



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 6110/2
Permit Holder:	Pilbara Iron Company (Services) Pty Ltd
Duration of Permit:	4 October 2014 to 30 September 2019

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 purpose of constructing town and camp infrastructure and associated works.

2. Land on which clearing is to be done

Clearing authorised under this Permit is to be undertaken within land tenure or rights administered under the *Mining Act 1904 (WA)*, *Mining Act 1978 (WA)*, *Land Act 1933 (WA)*, *Land Administration Act 1997 (WA)*, *Property Law Act 1969 (WA)*, *Transfer of Land Act 1893 (WA)*, *Strata Titles Act 1985 (WA)*, the *Rights in Water and Irrigation Act 1914 (WA)*, the *Water Corporation Act 1995 (WA)*, the *Water Agencies (Powers) Act 1984 (WA)* and the following State Agreement Acts –

- *Iron Ore (Hamersley Range) Agreement Act 1963*
- *Iron Ore (Robe River) Agreement Act 1964*
- *Iron Ore (Hamersley Range) Agreement Act 1968 (Paraburdoo)*
- *Iron Ore (Mount Bruce) Agreement Act 1972*
- *Iron Ore (Channar Joint Venture) Agreement Act 1987*
- *Iron Ore (Hope Downs) Agreement Act 1992*
- *Iron Ore (Yandicoogina) Agreement Act 1996*

Karijini Drive Road reserve (Lot 106 on Plan 218877)

3. Area of Clearing

The Permit Holder must not clear more than 50 hectares of native vegetation within the areas hatched yellow on attached Plan 6110/2 (a), Plan 6110/2 (b), Plan 6110/2 (c), Plan 6110/2 (d), Plan 6110/2 (e), Plan 6110/2 (f), Plan 6110/2 (g), Plan 6110/2 (h), Plan 6110/2 (i), Plan 6110/2 (j), Plan 6110/2 (k), Plan 6110/2 (l), Plan 6110/2 (m) and Plan 6110/2 (n).

4. 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.

PART II – MANAGEMENT CONDITIONS

5. Weed control

When undertaking any clearing or other activity pursuant to 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.

6. Flora management

- (a) Prior to undertaking any clearing, the Permit Holder shall engage a *botanist* to undertake a Level 1 survey of the area(s) to be cleared in accordance with *Guidance Statement No. 51* to identify possible occurrences of, and habitat suitable for, rare and *priority flora*.
- (b) Prior to undertaking any clearing, where an area has been identified in accordance with condition 6(a) as containing possible occurrences of, and habitat suitable for, rare or *priority flora*, the Permit Holder shall engage a *botanist* to inspect that area for the presence of rare and *priority flora*.
- (c) Where rare flora or *priority flora* are identified in relation to condition 6(b) of this Permit, the Permit Holder shall ensure that:
 - (i) no clearing occurs within 50 metres of identified rare or priority 1 flora, unless approved by the CEO in writing;
 - (ii) no clearing of identified rare flora occurs unless approved under section 23F(4)(a) of the *Wildlife Conservation Act 1950*;
 - (iii) no clearing occurs within 20 metres of identified priority 2, 3 and 4 flora, unless approved by the CEO in writing; and
 - (iv) no clearing of identified *priority flora* occurs unless approved by the CEO in writing.

7. Fauna management

- (a) Prior to undertaking any clearing, the Permit Holder shall engage a *fauna specialist* to undertake a Level 1 survey of the area(s) to be cleared, in accordance with *Guidance Statement No. 56* to identify areas of habitat on which fauna, listed in the *Wildlife Conservation (Specially Protected Fauna) Notice*, have a specific dependence.
- (b) Prior to undertaking any clearing, where habitat areas are identified in accordance with condition 7(a), the area(s) shall be inspected for the presence of fauna listed in the *Wildlife Conservation (Specially Protected Fauna) Notice* by a *fauna specialist*, in accordance with *Guidance Statement No. 56*.
- (c) Prior to undertaking clearing, where habitat areas are identified in accordance with condition 7(a), the Permit Holder must:
 - (i) avoid areas identified in accordance with condition 7(a); or
 - (ii) where the areas identified in accordance with condition 7(a) cannot be avoided, prepare, implement and adhere to a *Fauna Management Plan*, designed by a *fauna specialist*.
- (d) Prior to undertaking any clearing, where fauna is identified in accordance with condition 7(b), the Permit Holder must prepare, implement and adhere to a *Fauna Management Plan*, designed by a *fauna specialist*.
- (e) The *Fauna Management Plan* must include the following:
 - (i) a plan for managing the *impacts*;
 - (ii) a plan for managing any fauna identified in accordance with condition 7(b);
 - (iii) a table setting out the Permit Holder's commitments to the *Fauna Management Plan* requirements; and
 - (iv) a program for monitoring compliance with the Permit Holder's commitments.
- (f) Once the Permit Holder has developed a *Fauna Management Plan*, the Permit Holder must provide that *Fauna Management Plan* to the CEO for the CEO's approval. The clearing to which the *Fauna Management Plan* relates and the implementation of the *Fauna Management Plan* shall not take place until the Permit Holder receives approval from the CEO.
- (g) If it is necessary to modify the *Fauna Management Plan* approved by the CEO, then the Permit Holder must provide that modified *Fauna Management Plan* to the CEO for the CEO's approval.

8. Vegetation management

- (a) Where practicable the Permit Holder shall avoid clearing riparian vegetation.
- (b) Where a watercourse or wetland is to be impacted by clearing, the Permit Holder shall maintain the existing surface flow by use of culverts.

PART III – MONITORING, RECORD KEEPING AND REPORTING

9. Records to 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 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 or decimal degrees;
 - (ii) the date that the area was cleared; and
 - (iii) the size of the area cleared (in hectares).
- (b) In relation to flora management pursuant to condition 6 of this Permit:
 - (i) the location of each rare and/or *priority flora* species 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) the species name of each rare or *priority flora* species identified; and
 - (iii) a copy of the *botanist's* flora survey report.
- (c) In relation to fauna management pursuant to condition 7 of this Permit:
 - (i) a description and results of the fauna management activities undertaken in accordance with the *Fauna Management Plan* approved by the CEO; and
 - (ii) a copy of the *fauna 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 to 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 31 December of each year.
- (c) Prior to 30 July 2019, 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:

botanist: means a person who holds a tertiary qualification in environmental science or equivalent, and has a minimum of 2 years work experience in identification and surveys of flora native to the bioregion being inspected or surveyed, or who is approved by the CEO as a suitable botanist for the bioregion;

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;

fauna clearing person means a person who has obtained a licence from the Department of Parks and Wildlife, issued pursuant to the *Wildlife Conservation Regulations 1970* authorising them to take fauna;

fauna management plan means a plan developed by the Permit Holder for the management of fauna at the site in accordance with condition 7 of this Permit;

fauna specialist: means a person who holds a tertiary qualification specializing in environmental science or equivalent, and has a minimum of 2 years work experience in fauna identification and surveys of fauna native to the region being inspected or surveyed, or who is approved by the CEO as a suitable fauna specialist for the bioregion, and who holds a valid fauna licence issued under the *Wildlife Conservation Act 1950*;

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

Guidance Statement No. 51 means the Environmental Protection Authority Guidance Statement No 51, Guidance for the Assessment of Environmental Factors - Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia (2004);

Guidance Statement No 56 means Guidance for the Assessment of Environmental Factors: Terrestrial Fauna Surveys for Environmental Impact Assessment in Western Australia. Guidance Statement No 56, Environmental Protection Authority (2004);

impacts means any impact of clearing on environmental values;

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;

priority flora means those plant taxa described as priority flora classes 1, 2, 3, 4 or 5 in the *Department of Parks and Wildlife's Threatened and Priority Flora List for Western Australia* (as amended);

Wildlife Conservation (Specially Protected Fauna) Notice means those fauna taxa gazetted as rare fauna pursuant to section 14(4)(a) of the *Wildlife Conservation Act 1950* (as amended).

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.

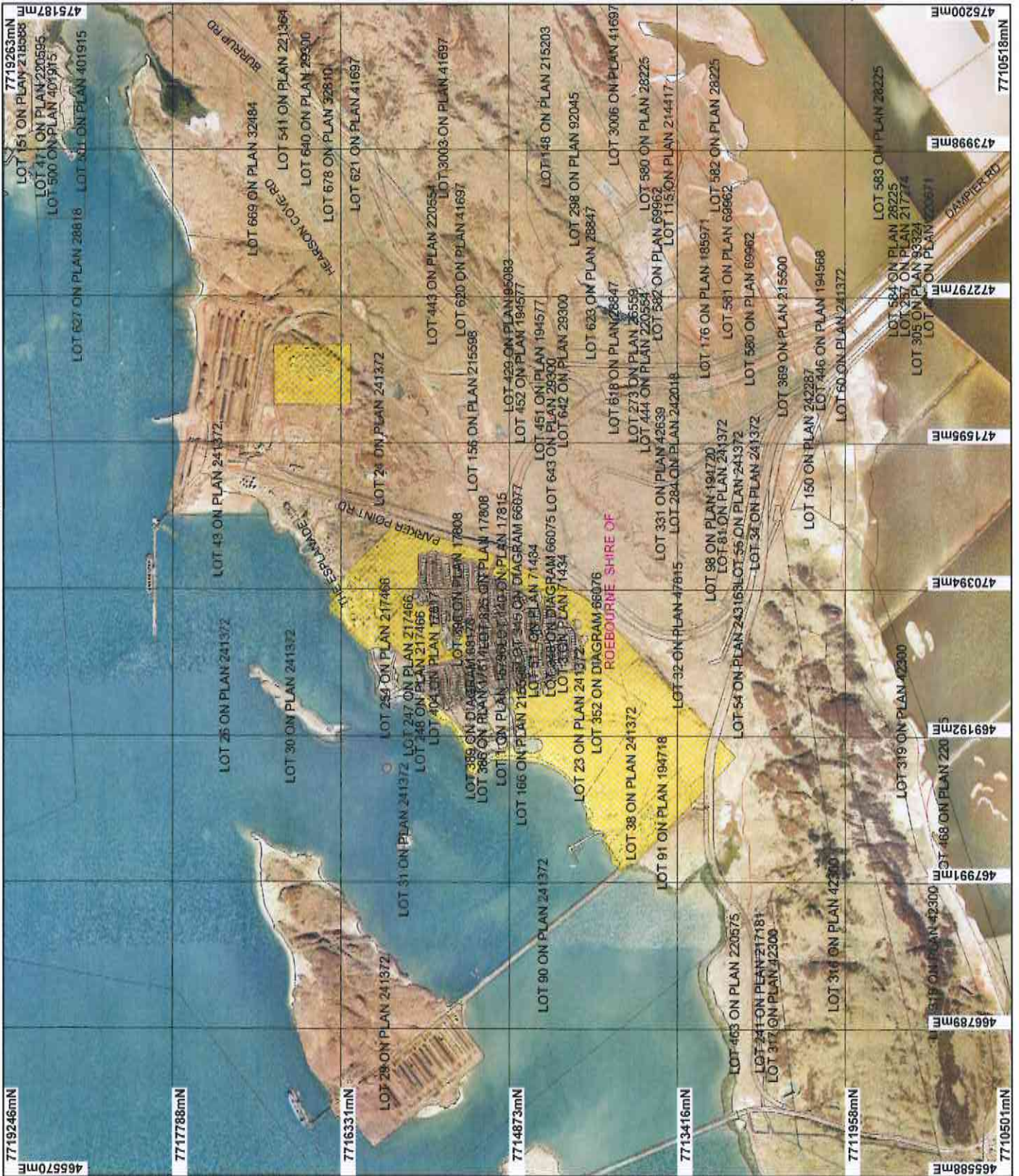


M Warnock
SENIOR MANAGER
CLEARING REGULATION

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

8 January 2015

Plan 6110/2 (a)



LEGEND

- Local Government Authorities
- / Road Centrelines
- Cadastre
- Clearing Instruments
- Areas Approved to Clear
- Damper and Extensions 50cm Orthomosaic - Landgate 2008

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



Scale 1:44254
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994
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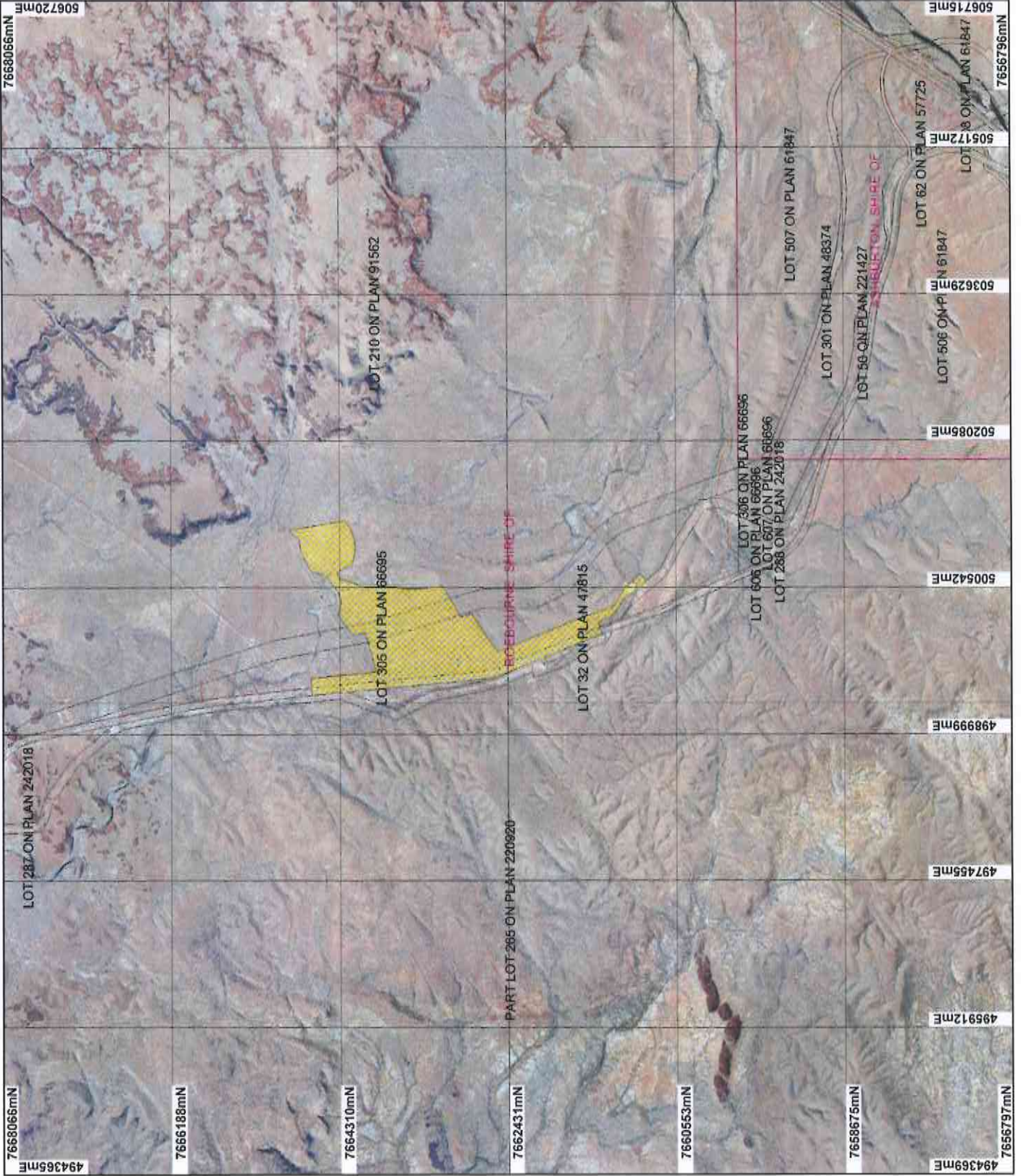
signed Date **8/1/15**
M.Warmock

Officer with delegated authority under Section 20 of the Environmental Protection Act 1986
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Plan 6110/2 (b)



LEGEND

- Local Government Authorities
- Road Centrelines
- Cadastral
- Clearing Instruments
- Areas Approved to Clear
- Pindri Hills 1.4m Orthomosaic - Landgate 2000
- Cooya Pooya 1.4m Orthomosaic - Landgate 1998

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

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(Approximate when reproduced at A4)

Geospatial Datum Australia 1984
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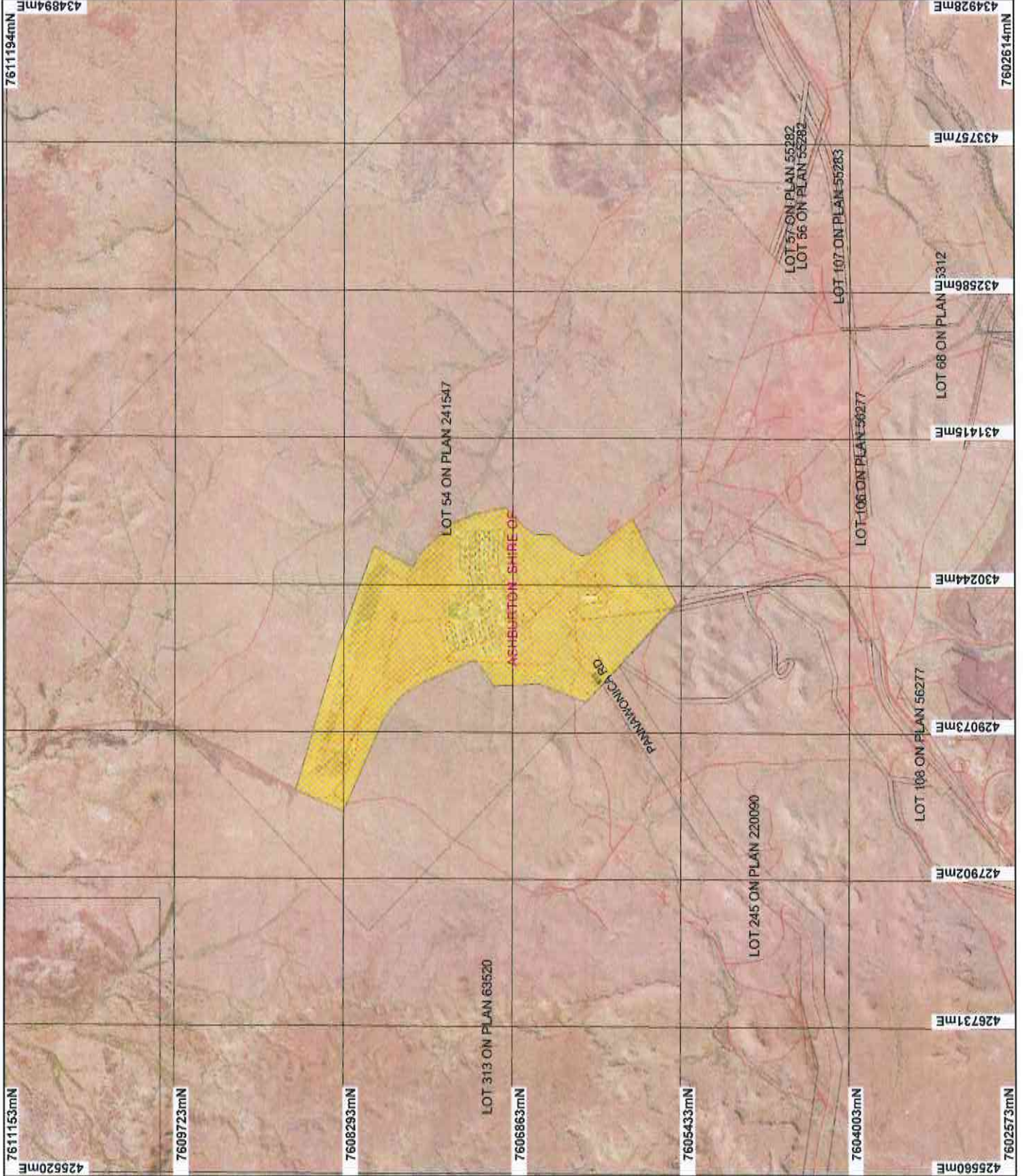
M. Waincock Date 8/11/15

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Department of Environment Regulation
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Plan 6110/2 (c)



LEGEND

- Local Government Authorities
- Road Centrelines
- Cadastral
- Clearing Instruments
- Areas Approved to Clear
- Pannawonica 1.4m Orthomosaic - Lanugate 2000

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

Scale 1:43299
(Approximate when reproduced at A4)

Geospatial Datum Australia 1994

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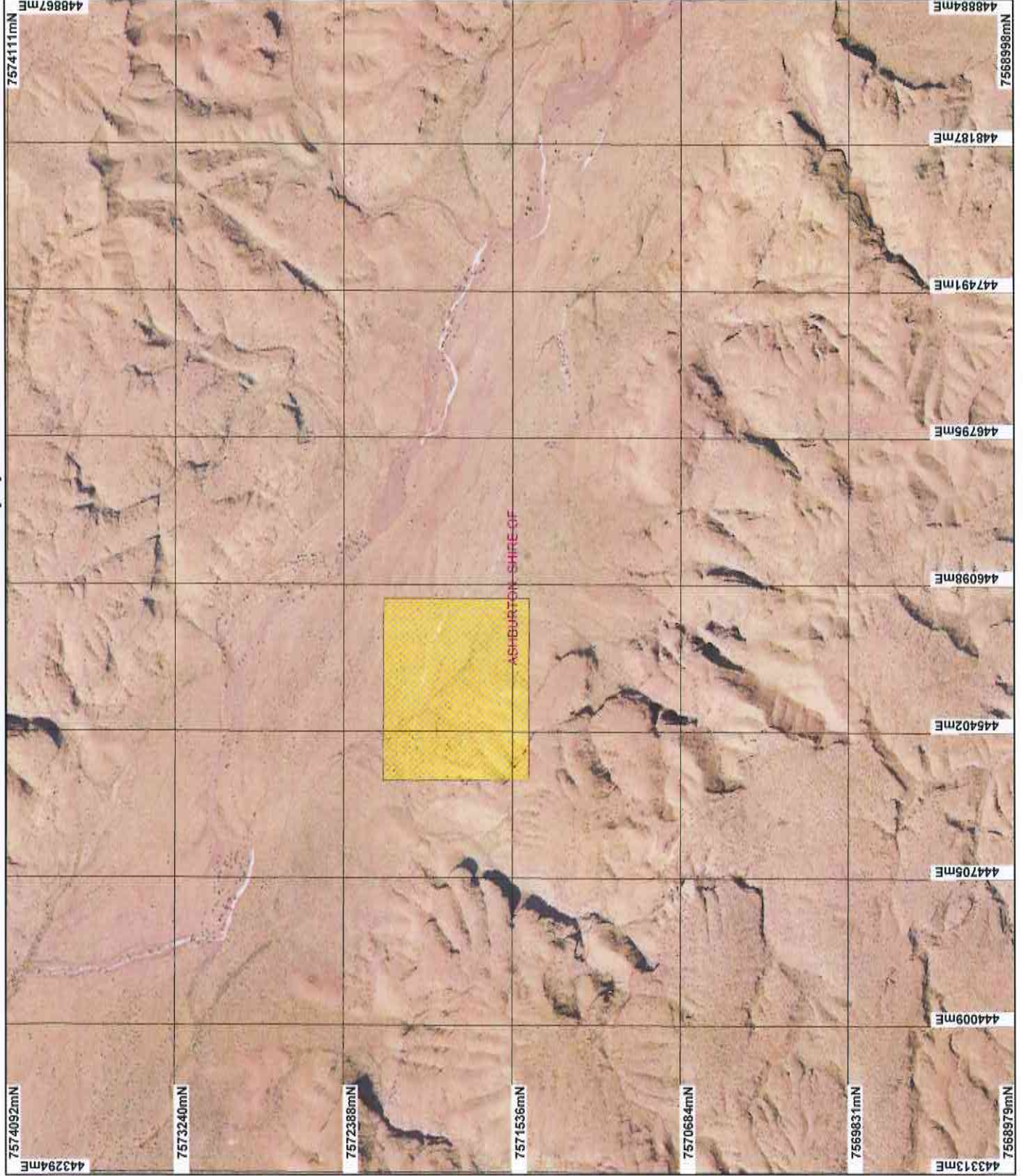
M. Warnock Date 8/1/15

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Plan 6110/2 (d)



LEGEND

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

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



0 750 m

Scale 1:25773

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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Handwritten signature
M. Wainock Date 8/1/15

M. Wainock

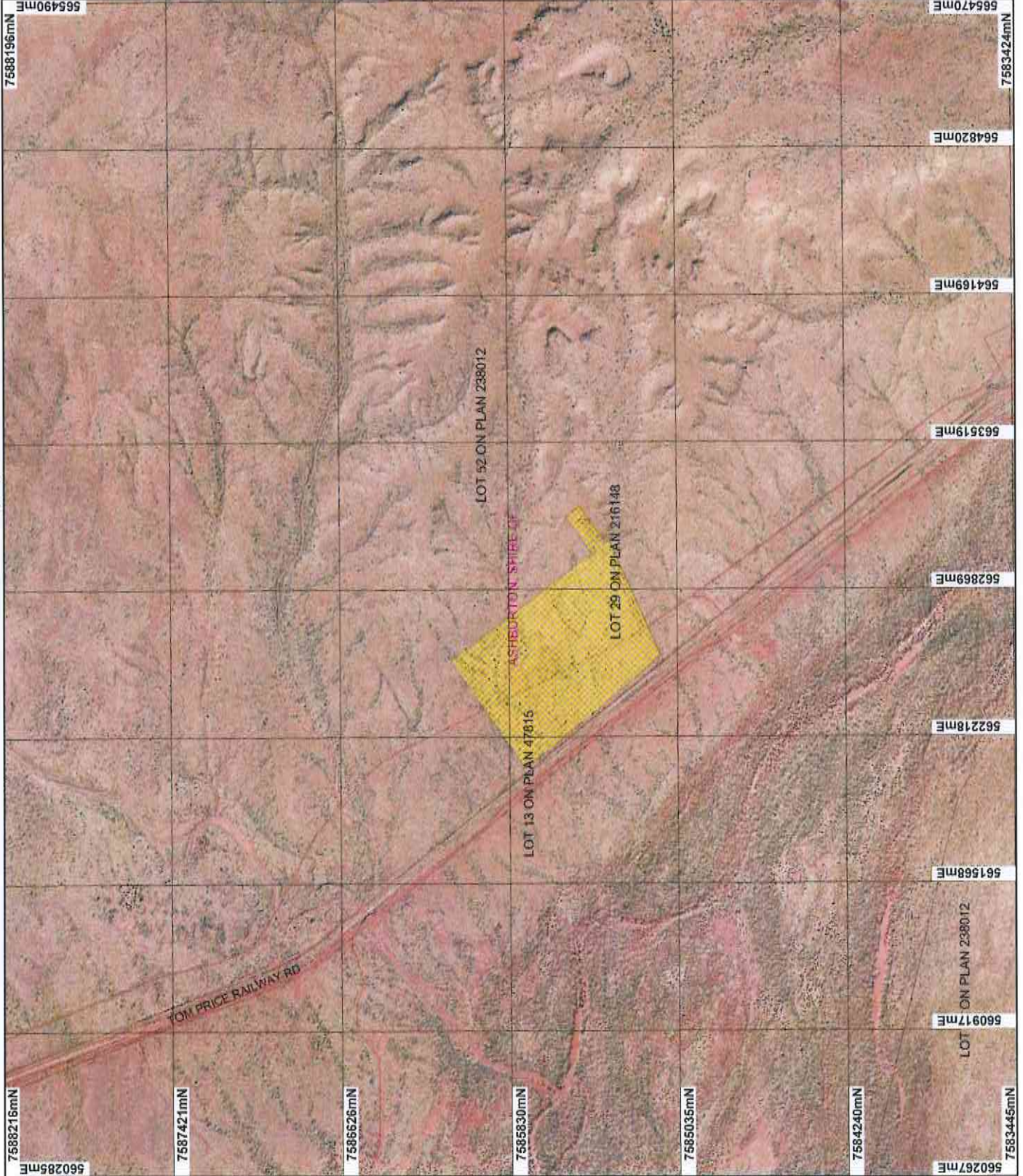
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Plan 6110/2 (e)



LEGEND

- Local Government Authorities
- Road Centrelines
- Cadastre
- Clearing Instruments
- Areas Approved to Clear
- Mount Billroth 1.4m Orthomosaic - Lanigate 2000

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



0 625 m

Scale 1:24062
 (Approximate when projected at A4)

Geocentric Datum Australia 1994
 Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

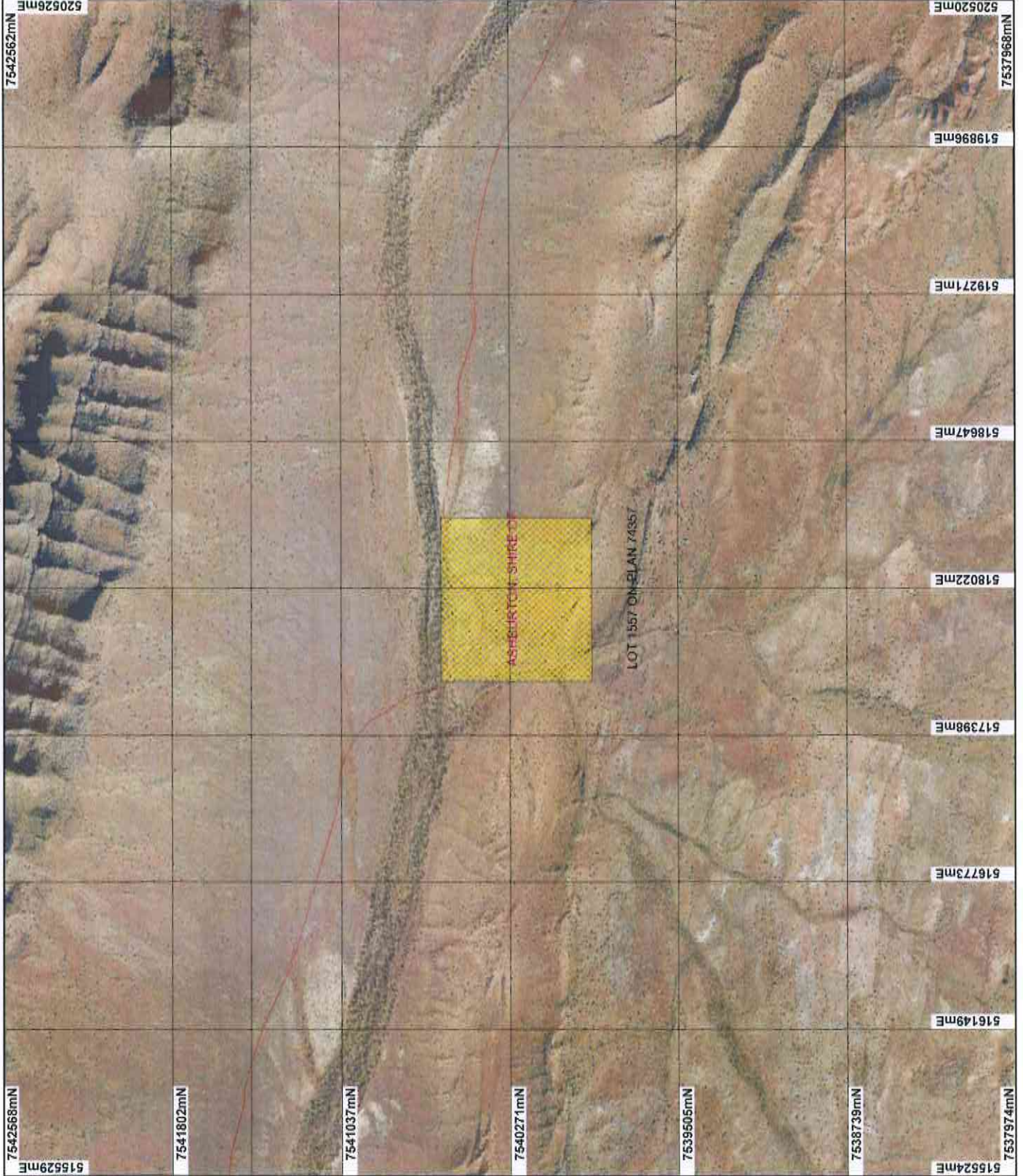
Macdonald Date 8/11/15

M. Warnock
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Plan 6110/2 (f)



LEGEND

- Local Government Authorities
- Road Centrelines
- Cadastral
- Clearing Instruments
- Areas Approved to Clear
- Jeerinah 50cm Orthomosaic - Landgate 2004

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



0 625 m

Scale 1:23133

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

Note: the data in this map have not been projected. This map is a geocentric edition of measurement coordinates.

Michael Date 8/1/15
M Warnock

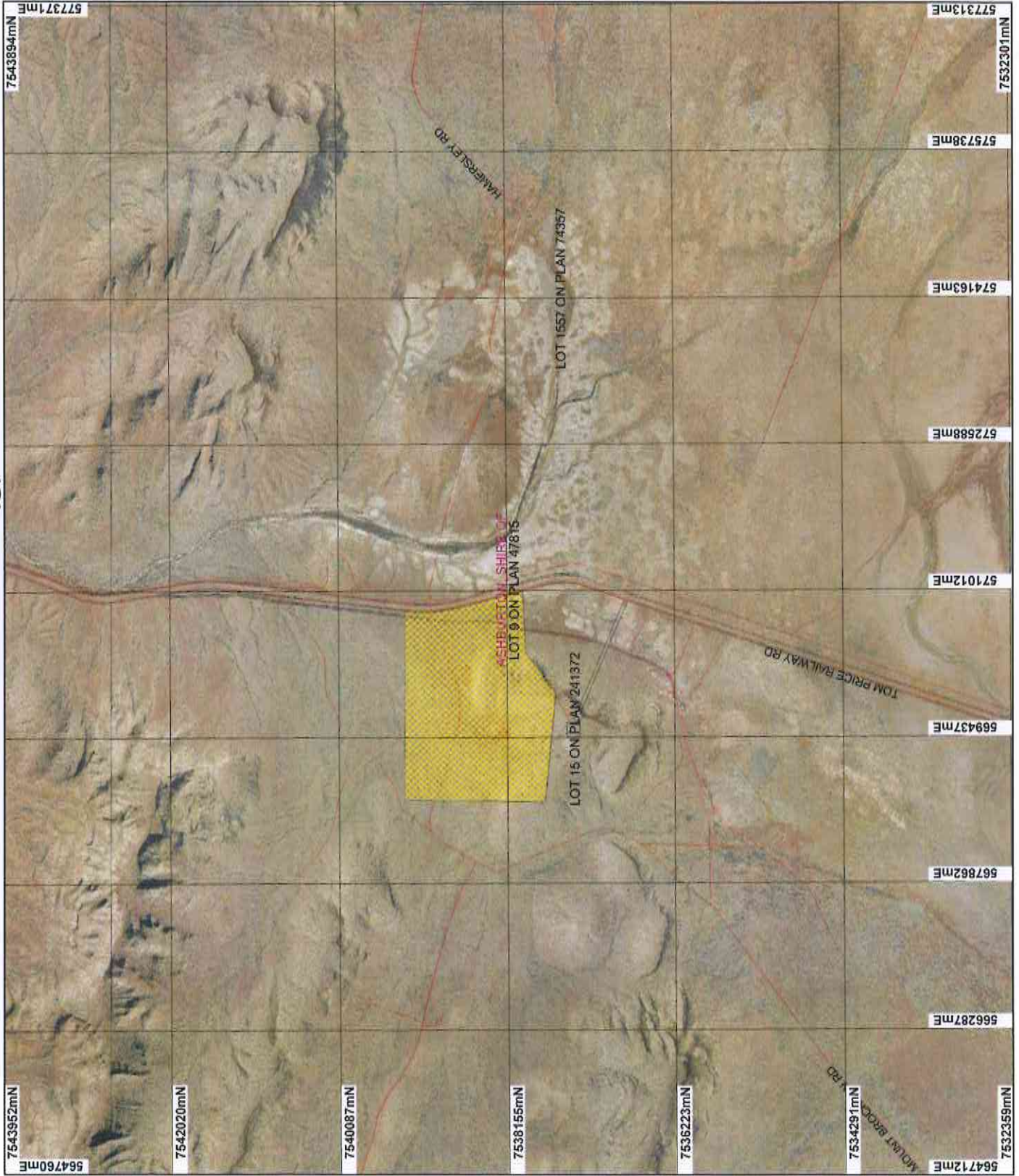
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Department of Environment Regulation

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Plan 6110/2 (g)



- LEGEND**
- Local Government Authorities
 - Road Centrelines
 - Cadastral
 - Clearing Instruments
 - Areas Approved to Clear
 - Micrae 50cm Orthomosaic - Landgate 2004

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



Scale 1:58363
(Approximate when reproduced at A4)

Geospatial Datum Australia 1994

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M Wainock Date: 8/1/15

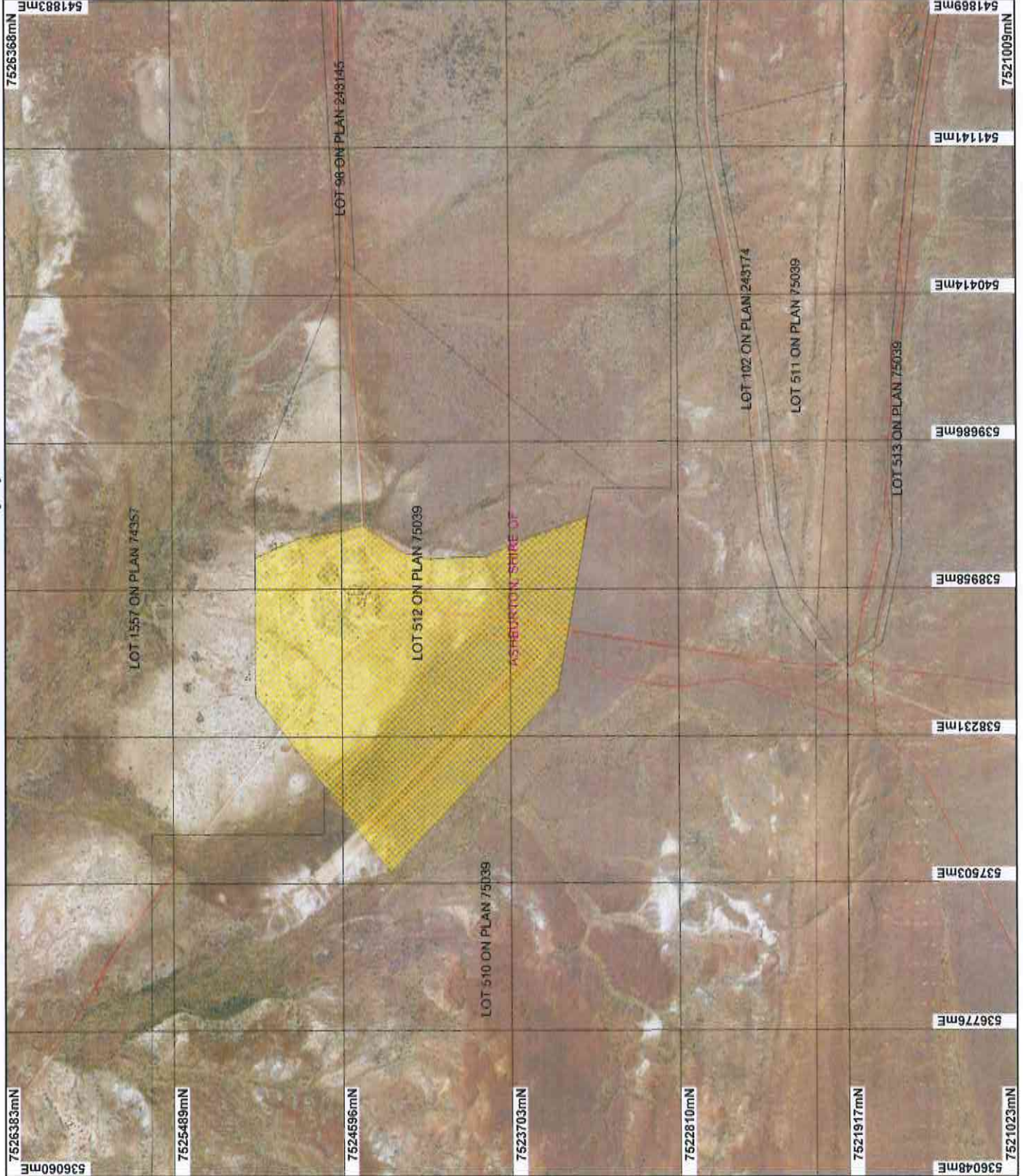
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Department of Environment Regulation
WA Govn Copyright 2002

Plan 6110/2 (h)



- LEGEND**
- Local Government Authorities
 - Road Centrelines
 - Cadastral
 - Clearing Instruments
 - Areas Approved to Clear
 - Jeerinsh 50cm Orthomosaic - Landgate 2004

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



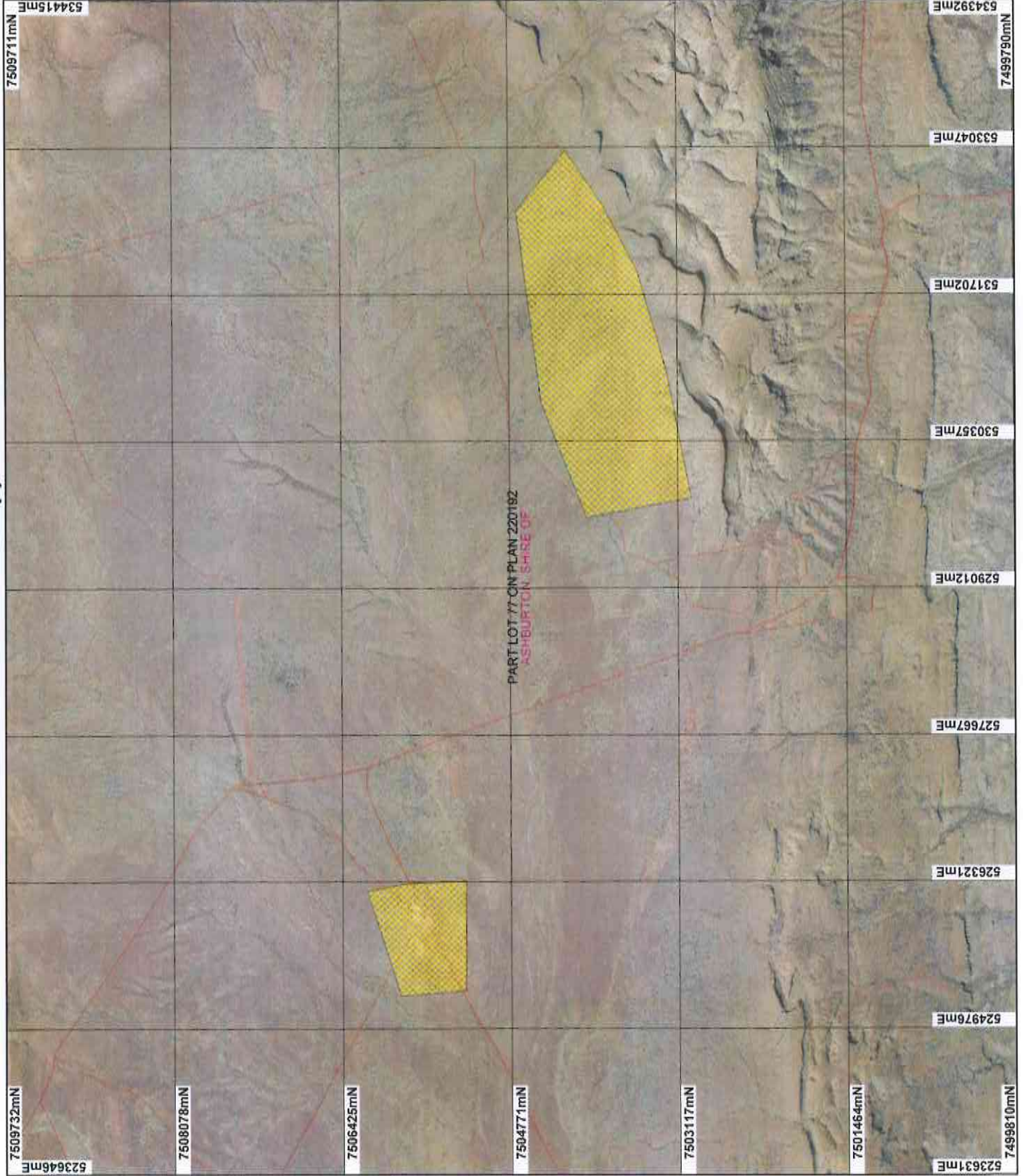
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 (Approximate when reproduced at A4)
 Geospatial Datum Australia 1994
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M. Warnock Date 8/1/15
 M. Warnock

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Plan 6110/2 (i)



LEGEND

- Local Government Authorities
- Road Centrelines
- Cadastre
- Clearing Instruments
- Areas Approved to Clear
- Rocklea 50cm Orthomosaic - Landgate 2004

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



Scale: 1:49692
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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M. Warrack Date 8/11/15

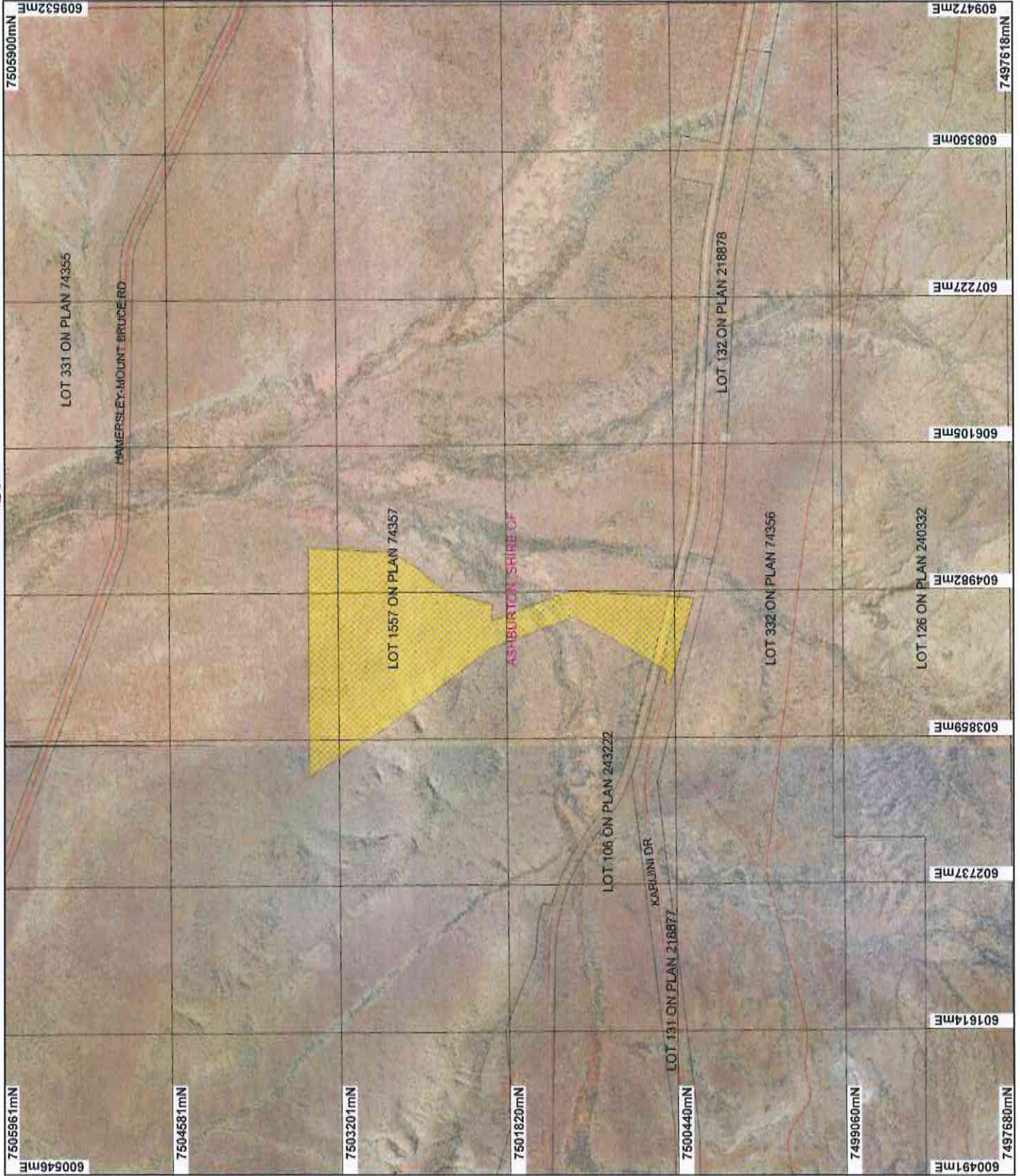
M. Warrack
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Plan 6110/2 (j)



LEGEND

- Local Government Authorities
- Road Centrelines
- Cadastre
- Clearing Instruments
- Areas Approved to Clear
- Mount Bruce 50cm Orthomosaic - Landgate 2004
- Mount Lionel 50cm Orthomosaic - Landgate 2004

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



0 1 km

Scale 1:41535

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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M. Warlock Date *8/1/15*

M. Warlock

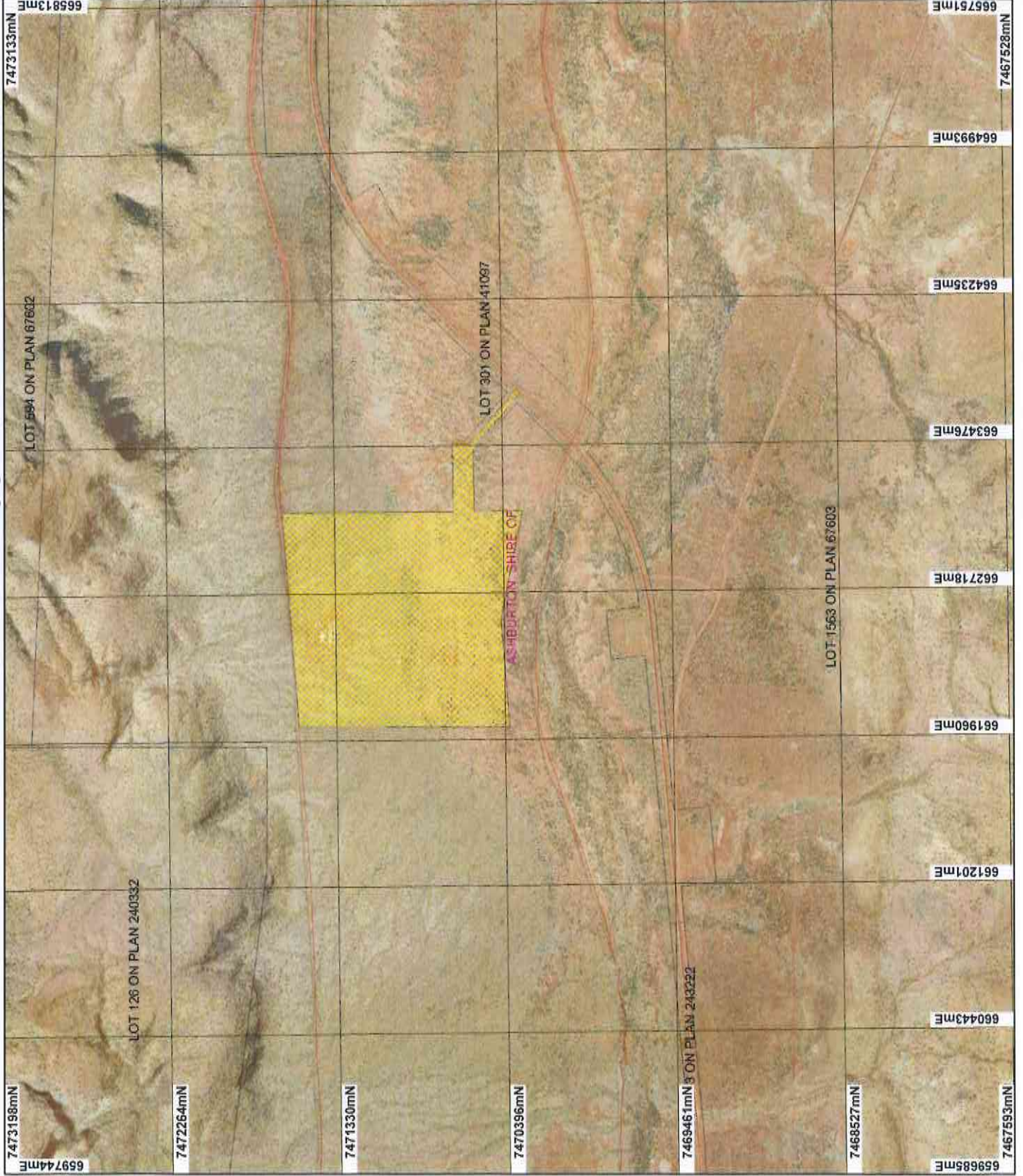
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Plan 6110/2 (k)



LEGEND

- Local Government Authorities
- Road Centrelines
- Cadastral
- Clearing Instruments
- Areas Approved to Clear
- Murrumbidgee 50cm Orthomosaic - Landgate 2004

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



0 750 m

Scale 1:28144

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994
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approved Date 8/1/15
M. Wernick

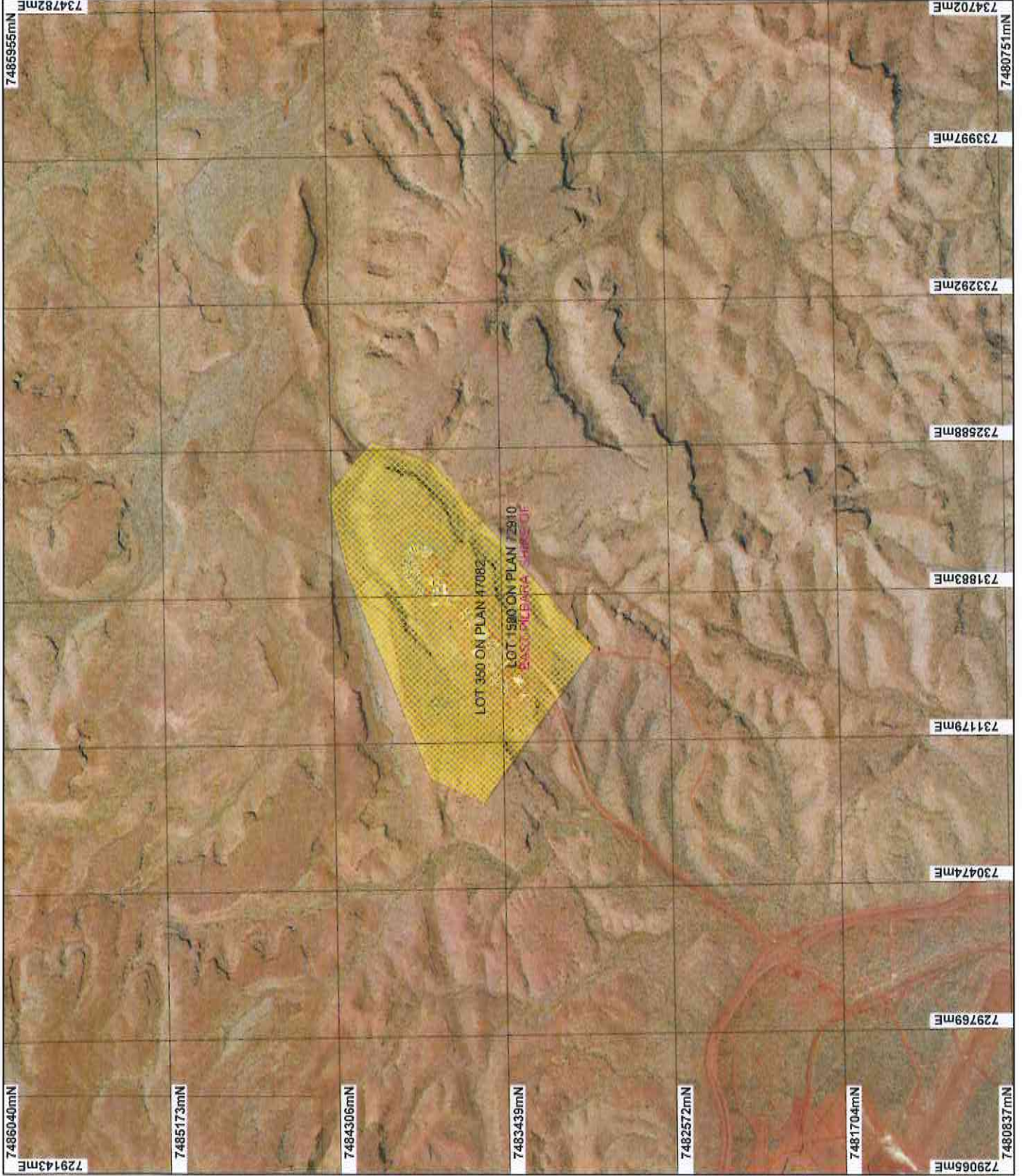
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Plan 61110/2 (I)



LEGEND

- Local Government Authorities
- Road Centrelines
- Cadastre
- Clearing Instruments
- Areas Approved to Clear
- Weell Woolli 50cm Orthomosaic - Landgate 2004

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



0 750m

Scale 1:26132

(Approximate when reproduced at A4)

Geocentric Datum Australia 1984

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M Wamock Date 3/1/15

M Wamock

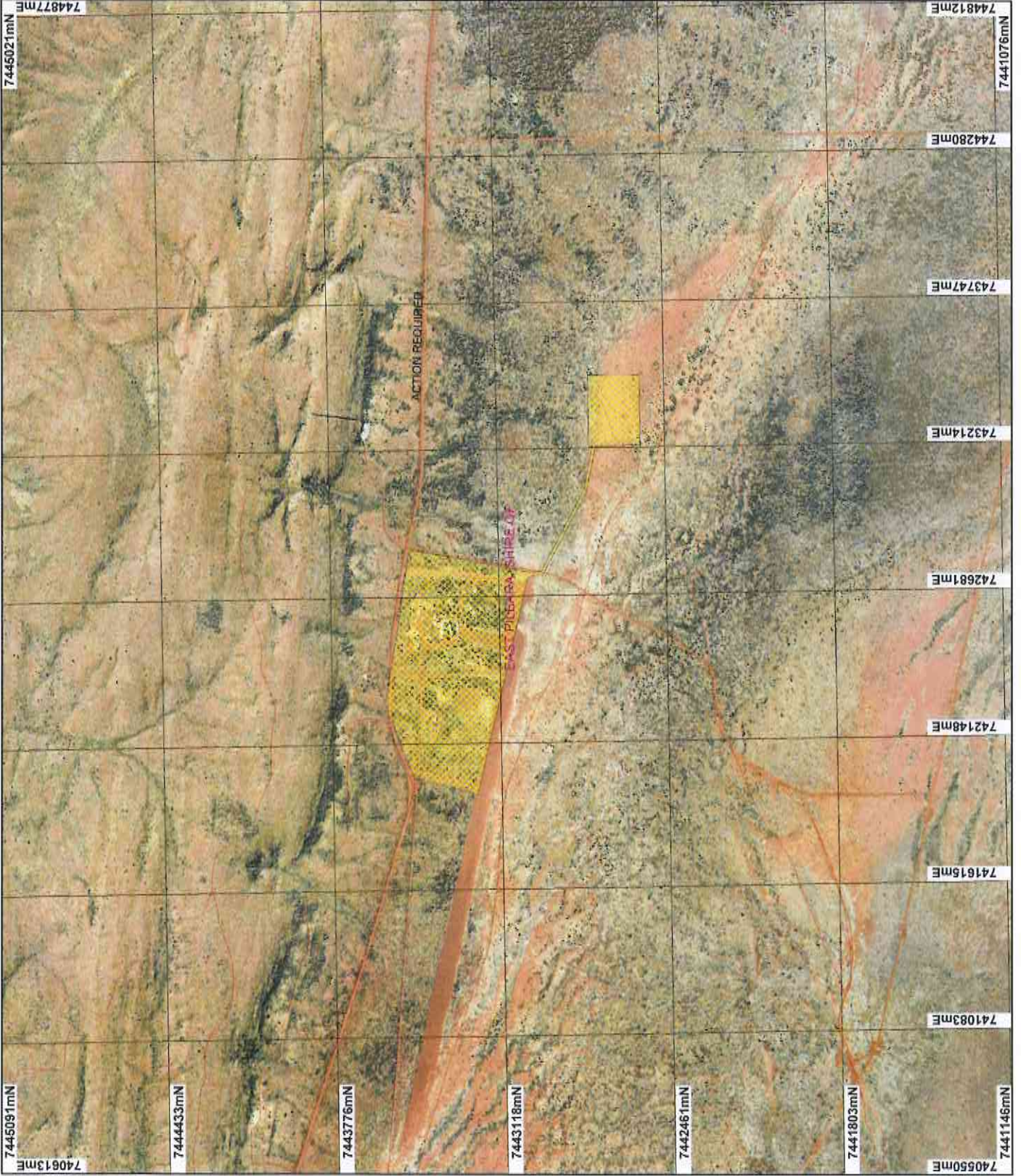
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Plan 61110/2 (m)



LEGEND

- Local Government Authorities
- Road Centrelines
- Cadastral
- Clearing Instruments
- Areas Approved to Clear
- Opithalmia 50cm Orthomosaic - Landgate 2004

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



0 90.0 m

Scale 1:13794

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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distortion at measurement instruments.

M. Wilmot Date 8/1/15
M. Wilmot

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

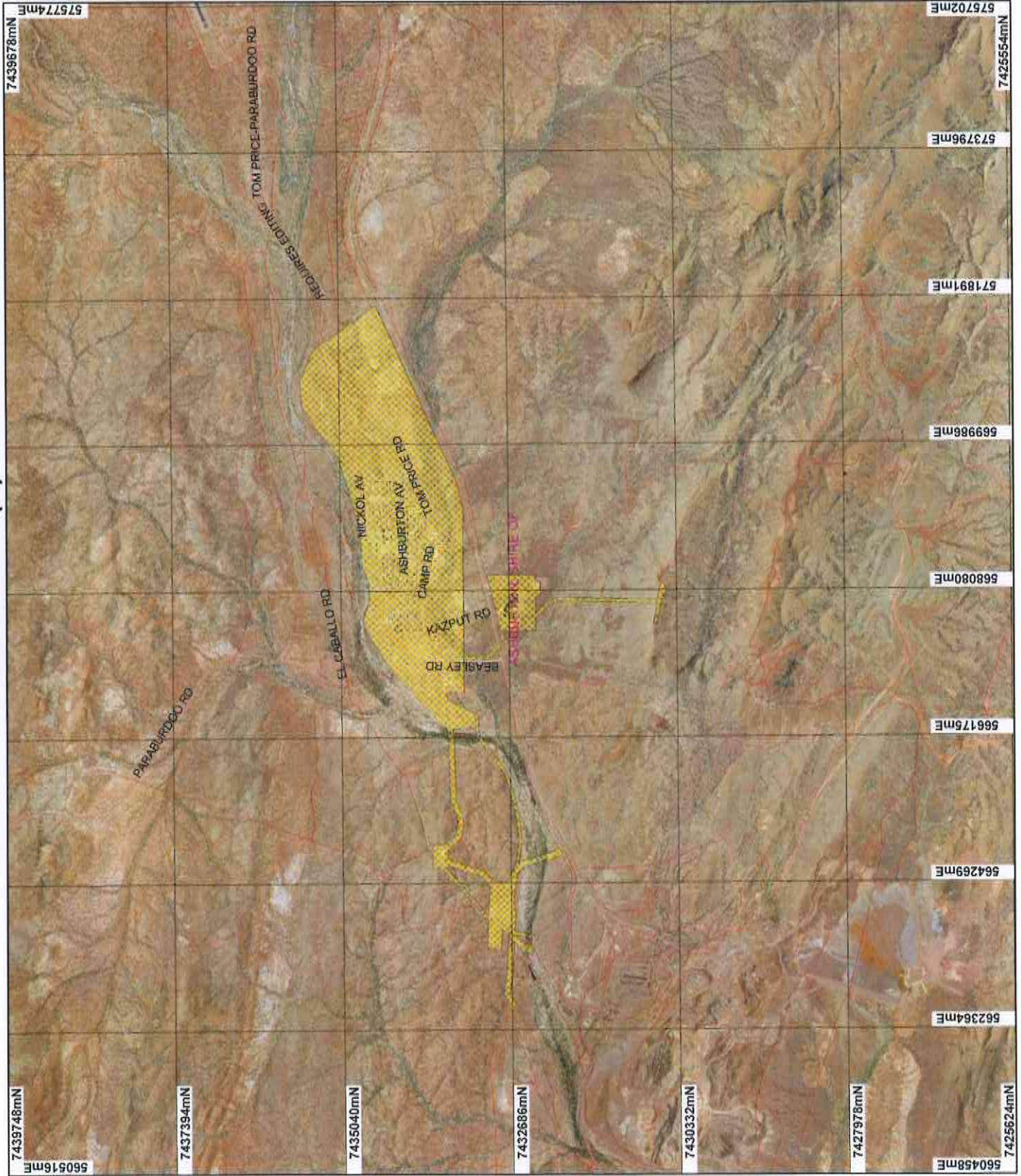
Information derived from this map should be
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Department of Environment Regulation

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Plan 6110/2 (n)



LEGEND

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

Paraburdoo Townsite Apr 2011 Mosaic
Paraburdoo 50cm Orthomosaic - Landgate 2004

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

Scale 1:70038
Approximate when reproposed at A4

Geocentric Datum Australia 1994
Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

M. Waincock Date 8/1/15

0 2 km

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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.



Clearing Permit Decision Report

Government of Western Australia
Department of Environment Regulation

1. Application details

1.1. Permit application details

Permit application No.: 6110/2
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Pilbara Iron Company (Services) Pty Ltd

1.3. Property details

Property: Clearing authorised under this Permit is to be undertaken within land tenure or rights administered under the Mining Act 1904 (WA), Mining Act 1978 (WA), Land Act 1933 (WA), Land Administration Act 1997 (WA), Property Law Act 1969 (WA), Transfer of Land Act 1893 (WA), Strata Titles Act 1985 (WA), the Rights in Water and Irrigation Act 1914 (WA), the Water Corporation Act 1995 (WA), the Water Agencies (Powers) Act 1984 (WA) or the following State Agreement Acts –
- Iron Ore (Hamersley Range) Agreement Act 1963
- Iron Ore (Robe River) Agreement Act 1964
- Iron Ore (Hamersley Range) Agreement Act 1968 (Paraburdoo)
- Iron Ore (Mount Bruce) Agreement Act 1972
- Iron Ore (Channar Joint Venture) Agreement Act 1987
- Iron Ore (Hope Downs) Agreement Act 1992
- Iron Ore (Yandicoogina) Agreement Act 1996
Karijini Drive Road reserve (Lot 106 on Plan 218877)
Local Government Area: Shires of Ashburton and Meekatharra, City of Karratha and Town of Port Hedland

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
50		Mechanical Removal	Building or Structure

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 8 January 2015

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
Mapped Beard Vegetation Association 117 consists of Hummock grasslands, grass steppe; soft spinifex	The amended application is for 50 hectares of native vegetation within various properties, road reserves and unallocated Crown land, within the Shires of Ashburton and Meekatharra, City of Karratha and Town of Port Hedland, for the purpose of constructing town and camp infrastructure and associated works.	Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery 1994)	The condition of the vegetation was determined via aerial imagery and previous environmental assessments undertaken by the Department of Mines and Petroleum and the Department of Environment Regulation.
Mapped Beard Vegetation Association 152 consists of Hummock grasslands, grass steppe; soft & hard spinifex soft spinifex		To	
Mapped Beard Vegetation Association 173 consists of Hummock grasslands, low tree steppe; snappy gum over soft spinifex & Triodia brizoides		Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)	
Mapped Beard Vegetation Association 607 consists of Hummock grasslands, low tree steppe; snappy gum & bloodwood over soft spinifex & Triodia wiseana			
Mapped Beard Vegetation Association 82 consists of Hummock grasslands, low tree steppe; snappy gum over Triodia wiseana			
Mapped Beard Vegetation Association 565 consists of Hummock grasslands, low tree steppe; bloodwood over soft spinifex			
Mapped Beard Vegetation Association 29 consists of Sparse low woodland; mulga, discontinuous in scattered groups			

Mapped Beard Vegetation Association 18 consists of Low woodland; mulga (*Acacia aneura*)

Mapped Beard Vegetation Association 567 consists of Hummock grasslands, shrub steppe; mulga & kanji over soft spinifex & *Triodia basedowii*

Mapped Beard Vegetation Association 181 consists of Shrublands; mulga & snakewood scrub (Shepherd et al, 2001)

3. Assessment of application against clearing principles

Comments

The proponent has applied to amend clearing permit CPS 6110/1, requesting to change conditions 6 (relating to flora) and 7 (relating to fauna). In addition to the requested amendment of condition 6, a greater buffer has been afforded to priority flora species. No clearing is to occur within 50 metres of priority 1 flora and no clearing is to occur within 20 metres of priority 2, 3 and 4 flora, unless approved by the CEO in writing. This change is in response to expert advice provided by the Department of Parks and Wildlife (2014).

A review of current environmental information reveals no other additional information. Therefore the assessment against the clearing principles has not changed and can be found in the Clearing Permit Decision Report CPS 6110/1.

Methodology

References:

-Department of Parks and Wildlife (2014)

GIS Databases:

-SAC Biodatasets (accessed January 2015)

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

Comments

No submissions from the public have been received for the proposed clearing.

The assessment against Planning and Other Matters has not changed and can be found in Decision Report CPS 6110/1.

4. References

- Department of Parks and Wildlife (2014) Additional Information Regarding Priority Flora for Clearing Permit Application CPS 6110/2 (DER Ref A848504).
- 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., Beeston, G.R., and Hopkins, A.J.M. (2001), Native Vegetation in Western Australia. Technical Report 249. Department of Agriculture Western Australia, South Perth.