

1. Application details									
1.1. Permi	it applicatio	on details							
Permit application No.:		508/1	508/1						
Permit type: Area Permit									
1.2. Proponent details Proponent's name:			Robe River Iron Associates						
1.3. Prope Property:	erty details	LOT 65	LOT 65 ON PLAN 241547 (POINT SAMSON 6720)						
Local Government Area:			Shire Of Roebourne						
Colloquial nam	ne:	DOLA LGE I123396 - Cape Lambert							
1.4. Applie					_				
Clearing Area (31.5	(ha)	No. Trees		of Clearing cal Removal	For Min	the purpose of: ina			
2. Site Info	ormation								
2.1. Existing environment and information									
		native vegeta				Commont			
Vegetation Description Beards Vegetation		Clearing Description The vegetation of the site		Vegetation Condit Very Good: Vegeta		Comment The areas under application have previously been			
Association #15 Hummock grass	57 -	contains several species that were	alien	structure altered; obvious signs of		listurbed by construction related activities. The Cape			
grass steppe; h	ard spinifex i	n the area by Pill	bara Iron.	disturbance (Keigh	ery	of the area disturbed (Pilbara Iron, 2005a).			
Triodia wiseana et al., 2001). Th		These include Ae avanica, Cylindro		1994)					
of the pre-Europ remaining (She		ulgar var. mamill Phoenix dactylife	var. mamillata,						
2001). sp. (F		sp. (Pilbara Iron,	ilbara Iron, 2005a) enchrus ciliaris a Iron (2005b). All						
	Pilba								
	1	removed before of	species are to be red before completion project, in line with a Iron's best practice						
a		approach (Pilbara 2005a).							
		,							
3. Assessi	ment of app	olication aga	inst clea	ring principles					
(a) Native	vegetation	should not b	e cleared	d if it comprises	s a h	igh level of biological diversity.			
Comments				variance to this					
	The vegetation of the area retains hummock grasslands, which are well represented in the areas surrounding								
	the project area. The areas under application have previously been disturbed by construction related activities (Pilbara Iron, 2005a). Several alien species were recorded in the area, such as Aerva javanica, Cylindropuntia								
fulgar var. mamillata, Phoenix dactylifera (Pilbara Iron, 2005a) and Cenchrus ciliaris (Pilbara Ir are to be removed before completion of the project. There are no Environmentally Sensitive A									
within or in close proximity to				kimity to the application area, therefore it is unlikely to represent an area of outstanding					
	biological d	iiversity.							
Methodology		bara Iron (2005a);							
	Pilbara Iror GIS Databa								
						whole or a part of, or is necessary for the to Western Australia.			
Comments				_					
Je	Proposal is not likely to be at variance to this Principle Specially Protected Fauna: Pilbara Olive Python - Morelia olivaceus barroni - T,								

Banded Hare-wallaby - Lagostrophus fasciatus fasciatus - T, Humpback Whale - Megaptera novaeangliae T, Dugong - Dugong dugons (Other Specially Protected Fauna)

CALM Pilbara Region has indicated that a major consideration regarding the project is the potential impact of light pollution from the camp impacting upon the egg laying activities of marine turtles that are known to utilise the nearby beach.

Priority Listed Fauna: Little North-western Mastiff Bat Mormopterus Ioriae cobourgiana P1, Lerista quadrivincula P1, Eastern Curlew Numenius madagascariensis P4, Western Pebble-mound Mouse (Ngadji) Pseudomys chapmani P4, Indo-Pacific Humpback Dolphin Sousa chinensis P4.

The area of the proposed clearing has previously been used for similar construction camp activities and has undergone rehabilitation to a standard that is no longer acceptable. There are unlikely to be any additional significant impacts on fauna as a consequence of this project going ahead provided that the proponent liaises closely with CALM regional officers to ensure that any potential fauna management issues, such as light pollution impacts on nesting turtles, are adequately addressed as they arise.

Methodology CALM advice (2005)

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

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

Seven populations of Terminalia supranitifolia P1 are known to occur within a 50km radius of the area under application, but none are located within the local area (CALM, 2005). Separate botanical surveys of the 'Construction Camp' and the 'Cape Lambert Quarry Extension' areas were undertaken on 13 January 2005 by a Botanical Advisor in company of a Botanist, both of whom were employed by Pilbara Iron. The resultant report states that no declared Rare or Priority Flora taxa were identified during the surveys (Pilbara Iron, 2005a, Pilbara Iron 2005b). The only Priority Flora taxa, Terminalia supranitifolia (P1), identified within the local area (50km radius) on the CALM datasets was not recorded within the area of the proposed clearing (CALM, 2005). There appears to be limited records of flora of special conservation significance in the local area and this is supported by separate botanical surveys carried out by Pilbara Iron staff earlier this year. On this basis, the proposal is not likely to be at variance to this principle (CALM, 2005).

Methodology CALM (2005); Pilbara Iron (2005a); Pilbara Iron (2005b); GIS Database: Declared Rare and Priority Flora Lists - CALM 13/08/03

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

Comments Proposal is not likely to be at variance to this Principle CALM records indicate that no Threatened Ecological Communities are known to occur in the local area, and on this basis the proposal is not likely to be at variance to this principle (CALM, 2005).

Methodology CALM Advice (2005); GIS Database: Threatened Ecological Communities - CALM 15/7/03

(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 likely to be at variance to this Principle

 The vegetation to be cleared is Beard's Vegetation Association #157 (Hopkins et al, 2001) of which there is ~100% of the pre-European extent still remaining (Shepherd et al, 2001).

 Methodology
 Hopkins et al (2001);

Shepherd et al (2001); GIS Database: Pre-European Extent - DA 01/01

	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 likely to be at variance to this Principle The vegetation to be cleared is not associated with a wetland or watercourse.					
Methodology	 GIS Database: -Hydrography, linear - DOE 1/2/04 -ANCA Wetlands - CALM 08/01 					
	vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable gradation.					
Comments	Proposal is not likely to be at variance to this Principle The likely land degradation risks posed by the clearing of this vegetation are minimal as approximately 40% of the area is already disturbed by previous construction related activities (Pilbara Iron, 2005a). In line with Pilbara Iron's Best Practice approach, disturbance should be kept to a minimum at all times (Pilbara Iron, 2005a, Pilbara Iron 2005b).					
Methodology	Pilbara Iron (2005a); Pilbara Iron (2005b)					
(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 following nature Reserves occur in the local area; 36913, 36915, 39202, 36910, 36907, 36909, 36913, 37089, 32144, 38287 and Dolphin Island Nature Reserve. There is unlikely to be any deleterious impacts on lands managed for conservation in the local area due to the proposed clearing being sufficiently distanced from the reserves. This proposal is not likely to be at variance to this Principle (CALM, 2005).					
Methodology	CALM Advice (2005)					
(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 It is unlikely that the vegetation clearing will have a significant impact on ground or surface water quality given the close proximity of the application area to the coast.					
Methodology	GIS Databases: -Hydrography, linear - DOE 1/2/04 -Groundwater Subareas - WRC 10/10/00 -RIWI Act, Surface Water Areas - WRC 18/10/02					
	Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence of flooding.					
Comments	Proposal is not likely to be at variance to this Principle Flooding impacts are unlikely to occur as a result of the proposed clearing due to its location and rainfall levels in the area. The region within which the project area is located receives an average annual rainfall of 300mm, majority of which falls during December to March. The elevation of the area is gradually sloping, ranging from 5m to 20m. The rainfall level and frequency and topographic slope would not impact on peak flood height or duration with the removal of vegetation.					
Methodology	GIS Databases: -Rainfall, Mean Annual - BOM 30/09/01 -Topographic Contours, Statewide - DOLA 12/09/02					
Planning ins	strument, Native Title, Previous EPA decision or other matter.					
Comments	The vegetation to be cleared is within Special Lease 3116/4623 granted in accordance with Section 116 of the Land Act 1933 and the Iron Ore (Cleveland-Cliffs) Agreement Act 1964.					
	The proposed construction activities within the area under application have not received approval under the Shire of Roebourne Town Planning Scheme No 8.					
	There are two Native Title Claims over the area under application by the Ngaluma/Injibandi peoples and the Wong-goo-tt-oo peoples. However, the Special Lease has been granted so therefore the granting of a clearing					

Methodology permit does not constitute a future act under the Native Title Act. Shire of Roebourne submission (2005) GIS Database - Native Title Claims - DLI 19/12/04

4. Assessor's recommendations

Purpose	Method	Applied area (ha)/ trees	Decision	Comment / recommendation
Mining		Grant	Assessable criteria have been addressed and no objections were raised.	
				It is recommended that the proponent liaises closely with regional Department of Conservation and Land Management officers to ensure that any potential fauna management issues, such as light pollution impacts on nesting turtles, are adequately addressed as they arise.
				It is recommended that the proposal area be rehabilitated following cessation of activities as set out in the Iron Environmental Management System Rehabilitation Handbook (MacMillan K, 2004) with consideration for the following amendments: Section 1.6 - Vegetation used for rehabilitation is to be endemic to the local area found within a 5km radius of the proposal area. Section 1.8 - Soil stabilisation is to be achieved using a mulch consisting of coastal heath, if available, or soil stabilisation matting to prevent wind erosion of top soil during vegetation establishment.
				The Assessing Officer recommends that the permit should be granted.

5. References

Hopkins, A.J.M., Beeston, G.R. and Harvey J.M. (2001) A database on the vegetation of Western Australia. Stage 1. CALMScience after J. S. Beard, late 1960's to early 1980's Vegetation Survey of Western Australia, UWA Press.

Keighery, BJ (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.

Pilbara Iron (2005a) Botanical Survey Advice: Environment Department. Project Number 2004/1 Document Number 107946. Department of Environment Reference: TRIM KNI667

Pilbara Iron (2005b) Botanical Survey Advice: Environment Department. Project Number 2005/2 Document Number 107947. Department of Environment Reference: TRIM KNI668

Shepherd, D.P., Beeston, G.R. and Hopkins, A.J.M. (2001) Native Vegetation in Western Australia, Extent, Type and Status. Resource Management Technical Report 249. Department of Agriculture, Western Australia.