptus species, and sandy plains. It is a communal species that digs complex burrow systems which can have five to ten entrances and be continuously occupied for up to seven years (Pavey, 2006; McAplin et al., 2011). All four species construct burrows that the animals live in during the day (Pavey, Cole and Woinarski, 2006; DEC, 2011a). Therefore any core habitat, such as burrows, could be considered significant and should be avoided.

The area proposed to be cleared is moderate (14 hectares), spread over a large application area, and there are large amounts of uncleared vegetation in the Central Ranges. However, there is also very little biological knowledge of the region. Only limited fauna information is available for the Central Ranges and Musgraves area due to a lack of fauna surveys being completed in the remote region (CALM, 2002). The conservation values of the application area in regards to fauna, in particular conservation significant species, are uncertain and cannot be fully understood until on-ground fauna surveys are conducted. Potential impacts to conservation significant fauna as a result of the proposed clearing may be minimised by the implementation of a fauna management condition.

Based on the above, the proposed clearing may be at variance to this Principle.

Methodology Burbidge (2004)

CALM (2002) DEC (2013a) DEC (2013b)

Government of Western Australia (2013)

McAplin et al. (2011)

Pavey (2006)

Pavey, Cole and Woinarski (2006)

GIS Database:

- Bates 1.25 m Orthomosaic Landgate 2002
- IBRA WA (Regions Subregions)
- Pre-European Vegetation

(c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.

Comments Proposal may be at variance to this Principle

According to available databases there are no known records of Threatened Flora within the application area or within a 40 kilometre radius (DEC, 2013b; GIS Database). No flora or vegetation survey was conducted over the application area as part of this application.

There is a general lack of knowledge of flora and vegetation in the Central Ranges bioregion with no systematic surveying on a regional scale (CALM, 2002). This limited information makes it difficult to ascertain the significance of the vegetation in the application area to the continued existence of rare flora.

Based on the above, the proposed clearing may be at variance to this Principle. Potential impacts to Threatened Flora as a result of the proposed clearing may be minimised by the implementation of a flora management condition.

Methodology CALM (2002)

DEC (2013b) GIS Database:

- Threatened and Priority Flora

(d) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community.

Comments Proposal is not likely to be at variance to this Principle

A search of available databases revealed that there are no known Threatened Ecological Communities (TECs) within the application area (GIS Database). The nearest recorded TEC is located approximately 770 kilometres south-west of the application area (GIS Database). The proposed clearing is not likely to impact on any known TEC.

Based on the above, the proposed clearing is not likely to be at variance to this Principle.

Methodology GIS Database:

- Threatened Ecological Sites Buffered

(e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.

Comments Proposal is not at variance to this Principle

The clearing application area falls within the Central Ranges Interim Biogeographic Regionalisation for Australia (IBRA) bioregion in which approximately 99.97% of the pre-European vegetation remains (see table) (Government of Western Australia, 2013; GIS Database). This gives it a conservation status of 'Least Concern' according to the Bioregional Conservation Status of Ecological Vegetation Classes (Department of Natural Resources and Environment, 2002).

The vegetation of the application area has been mapped as the following Beard vegetation associations (GIS Database):

- 19: Low woodland; mulga between sandridges;
- 39: Shrubland; mulga scrub; and

230: Mosaic: Medium sparse woodland; desert oak between sand dunes / Hummock grasslands, shrub steppe; hard spinifex, *Triodia basedowii*.

Over 99.9% of all of these Beard vegetation associations remain at a state and bioregional level (see table) (Government of Western Australia, 2013). These vegetation associations would be given a conservation status of 'Least Concern' at both a state and bioregional level (Department of Natural Resources and Environment, 2002).

	Pre-European Area (ha)*	Current Extent (ha)*	Remaining %*	Conservation Status**	Pre-European % in DEC Managed Lands
IBRA Bioregion – Central Ranges	4,701,519	4,700,206	~99.97	Least Concern	0
Beard Veg Assoc. – State					
19	4,385,295	4,384,250	~99.98	Least Concern	0.63
39	6,613,569	6,602,580	~99.83	Least Concern	12.11
230	1,453,288	1,451,250	~99.86	Least Concern	0
Beard Veg Assoc. – Bioregion					
19	902,248	902,171	~99.99	Least Concern	0
39	404,691	404,691	~100	Least Concern	0
230	1,180,954	1,180,954	~100	Least Concern	0

^{*} Government of Western Australia (2013)

The vegetation under application is not a remnant of vegetation in an area that has been extensively cleared.

Based on the above, the proposed clearing is not at variance to this Principle.

Methodology

Department of Natural Resources and Environment (2002)

Government of Western Australia (2013)

GIS Database:

- IBRA WA (Regions Sub Regions)
- Pre-European 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

There are no permanent watercourses or wetlands within the application area, however, there is one non-perennial lake and one minor non-perennial watercourse (GIS Database). Both of these features are common in the sub-region (GIS Database).

Based on the above, the proposed clearing is at variance to this Principle. However, the vegetation types associated with the minor watercourses are common in the local area, and the moderate area of the proposed clearing is unlikely to have any significant impact on any watercourse or wetland.

^{**} Department of Natural Resources and Environment (2002)

Methodology

GIS Database:

- Geodata, Lakes
- Hydrography, Linear
- Natmap 250K Series Mapping

(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

Hinckley Range Pty Ltd has applied to clear up to 14 hectares within an application area totalling approximately 7,311 hectares. Disturbance will be for access tracks and drill pads which will be rehabilitated following the completion of drilling. The proposed clearing activities are not likely to result in large areas of disturbed or open land. Given the moderate size of the proposed activities, the clearing is not likely to result in appreciable land degradation.

Based on the above, the proposed clearing is not likely to be at variance to this Principle.

Methodology

(h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.

Comments

Proposal is not likely to be at variance to this Principle

The proposed clearing is not located within a Department of Parks and Wildlife (formerly Department of Environment and Conservation) managed conservation reserve (GIS Database). The nearest conservation reserve is Gibson Desert Nature Reserve, which is located approximately 250 kilometres west of the application area (GIS Database). A large proportion of the vegetation in the Central Ranges bioregion remains uncleared, approximately 99.97% (Government of Western Australia, 2013), so it is unlikely that the application area provides an important buffer or ecological linkage to the nature reserve.

The application area occurs within the Register of National Estate site Ranges of the Western Desert (GIS Database). The Ranges of the Western Desert cover approximately 8,016,568 hectares and are a system of ranges with many gorges and valleys. The site is considered significant due to its colourful and spectacular scenery, Aboriginal paintings in Walter James Range, and endemic and rare flora species (Australian Heritage Database, 2011). Despite the area being on the Register of National Estate for natural values, it is considered that the proposed clearing is low impact and of a small scale and will not significantly impact on the environmental values of the area.

Based on the above, the proposed clearing is not likely to be at variance to this Principle.

Methodology

Australian Heritage Database (2011)

Government of Western Australia (2013)

GIS Database:

- DEC Tenure
- Register of National Estate

(i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.

Comments

Proposal is not likely to be at variance to this Principle

There are no permanent watercourses or wetlands within the application area (GIS Database). The Central Ranges has an arid climate with an average annual rainfall of 200 millimetres from both summer and winter rain (CALM, 2002) so any surface water within the application area is likely to remain for only short periods following rainfall events. The proposed clearing is not likely to cause deterioration in the quality of surface water in the local area.

According to the available databases the application area is not located within a Public Drinking Water Source Area (PDWSA) (GIS Database).

The moderate area of the proposed clearing is unlikely to cause deterioration in the quality of underground water.

Based on the above, the proposed clearing is not likely to be at variance to this Principle.

Methodology

CALM (2002)

GIS Database:

- Hydrography, Linear
- Public Drinking Water Source Areas (PDWSAs)

(j) Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.

Comments Proposal is not likely to be at variance to this Principle

The application area is located within the Warburton Basin catchment area (GIS Database). Given the size of the area to be cleared (14 hectares) in relation to the size of the catchment area (17,195,990 hectares) (GIS Database), the proposed clearing is not likely to increase the potential of flooding on a local or catchment scale.

Based on the above, the proposed clearing is not likely to be at variance to this Principle.

Methodology GIS Database:

- Hydrographic Catchments - Catchments

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

Comments

There is one Native Title Claim (WC04/3) over the area under application (GIS Database). This claim has been determined by the Federal Court on behalf of the claimant group. However, the mining tenure has been granted in accordance with the future act regime of the *Native Title Act 1993* and the nature of the act (i.e. the proposed clearing activity) has been provided for in that process, therefore the granting of a clearing permit is not a future act under the *Native Title Act 1993*.

There are no registered Aboriginal Sites of Significance within the application area (GIS Database). It is the proponent's responsibility to comply with the *Aboriginal Heritage Act 1972* and ensure that no Aboriginal Sites of Significance are damaged through the clearing process.

It is the proponent's responsibility to liaise with the Department of Environment Regulation (formerly the Department of Environment and Conservation) and the Department of Water, to determine whether a Works Approval, Water Licence, Bed and Banks Permit, or any other licences or approvals are required for the proposed works.

The clearing permit application was advertised on 1 July 2013 by the Department of Mines and Petroleum inviting submissions from the public. No submissions were received.

Methodology GIS Database:

- Aboriginal Sites of Significance
- Native Title Claims Determined by the Federal Court

4. References

- Australian Heritage Database (2011) Department of Sustainability, Environment, Water, Population and Communities. http://www.environment.gov.au/heritage/index.html (Accessed 6 April 2011).
- Burbidge, A. (2004) Threatened Animals of Western Australia, Department of Conservation and Land Management, Perth, Western Australia.
- CALM (2002) A Biodiversity Audit of Western Australia's 53 Biogeographical Subregions. Central Ranges 1 (CR1 Mann-Musgrave Block Subregion). Department of Conservation and Land Management, Western Australia.
- DEC (2011) Great Victoria Desert Reveals More New Species. Environment and Conservation News Issue 5/11. Department of Environment and Conservation, Western Australia.
- DEC (2013a) NatureBase: Fauna Species Profile Bilby. Department of Environment and Conservation, Western Australia. http://www.dec.wa.gov.au/management-and-protection/animals/fauna-species-profiles.html?showall=&start=2 (Accessed 11 April 2013).
- DEC (2013b) NatureMap: Mapping Western Australia's Biodiversity. Department of Environment and Conservation. http://naturemap.dec.wa.gov.au/default.aspx (Accessed 10 April 2013, 29 July 2013).
- Department of Natural Resources and Environment (2002) Biodiversity Action Planning. Action planning for native biodiversity at multiple scales; catchment bioregional, landscape, local. Department of Natural Resources and Environment, Victoria.
- 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.
- McAplin, S., Duckett, P. and Stow, A. (2011) Lizards Cooperatively Tunnel to Construct a Long-Term Home for Family Members. Plos ONE 6(5): e19041. doi:10.1371/journal.pne.0019041.
- Pavey, C. (2006) Great Desert Skink (Tjakura) *Egernia kintorei*. Northern Territory Government, Department of Natural Resources, Environment and the Arts.
- Pavey, C., Cole, J. and Woinarksi, J. (2006) Crest-tailed Mulgara (Ampurta) *Dasycercus cristicauda*. Northern Territory Government, Department of Natural Resources, Environment and the Arts.

5. Glossary

Acronyms:

BoM Bureau of Meteorology, Australian Government

CALM Department of Conservation and Land Management (now DEC), Western Australia

DAFWA Department of Agriculture and Food, Western Australia

DEC Department of Environment and Conservation, Western Australia

DEH Department of Environment and Heritage (federal based in Canberra) previously Environment Australia

DEP Department of Environment Protection (now DEC), Western Australia

DIA Department of Indigenous Affairs

DLI Department of Land Information, Western Australia

DMP Department of Mines and Petroleum, Western Australia

DoE Department of Environment (now DEC), Western Australia

DoIR Department of Industry and Resources (now DMP), Western Australia

DOLA Department of Land Administration, Western Australia

DoW Department of Water

EP Act Environmental Protection Act 1986, Western Australia

EPBC Act Environment Protection and Biodiversity Conservation Act 1999 (Federal Act)

GIS Geographical Information System
ha Hectare (10,000 square metres)

IBRA Interim Biogeographic Regionalisation for Australia

IUCN International Union for the Conservation of Nature and Natural Resources – commonly known as the World

Conservation Union

RIWI Act Rights in Water and Irrigation Act 1914, Western Australia

s.17 Section 17 of the Environment Protection Act 1986, Western Australia

TEC Threatened Ecological Community

Definitions:

P2

{Atkins, K (2005). Declared rare and priority flora list for Western Australia, 22 February 2005. Department of Conservation and Land Management, Como, Western Australia}:-

P1 Priority One - Poorly Known taxa: taxa which are known from one or a few (generally <5) populations which are under threat, either due to small population size, or being on lands under immediate threat, e.g.

road verges, urban areas, farmland, active mineral leases, etc., or the plants are under threat, e.g. from disease, grazing by feral animals, etc. May include taxa with threatened populations on protected lands. Such taxa are under consideration for declaration as 'rare flora', but are in urgent need of further survey.

Priority Two - Poorly Known taxa: taxa which are known from one or a few (generally <5) populations, at least some of which are not believed to be under immediate threat (i.e. not currently endangered). Such taxa

are under consideration for declaration as 'rare flora', but are in urgent need of further survey.

P3 Priority Three - Poorly Known taxa: taxa which are known from several populations, at least some of which are not believed to be under immediate threat (i.e. not currently endangered). Such taxa are under

consideration for declaration as 'rare flora', but are in need of further survey.

P4 Priority Four – Rare taxa: taxa which are considered to have been adequately surveyed and which, whilst being rare (in Australia), are not currently threatened by any identifiable factors. These taxa require

monitoring every 5–10 years.

R Declared Rare Flora – Extant taxa (= Threatened Flora = Endangered + Vulnerable): taxa which have been

adequately searched for, and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such, following approval by the Minister for the

Environment, after recommendation by the State's Endangered Flora Consultative Committee.

X Declared Rare Flora - Presumed Extinct taxa: taxa which have not been collected, or otherwise verified, over the past 50 years despite thorough searching, or of which all known wild populations have been

destroyed more recently, and have been gazetted as such, following approval by the Minister for the Environment, after recommendation by the State's Endangered Flora Consultative Committee.

(Wildlife Conservation (Specially Protected Fauna) Notice 2005) [Wildlife Conservation Act 1950] :-

Schedule 1 — Fauna that is rare or likely to become extinct: being fauna that is rare or likely to become extinct, are declared to be fauna that is need of special protection.

Schedule 2 Schedule 2 - Fauna that is presumed to be extinct: being fauna that is presumed to be extinct, are

declared to be fauna that is need of special protection.

Schedule 3 - Birds protected under an international agreement: being birds that are subject to an

agreement between the governments of Australia and Japan relating to the protection of migratory birds and birds in danger of extinction, are declared to be fauna that is need of special protection.

birds in danger of extinction, are declared to be radiia that is need of special protection.

Schedule 4 — Other specially protected fauna: being fauna that is declared to be fauna that is in need of

special protection, otherwise than for the reasons mentioned in Schedules 1, 2 or 3.

{CALM (2005). Priority Codes for Fauna. Department of Conservation and Land Management, Como, Western Australia}:-

- P1 Priority One: Taxa with few, poorly known populations on threatened lands: Taxa which are known from few specimens or sight records from one or a few localities on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, active mineral leases. The taxon needs urgent survey and evaluation of conservation status before consideration can be given to declaration as threatened fauna.
- P2 Priority Two: Taxa with few, poorly known populations on conservation lands: Taxa which are known from few specimens or sight records from one or a few localities on lands not under immediate threat of habitat destruction or degradation, e.g. national parks, conservation parks, nature reserves, State forest, vacant Crown land, water reserves, etc. The taxon needs urgent survey and evaluation of conservation status before consideration can be given to declaration as threatened fauna.
- Priority Three: Taxa with several, poorly known populations, some on conservation lands: Taxa which are known from few specimens or sight records from several localities, some of which are on lands not under immediate threat of habitat destruction or degradation. The taxon needs urgent survey and evaluation of conservation status before consideration can be given to declaration as threatened fauna.
- P4 Priority Four: Taxa in need of monitoring: Taxa which are considered to have been adequately surveyed, or for which sufficient knowledge is available, and which are considered not currently threatened or in need of special protection, but could be if present circumstances change. These taxa are usually represented on conservation lands.
- P5 Priority Five: Taxa in need of monitoring: Taxa which are not considered threatened but are subject to a specific conservation program, the cessation of which would result in the species becoming threatened within five years.

Categories of threatened species (Environment Protection and Biodiversity Conservation Act 1999)

- **EX Extinct:** A native species for which there is no reasonable doubt that the last member of the species has died
- **EX(W) Extinct in the wild:** A native species which:
 - (a) is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or
 - (b) has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.
- **CR Critically Endangered:** A native species which is facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria.
- **Endangered:** A native species which:
 - (a) is not critically endangered; and
 - (b) is facing a very high risk of extinction in the wild in the near future, as determined in accordance with the prescribed criteria.
- VU Vulnerable: A native species which:
 - (a) is not critically endangered or endangered; and
 - (b) is facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with the prescribed criteria.
- **CD Conservation Dependent:** A native species which is the focus of a specific conservation program, the cessation of which would result in the species becoming vulnerable, endangered or critically endangered within a period of 5 years.