

1. Application details

1.1. Permit applica	ation de	tails					
Permit application No.: Permit type:		7498/1 Area Permit					
1.2. Proponent details Proponent's name:							
		Westralian Iron Pty Ltd					
1.3. Property details Property: Local Government Area: Colloquial name:		Mining Lease 70/1164 Mining Lease 70/1190					
		Shire of Morawa Koolanooka South Project					
1.4. Application							
Clearing Area (ha) 0.85	No. Tr	rees Method of Clearing Mechanical Removal	For the purpose of: Mineral Exploration				
1.5. Decision on a	pplicati	on					
Decision on Permit Application Decision Date:		n: Grant 1 June 2017					
2. Site Information							
2.1. Existing envir	onment	t and information					
2.1.1. Description of a Vegetation Description	the nativ Beard ve vegetatio applicatio	<i>re vegetation under application</i> getation associations have been mapped for the whole of Western Australia and are useful to look at on in a regional context. The following Beard vegetation association has been mapped within the on area (GIS Database):					
693: Mo thicket.		saic: Low woodland: Allocasuarina huegeliana over mallee and Acacia scrub / Allocasuarina campestris					
	The grea	tter Koolanooka South Magnetite Project wing vegetation units were identified wit	oka South Magnetite Project was surveyed by Ecologia in September 2013 and October 2014. ation units were identified within the application area (Ecologia, 2015):				
	AaAaAnn: <i>Acacia acuminata</i> open shrubland; AaPoAe: Acacia sparse shrubland;						
	AaGpHe:	Allocasuarina acutivalvis open woodland;					
	AcAahAc	cc: Aluta aspera subsp. hesperia open shrubland;					
EeAaEc		: <i>Eucalyptus ebbanoensis</i> sparse woodland;					
	ElsAaPo: Eucalyptus loxophleba subsp. supralaevis open woodland; and						
	AaAaMn: Melaleuca sparse shrubland.						
Clearing Description	Koolanooka South Project. Westralian Iron Pty Ltd proposes to clear up to 0.85 hectares of native vegetation within a total area of approximately 0.85 hectares for the purpose of mineral exploration. The project is located approximately 23 kilometres north of Perenjori, in the Shire of Morawa.						
Vegetation Condition	Pristine: No obvious signs of disturbance (Keighery, 1994);						
	to						
	Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery, 1994).						
Comment	The vegetation condition was assessed by botanists from Ecologia (2015). Rainfall in the month preceding both phases of the flora survey was higher than the long term average (Ecologia, 2015).						
	The application area consists of fourteen individual polygons ranging in size from approximately 0.024 hectares to 0.26 hectares.						

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 vegetation survey of the application area identified seven different vegetation associations within the application area (Ecologia, 2015). Part of the application area is located in areas on and adjacent to existing tracks (GIS Database). The remainder of the clearing is within previously uncleared areas that are in 'Pristine' and 'Excellent' condition (Keighery, 1994; Westralian Iron, 2017; GIS Database).

All of the vegetation units within the application area are representative of the 'Plant Assemblages of the Koolanooka System' Threatened Ecological Community (TEC) (Ecologia, 2015; GIS Database). The TEC supports a large number of endemic or near endemic flora species. Whilst the proposed clearing of 0.85 hectares is only a small portion of the TEC, the proposed clearing is located within the centre of the TEC and contributes to the cumulative impacts on the TEC that result in the continued decline in condition as a result of weed introduction and spread, altered hydrology and soil degradation (DPaW, 2017).

The flora survey of the greater Koolanooka South Magnetite Project recorded a total of 325 plant taxa from 164 families and 59 genera (Ecologia, 2015). The species richness of quadrats varied across the survey from nine to 43 species, with an average of 15 species across all quadrats (Ecologia, 2015).

There were 15 species of Priority flora recorded within the larger flora survey, of which two species are located within the application area; *Acacia muriculata* and *Dodonaea scurra* (Ecologia, 2015). Both of these flora species are listed as Priority 1 (Western Australian Herbarium, 2017). The survey recorded approximately 4,475 *Acacia muriculata* individuals and approximately 28,655 *Dodonaea scurra* individuals (Ecologia, 2015). There were three and 12 individuals recorded within the application area respectively (Westralian Iron, 2017). Both of these species are considered endemic to the Koolanooka and Perenjori Hills, however, the proposed clearing is not likely to have a significant impact on the conservation of these species (DPaW, 2017).

Given the small size of the proposed clearing (0.85 hectares), the application area is not likely to support a high level of faunal species diversity.

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

Methodology DPaW (2017)

Ecologia (2015) Western Australian Herbarium (2017) Westralian Iron (2017)

GIS Database:

- Imagery
- Threatened and Priority Ecological Communities

(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

A fauna survey of the greater Koolanooka South project area identified the following three fauna habitats within the application area (Biologic, 2014):

- Acacia shrublands on undulating plains

- Crest/slope

Rocky gully

The vegetation in the Acacia shrublands on undulating plains habitat is sparse and open (Biologic, 2014). This habitat was present in the north of the application area. The Crest/slope habitat is topographically complex and contains scattered small rocky outcrops and shallow drainage lines that traverse the habitat (Biologic, 2014). This was the most common habitat within the application area.

The rocky gullies have the potential to contain caves and rock pools. The vegetation can be dense and complex in areas of soil deposition or sparse and simple where erosion has occurred (Biologic, 2014). There is a small portion of this habitat in the south of the application area. This habitat was considered to be of importance as it provides potential habitat for several conservation significant fauna species (Biologic, 2014). Whilst this habitat may be significant, the small amount of clearing within this habitat is not likely to have a significant impact on fauna species.

The Malleefowl (*Leipoa ocellata* – Vulnerable) is known to occur in the surrounding areas with numerous records of Malleefowl within close proximity of the application area (GIS Database). The fauna survey recorded a total of 44 Malleefowl mounds (Biologic, 2014). Of these mounds, eight were considered to be recently active and the others ranged in age from moderately old to ancient (Biologic, 2014). None of the mounds were located within the application area, however, the majority of the mounds are located within 200 metres of the application area (Biologic, 2014). The application area does contain habitat suitable for breeding and foraging (Biologic, 2014).

The application area is situated within a large remnant of vegetation (over 3,000 hectares) that is surrounded by cleared agricultural land which is therefore important in the landscape (GIS Database). Habitat fragmentation plays a significant factor in the decline of this species as they are particularly sensitive to grazing by sheep and other introduced herbivores (Benshemesh (2007). Whilst there is only a small amount of clearing proposed (0.85 hectares), the location of the clearing within the centre of the remnant will contribute to further cumulative impacts to the fauna habitat values of this remnant.

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

Methodology Benshemesh (2007) Biologic (2014)

GIS Database:

- Imagery

- Threatened Fauna

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

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

According to available databases, there are no records of any Threatened flora species within the application area (GIS Database). There are several Threatened flora species that are known to occur within 20 kilometres of the application area (GIS Database). The flora survey did not record any Threatened flora species within the application area (Ecologia, 2015).

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

Methodology 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 at variance to this Principle

The application area is located within the 'Plant Assemblages of the Koolanooka System' Threatened Ecological Community (TEC) (Ecologica, 2015; GIS Database). The TEC is comprised of a series of plant communities found on the Koolanooka Hills, its footslopes and the Perenjori Hills (CALM, 2000). All of the vegetation units within the application area are considered to represent elements of this TEC (Ecologia, 2015). The impact to each vegetation unit ranges from 0.198 hectares of the EeAaEc unit to 0.027 hectares of the AaAaMn unit (Westralian Iron Pty Ltd, 2017). Threats to this TEC include mining activities, grazing, clearing, weed invasion and inappropriate fire regimes (CALM, 2000). Cumulative impacts from these threatening processes are causing a decline in the condition of the TEC.

The proposed clearing will use existing tracks where possible however, the majority of the application area is located in previously uncleared areas (GIS Database). Whilst the proposed clearing will impact on a small percentage of the TEC, this should not be considered in isolation, as cumulative impacts on the TEC all contribute towards the continued decline of the condition of the TEC (DPaW, 2017). Given the location of the application area within the centre of the TEC, the proposed clearing has the potential to increase threatening processes within areas of the TEC that are in 'Pristine' and 'Excellent' condition (Ecologia, 2015; GIS Database). The proposed clearing is likely to impact on the long term conservation of the Plant Assemblages of the Koolanooka System TEC through the increase in cumulative impacts (DPaW, 2017; EPA, 2017). Potential impacts from the clearing may be minimised through the implementation of weed management and rehabilitation conditions.

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

Methodology CALM (2000)

DPaW (2017) Ecologia (2015) EPA (2017) Westralian Iron (2017)

GIS Database:

- Imagery

- Threatened and Priority Ecological Communities

(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 may be at variance to this Principle

The application area falls within the Avon Wheatbelt Biogeographic Regionalisation of Australia (IBRA) bioregion in which approximately 18.53% of the pre-European vegetation remains (see table) (Government of Western Australia, 2016; GIS Database).

The vegetation of the application area has been mapped as Beard vegetation association 693. Beard vegetation association 693 is still well represented with over 70% remaining at a state and bioregional level (Government of Western Australia, 2016). Whilst this vegetation association has over 70% remaining, there is only approximately 3,000 hectares remaining (see table) and it is restricted to the Koolanooka Hills area (GIS Database). There is none of this vegetation association within conservation reserves (Government of Western Australia, 2016).

The Avon Wheatbelt Bioregion and Merriden subregion are both below 25% of their pre-European vegetation extent and have been extensively cleared. Aerial imagery indicates that the local area has been extensively cleared for agriculture and the application area lies within a large remnant of vegetation (over 3,000 hectares) (GIS Database). Given the restricted nature of vegetation association 693, it is more vulnerable to impacts from clearing.

Whilst the clearing of 0.85 hectares of vegetation will not significantly reduce remaining extent of the remnant vegetation, its location within the centre of the remnant within previously uncleared areas may contribute to the continued decline of the condition of the remnant.

	Pre- European area (ha)*	Current extent (ha)*	Remaining %*	Conservation Status**	Pre-European % in DPaW Managed Lands (and post clearing %)
IBRA Bioregion – Avon Wheatbelt	9,517,109	1,763,070	~18.53	Vulnerable	2.41 (9.86)
IBRA Subregion – Merriden	6,524,180	1,366,585	~20.95	Vulnerable	2.54 (9.26)
Local Government – Shire of Morawa	351,034	110,786	~31.56	Depleted	14.05 (41.79)
Beard veg assoc. – State					
693	4,396	3,157	~71.8	Least Concern	0 (0)
Beard veg assoc. – Bioregion					
693 4,396		3,157	~71.8	Least Concern	0 (0)
Beard veg assoc. – Subregion					
693	4,396	3,157	~71.8	Least Concern	0 (0)

* Government of Western Australia (2016)

** Department of Natural Resources and Environment (2002)

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

Methodology Department of Natural Resources and Environment (2002) Government of Western Australia (2016)

GIS Databse:

- IBRA Australia

- Imagery

- 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 not at variance to this Principle

There are no watercourses or wetlands within the application area (GIS Database). None of the vegetation units identified during the flora survey are associated with a watercourse (Ecologia, 2015).

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

Methodology Ecologia (2015)

GIS Database:

- Hydrography, linear

(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 have been described as ranges and their slopes on granites, gneisses, and allied rocks: chief soils seem to be ironstone gravels with earthy and sandy matrices (Northcote et al., 1960-68; GIS Database). These soil types are said to be moderately permeable and have a low to moderate wind erodability (Schoknecht, 2002). Therefore, the likelihood of erosion during normal rainfall events is low. Given the small scale of the proposed clearing (0.85 hectares), it is not likely to contribute to appreciable land degradation.

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

Methodology Northcote et al. (1960 - 68) Schoknecht (2002)

> GIS Database: - Soils, Statewide

(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 closest conservation area to the application area is the former Kadji Kadji pastoral lease which is located approximately 9.2 kilometres north of the application area and is managed by DPaW (GIS Database). Given the distance to this area and the small scale of the proposed clearing (0.85 hectares), it is not likely that the proposed clearing will impact on this conservation area or any ecological linkages between conservation areas in the local area (GIS Database).

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

Methodology GIS Database: - DPaW Tenure

(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 watercourses or wetlands within the application area (GIS Database). The average annual rainfall is 291.7 millimetres and the average annual evaporation rate is 2,800 millimetres (BoM, 2017). During normal rainfall events it would be expected that any surface water would evaporate quickly.

The application area is not located within a Public Drinking Water Source Area (PDWSA) (GIS Database). The groundwater salinity within the application area is between 7,000 and 14,000 milligrams per litre of Total Dissolved Solids (TDS) (GIS Database). This is considered to be saline. Given the small scale of the clearing (0.85 hectares), the proposed clearing is not likely to cause the groundwater quality to deteriorate any further.

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

Methodology BoM (2017)

GIS Database:

- Hydrography, linear

- Public Drinking Water Source Areas

(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

There are no watercourses within the application area (GIS Database). Given the proposed clearing is for a number of small areas (no greater than 0.26 hectares) surrounded by existing vegetation, the proposed clearing is unlikely to increase or exacerbate flooding in the local area.

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

Methodology GIS Database:

- Hydrography, linear

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

Comments

There is one Native Title Claim (WC2004/002) over the area under application (Department of Aboriginal Affairs, 2017). 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 is one registered Aboriginal Site of Significance within the application area (Department of Aboriginal Affairs, 2017). 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.

Part of the application area falls within an area related to EPA assessment 1953 which was being assessed at a Public Environmental Review level. This assessment was terminated by the EPA on 22 March 2017 at the request of Westralian Iron (EPA, 2017).

It is the proponent's responsibility to liaise with the Department of Environment Regulation, the Department of Water, and the Department of Parks and Wildlife, 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 20 March 2017 by the Department of Mines and Petroleum inviting submissions from the public. There were no submissions received.

Methodology Department of Aboriginal Affairs (2017) EPA (2017)

4. References

Benshemesh, J. (2007) National Recovery Plan for Malleefowl. Department for Environment and Heritage, South Australia. Biologic (2014) Targeted Level 2 Survey for Vertebrate Fauna at Koolanooka South. Report prepared for Westralian Iron Pty Ltd, by Biologic Environmental Survey, June 2014.

BoM (2017) Bureau of Meteorology Website - Climate Data Online, Morawa Airport. Bureau of Meteorology. http://www.bom.gov.au/climate/averages/tables/cw_008296.shtml. (Accessed 12 April 2017).

CALM (2000) Plant Assemblages of the Koolanooka System, Interim Recovery Plan 2000-2003. Department of Conservation and Land Management, Western Australia, December 2000.

- Department of Aboriginal Affairs (2017) Aboriginal Heritage Inquiry System. Department of Aboriginal Affairs.
- http://maps.dia.wa.gov.au/AHIS2/ (Accessed on 10 April 2017).
- 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.
- DPaW (2017) Advice received in relation to Clearing Permit Application CPS 7498/1. Species and Communities Branch, Department of Parks and Wildlife, Western Australia, April 2017.
- Ecologia (2015) Koolanooka South Magnetite Project Flora and Vegetation Assessment. Report prepared for Westralian Iron Pty Ltd, by Ecologia Environment, January 2015.
- EPA (2017) Advice received in relation to Clearing Permit Application CPS 7498/1. Environmental Protection Authority, Western Australia, April 2017.

Government of Western Australia (2016) 2016 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). Current as of June 2015. WA Department of Parks and Wildlife, 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.
- Northcote, K. H. with Beckmann G G, Bettenay E., Churchward H. M., van Dijk D. C., Dimmock G. M., Hubble G. D., Isbell R. F., McArthur W. M., Murtha G. G., Nicolls K. D., Paton T. R., Thompson C. H., Webb A. A. and Wright M. J. (1960-68): 'Atlas of Australian Soils, Sheets 1 to 10, with explanatory data'. CSIRO and Melbourne University Press: Melbourne.
- Schoknecht (2002) Soil Groups of Western Australia. A simple guide to the main soils of Western Australia. Resource Management Technical Report 246. Edition 3.
- Western Australian Herbarium (2017) FloraBase The Western Australian Flora. Department of Parks and Wildlife. http://florabase.dpaw.wa.gov.au/ (Accessed 10 April 2017).

Westralian Iron (2017) Koolanooka Exploration NVCP Supporting Information. Westralian Iron Pty Ltd, December 2015.

5. Glossary

Acronyms:

ВоМ

Bureau of Meteorology, Australian Government

DAA	Department of Aboriginal Affairs, Western Australia
DAFWA	Department of Agriculture and Food, Western Australia
DEC	Department of Environment and Conservation, Western Australia (now DPaW and DER)
DEE	Department of the Environment and Energy, Australian Government
DER	Department of Environment Regulation, Western Australia
DMP	Department of Mines and Petroleum, Western Australia
DRF	Declared Rare Flora
DoE	Department of the Environment, Australian Government (now DEE)
DoW	Department of Water, Western Australia
DPaW	Department of Parks and Wildlife, Western Australia
DSEWPaC	Department of Sustainability, Environment, Water, Population and Communities (now DEE)
EPA	Environmental Protection Authority, Western Australia
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
PEC	Priority Ecological Community, Western Australia
RIWI Act	Rights in Water and Irrigation Act 1914, Western Australia
TEC	Threatened Ecological Community

Definitions:

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{DPaW (2017) Conservation Codes for Western Australian Flora and Fauna. Department of Parks and Wildlife, Western Australia}:-

Threatened species:

Published as Specially Protected under the *Wildlife Conservation Act 1950*, listed under Schedules 1 to 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora (which may also be referred to as Declared Rare Flora).

Threatened fauna is that subset of 'Specially Protected Fauna' declared to be 'likely to become extinct' pursuant to section 14(4) of the Wildlife Conservation Act.

Threatened flora is flora that has been declared to be 'likely to become extinct or is rare, or otherwise in need of special protection', pursuant to section 23F(2) of the Wildlife Conservation Act.

The assessment of the conservation status of these species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria as detailed below.

CR Critically endangered species

Threatened species considered to be facing an extremely high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950,* in Schedule 1 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

EN Endangered species

Threatened species considered to be facing a very high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950,* in Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

VU Vulnerable species

Threatened species considered to be facing a high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950,* in Schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

EX Presumed extinct species

Species which have been adequately searched for and there is no reasonable doubt that the last individual has died. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Presumed Extinct Fauna and Wildlife Conservation (Rare Flora) Notice for Presumed Extinct Flora.

IA Migratory birds protected under an international agreement

Birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and the Bonn Convention, relating to the protection of migratory birds. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 5 of the Wildlife Conservation (Specially Protected Fauna) Notice.

CD Conservation dependent fauna

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened. Published as Specially Protected under the *Wildlife Conservation Act 1950,* in Schedule 6 of the Wildlife Conservation (Specially Protected Fauna) Notice.

OS Other specially protected fauna

Fauna otherwise in need of special protection to ensure their conservation. Published as Specially Protected under the *Wildlife Conservation Act 1950,* in Schedule 7 of the Wildlife Conservation (Specially Protected Fauna) Notice.

P Priority species

Species which are poorly known; or

Species that are adequately known, are rare but not threatened, and require regular monitoring. Assessment of Priority codes is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

P1 Priority One - Poorly-known species:

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.

P2 Priority Two - Poorly-known species:

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.

P3 Priority Three - Poorly-known species:

Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.

P4 Priority Four - Rare, Near Threatened and other species in need of monitoring:

(a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands.

(b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for Vulnerable, but are not listed as Conservation Dependent.

(c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.