



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Purpose Permit Number: 3708 /2
File Number: 2011/003665-1
Duration of Permit: From 21 August 2010 to 30 June 2015

PERMIT HOLDER

Hamersley Iron Pty Ltd

LAND ON WHICH CLEARING IS TO BE DONE

Miscellaneous Licence 47/234
Karijini Drive road reserve (Lot 131 on Plan 218877)

PURPOSE FOR WHICH CLEARING IS TO BE DONE

Clearing for the purpose of camp construction and road upgrades.

CONDITIONS

1. Type of clearing authorised

The Permit Holder must not clear more than 40 hectares of native vegetation within the area shaded yellow on attached Plan 3708/2.

2. Application

This Permit allows the Permit Holder to authorise persons, including employees, contractors and agents of the Permit Holder, to clear native vegetation for the purposes of this Permit subject to compliance with the conditions of this Permit and approval from the Permit Holder.

3. Avoid, minimise etc clearing

In determining the amount of native vegetation to be cleared authorised under this Permit, the Permit Holder must have regard to the following principles, set out in order of preference:

- (a) avoid the clearing of native vegetation;
- (b) minimise the amount of native vegetation to be cleared; and
- (c) reduce the impact of clearing on any environmental value.

4. Dieback and weed control

When undertaking any clearing or other activity authorised under this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *weeds*:

- (a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- (b) ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- (c) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

5. Records must be kept

The Permit Holder must maintain the following records in relation to the clearing of native vegetation authorised under this Permit:

- (a) the location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings;
- (b) the date that the area was cleared;
- (c) the size of the area cleared (in hectares); and
- (d) purpose for which clearing was undertaken.

6. Reporting

- (a) The Permit Holder must provide to the CEO on or before 31 July of each year, a written report:
 - (i) of records required under condition 5 of this Permit; and
 - (ii) concerning activities done by the Permit Holder under this Permit between 1 July and 30 June of the preceding year.
- (b) Prior to 30 March 2015, the Permit Holder must provide to the CEO a written report of records required under condition 5 of this Permit where these records have not already been provided under condition 6(a) of this Permit.

DEFINITIONS

The following meanings are given to terms used in this Permit:

fill means material used to increase the ground level, or fill a hollow;

mulch means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation; and

weed/s means a species listed in Appendix 3 of the "Environmental Weed Strategy" published by the Department of Conservation and Land Management (1999), and plants declared under section 37 of the *Agriculture and Related Resources Protection Act 1976*.

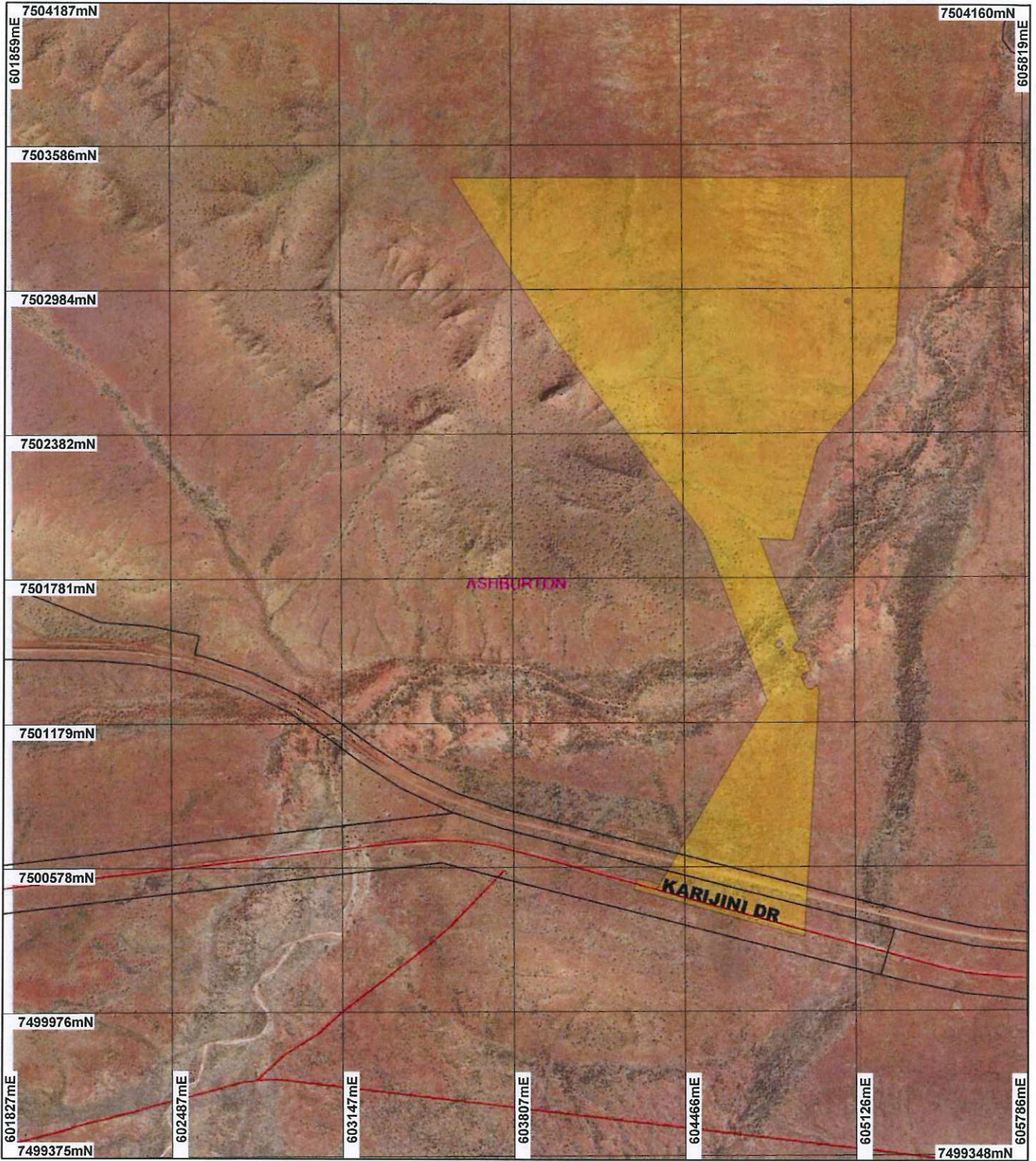


Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

*Officer delegated under Section 20
of the Environmental Protection Act 1986*

15 June 2011

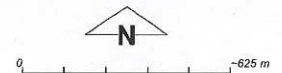
Plan 3708/2



LEGEND

- Clearing Instruments**
- Areas Approved to Clear
 - Road Centrelines
 - Cadastre
 - Local Government Authorities

Mount Bruce 50cm
Orthomosaic - Landgate
2004



Geocentric Datum Australia 1994

Note: The data on this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

[Signature] Date 15/6/06
K Faulkner

Officer with delegated authority under Section 20 of the Environmental Protection Act 1986

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



Department of
Environment and Conservation

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1. Application details

1.1. Permit application details

Permit application No.: 3708/2
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Hamersley Iron Pty Ltd

1.3. Property details

Property: L47/234 (Miscellaneous Licence 47/234)
LOT 131 ON PLAN 218877 Karijini Drive road reserve (MOUNT SHEILA 6751)
Local Government Area: Ashburton
Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
38		Mechanical Removal	Mineral Production
2		Mechanical Removal	Road construction or maintenance

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 15 June 2011

2. Site Information

2.1. Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description	Clearing Description	Vegetation Condition	Comment
<p>Beard vegetation associations have been mapped at a 1:250,000 scale for the whole of Western Australia. Three Beard vegetation associations have been mapped within the application area (GIS Database; Shepherd, 2007):</p> <p>18: Low woodland; mulga (<i>Acacia aneura</i>);</p> <p>29: Sparse low woodland; mulga, discontinuous in scattered groups; and</p> <p>82: Hummock grasslands, low tree steppe; snappy gum over <i>Triodia wiseana</i>.</p> <p>The application area was surveyed by Biota Environmental Sciences staff between 25 and 28 April 2008 (Biota Environmental Sciences, 2008). The following vegetation types were identified within the application area.</p> <p>EIAmTw: <i>Eucalyptus leucophloia</i> scattered low trees over <i>Acacia maitlandii</i> shrubland over <i>Triodia wiseana</i> hummock grassland on the low stony hills of the Newman Land System along the north-western section of the study area (approximately 30.16 hectares);</p> <p>AanAprTmTw: <i>Acacia aneura</i>, <i>A. pruinocarpa</i> low open woodland over <i>Triodia melvillei</i>, <i>T. wiseana</i> hummock grassland on the broad plains of the Boolgeeda Land System which dominate the study area (approximately 175.85 hectares);</p>	<p>The applicant has applied to clear up to 40 hectares of native vegetation within an area of approximately 220 hectares for the purpose of establishing temporary camp facilities and upgrading the access road.</p> <p>The clearing of the application area is required for the placement of buildings and infrastructure for the proposed construction camp and village (Biota Environmental Sciences, 2008).</p> <p>Clearing of the application area will be by a bulldozer with the blade down (Hamersley Iron, 2010). Cleared vegetation and topsoil will be stockpiled for use in rehabilitation (Hamersley Iron, 2010).</p>	<p>Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994)</p>	<p>The application area is located in the Pilbara region, approximately 25 kilometres north-east of Tom Price (GIS Database). The vegetation condition was derived from a vegetation survey conducted by Biota Environmental Sciences (2008).</p>

EvAcitHT: Eucalyptus victrix low open woodland over Acacia citrinoviridis tall open scrub over Themeda triandra open tussock grassland along the creekline which runs through the centre of the study area, comprising part of the Jurrawarrina Land System (approximately 1.94 hectares); and

AanTHt: Acacia aneura low open forest over Themeda triandra tussock grassland on plains fringing the above creekline (approximately 4.09 hectares) (Biota Environmental Sciences, 2008).

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

3. Assessment of application against clearing principles

Comments

Clearing Permit CPS 3708/1 has been amended to increase the footprint of the area covered by Clearing Permit CPS 3708/1 to include Karijini Drive road reserve and the size of clearing from 38 hectares to 40 hectares.

The assessment against the clearing principles has not changed and can be found in the Clearing Permit Decision Report CPS 3708/1.

Methodology

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

Comments

There is one native title claim (WC97/089) over the area under application (GIS Database). This claim has been registered with the National Native Title Tribunal on behalf of the claimant group. However, the tenement 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 numerous registered Aboriginal sites of significance within and in close proximity to 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 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.

Hamersley Iron Pty Ltd referred the Marandoo Mine Phase 2 (MMP2) proposal to the Environmental Protection Authority (EPA) on 3 July 2007. The EPA provided the following recommendation on 26 July 2007 - "Formal Assessment - Public Environmental Review". Following the assessment and subsequent appeal periods the Minister for Environment; Youth determined on the 7 July 2010 that the proposal may be implemented subject to conditions and procedures.

The application area was referred to the Environmental Protection Authority (EPA) by the Department of Mines and Petroleum (DMP) on the 14 August 2008. The application triggered referral criteria as per the Memorandum of Understanding (MoU) between DMP (previously The Department of Industry and Resources DoIR) and the EPA. The EPA set the level of assessment as 'Not Assessed - Managed under Part V of the EP Act (Clearing)'. This decision was subsequently appealed and the appeal was dismissed by the Minister for Environment on 23 March 2009.

The clearing permit application was advertised on 26 April 2010 by the Department of Mines and Petroleum inviting submissions from the public. One submission was received stating no objection to the proposed clearing.

Hamersley Iron Pty Ltd has received construction approval from Main Roads WA to construction within Karijini Drive road reserve.

Methodology

GIS Database
- Aboriginal Sites of Significance
- Native Title Claims

4. References

- Biota Environmental Sciences (2008) Marandoo Construction Camp: Native Vegetation Clearing Permit Report. Prepared for Hamersley Iron Pty Ltd. Unpublished report dated June 2008.
- Hamersley Iron (2010) Application for Purpose Clearing Permit - Additional Clearing - Marandoo Construction Camp Miscellaneous Licence 47/234. Supporting documentation.
- 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. (2007) 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.

5. Glossary

Term	Meaning
BCS	Biodiversity Coordination Section of DEC
CALM	Department of Conservation and Land Management (now BCS)
DAFWA	Department of Agriculture and Food
DEC	Department of Environment and Conservation
DEP	Department of Environmental Protection (now DEC)
DoE	Department of Environment
DoIR	Department of Industry and Resources
DRF	Declared Rare Flora
EPP	Environmental Protection Policy
GIS	Geographical Information System
ha	Hectare (10,000 square metres)
TEC	Threatened Ecological Community
WRC	Water and Rivers Commission (now DEC)