

1.1.

Permit type:

Clearing Permit Decision Report

1. Application details

Permit application No.:

Permit application details 4294/2 **Purpose Permit**

1.2. Proponent details Proponent's name:

BHP Billiton Iron Ore Pty Ltd

1.3. Property details		
Property:	Miscellaneous Licence 45/190	
Local Government Area:	Town of Port Hedland	
Colloquial name:	Mooka Tempoary Construction Camp	
1.4. Application		
Clearing Area (ha) No.	Trees Method of Clearing For the purpose of:	
180	Mechanical Removal Construction Camp and Associated Activities	
1.5. Decision on application		
Decision on Permit Application:	Grant	

Decision Date:

24 May 2012

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. The following Beard vegetation associations have been mapped within the application area (GIS Database):

93: Hummock grasslands, shrub steppe; kanji over soft spinifex;

589: Mosaic: Short bunch grassland savanna/grass plain (Pilbara) / Hummock grasslands, grass steppe; soft spinifex; and

647: Hummock grasslands, dwarf-shrub steppe; Acacia translucens over soft spinifex.

A Level 2 flora and vegetation survey of the application area was conducted by ENV Australia in October 2007 and May 2008. The following four vegetation communities were mapped within the application area (ENV Australia, 2009):

1. Major Drainage Line B: A low open Eucalyptus victrix woodland over an Acacia tumida var. pilbarensis and Acacia colei var. colei shrubland over a very open Triodia epactia hummock grassland:

2. Sandplain O: Scattered low Eucalyptus victrix and Corymbia hamersleyana trees over an open Acacia ancistrocarpa, Acacia tumida var. pilbarensis, Acacia inaequilatera and Acacia trudgeniana shrubland over a low open Acacia stellaticeps shrubland over a Triodia epactia and Triodia lanigera hummock grassland;

3. Sandplain P: A low open Eucalyptus victrix, Corymbia hamersleyana and Corymbia flavescens woodland over an open Acacia colei var. colei shrubland over a low open Acacia stellaticeps and Pluchea tetranthera shrubland over a Triodia epactia hummock grassland; and

Clearing Description BHP Billiton Iron Ore has applied to clear up to 180 hectares within an application area of approximately 860 hectares (GIS Database). The application area is located approximately 19.5 kilometres south of Port Hedland (GIS Database).

The proposed clearing is for the construction of a temporary camp. This will include geotechnical investigations, access tracks, borrow pits, laydown areas, accommodation, waste water treatment plant, fuel storage and a helicopter pad.

Vegetation Condition Pristine: No obvious signs of disturbance (Keighery, 1994);

to

Excellent: Vegetation

disturbance affecting

weeds non-aggressive

individual species,

(Keighery, 1994).

structure intact;

Comment

The vegetation condition was assessed by botanists from ENV Australia.

The vegetation condition was described using a scale based on Trudgen (1988) and has been converted to the corresponding condition from the Keighery (1994) scale.

Clearing permit CPS 4294/1 was granted by the Department of Mines and Petroleum on 2 June 2011 and was valid from 25 June 2011 to 25 June 2016. The clearing permit authorised the clearing of 110 hectares of native vegetation within a boundary of 860 hectares for the purpose of a construction camp and associated activities. An application to amend the permit was received by the Department of Mines and Petroleum on 1 March 2012. The application requested an increase of 70 hectares to the proposed clearing within the same 860 hectare boundary. This increase is not likely to cause any significant additional environmental impacts and BHP Billiton Iron Ore has advised that all

4. Sandplain Q: Scattered low *Corymbia flavescens* trees over an open *Acacia ancistrocarpa* and *Acacia bivenosa* shrubland over scattered low *Acacia stellaticeps* shrubs over a *Triodia epactia* and *Triodia lanigera* hummock grassland.

activities will be undertaken in accordance with the management measures outlined in the original permit application.

8. Assessment of application against clearing principles

(a) Native vegetation should not be cleared if it comprises a high level of biological diversity.

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

The flora and vegetation survey of the application area recorded four different vegetation communities (ENV Australia, 2009). The vegetation of the application area ranged from 'pristine' to 'excellent' with the majority of the application area considered to be in 'pristine' condition (ENV Australia, 2009). There has been no Threatened or Priority Ecological Communities recorded within the application area (ENV Australia, 2009; GIS Database).

There has not been any Declared Rare or Priority Flora recorded within the application area (ENV Australia, 2009; GIS Database). The vegetation communities are found throughout the local area and are not expected to contain a high level of floristic diversity compared to surrounding vegetation.

A desktop review identified a total of 217 fauna species that have the potential to occur within the application area (ENV Australia, 2011). However, given that the majority of the application area consists of sandplain habitat which is consistent with similar habitat in the local area, it is not likely to contain a higher level of faunal diversity than surrounding areas.

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

Methodology ENV Australia (2009) ENV Australia (2011) GIS Database:

- Threatened and Priority Flora

- Threatened 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 is not likely to be at variance to this Principle**

A Level 1 fauna survey was conducted over the application area by ENV Australia in February 2011. This survey identified two broad fauna habitats within the application area: sandplain and minor drainage line (ENV Australia, 2011).

The sandplain habitat is of low complexity and characterised by *Acacia stellaticeps* shrubs over hummock grassland of *Triodia epactia, Triodia secunda* and *Triodia schinzii* (ENV Australia, 2011). Due to the low vegetation complexity, the microhabitats are restricted to leaf litter and soft soils suitable for burrowing (ENV Australia, 2011). The vegetation of this habitat was burnt in 2010 which further reduces its ability to support fauna (ENV Australia, 2011). This habitat is consistent with similar habitat in the vicinity and is widespread in the bioregion (ENV Australia, 2011).

The vegetation of the minor drainage lines is dominated by *Eucalyptus* species and contains an abundance of microhabitats such as logs, hollows, leaf litter and soil suitable for burrowing (ENV Australia, 2011). This habitat is consistent with similar habitat within the local area (ENV Australia, 2011). However, it has value as an ecological link enabling the movement of fauna across the landscape, particularly species such as small birds that require extensive vegetation cover (ENV Australia, 2011). BHP Billiton Iron Ore (2011) has indicated that this habitat type will be avoided during the proposed clearing. The avoidance of these habitat types will also apply to the increased clearing area (BHP Billiton Iron Ore, 2012).

There is the potential for a number of conservation significant fauna to utilise the application area. However, based on the habitats present and the ecology of these species, the application area is not likely to represent significant habitat (ENV Australia, 2011).

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

Methodology	BHP Billiton Iron Ore (2011)
	BHP Billiton Iron Ore (2012)
	ENV Australia (2011)

(c) Native rare f	e vegetation should r lora.	not be cleared if	it includes, or	is necessar	y for the cont	inued existence of,
Comments	Proposal is not lil According to availabl area (GIS Database) 2007 and May 2008.	e databases, there . A flora survey ov	e are no records of ver the application	f Declared Ra area was con	ducted by ENV A	
	Based on the above,	the proposed clea	ring is not likely to	be at varianc	e to this Principle	e.
Methodology	 ENV Australia (2009) GIS Database: Threatened and Pri 					
	e vegetation should r enance of a threaten			he whole or	a part of, or is	s necessary for the
Comments	application area (GIS in October 2007 and being a TEC (ENV A	e database, there a Database). A veç May 2008. No veç ustralia, 2009).	are no records of getation survey of getation communi	Threatened E the application ties within the	n area was cond application area	
Methodology	GIS Database:					
	- Threatened Ecologi		it is simplifies	4		
	e vegetation should r as been extensively		it is significan	t as a remna	ant of native v	egetation in an area
Comments	 Proposal is not at variance to this Principle The application area falls within the Pilbara Biogeographic Regionalisation of Australia (IBRA) bioregion in which approximately 99.9% of the Pre-European vegetation remains (see table) (GIS Database, Shepherd, 2009). The vegetation of the application area has been mapped as the following Beard vegetation associations (GIS Database): 93: Hummock grasslands, shrub steppe; kanji over soft spinifex; 589: Mosaic: Short bunch grassland – savanna/grass plain (Pilbara) / Hummock grasslands, grass steppe; soft Spinifex; and 647: Hummock grasslands, dwarf shrub steppe: <i>Acacia translucens</i> over soft spinifex. 					
According to Shepherd (2009) approximately 100% of these Beard vegetation associations rema state and bioregional level. Therefore the area proposed to be cleared does not represent a sign remnant of native vegetation within an area that has been extensively cleared.						
		Pre-European area (ha)*	Current extent (ha)*	Remaining %*	Conservation Status**	Pre-European % in IUCN Class I-IV Reserves
	IBRA Bioregion – Pilbara	17,804,193	17,785,000	~99.9	Least Concern	6.3
	Beard veg assoc. – State	-	-	-		-
	93	3,044,308	3,044,249	~100	Least	0.4
	589	809,754	809,637	~100	Concern Least	1.6
	647	196,372	196,372	~100	Concern Least Concern	No data available
	Beard veg assoc.	L	L	L		L
	– Bioregion 93	3,042,113	3,042,064	~100	Least	0.4
	589	730,718	730,683	~100	Concern Least	1.8
	647	196,371	196,371	~100	Concern Least	No data available
	* Shepherd (2009)				Concern	

* Shepherd (2009) ** Department of Natural Resources and Environment (2002)

	Natural Resources and Enviror Presumed extinct Endangered Vulnerable Depleted Least concern	onal Conservation Status of Ecological Vegetation Classes (Department of ment 2002) Probably no longer present in the bioregion <10% of pre-European extent remains 10-30% of pre-European extent exists >30% and up to 50% of pre-European extent exists >50% pre-European extent exists and subject to little or no degradation over a majority of this area sed clearing is not at variance to this Principle.
Methodology	Department of Natural Resource Shepherd (2009) GIS Database: - IBRA WA (Regions – Sub Re- - Pre-European Vegetation	ces and Environment (2002)
• •		eared if it is growing in, or in association with, an environment
Comments	Proposal is at variance to There are two minor non-peren unit mapped over these watero community has also been reco Iron Ore (2011) has indicated t activities. The avoidance of this Billiton Iron Ore, 2012).	
Methodology	BHP Billiton Iron Ore (2011) BHP Billiton Iron Ore (2012) ENV Australia (2009) GIS Database: - Hydrography, linear	
	vegetation should not be cle gradation.	eared if the clearing of the vegetation is likely to cause appreciable
Comments	The application area has been system is generally not suscep areas of drainage tracts (Van V the application area, however,	e at variance to this Principle mapped as occurring on the Uaroo land system (GIS Database). This land tible to erosion or significant vegetation degradation apart for some erosion on reeswyk et al., 2004). There are some areas of drainage tracts present within BHP Billiton Iron Ore (2011) has indicated that these areas will be avoided the avoidance of these drainage tracts will also apply to the increased clearing 12).
	sulphate soils in the majority of over 11 times the annual avera	il pH of the application area is 6.0 to 6.5 and there is a low probability of acid the application area (CSIRO, 2009). The average annual evaporation rate is ge rainfall so there is a low probability of the proposed clearing causing ge resulting in rising saline water tables (Bureau of Meteorology, 2011; GIS
	appropriate erosion control me	2011) has indicated that if there are areas where the potential for erosion is high, asures such as gabions, rip rap rock protection and reno mattresses will be s from erosion may be minimised by the implementation of a staged clearing
	Based on the above, the propo	sed clearing is not likely to be at variance to this Principle.
Methodology	BHP Billiton Iron Ore (2011) BHP Billiton Iron Ore (2012) Bureau of Meteorology (2011) CSIRO (2009) Van Vreeswyk et al. (2004) GIS Database: - Evaporation Isopleths - Rangeland Land System Map	ping

	vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on ironmental values of any adjacent or nearby conservation area.
Comments	Proposal is not likely to be at variance to this Principle The application area does not lie within any conservation areas or Department of Environment and Conservation (DEC) managed tenure (GIS Database). The nearest onshore conservation reserve is the Mungaroona Range Nature Reserve approximately 100 kilometres south-west of the application area (GIS Database). Based on the distance between the application area and the nature reserve, the proposed clearing is not likely to impact the environmental values of any conservation areas.
	Based on the above, the proposed clearing is not likely to be at variance to this Principle.
Methodology	GIS Database: - DEC Tenure
	vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration juality of surface or underground water.
Comments	Proposal is not likely to be at variance to this Principle The application area is not located within a Public Drinking Water Source Area (PDWSA) (GIS Database).
	There are two minor non-perennial watercourses that extend into the application area (GIS Database). The majority of the surface water within the application area is likely to occur as sheet flow following heavy rains. With an annual evaporation rate over 11 times the average annual rainfall any surface water is likely to evaporate quickly (Bureau of Meteorology; 2011; GIS Database). BHP Billiton Iron Ore (2011) has indicated that these drainage lines will be avoided during the proposed clearing. The avoidance of these drainage lines will also apply to the increased clearing area (BHP Billiton Iron Ore, 2012).
	The groundwater within the application area is between 1,000 - 3,000 milligrams per litre of Total Dissolved Solids (TDS) (GIS Database). This is considered to be brackish. The proposed clearing is not likely to cause salinity levels within the application area to alter.
	Based on the above, the proposed clearing is not likely to be at variance to this Principle.
Methodology	BHP Billiton Iron Ore (2011) BHP Billiton Iron Ore (2012) Bureau of Meteorology (2011) GIS Database: - Evaporation Isopleths - Groundwater Salinity, Satewide - 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
	ce or intensity of flooding.
Comments	Proposal is not likely to be at variance to this Principle With an average annual rainfall of 314.2 millimetres and an average annual evaporation rate of 3,400 – 3,600 millimetres there is likely to be little surface flow during normal seasonal rains (Bureau of Meteorology, 2011; GIS Database). Whilst large rainfall events may result in the flooding of the area, the proposed clearing is not likely to lead to an increase in incidence or intensity of flooding.
	Based on the above, the proposed clearing is not likely to be at variance to this Principle.
Methodology	Bureau of Meteorology (2011) GIS Database: - Evaporation Isopleths
Planning in	strument, Native Title, Previous EPA decision or other matter.
Comments	
Semilond	There is one native title claim over the area under application (GIS Database). This claim (WC99/3) has been registered with the National Native Title Tribunal on behalf of the claimant group (GIS Database). However, the mining tenure has been granted in accordance with the future act regime of the <i>Native Title Act 1993</i> 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 <i>Native Title Act 1993</i> .
	According to available databases, there are no registered Aboriginal Sites of Significance within the application area (GIS Database). It is the proponent's responsibility to comply with the <i>Aboriginal Heritage Act 1972</i> 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 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.

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The clearing permit amendment CPS 4294/2 was advertised on 16 April 2012 by the Department of Mines and Petroleum inviting submissions from the public. There were no submissions received.

Methodology GIS Database:

- Aboriginal Sites of Significance

- Native Title Claims - Registered with the NNTT

4. References

BHP Billiton Iron Ore (2011) Mooka Temporary Construction Camp. Supporting documentation for a clearing permit application dated March 2011.

BHP Billiton Iron Ore (2012) Email correspondence between BHP Billiton Iron Ore and the Department of Mines and Petroleum. Dated 30 April 2012.

Bureau of Meteorology (2011) BOM Website - Climate statistics for Australian locations, Averages for Port Hedland Airport. Available online at: http://www.bom.gov.au/climate/averages/tables/cw_004032.shtml Accessed on 25 May 2011.

CSIRO (2009) Australian Soil Resource Information System. Available online at: http://www.asris.csiro.au/index_ie.html Accessed on 25 May 2011.

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.

ENV Australia (2009) Outer Harbour Development Plan. Unpublished report for BHP Billiton Iron Ore dated October 2009.

ENV Australia (2011) Mooka West Fauna Assessment. Unpublished report for BHP Billiton Iron Ore dated March 2011.

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. (2009) Adapted from: 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.

Trudgen M.E. (1988) A Report on the Flora and Vegetation of the Port Kennedy Area. Unpublished report prepared for Bowman Bishaw and Associates, West Perth.

Van Vreeswyk, A.M, Payne, A.L, Leighton, K.A & Hennig, P (2004) Technical Bulletin No. 92: An inventory and condition survey of the Pilbara region, Western Australia. Department of Agriculture, South Perth, Western Australia.

5. Glossary

Acronyms:

ВоМ	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
DolR	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
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TEC

Definitions:

{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.
- P2 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 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 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 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.
- Schedule 4 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.
- P3 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 o	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.
EN	 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.