

Clearing Permit Decision Report

1. Application detail	ls	
1.1. Permit application details		
Permit application No.:	6794/1	
Permit type:	Purpose Permit	
1.2. Proponent deta	alls	
Proponent's name:	Barradale Sands Pty Ltd	
1.3. Property details	S	
Property:	Mining Lease 08/497	
	Miscellaneous Licence 08/108	
Local Government Area:	Shire of Ashburton	
Colloquial name:		
4.4 Annlingtion		
1.4. Application		
Clearing Area (ha)	No. Trees Method of Clearing For the purpose of:	
27.195	Mechanical Removal Sand Mining and Associated Activities	
1.5. Decision on ap	plication	
Decision on Permit Application: Grant		
Decision Date:	19 November 2015	
2. Site Information		
2.1 Existing onviro	unment and information	
2.1. Existing enviro		
2.1.1. Description of th	te 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. Two vegetation associations have been mapped within the application area (GIS	
	Dalabase).	
	Beard vegetation association 641: Medium woodland; coolabah & river gum; and	
	Beard vegetation association 1601: Mosaic: Shrublands; snakewood & A. victoria scrub / Hummock grasslands;	
	grass steppe, hard spinifex, Triodia basedowii.	
Clearing Description	Barradale Sands Ptv Ltd proposes to clear up to 27.195 hectares of native vegetation within a total boundary of	
3	approximately 27.195 hectares, for the purposes of sand mining and associated activities. The project is located	
	approximately 137 kilometres south of Onslow, in the Shire of Ashburton.	
Manadadian Osmilidan	Excellent: Vegetation structure intact: disturbance affecting individual species, weeds non-aggressive (Keighery	
Vegetation Condition	1994);	
	<i>"</i>	
	To:	
	Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keignery,	
	1004).	
Comment	There have been no flora or fauna surveys undertaken over the application area. The vegetation condition was	
	inferred from aerial photography (GIS Database).	
3. Assessment of a	pplication against clearing principles	
Comments		
The prope	osal to clear 27.195 hectares of sparse native vegetation within a boundary of 27.195 hectares for the	
purpose o	of sand mining and associated activities is unlikely to have any significant environmental impacts. The	
applicatio	in area occurs within the Astronom subregion of the Gascoyne interim biogeographic Regionalisation	
Beard ver	retation associations 641 and 1601 of which greater than 99% remains at a state and hioregional	
level (Gov	vernment of Western Australia, 2014).	
A search	of the Department of Parks and Wildlife's Threatened and Priority Flora databases within a 5 kilometre	
radius of	the application area revealed no records of Threatened or Priority Flora species (DPaW, 2015).	
According	g to aerial imagery, the vegetation types identified within the application area appear to be well	
represent	ted within the region, and the vegetation within the application area does not form a part of a significant	
remnant ((GIS Database). No Threatened or Priority Ecological Communities have been recorded within the	
applicatio	in area (DPavV, 2015; GIS Database).	

There have been no fauna surveys conducted over the application area. Based on aerial imagery, the application area is not likely to represent significant faunal habitat (GIS Database). However, the riparian vegetation within the application area may provide important habitat for fauna as the vegetation may contain a range of microhabitats including logs, leaf litter and tree hollows and important foraging habitat. There are no records of fauna of conservation significance occurring within the area applied to clear (DPaW, 2015). However given the sparse nature of the native vegetation, the proposed clearing is unlikely to significantly impact the conservation significance of these faunal habitats or impact on any conservation significant fauna.

The application area is not located within any conservation area (GIS Database). There are no conservation areas within 26 kilometres of the application area (GIS Database).

According to available databases, the majority of the application area sits within the non-perrenial Yannarie River (GIS Database). Provided disturbance to riparian habitats is avoided or minimised where possible, and strict weed hygiene procedures are followed, the proposed works are not expected to substantially impact this vegetation association. Potential impacts to riparian vegetation may be minimised through the implementation of a vegetation management condition.

The application area sits within the banks of the Yanarrie River (GIS Database) which could potentially be moderately susceptible if vegetation cover is lost. There is some risk of soil erosion if natural drainage regime is disturbed or slopes are cleared and exposed to high intensity rainfall. Potential impacts from land degradation as a result of the proposed clearing may be minimised by the implementation of a staged clearing condition.

The Yanarrie River is subject to inundation (GIS Database) but remains dry for large periods of the year and only flows and hold surface water following significant rainfall events (CALM, 2002). Therefore it is considered unlikely that the proposed clearing will result in any significant impact to surface water quality. The proposed clearing is not likely to cause a deterioration in the quality of surface or underground water or increase the incidence or intensity of flooding (GIS Database).

Give the movement of vehicles in the area and the proximity to a watercourse, there is potential for weed species to be transported or spread through the local area. Weeds have the potential to significantly change the dynamics of a natural ecosystem and lower the biodiversity of an area. Potential impacts to the biodiversity as a result of the proposed clearing may be minimised by the implementation of a weed management condition.

The application has been assessed against the clearing principles, planning instruments and other matters in accordance with s.510 of the *Environmental Protection Act 1986*, and the proposed clearing is at variance to Principle (f), may be at variance to Principle (g), is not likely to be at variance to Principles (a), (b), (c), (d), (h), (i), and (j), and is not at variance to Principle (e).

Methodology CALM (2002) DPaW (2015)

DPaW (2015) Government of Western Australia (2014) Keighery (1994) GIS Database

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

Comments

There are no Native Title claims over the area under application (Department of Aboriginal Affairs, 2015; GIS Database). 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, Department of Parks and Wildlife 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 14 September 2015 by the Department of Mines and Petroleum inviting submissions from the public. No submissions were received.

Methodology Department of Aboriginal Affairs (2015)

4. References

CALM (2002) Biological Summary of the 2002 Biodiversity Audit for Western Australia, A Biodiversity Audit of Western Australia's 53 Biogeographical Subregions in 2002. Government of Western Australia, Perth, Western Australia.
Department of Aboriginal Affairs (2015) Aboriginal Heritage Enquiry System. Government of Western Australia, viewed 3 November 2015 ">http://maps.dia.wa.gov.au/AHIS2/>.

Department of Parks and Wildlife (DPaW) (2015) NatureMap Department of Parks and Wildlife, viewed 3 November 2015 http://naturemap.dec.wa.gov.au.

Government of Western Australia (2014) 2014 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). Current as of June 2014. 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.

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)
DER	Department of Environment Regulation, Western Australia
DMP	Department of Mines and Petroleum, Western Australia
DRF	Declared Rare Flora
DotE	Department of the Environment, Australian Government
DoW	Department of Water, Western Australia
DPaW	Department of Parks and Wildlife, Western Australia
DSEWPaC	Department of Sustainability, Environment, Water, Population and Communities (now DotE)
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
s.17	Section 17 of the Environment Protection Act 1986, Western Australia
TEC	Threatened Ecological Community

Definitions:

т

{DPaW (2013) Conservation Codes for Western Australian Flora and Fauna. Department of Parks and Wildlife, Western Australia}:-

Threatened species:

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

Threatened Fauna and Flora are further recognised by DPaW according to their level of threat using IUCN Red List criteria. For example Carnaby's Cockatoo *Calyptorynchus latirostris* is specially protected under the *Wildlife Conservation Act 1950* as a threatened species with a ranking of Endangered.

Rankings:

CR: Critically Endangered - considered to be facing an extremely high risk of extinction in the wild. EN: Endangered - considered to be facing a very high risk of extinction in the wild. VU: Vulnerable - considered to be facing a high risk of extinction in the wild.

X Presumed Extinct species:

Specially protected under the *Wildlife Conservation Act 1950,* listed under Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Presumed Extinct Fauna and Wildlife Conservation (Rare Flora) Notice for Presumed Extinct Flora (which may also be referred to as Declared Rare Flora).

IA Migratory birds protected under an international agreement:

Specially protected under the *Wildlife Conservation Act 1950*, listed under Schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice.

Birds that are subject to an agreement between governments of Australia and Japan, China and The Republic of Korea relating to the protection of migratory birds and birds in danger of extinction.

S Other specially protected fauna:

Specially protected under the *Wildlife Conservation Act 1950,* listed under Schedule 4 of the Wildlife Conservation (Specially Protected Fauna) Notice.

P1 Priority One - Poorly-known species:

Species that are known from one or a few collections or sight records (generally less than five), all on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, Shire, rail reserves and Main Roads WA road, gravel and soil reserves, and active mineral leases and under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more localities but

do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes.

Priority Two - Poorly-known species:

Species that are known from one or a few collections or sight records, some of which are on lands not under imminent threat of habitat destruction or degradation, e.g. national parks, conservation parks, nature reserves, State forest, unallocated Crown land, water reserves, etc. Species may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes.

P3 Priority Three - Poorly-known species:

Species that are known from collections or sight records from several localities not under imminent threat, or from few but widespread localities 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 localities but do not meet adequacy of survey requirements and known threatening processes exist that could affect them.

P4

P5

P2

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 do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.
- (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

Priority Five - Conservation Dependent species:

Species that are not threatened but are subject to a specific conservation program, the cessation of which would result in the species becoming threatened within five years.

Principles for clearing native vegetation:

- (a) Native vegetation should not be cleared if it comprises a high level of biological diversity.
- (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.
- (c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare 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.
- (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.
- (f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.
- (g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.
- (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.
- (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.
- (j) Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.