



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 4395/5
Permit Holder:	Robe River Mining Co Pty Ltd
Duration of Permit:	24 December 2011 – 30 September 2021

The Permit Holder is authorised to clear native vegetation subject to the following conditions of this Permit.

PART I – CLEARING AUTHORISED

1. Purpose for which clearing may be done

Clearing for the purposes of building construction and associated infrastructure, geotechnical investigations, increasing drainage capacity, vehicle access and a constructing a laydown area.

2. Land on which clearing is to be done

LOT 366 ON PLAN 193042 (WICKHAM 6720)
LOT 3000 ON PLAN 51839 (WICKHAM 6720)
LOT 3001 ON PLAN 51839 (WICKHAM 6720)
LOT 3002 ON PLAN 51839 (WICKHAM 6720)
LOT 366 ON PLAN 193042 (WICKHAM 6720)
LOT 392 ON PLAN 217328 (WICKHAM 6720)
LOT 600 ON PLAN 71797 (WICKHAM 6720)
LOT 603 ON PLAN 71797 (WICKHAM 6720)
LOT 604 ON PLAN 71797 (WICKHAM 6720)
LOT 606 ON PLAN 71797 (WICKHAM 6720)
LOT 607 ON PLAN 71797 (WICKHAM 6720)
LOT 64 ON PLAN 57724 (WICKHAM 6720)
LOT 763 ON PLAN 193050 (WICKHAM 6720)
LOT 775 ON PLAN 31274 (WICKHAM 6720)
LOT 768 ON PLAN 195260 (WICKHAM 6720)
LOT 368 ON PLAN 219420 (WICKHAM 6702)
LOT 291 ON PLAN 185487 (WICKHAM 6702)
LOT 292 ON PLAN 185487 (WICKHAM 6702)
LOT 770 ON PLAN 221220 (WICKHAM 6720)
LOT 769 ON PLAN 221220 (WICKHAM 6720)
LOT 120 ON PLAN 214456 (WICKHAM 6720)
LOT 289 ON PLAN 214782 (WICKHAM 6720)
LOT 292 ON PLAN 185487 (WICKHAM 6720)
LOT 365 ON PLAN 193042 (WICKHAM 6720)
POINT SAMSON- ROEBOURNE ROAD RESERVE (PIN 11254981; 1137935; 1137945)
(WICKHAM 6720)
POINT SAMSON- ROEBOURNE ROAD RESERVE (11736610; 11424657) (POINT SAMSON
6720)
JACKARANDA ROAD RESERVE (PIN 11027274)
CARSE STREET ROAD RESERVE (PIN 1342810)
TAMARIND PLACE ROAD RESERVE (PIN 11027435; 11254985)
SPINIFEX DRIVE ROAD RESERVE (PIN 11254984) (WICKHAM 6720)

STURT PEA ROAD RESERVE (PIN 1128888, 11288884, 11292725) (WICKHAM 6720)
WALCOTT DRIVE ROAD RESERVE (PIN 11028050; 1145413) (WICKHAM 6720)
WICKHAM DRIVE ROAD RESERVE (PIN 1137941) (WICKHAM 6720)
UNALLOCATED CROWN LAND (PIN 1191239) (WICKHAM 6720)
UNALLOCATED CROWN LAND (PIN 11261384) (WICKHAM 6720)

3. Area of Clearing

The Permit Holder must not clear more than 75.68 hectares of native vegetation within the areas cross-hatched yellow on attached Plan 4395/5.

4. Clearing not authorised

The Permit Holder shall not clear any native vegetation:

- (a) after 24 December 2016
- (b) unless the purpose for which the clearing is authorised is enacted within 3 months of the clearing being undertaken

5. 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.

6. Type of clearing authorised

This Permit authorises the Permit Holder to clear native vegetation for activities to the extent that the Permit Holder has the right to access land under the *Land Administration Act 1997* or any other written law.

PART II – ASSESSMENT SEQUENCE AND MANAGEMENT PROCEDURES

7. 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.

8. Retain vegetative material and topsoil, revegetation and rehabilitation

The Permit Holder shall:

- (a) retain the vegetative material and topsoil removed by clearing authorised under this Permit and stockpile the vegetative material and topsoil in an area that has already been cleared.
- (b) within 12 months following completion of clearing authorised under this permit, *revegetate* and *rehabilitate* the area(s) that are no longer required for the purpose for which they were cleared under this Permit by:
 - (i) re-shaping the surface of the land so that it is consistent with the surrounding 5 metres of uncleared land; and
 - (ii) laying the vegetative material and topsoil retained under condition 8(a) on the cleared area(s) that are no longer required for the purpose for which they were cleared under this Permit.
- (c) within 24 months of laying the vegetative material and topsoil on the cleared area in accordance with condition 8(b) of this Permit:
 - (i) engage an *environmental specialist* to determine the species composition, structure and density of the area *revegetated* and *rehabilitated*; and
 - (ii) where, in the opinion of an *environmental specialist*, the composition structure and density determined under condition 8(c)(i) of this Permit will not result in a similar species composition, structure and density to that of pre-clearing vegetation types in that

area, *revegetate* the area by deliberately *planting* and/or *direct seeding* native vegetation that will result in a similar species composition, structure and density of native vegetation to pre-clearing vegetation types in that area and ensuring only *local provenance* seeds and propagating material are used.

- (d) where additional *planting* or *direct seeding* of native vegetation is undertaken in accordance with condition 8(c)(ii) of this permit, the Permit Holder shall repeat condition 8(c)(i) and 8(c)(ii) within 24 months of undertaking the additional *planting* or *direct seeding* of native vegetation.
- (e) where a determination by an *environmental specialist* that the composition, structure and density within areas *revegetated* and *rehabilitated* will result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, as determined in condition 8(c)(i) and (ii) of this permit, that determination shall be submitted for the CEO's consideration. If the CEO does not agree with the determination made under condition 8(c)(ii), the CEO may require the Permit Holder to undertake additional *planting* and *direct seeding* in accordance with the requirements under condition 8(c)(ii).

PART III - RECORD KEEPING AND REPORTING

9. Records must be kept

The Permit Holder must maintain the following records for activities done pursuant to this Permit:

- (a) In relation to the clearing of native vegetation authorised under this Permit:
 - (i) the species composition, structure and density of the cleared area;
 - (ii) 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;
 - (iii) the date that the area was cleared; and
 - (iv) the size of the area cleared (in hectares).
- (b) In relation to the *revegetation* and *rehabilitation* of areas pursuant to condition 8 of this Permit:
 - (i) the location of any areas *revegetated* and *rehabilitated*, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
 - (ii) a description of the *revegetation* and *rehabilitation* activities undertaken;
 - (iii) the size of the area *revegetated* and *rehabilitated* (in hectares);
 - (iv) the species composition, structure and density of *revegetation* and *rehabilitation*, and
 - (v) a copy of the environmental specialist's report.

10. Reporting

- (a) The Permit Holder must provide to the CEO on or before 30 June of each year, a written report:
 - (i) of records required under condition 9 of this Permit; and
 - (ii) concerning activities done by the Permit Holder under this Permit between 1 January and 31 December of the preceding calendar year.
- (b) If no clearing authorised under this Permit was undertaken between 1 January to 31 December of the preceding calendar year, a written report confirming that no clearing under this permit has been carried out, must be provided to the CEO on or before 30 June of each year.
- (c) Prior to 30 June 2021, the Permit Holder must provide to the CEO a written report of records required under condition 9 of this Permit where these records have not already been provided under condition 10 (a) of this Permit.

DEFINITIONS

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

direct seeding means a method of re-establishing vegetation through the establishment of a seed bed and the introduction of seeds of the desired plant species;

environmental specialist means a person who is engaged by the Permit Holder for the purpose of providing environmental advice, who holds a tertiary qualification in environmental science or equivalent, and has experience relevant to the type of environmental advice that an environmental specialist is required to provide under this Permit;

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

local provenance means native vegetation seeds and propagating material from natural sources within 100 kilometres of the area cleared;

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;

planting means the re-establishment of vegetation by creating favourable soil conditions and planting seedlings of the desired species;

regenerate/ed/ion means re-establishment of vegetation from in situ seed banks and propagating material (such as lignotubers, bulbs, rhizomes) contained either within the topsoil or seed-bearing mulch;

rehabilitate/ed/ion means actively managing an area containing native vegetation in order to improve the ecological function of that area;

revegetate/ed/ion means the re-establishment of a cover of *local provenance* native vegetation in an area using methods such as natural *regeneration*, *direct seeding* and/or *planting*, so that the species composition, structure and density is similar to pre-clearing vegetation types in that area; and

weed/s means any plant -

- (a) that is a declared pest under section 22 of the *Biosecurity and Agriculture Management Act 2007*; or
- (b) published in a Department of Parks and Wildlife Regional Weed Rankings Summary, regardless of ranking; or
- (c) not indigenous to the area concerned.

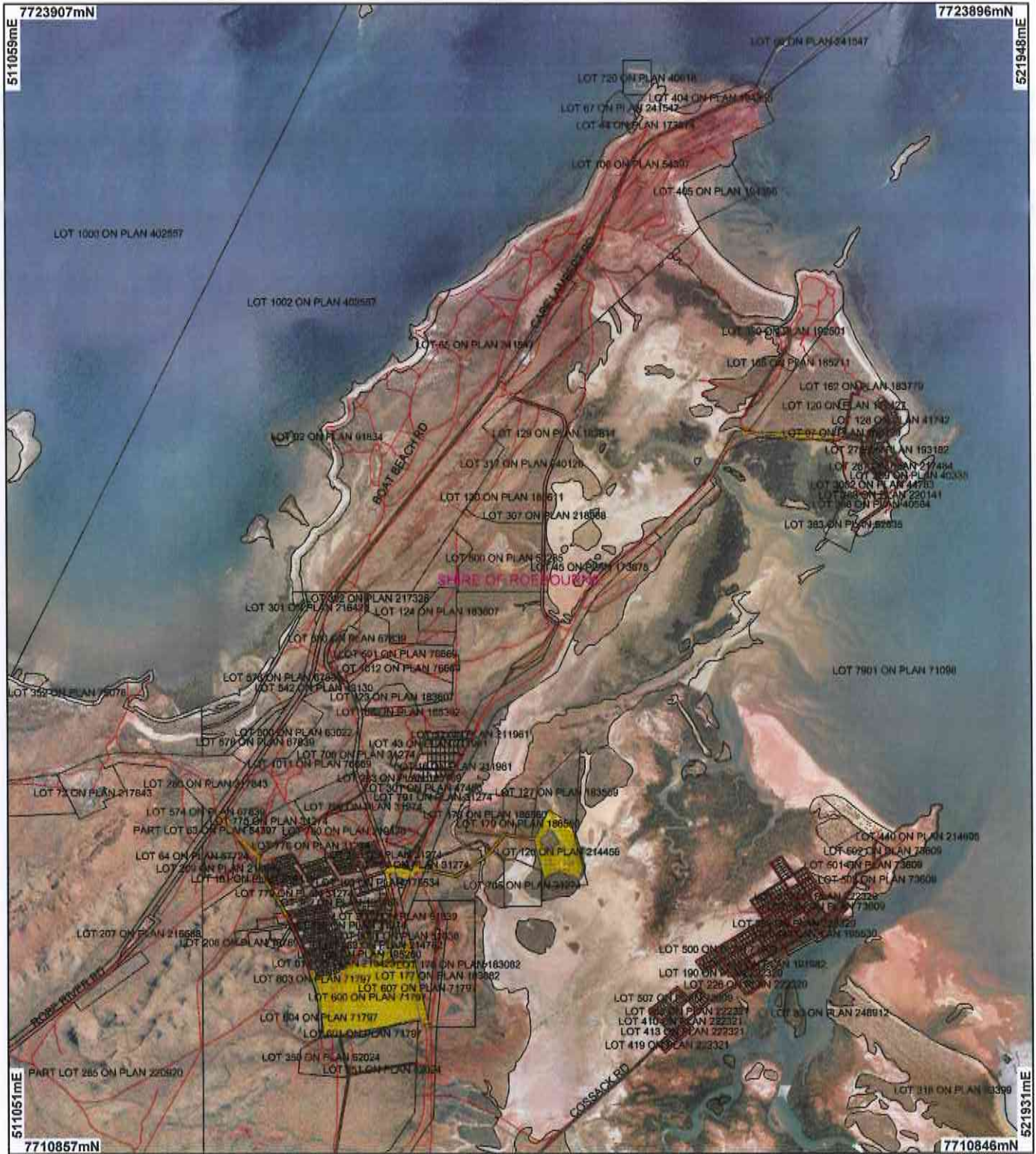


M Warnock
SENIOR MANAGER
CLEARING REGULATION








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

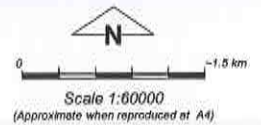
9 October 2014

Plan 4395/5



LEGEND

-  Road Centrelines
-  Local Government Authorities
-  Cadastre for labelling
-  Roebourne 50cm Orthomosaic - Landgate 2007_1
-  Clearing Instruments
-  Area Approved to Clear
-  Roebourne 50cm Orthomosaic - Landgate 2007



Geocentric Datum Australia 1994

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

M Warnock Date 9/10/14
M Warnock

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.



Government of Western Australia
Department of Environment Regulation

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* Project Data is denoted by asterisk. This data has not been quality assured. Please contact map author for details.



Clearing Permit Decision Report

Government of Western Australia
Department of Environment Regulation

1. Application details

1.1. Permit application details

Permit application No.: 4395/5
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Robe River Mining Co Pty Ltd

1.3. Property details

Property: LOT 64 ON PLAN 57724 (Lot No. 64 CAPE LAMBERT WICKHAM 6720)
LOT 775 ON PLAN 31274 (WICKHAM 6720)
LOT 392 ON PLAN 217328 (WICKHAM 6720)
LOT 600 ON PLAN 71797 (House No. 8 THALGU WICKHAM 6720)
LOT 603 ON PLAN 71797 (WICKHAM 6720)
LOT 604 ON PLAN 71797 (WICKHAM 6720)
LOT 768 ON PLAN 195260 (Lot No. 768 TAMARIND WICKHAM 6720)
LOT 368 ON PLAN 219420 (Lot No. 368 WICKHAM WICKHAM 6720)
ROAD RESERVE (WICKHAM 6720)
LOT 289 ON PLAN 214782 (House No. 289 TAMARIND WICKHAM 6720)
LOT 292 ON PLAN 185487 (WICKHAM 6720)
LOT 365 ON PLAN 193042 (WICKHAM 6720)
LOT 291 ON PLAN 185487 (WICKHAM 6720)
LOT 769 ON PLAN 221220 (Lot No. 769 CARSE WICKHAM 6720)
LOT 770 ON PLAN 221220 (Lot No. 770 CARSE WICKHAM 6720)
LOT 366 ON PLAN 193042 (WICKHAM 6720)
LOT 3000 ON PLAN 51838 (Lot No. 3000 POINT SAMSON-ROEBOURNE WICKHAM 6720)
LOT 607 ON PLAN 71797 (WICKHAM 6720)
LOT 606 ON PLAN 71797 (WICKHAM 6720)
LOT 3001 ON PLAN 51838 (Lot No. 3001 SPINIFEX WICKHAM 6720)
LOT 3002 ON PLAN 51839 (Lot No. 3002 SPINIFEX WICKHAM 6720)
LOT 763 ON PLAN 193050 (WICKHAM 6720)
UNALLOCATED CROWN LAND (WICKHAM 6720)
LOT 120 ON PLAN 214456 (WICKHAM 6720)
ROAD RESERVE (WICKHAM 6720)
ROAD RESERVE (POINT SAMSON 6720)
Local Government Area: Shire of Roebourne

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
75.68		Mechanical Removal	Drainage

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 9 October 2014

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
Beard Vegetation Association: 157 - Hummock grasslands, grass steppe; hard spinifex Triodia wiseana. 589 - Mosaic; Short bunch grassland - savanna / grass plain (Pilbara) / Hummock grasslands, grass steppe; soft spinifex soft spinifex (Shepherd et	The application is to clear 75.68 hectares for the purposes of building construction and associated infrastructure, geotechnical investigations, increasing drainage capacity, vehicle access and a constructing a	Excellent: Vegetation structure intact; disturbance affecting individual species, weeds non-aggressive (Keighery 1994) To	The vegetation condition ranges from excellent to a completely degraded (Keighery, 1994) condition, with the majority considered to be very good (Keighery, 1994). The vegetation condition was

al, 2001).

laydown area.

In September 2010 Rio Tinto (2010) undertook flora and vegetation surveys of the Wickham town expansion study area and identified the following vegetation units within the application area:

Vegetation of minor narrow drainage channels of rocky hills and surrounding red sand plains:

MF1 - *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* open scrub over *Acacia stellaticeps*, *Scaevola spinescens* low scattered shrubs over *Triodia schinzii* scattered hummock grasses.

MF2 - *Corymbia hamersleyana* scattered low trees over *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* tall open shrubland over *Acacia tumida* var. *pilbarensis*, *Eremophila longifolia* open shrubland over *Acacia stellaticeps*, *Scaevola spinescens* low open shrubland over *Triodia epactia* open hummock grassland.

SP1 - *Acacia stellaticeps* low open heath over *Triodia schinzii*, *Triodia epactia* hummock grassland.

SP2 - *Grevillea wickhamii* tall open shrubland over *Santalum lanceolatum*, *Acacia bivenosa* open shrubland over *Acacia stellaticeps*, *Diplopeltis eriocarpa* low open shrubland over *Triodia schinzii*, *Triodia epactia* open hummock grassland.

SP3 - *Dolichandrone heterophylla*, *Acacia bivenosa* shrubland over *Acacia stellaticeps*, *Scaevola spinescens* shrubland to low open heath over *Triodia schinzii*, *Triodia epactia* hummock grassland.

SP4 - *Grevillea wickhamii*, *Acacia tumida* var. *pilbarensis* tall open shrubland to tall open scrub over *Acacia tumida* var. *pilbarensis*, *Acacia bivenosa*, *Acacia ancistrocarpa* shrubland over *Acacia stellaticeps* open scattered shrubs over *Triodia schinzii*, *Triodia epactia* hummock grassland.

SP5 - *Corymbia hamersleyana* scattered low trees over *Acacia trachycarpa* tall open shrubland over *Acacia stellaticeps* scattered low shrubs over *Triodia epactia* hummock grassland over *Cenchrus ciliaris* very open tussock grassland.

SD1 - *Acacia sabulosa* tall open shrubland over *Acacia sabulosa*, *Santalum lanceolatum* shrubland over *Acacia stellaticeps*, *Diplopeltis eriocarpa*, *Scaevola sericophylla* low shrubland over *Triodia schinzii* open hummock grassland.

LH1 - *Grevillea wickhamii* tall scattered shrubs over *Acacia bivenosa*, *Acacia ancistrocarpa*, *Hakea lorea* open shrubland over *Triodia wiseana*, *Triodia epactia* hummock grassland.

In August 2011 Rio Tinto (2011) undertook a site visit of additional

Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994).

assessed by botanists from Rio Tinto (2010; 2011; 2013).

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 areas and recorded the following two stony plain vegetation units and 'heavily disturbed' areas.

Acacia bivenosa open shrubland over A.
Stellaticeps low open shrubland over
Triodia epactia and emergent T.
Angusta over scattered mixed herbs

Triodia longiceps hummock grassland
over *Cenchrus ciliaris scattered tussock
grassland.

3. Assessment of application against clearing principles

Comments

The amended application is to increase the clearing area by 1.68 hectares for the additional purposes of increasing drainage capacity, vehicle access and a constructing a laydown area.

The assessment against the clearing principles has not changed can be found in Clearing Permit Decision Report CPS 4395/1.

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

Comments

The assessment against planning instruments and other matters has not changed and can be found in Clearing permit Decision Report CPS 4395/1.

Methodology

GIS Databases:
- Aboriginal Sites of Significance
- Native Title Claims - Determined
- RIWI Act, Areas

4. References

- Government of Western Australia (2013) 2012 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). Current as of October 2012. WA Department of Environment and Conservation, 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.
- Rio Tinto (2010) Wickham Town Expansion Flora and Vegetation Survey: Native Vegetation Clearing Permit Supporting Report October 2010. DEC Ref: A531049
- Rio Tinto (2011) Biological Survey of the Wickham Town Expansion: Native Vegetation Clearing Permit Supporting Report October 2011. DEC Ref: A531056
- Rio Tinto (2013) Clearing Permit Application CPS 4395/4 and Supporting Information. DEC Ref: 634791.
- 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. (1998) A Report on the Flora and Vegetation of the Port Kennedy Area. Unpublished report prepared for Bowman Bishaw and Associates, West Perth.