



## Notification of approval

### Lansdown Eco-Industrial Precinct Enabling Infrastructure, near Woodstock, Queensland (EPBC ref 2022/09383)

This decision is made under section 133(1) of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Note that section 134(1A) of the EPBC Act applies to this approval. That provision provides, in general terms, that if the approval holder authorises another person to undertake any part of the Action, the approval holder must take all reasonable steps to ensure that the other person is informed of any conditions attached to this approval, and that the other person complies with any such conditions.

### Approved Action


|   |   |
|---|---|
| <b>person to whom the approval is granted (approval holder)</b> | Townsville City Council   |
| <b>ABN of approval holder</b>                                   | 447 4199 2072   |
| <b>Action</b>   | To construct a water pipeline, new roads and expand or alter existing roads near Woodstock, approximately 40 km southwest of Townsville, Queensland. [See EPBC Act referral 2022/09383] |

### Approval decision

|   |   |                 |
|---|---|-----------------|
| <b>decision</b>                                 | My decision on whether or not to approve the taking of the Action for the purposes of the controlling provision for the Action is as follows. |                 |
|   | <b>Controlling Provision</b>  | <b>Decision</b> |
|   | Listed threatened species and communities (section 18 and section 18A)  | Approved        |
| <b>period for which the approval has effect</b> | This approval has effect until 31 December 2050   |                 |
| <b>conditions of approval</b>                   | The approval is subject to conditions under the EPBC Act as set out in Annexure A.  |                 |

### Person authorised to make decision

## OFFICIAL

|                   |   |
|-------------------|---|
| name and position | Declan O'Connor-Cox<br>Branch Head<br>Environment Assessments Queensland Branch   |
| signature         |  |
| date of decision  | 14/12/23  |

### Annexure A

Note: Words appearing in **bold** have the meaning assigned to them at PART C – DEFINITIONS.

#### Part A – Conditions specific to the Action

##### MAXIMUM IMPACT LIMITS

- 1) The avoid and mitigate **harm** to **protected matters**, the approval holder must not take the Action outside of the **Action area**.
- 2) To avoid and mitigate **harm** to **protected matters**, the approval holder must not **clear** more than:
  - a) 0.09 hectares (ha) of **Bare-rumped Sheathtail Bat roosting habitat**
  - b) 79.71 ha of **Bare-rumped Sheathtail Bat foraging habitat**
  - c) 77.8 ha of **Southern Black-throated Finch breeding and foraging habitat**
  - d) 17.87 ha of **Squatter Pigeon breeding habitat**
  - e) 25.58 ha of **Squatter Pigeon foraging habitat**
  - f) 2.64 ha of **Squatter Pigeon dispersal habitat**.

##### PROTECTED MATTERS

- 3) To avoid and mitigate **harm** to the **Bare-rumped Sheathtail Bat**, the approval holder must:
  - a) within 48 hours prior to **clearing** any given area of:
    - i) **Bare-rumped Sheathtail Bat roosting habitat**, ensure that a **suitably qualified expert** inspects all potential **Bare-rumped Sheathtail Bat roosting** trees within that **clearing** area to detect recent **Bare-rumped Sheathtail Bat** presence,
    - ii) **Bare-rumped Sheathtail Bat foraging habitat**, ensure that a **suitably qualified expert** inspects all potential **Bare-rumped Sheathtail Bat** foraging trees within that **clearing** area to detect recent **Bare-rumped Sheathtail Bat** presence,
  - b) not **clear** any tree containing a **Bare-rumped Sheathtail Bat**,
  - c) not undertake any activities including making loud noise, shining lights into a **roost** or causing **harm** to a tree or the ground, to encourage any resident **Bare-rumped Sheathtail Bat** to vacate the **roost**,
  - d) give the **suitably qualified expert** the authority to cease **clearance** for sufficient time for them to relocate fauna to an appropriate habitat area,



- e) record, and include in the next **compliance report**, the details of any instances of **Bare-rumped Sheathtail Bat** relocated in relation to the Action, including where the **Bare-rumped Sheathtail Bat** were relocated,
  - f) ensure all use and design of artificial lighting within the **Action area** is not inconsistent with the *National Light Pollution Guidelines for Wildlife*, Commonwealth of Australia 2023, and
  - g) to limit light spill beyond the area that requires lighting, ensure all lighting beams within the **Action area** are either directed downwards or use shields and baffles.
- 4) To avoid and mitigate **harm** to the **Southern Black-throated Finch** and **Squatter Pigeon**, the approval holder must:
- a) within 48 hours prior to **clearing** any given area of:
    - i) **Southern Black-throated Finch breeding and foraging habitat**, ensure that a **suitably qualified expert** inspects all potential **nesting** trees within that **clearing** area to detect **recent activity**,
    - ii) **Squatter Pigeon breeding habitat**, ensure that a **suitably qualified expert** inspects all potential **nesting** trees within that **clearing** area to detect **recent activity**,
  - b) not **clear** any tree containing **Southern Black-throated Finch** or **Squatter Pigeon** (including nests or eggs thereof),
  - c) give the **suitably qualified expert** the authority to cease **clearance** for sufficient time for them to relocate nests and eggs to an appropriate habitat area, and
  - d) record, and include in the next **compliance report**, the details of any instances of **Southern Black-throated Finch** and **Squatter Pigeon** (including nests and eggs thereof) relocated in relation to the Action, including where the **Southern Black-throated Finch** and **Squatter Pigeon** were relocated.

#### **ACTION MANAGEMENT PLANS**

##### **Construction Environment Management Plan**

- 5) To avoid and mitigate **harm** on **protected matters**, the approval holder must implement the **Construction Environment Management Plan** until the expiry date of this approval.

##### **Matters of National Environmental Significance Management Plan**

- 6) To avoid and mitigate **harm** on **protected matters**, the approval holder must implement the **Matters of National Environmental Significance Management Plan** until the expiry date of this approval.

##### **Weed and Pest Management Plan**

- 7) To avoid and mitigate **harm** on **protected matters**, the approval holder must implement the **Weed and Pest Management Plan** until the expiry date of this approval.

##### **Bushfire Management Plan**

- 8) To avoid and mitigate **harm** on **protected matters**, the approval holder must implement the **Bushfire Management Plan** until the expiry date of this approval.

#### **ENVIRONMENTAL OFFSETS**

- 9) To compensate for the residual significant impacts of the Action on the **Southern Black-throated Finch**, the approval holder must implement the **Offset Management Plan** at least until the expiry of the approval.
- 10) To compensate for the residual significant impacts of the Action on the **Southern Black-throated Finch**, the approval holder must **secure** the **offset site** within 12 months from the date of the **commencement of the Action**. The approval holder must ensure that the **offset site** remains **secured** at least until the expiry of this approval.

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## Part B – Administrative conditions

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### REVISION OF ACTION MANAGEMENT PLANS

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- 11) The approval holder may, at any time, apply to the **Minister** for a variation to an action management plan approved by the **Minister** or as subsequently revised in accordance with the following conditions, by submitting an application in accordance with the requirements of section 143A of the **EPBC Act**. If the **Minister** approves a revised action management plan (RAMP) then, from the date specified, the approval holder must implement the RAMP in place of the previous action management plan.
- 12) The approval holder may choose to revise an action management plan approved by the **Minister** under condition 5-8 or as subsequently revised in accordance with these conditions, without submitting it for approval under section 143A of the **EPBC Act**, if the taking of the Action in accordance with the RAMP would not be likely to have a **new or increased impact**.
- 13) If the approval holder makes the choice under condition 12 to revise an action management plan without submitting it for approval, the approval holder must:
  - a) Notify the **department** electronically that the approved action management plan has been revised and provide the **department** with:
    - i) An electronic copy of the RAMP.
    - ii) An electronic copy of the RAMP marked up with track changes to show the differences between the approved action management plan and the RAMP.
    - iii) An explanation of the differences between the approved action management plan and the RAMP.
    - iv) The reasons the approval holder considers that taking the Action in accordance with the RAMP would not be likely to have a **new or increased impact**.
    - v) Written notice of the date on which the approval holder will implement the RAMP (RAMP implementation date), being at least 20 **business days** after the date of providing notice of the revision of the action management plan, or a date agreed to in writing with the **department**.
  - b) Subject to condition 15 implement the RAMP from the RAMP implementation date.
- 14) The approval holder may revoke its choice to implement a RAMP under condition 12 at any time by giving written notice to the **department**. If the approval holder revokes the choice under condition 12 the approval holder must implement the action management plan in force immediately prior to the revision undertaken under condition 12.

- 15) If the **Minister** notifies the approval holder that the **Minister** is satisfied that the taking of the Action in accordance with the RAMP would be likely to have a **new or increased impact**, then:
- a) Condition 12 does not apply, or ceases to apply, in relation to the RAMP.
  - b) The approval holder must implement the action management plan specified by the **Minister** in the notice.
- 16) At the time of giving the notice under condition 15 the **Minister** may also notify that for a specified period of time, condition 12 does not apply for one or more specified action management plans.

**Note:** Conditions 12, 13, 14, 15 and 16 are not intended to limit the operation of section 143A of the **EPBC Act** which allows the approval holder to submit a revised action management plan, at any time, to the **Minister** for approval.

#### **SUBMISSION AND PUBLICATION OF PLANS**

- 17) The approval holder must submit all **plans** required by these conditions electronically to the **department**.
- 18) Unless otherwise agreed to in writing by the **Minister**, the approval holder must publish each **plan** on the **website** within 15 **business days** of the date:
- a) of this approval, if the version of the **plan** to be implemented is specified in these conditions, or
  - b) the **plan** is approved by the **Minister** in writing, if the **plan** requires the approval of the **Minister**, or
  - c) the **plan** is submitted to the **department** in accordance with a requirement of these conditions, if the **plan** does not require the approval of the **Minister**, or
  - d) the **plan** is approved by a state government official as required under a state or territory government condition which must be complied with in accordance with these **EPBC Act** conditions.
- 19) The approval holder must keep all published **plans** required by these conditions on the **website** until the expiry date of this approval.
- 20) The approval holder is required to exclude or redact **sensitive ecological data** from **plans** published on the **website** or otherwise provided to a member of the public. If **sensitive ecological data** is excluded or redacted from a **plan**, the approval holder must notify the **department** in writing what exclusions and redactions have been made in the version published on the **website**.

#### **NOTIFICATION OF DATE OF COMMENCEMENT OF THE ACTION**

- 21) The approval holder must notify the **department** electronically of the date of **commencement of the Action**, within 10 **business days** following **commencement of the Action**.
- 22) The approval holder must not **commence the Action** later than 5 years after the date of this approval decision.

#### **COMPLIANCE RECORDS**

- 23) The approval holder must maintain accurate and complete **compliance records**.

- 24) If the **department** makes a request in writing, the approval holder must provide electronic copies of **compliance records** to the **department** within the timeframe specified in the request.

**Note:** **Compliance records** may be subject to audit by the **department**, or by an independent auditor in accordance with section 458 of the **EPBC Act**, and/or be used to verify compliance with the conditions. Summaries of the results of an audit may be published on the **department's** website or through the general media.

- 25) The approval holder must ensure that any **monitoring data** (including **sensitive ecological data**), surveys, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the *Guidelines for biological survey and mapped data*, Commonwealth of Australia 2018, or as otherwise specified by the **Minister** in writing.
- 26) The approval holder must ensure that any **monitoring data** (including **sensitive ecological data**), surveys, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the *Guide to providing maps and boundary data for EPBC Act projects*, Commonwealth of Australia 2021, or as otherwise specified by the **Minister** in writing.
- 27) The approval holder must submit all **monitoring data** (including **sensitive ecological data**), surveys, maps, other spatial and metadata and all species occurrence record data (sightings and evidence of presence) electronically to the **department** within 60 **business days** of each anniversary of the date of this approval decision or in accordance with the requirements of the **Construction Environment Management Plan, Matters of National Significance Management Plan, Pest and Weed Management Plan** and the **Bushfire Management Plan**.

#### ANNUAL COMPLIANCE REPORTING

- 28) The approval holder must prepare a **compliance report** for each 12-month period following the date of this approval decision, or as otherwise agreed to in writing by the **Minister**.
- 29) Each **compliance report** must be consistent with the *Annual Compliance Report Guidelines*, Commonwealth of Australia 2023.
- 30) Each **compliance report** must include:
- a) Accurate and complete details of compliance and any non-compliance with the conditions and the **plans**, and any **incidents**.
  - b) One or more **shapefile** showing all **clearing of protected matters**, and/or their habitat, undertaken within the 12-month period at the end of which that **compliance report** is prepared.
  - c) A schedule of all **plans** in existence in relation to these conditions and accurate and complete details of how each **plan** is being implemented.
- 31) The approval holder must:
- a) Publish each **compliance report** on the **website** within 60 **business days** following the end of the 12-month period for which that **compliance report** is required.
  - b) Notify the **department** electronically, within 5 **business days** of the date of publication that a **compliance report** has been published on the website.
  - c) Provide the weblink for the **compliance report** in the notification to the **department**.
  - d) Keep all published **compliance reports** required by these conditions on the **website** until the expiry date of this approval.

- e) Exclude or redact **sensitive ecological data** from **compliance reports** published on the **website** or otherwise provided to a member of the public.
- f) If **sensitive ecological data** is excluded or redacted from the published version, submit the full **compliance report** to the **department** within 5 **business days** of its publication on the **website** and notify the **department** in writing what exclusions and redactions have been made in the version published on the **website**.

**Note:** **Compliance reports** may be published on the **department's** website.

#### REPORTING NON-COMPLIANCE

- 32) The approval holder must notify the **department** electronically, within 2 **business days** of becoming aware of any **incident** and/or potential non-compliance and/or actual non-compliance with the conditions or commitments made in a **plan**.
- 33) The approval holder must specify in the notification:
  - a) Any condition or commitment made in a **plan** which has been or may have been breached.
  - b) A short description of the **incident** and/or potential non-compliance and/or actual non-compliance.
  - c) The location (including co-ordinates), date and time of the **incident** and/or potential non-compliance and/or actual non-compliance.

**Note:** If the exact information cannot be provided, the approval holder must provide the best information available.

- 34) The approval holder must provide to the **department** in writing, within 12 **business days** of becoming aware of any **incident** and/or potential non-compliance and/or actual non-compliance, the details of that **incident** and/or potential non-compliance and/or actual non-compliance with the conditions or commitments made in a **plan**. The approval holder must specify:
  - a) Any corrective action or investigation which the approval holder has already taken.
  - b) The potential **impacts** of the **incident** and/or non-compliance.
  - c) The method and timing of any corrective action that will be undertaken by the approval holder.

#### INDEPENDENT AUDIT

- 35) The approval holder must ensure that an **independent audit** of compliance with the conditions is conducted for every five-year period following the **commencement of the Action** until this approval expires, unless otherwise specified in writing by the **Minister**.
- 36) For each **independent audit**, the approval holder must:
  - a) Provide the name and qualifications of the nominated independent auditor, the draft audit criteria, and proposed timeframe for submitting the **audit report** to the **department** prior to commencing the **independent audit**.
  - b) Only commence the **independent audit** once the nominated **independent** auditor, audit criteria and timeframe for submitting the **audit report** have been approved in writing by the **department**.

- c) Submit the **audit report** to the **department** for approval within the timeframe specified and approved in writing by the **department**.
  - d) Publish each **audit report** on the **website** within 15 **business days** of the date of the **department's** approval of the **audit report**.
  - e) Keep every **audit report** published on the **website** until this approval expires.
- 37) Each **audit report** must report for the five-year period preceding that **audit report**.
- 38) Each **audit report** must be completed to the satisfaction of the **Minister** and be consistent with the *Environment Protection and Biodiversity Conservation Act 1999 Independent Audit and Audit Report Guidelines*, Commonwealth of Australia 2019.

#### COMPLETION OF THE ACTION

- 39) The approval holder must notify the **department** electronically 60 **business days** prior to the expiry date of this approval, that the approval is due to expire.
- 40) Within 20 **business days** after the **completion of the Action**, and, in any event, before this approval expires, the approval holder must notify the **department** electronically of the date of **completion of the Action** and provide **completion data**. The approval holder must submit any spatial data that comprises **completion data** as a **shapefile**.

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#### Part C – Definitions

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In these conditions any bolded use of a word or term refers to the below definition of that word or term:

**Action area** means the location of the Action, represented in Attachment A by the zones shaded red, blue and green and labelled 'Road upgrade', 'Water Infrastructure Network' and 'Site Laydown area'.

**Audit report** means a written report of compliance and fulfilment of the conditions attached to this approval, objectively evaluated against the audit criteria approved by the **department**.

**Bare-rumped Sheathtail Bat** means the **EPBC Act** listed threatened species *Saccolaimus saccolaimus nudiclunatus*.

**Bare-rumped Sheathtail Bat foraging habitat** means areas where the **Bare-rumped Sheathtail Bat** can forage primarily for aerial insects over woodland/forest canopy. Within the **Action area**, the extent of **Bare-rumped Sheathtail Bat foraging habitat** identified at the time of this approval is represented in Attachment D by the zone shaded green and labelled 'Foraging'.

**Bare-rumped Sheathtail Bat roosting habitat** means vegetation with hollows with a 200mm diameter and with exfoliating bark. Within the **Action area**, the extent of **Bare-rumped Sheathtail Bat roosting habitat** identified at the time of this approval is represented in Attachment D by the zone shaded pink and labelled 'Roosting'.

**Bushfire Management Plan** means the document titled *Bushfire Management Plan-Lansdown Eco-Industrial Precinct, Industrial Development: Utility Installation*, dated 30 May 2023 and prepared by Blackash Fire Consulting, or the latest subsequent version revised in accordance with these conditions or approved by the **Minister** in writing.

**Business day** means a day that is not a Saturday, a Sunday or a public holiday in Queensland.

**Clear, cleared or clearing** means the cutting down, felling, thinning, logging, removing, killing, destroying, poisoning, ringbarking, uprooting, or burning of vegetation but does not include weeds (see the *Australian Weeds Strategy 2017-2027*, Commonwealth of Australia 2017 for further guidance').

**Commence the Action or Commencement of the Action** means the date on which the first instance of any activity associated with the Action (including **clearing** and **construction**) is undertaken. **Commencement of the Action** does not include minor physical disturbance necessary to:

- a) Undertake pre-clearance surveys or monitoring programs.
- b) Install signage and/or temporary fencing to prevent unapproved use of the **Action area**, so long as the signage and/or temporary fencing is located where it does not **harm** any **protected matter**.
- c) Protect environmental and property assets from fire, weeds, and feral animals, including use of existing surface access tracks.
- d) Install temporary site facilities for persons undertaking pre-commencement activities so long as these facilities are located where they do not **harm** any **protected matter**.

**Completion data** means an environmental report and spatial data clearly detailing how the conditions of this approval have been met.

**Completion of the Action** means the date on which all activities associated with this approval have permanently ceased and/or been completed.

**Compliance records** means all documentation or other material in whatever form required to demonstrate compliance with the conditions of approval (including compliance with commitments made in **plans**) in the approval holder's possession, or that are within the approval holder's power to obtain lawfully.

**Compliance report** means a written report of compliance with, and fulfilment of, the conditions attached to the approval.

**Construction** means the erection of a building or structure that is, or is to be, fixed to the ground and wholly or partially fabricated on-site; the alteration, maintenance, repair or demolition of any building or structure; any work which involves breaking of the ground (including pile driving) or



bulk earthworks; the laying of pipes and other prefabricated materials in the ground, and any associated excavation work; but excluding the installation of temporary fences and signage.

**Construction Environment Management Plan** means the document titled *Townsville City Council, Lansdown Eco-Industrial Precinct-Enabling Infrastructure: Construction Environmental Management Plan*, dated 1 September 2023 and prepared by CDM Smith, or the latest subsequent version revised in accordance with these conditions or approved by the **Minister** in writing.

**Department** means the Australian Government agency responsible for administering the **EPBC Act**.

**EPBC Act** means the *Environment Protection and Biodiversity Conservation Act 1999* (Cth).

**Harm** means to cause any measurable direct or indirect disturbance or deleterious change as a result of any activity associated with the Action.

**Impact** means to cause any measurable direct, indirect or facilitated disturbance or harmful change as a result of any activity associated with the action.

**Incident** means any event which has the potential to, or does, **harm any protected matter**.

**Independent** means a person or firm who does not have any individual, financial\*, employment\* or family affiliation or any conflicting interests with the project, the approval holder or the approval holder's staff, representatives, or associated persons.

\*Other than for the purpose of undertaking the role for which an independent person is required

**Independent audit** means an audit conducted by an **independent** and **suitably qualified person** as detailed in the *Environment Protection and Biodiversity Conservation Act 1999 Independent Audit and Audit Report Guidelines*, Commonwealth of Australia 2019.

**Matters of National Environmental Significance Management Plan** means the document titled *Townsville City Council-Matters of National Environmental Significance Management Plan*, dated 1 September 2023 and prepared by CDM Smith, or the latest subsequent version revised in accordance with these conditions or approved by the **Minister** in writing.

**Minister** means the Australian Government **Minister** administering the **EPBC Act**, including any delegate thereof.

**Monitoring data** means the data required to be recorded under the conditions of this approval.

**Nest** means a structure or place made or chosen by a bird for laying eggs and sheltering its young.

**Nesting** means building, occupying, or building and occupying a **nest**.



**New or increased impact** means any direct or indirect increase in the **impacts** of an Action, an increase to the likelihood of an **impact** occurring, a reduction to the monitoring or mitigation measures for a **protected matter**, and/or a change to the nature or management of an environmental offset as outlined in the *Guidance on 'new or increased impact' relating to changes to approved management plans under EPBC Act environmental approvals*, Commonwealth of Australia 2017.

**Offset Management Plan** means the document titled *Lansdown Eco-Industrial Precinct Water and Sewer Alignment, Offset Management Plan*, dated 06 September 2023 and prepared by Evolve Environmental Solutions Pty Ltd, or the latest subsequent revised version approved by the **Minister** in writing.

**Offset site** means the area represented in Attachment E by the zones shaded yellow, blue and pink and labelled 'MZ1', 'MZ2' and 'MZ3'.

**Plan** means any action management plan or strategy that the approval holder is required by these conditions to implement.

**Protected matter** means a matter protected under a controlling provision in Part 3 of the **EPBC Act** for which this approval has effect.

**Recent activity** or **recently active** means that there is evidence that either, or both, **Southern Black-throated Finch** or **Squatter Pigeon** have been present in or close to a tree preparing it for use or using it for **nesting**.

**Roost** or **roosting** means a place where **Bare-rumped Sheathtail Bat** settles to rest, sleep and/or breed.

**Secure** or **secured** means to provide enduring conservation protection on the title of land under an enduring protection mechanism, such as a voluntary declaration under the *Vegetation Management Act 1999* (QLD) or another enduring protection mechanism agreed to in writing by the **department**, to provide protection for the site against development incompatible with conservation.

**Sensitive ecological data** means data as defined in the *Sensitive Ecological Data – Access and Management Policy V1.0*, Commonwealth of Australia 2016.

**Shapefile** means location and attribute information about the Action provided in an Esri shapefile format containing:

- a) '.shp', '.shx', '.dbf' files,
- b) a '.prj' file which specifies the projection or geographic coordinate system used, and
- c) an '.xml' metadata file that describes the shapefile for discovery and identification purposes.

**Southern Black-throated Finch** means the EPBC Act listed threatened species *Poephila cincta cincta*.

**Southern Black-throated Finch breeding and foraging habitat** means areas of vegetation with open grassy woodland with suitable **nesting** trees, within 1 km of seasonal water sources. Within the **Action area**, the extent of **Black-throated Finch breeding and foraging habitat** identified at the time of this approval is represented in Attachment B by the zone shaded orange and labelled 'Black-throated Finch habitat mapping'.

**Squatter Pigeon** means the EPBC Act listed threatened species *Geophaps scripta scripta*.

**Squatter Pigeon breeding habitat** means any remnant or regrowth open forest or woodland community with a patchy tussock grass understorey on well-draining, gravelly, sandy or loamy soils or open community dominated by *Eucalyptus*, *Corymbia*, *Acacia* or *Callitris* species within 1 kilometre of a waterbody. Within the **Action area**, the extent of **Squatter Pigeon breeding habitat** identified at the time of this approval is represented in Attachment C by the zone shaded pink and labelled 'Breeding'.

**Squatter Pigeon dispersal habitat** means any forest or woodland between patches of foraging or breeding habitat and suitable waterbodies. Within the **Action area**, the extent of **Squatter Pigeon dispersal habitat** identified at the time of this approval is represented in Attachment C by the zone shaded orange and labelled 'Dispersal'.

**Squatter Pigeon foraging habitat** means any remnant or regrowth open forest or woodland community with a patchy tussock grass understorey on well-draining, gravelly, sandy or loamy soils or open community dominated by *Eucalyptus*, *Corymbia*, *Acacia* or *Callitris* species within 3 kilometres of a waterbody. Within the **Action area**, the extent of **Squatter Pigeon foraging habitat** identified at the time of this approval is represented in Attachment C by the zone shaded green and labelled 'Foraging'.

**Suitably qualified expert** (for the purpose of undertaking environmental surveys) means a person who has relevant professional qualifications and work experience, and can give an authoritative assessment and advice on the presence of **Black-throated Finch**, **Bare-rumped Sheath-tail Bat** and **Squatter Pigeon** using relevant protocols, standards, methods and/or literature.

**Suitably qualified person** means a person who has professional qualifications, training, skills and/or experience related to the nominated subject matter and can give authoritative independent assessment, advice and analysis on performance relative to the subject matter using the relevant protocols, standards, methods and/or literature.

**Website** means a set of related web pages located under a single domain name attributed to the approval holder and available to the public.

**Weed and Pest Management Plan** means the document titled *Townsville City Council-Lansdown Eco-Industrial Precinct-Enabling Infrastructure: Weed and Pest Management Plan*, dated 1 September 2023 prepared by CDM Smith, or the latest subsequent version revised in accordance with these conditions or approved by the **Minister** in writing.

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## Attachments

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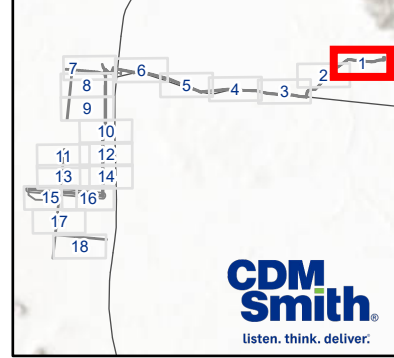
Attachment A - Action area layout plan

Attachment B - Southern Black-throated Finch habitat

Attachment C - Squatter Pigeon habitat

Attachment D - Bare-rumped Sheath-tail Bat habitat

Attachment E - Offset site for Black-throated Finch



## Project Overview - Map 1 of 18

### LEGEND

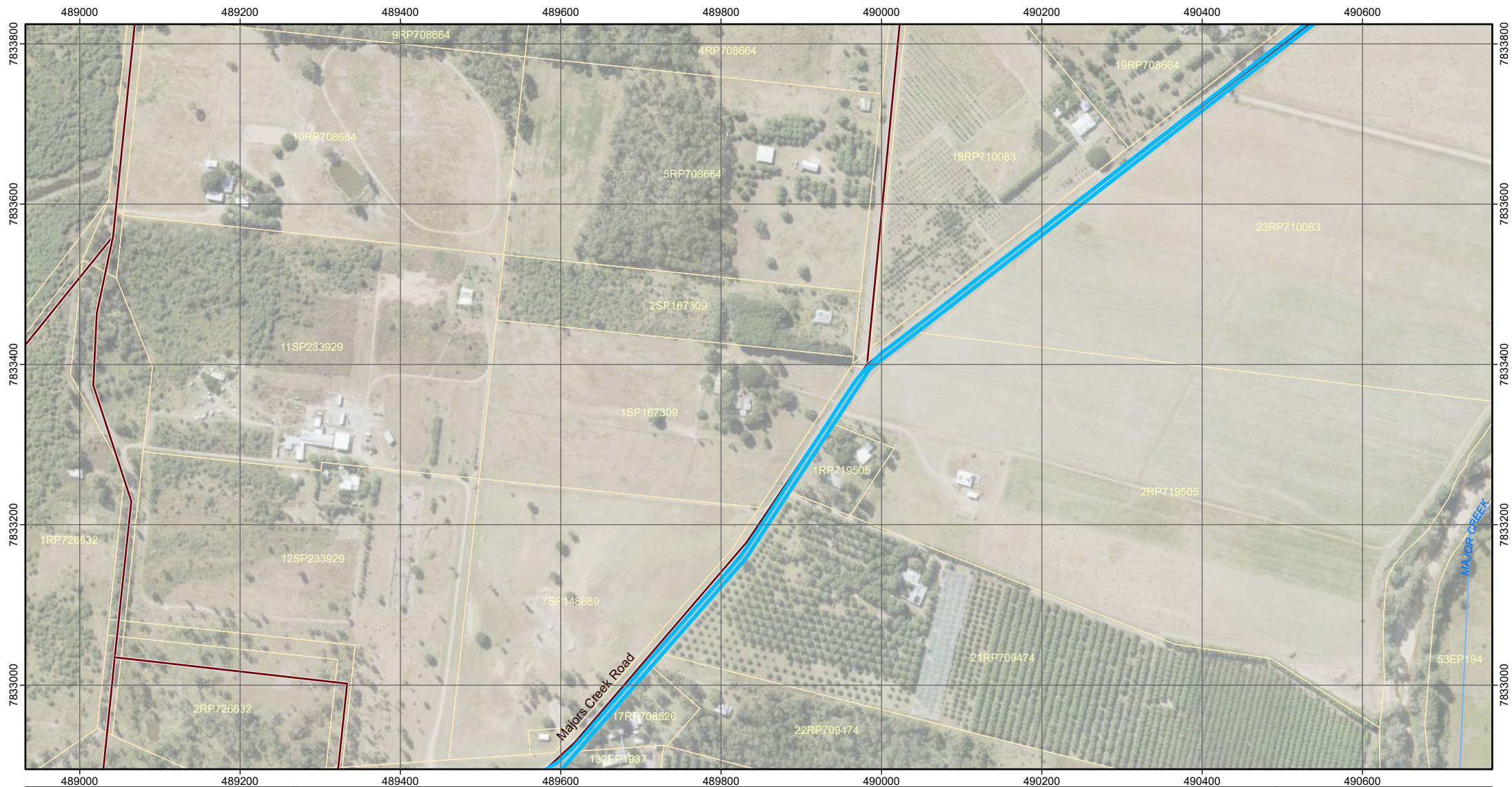
-  Water Infrastructure Network
-  Existing Roads
-  Watercourse
-  Cadastre & Lot Plan (DCDB)



User: ZURAWSKI 16/11/2023  
Project: DCEEW map series.aprx  
Client: 1001483 TCC - LEIP Prelim Documentation  
Projection: GDA 1994 MGA Zone 55

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Imagery: Queensland Satellite Data QSat 2017.

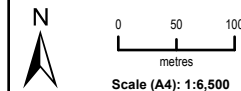
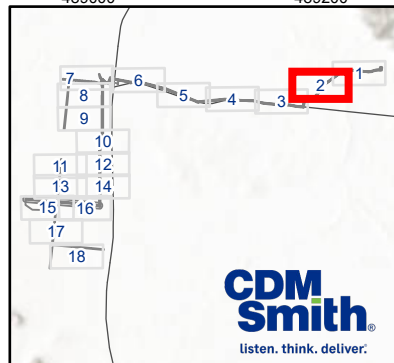




## Project Overview - Map 2 of 18

### LEGEND

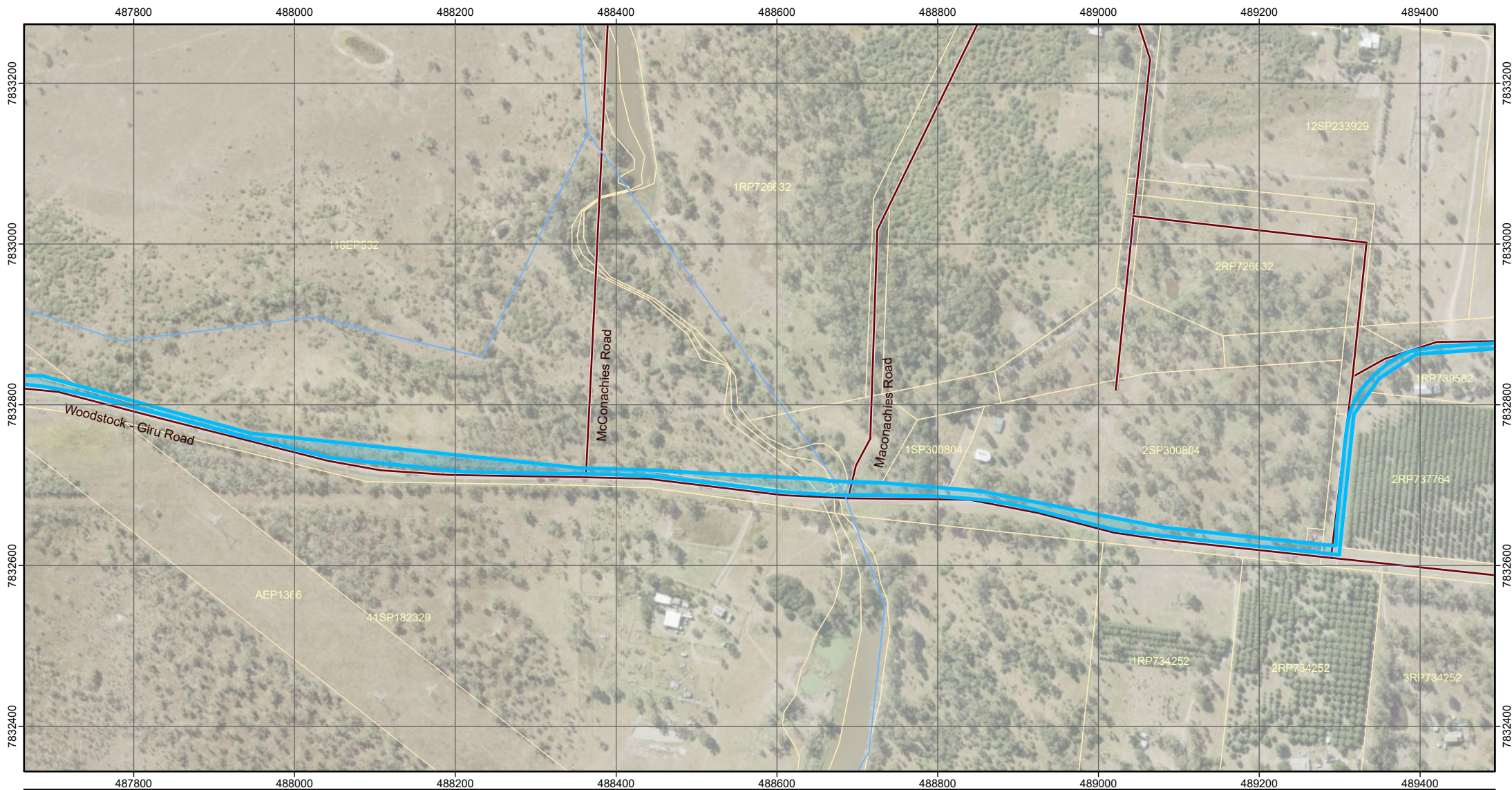
- Water Infrastructure Network
- Existing Roads
- ~ Watercourse
- Cadastre & Lot Plan (DCDB)



User: ZURAWSKI KO 16/11/2023  
 Project: DCCEEW map series.aprx  
 Client: 1001483 TCC - LEIP Prelim Documentation  
 Projection: GDA 1994 MGA Zone 55

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 Imagery: Queensland Satellite Data QSat 2017.

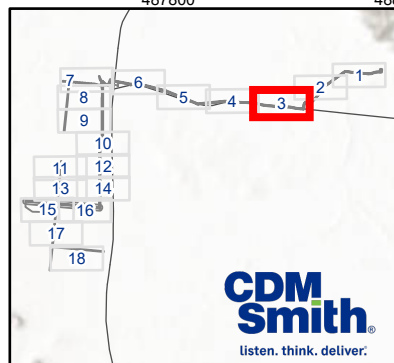




## Project Overview - Map 3 of 18

### LEGEND

- Water Infrastructure Network
- Existing Roads
- ~ Watercourse
- Cadastre & Lot Plan (DCDB)



**CDM Smith**  
listen. think. deliver.



0 50 100  
metres

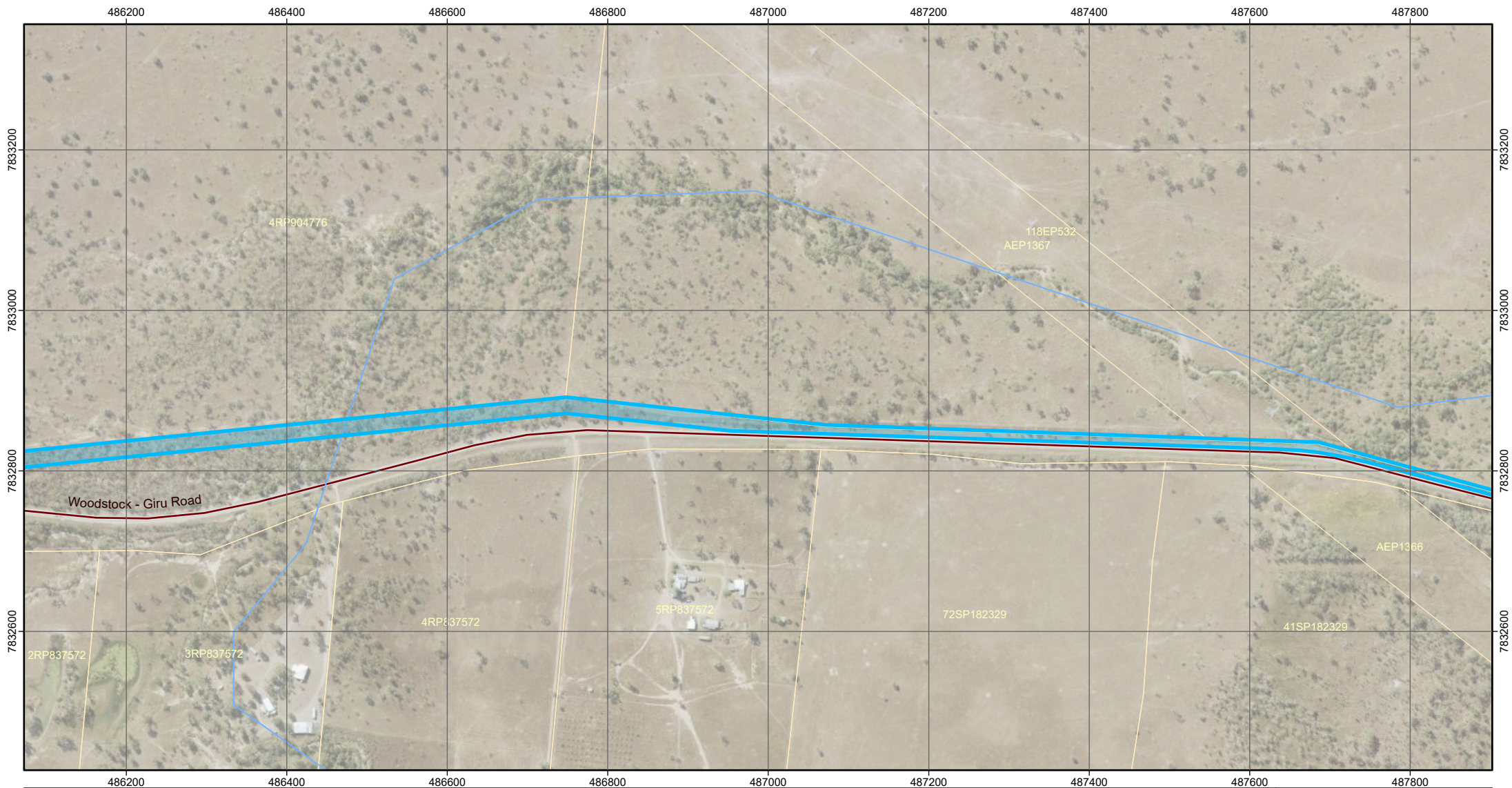
Scale (A4): 1:6,500

User: ZURAWSIKO 16/11/2023  
Project: DCCEE map series.aprx  
Client: 1001483 TCC - LEIP Prelim Documentation

Projection: GDA 1994 MGA Zone 55

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Imagery: Queensland Satellite Data QSat 2017.

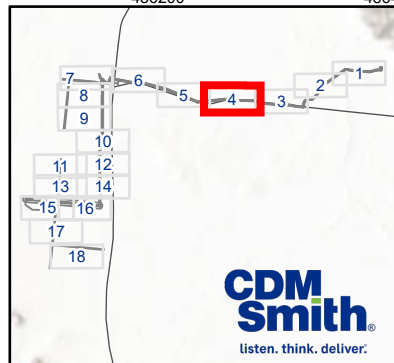




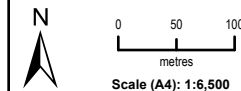
## Project Overview - Map 4 of 18

### LEGEND

- Water Infrastructure Network
- Existing Roads
- ~ Watercourse
- Cadastre & Lot Plan (DCDB)



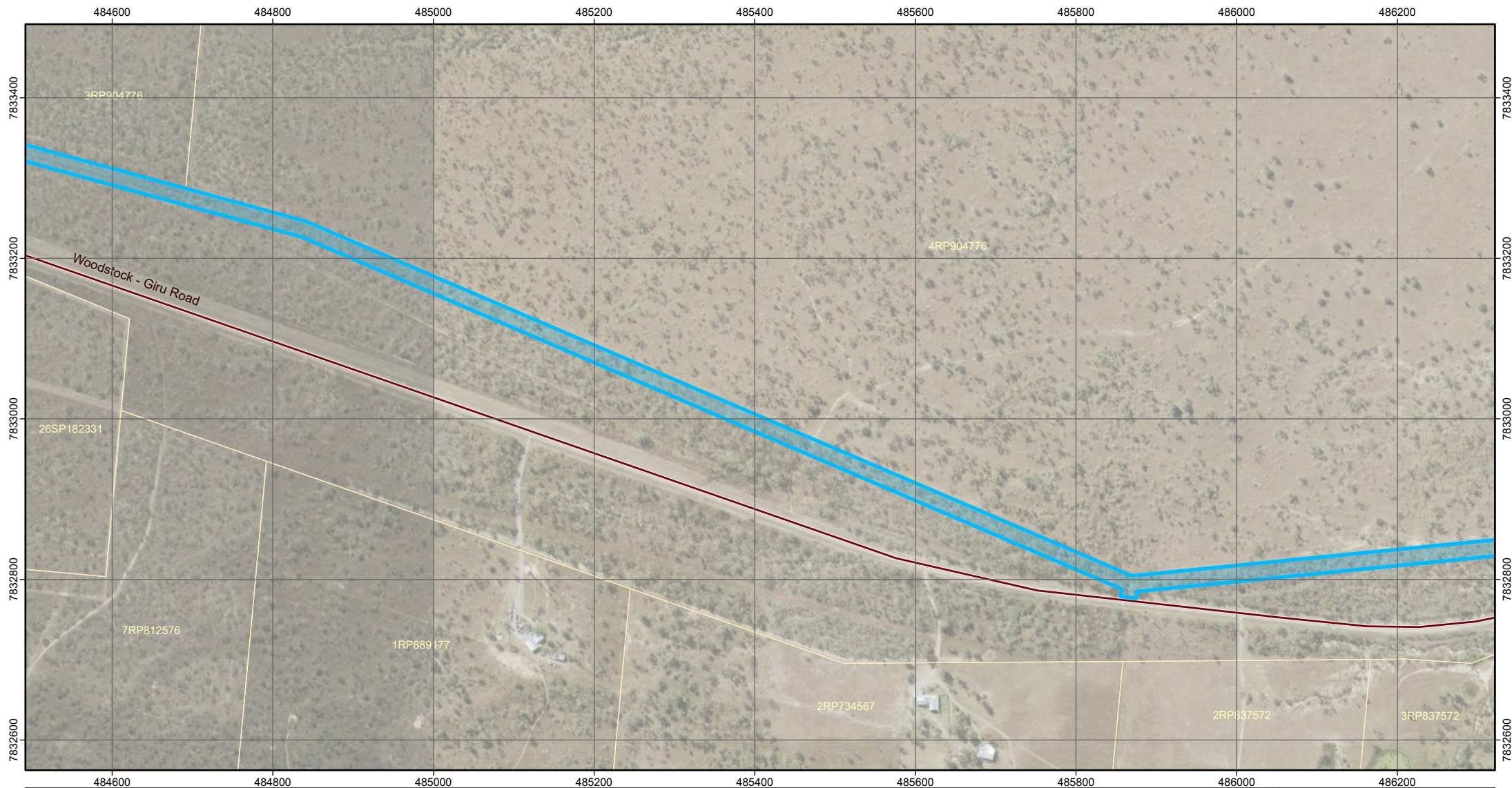
**CDM Smith**  
listen. think. deliver.



User: ZURAWSKIKO 16/11/2023  
Project: DCCEEW map series.aprx  
Client: 1001483 TCC - LEIP Prelim Documentation  
Projection: GDA 1994 MGA Zone 55

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Imagery: Queensland Satellite Data QSat 2017.

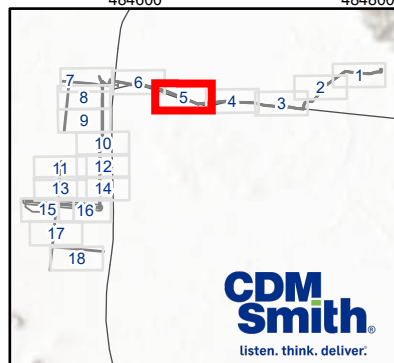




## Project Overview - Map 5 of 18

### LEGEND

- Water Infrastructure Network
  Existing Roads
  Cadastre & Lot Plan (DCDB)



**CDM Smith**  
listen. think. deliver.



0 50 100  
metres

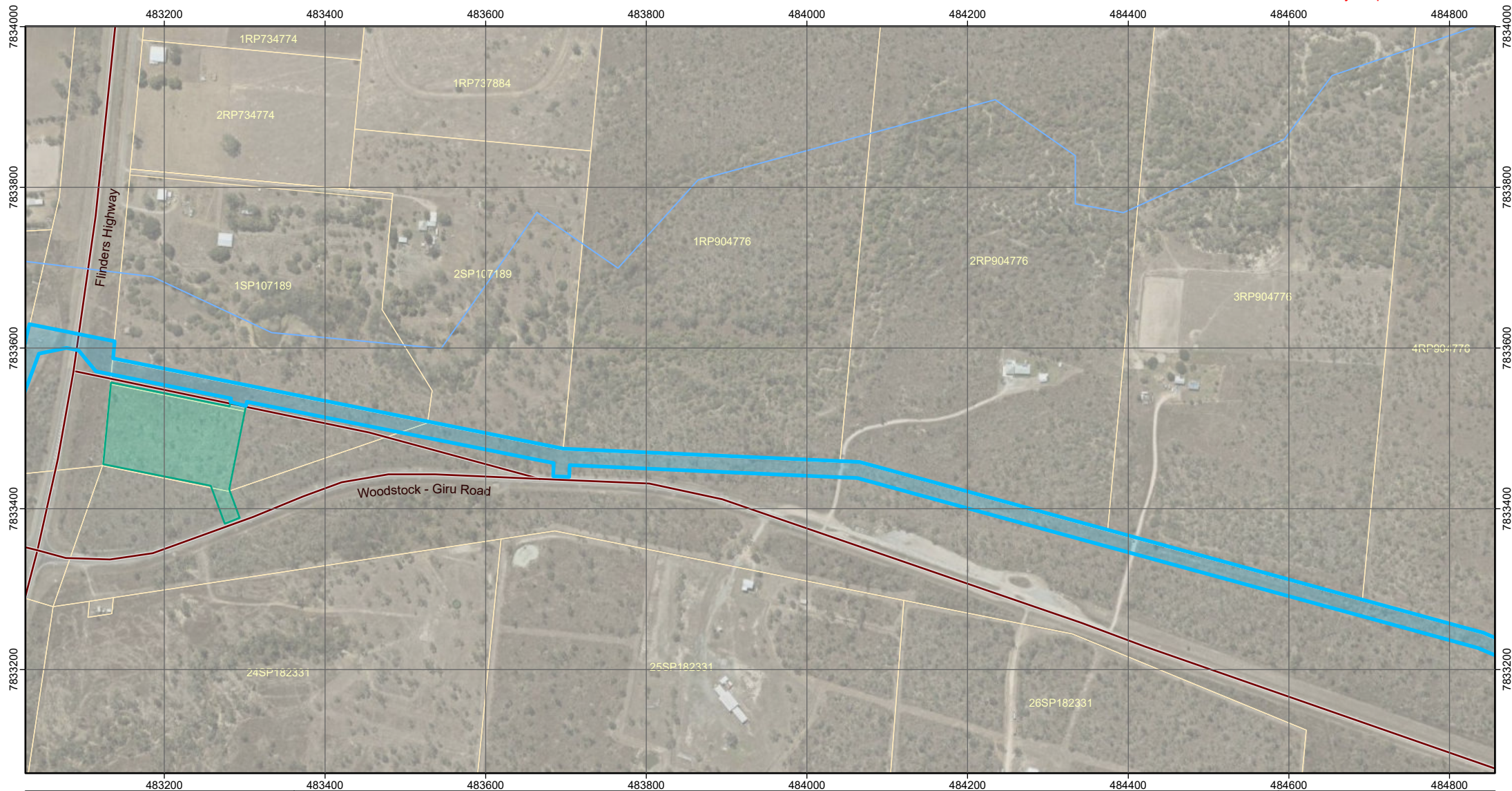
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User: ZURAWSIKO 16/11/2023  
Project: DCCEEW map series.aprx  
Client: 1001483 TCC - LEIP Prelim Documentation

Projection: GDA 1994 MGA Zone 55






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Imagery: Queensland Satellite Data QSat 2017.

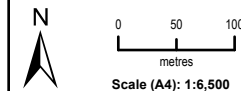
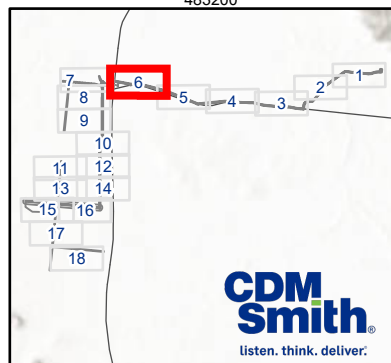




## Project Overview - Map 6 of 18

### LEGEND

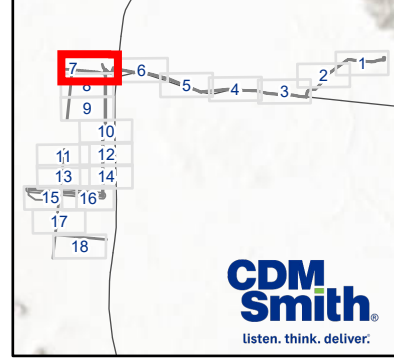
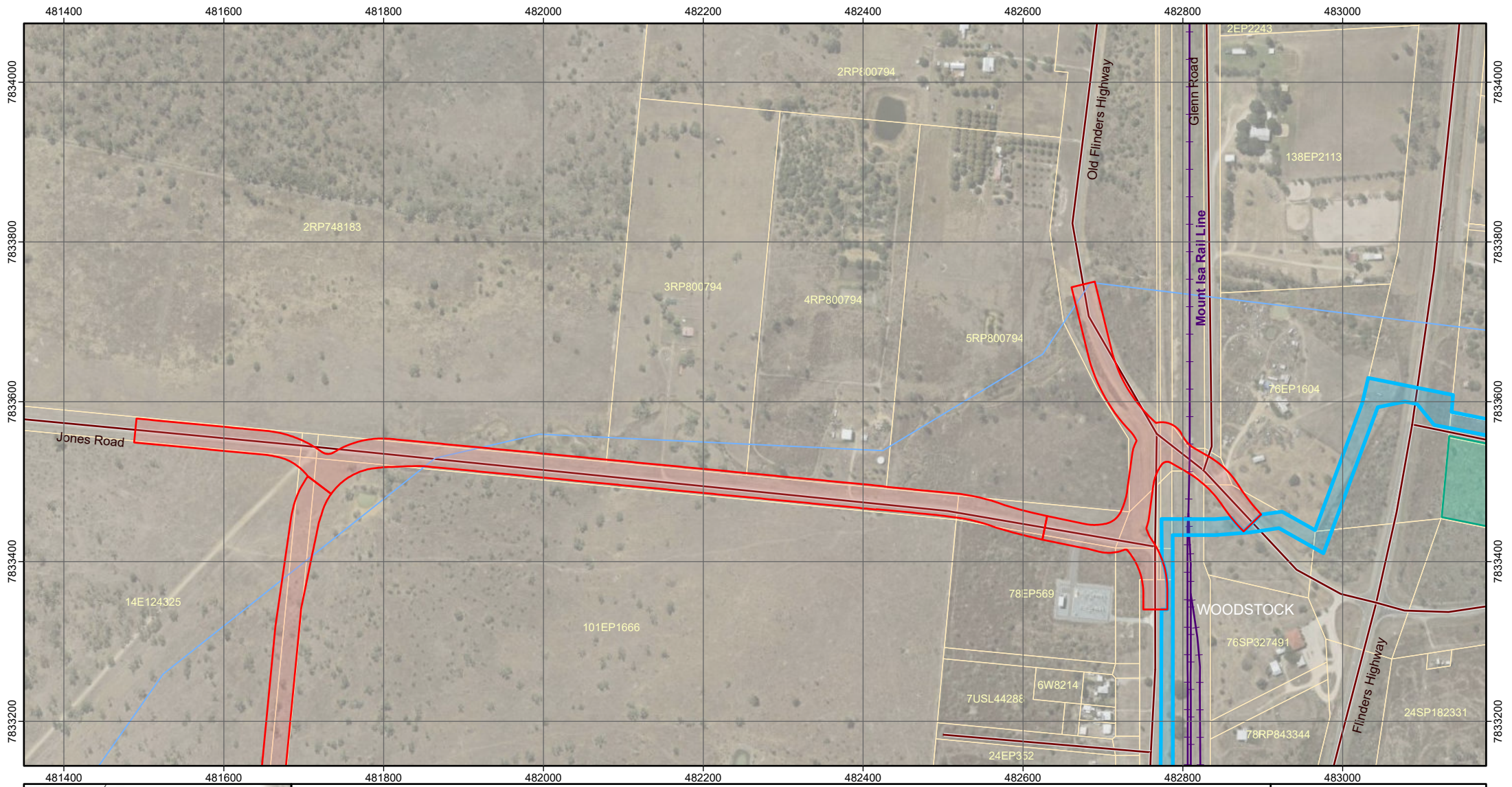
-  Water Infrastructure Network
-  Existing Roads
-  Cadastre & Lot Plan (DCDB)
-  Site Laydown Area
-  Watercourse



User: ZURAWSKI KO 16/11/2023  
 Project: DCEEW map series.aprx  
 Client: 1001483 TCC - LEIP Prelim Documentation  
 Projection: GDA 1994 MGA Zone 55

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 Imagery: Queensland Satellite Data QSat 2017.

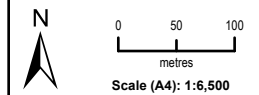




## Project Overview - Map 7 of 18

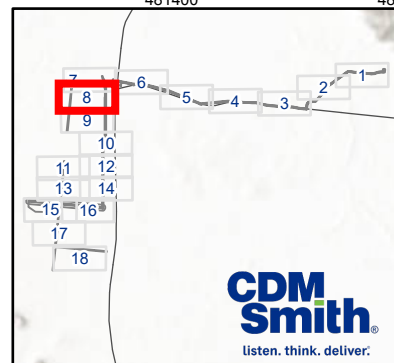
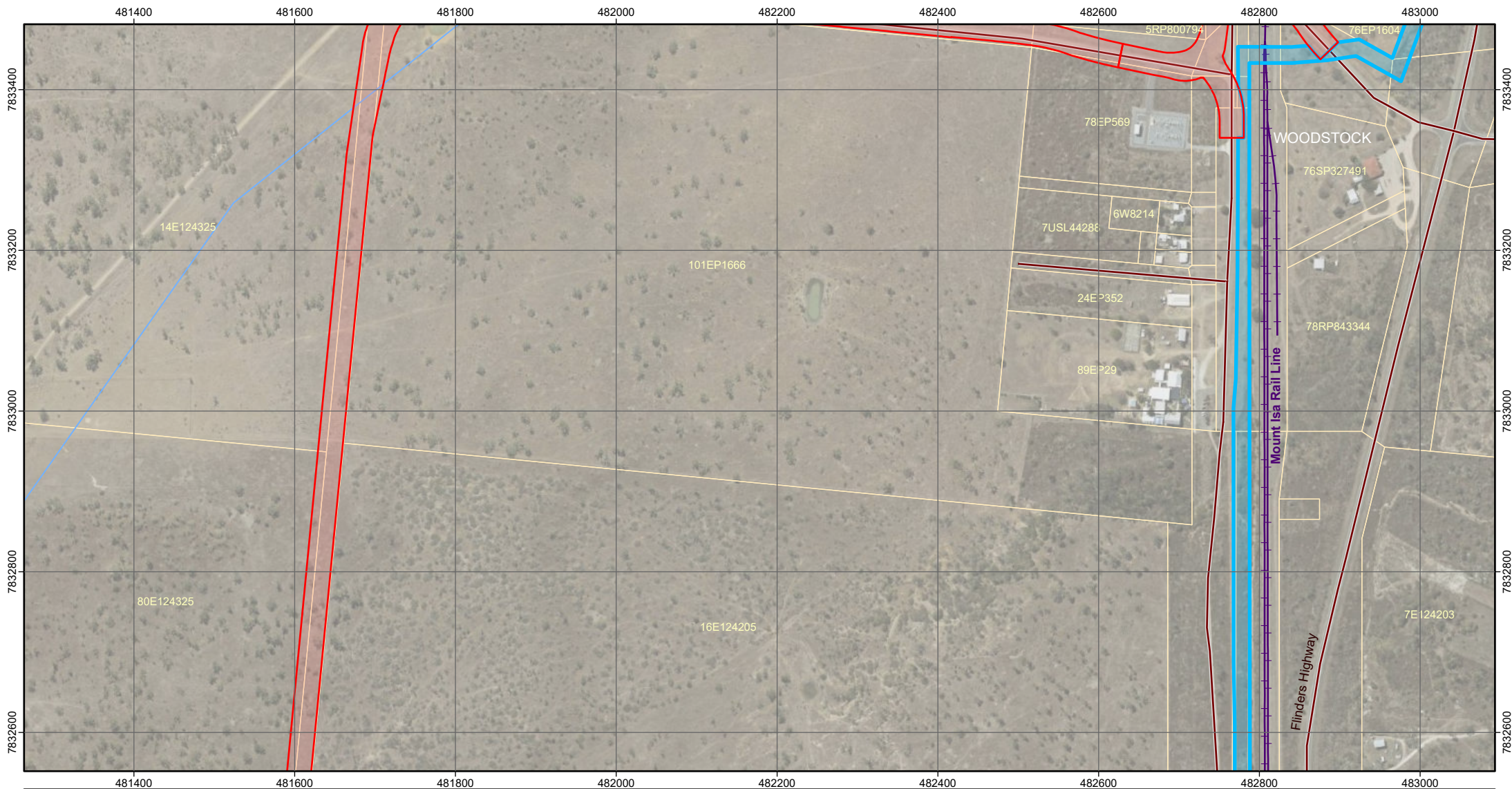
### LEGEND

- |                              |                |                            |
|------------------------------|----------------|----------------------------|
| Road Upgrades                | Rail Network   | Cadastre & Lot Plan (DCDB) |
| Water Infrastructure Network | Existing Roads |                            |
| Site Laydown Area            | Watercourse    |                            |



User: ZURAWSIKO 16/11/2023  
Project: DCCEEW map series.aprx  
Client: 1001483 TCC - LEIP Prelim Documentation  
Projection: GDA 1994 MGA Zone 55  
  
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Imagery: Queensland Satellite Data QSat 2017.

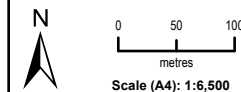




## Project Overview - Map 8 of 18

### LEGEND

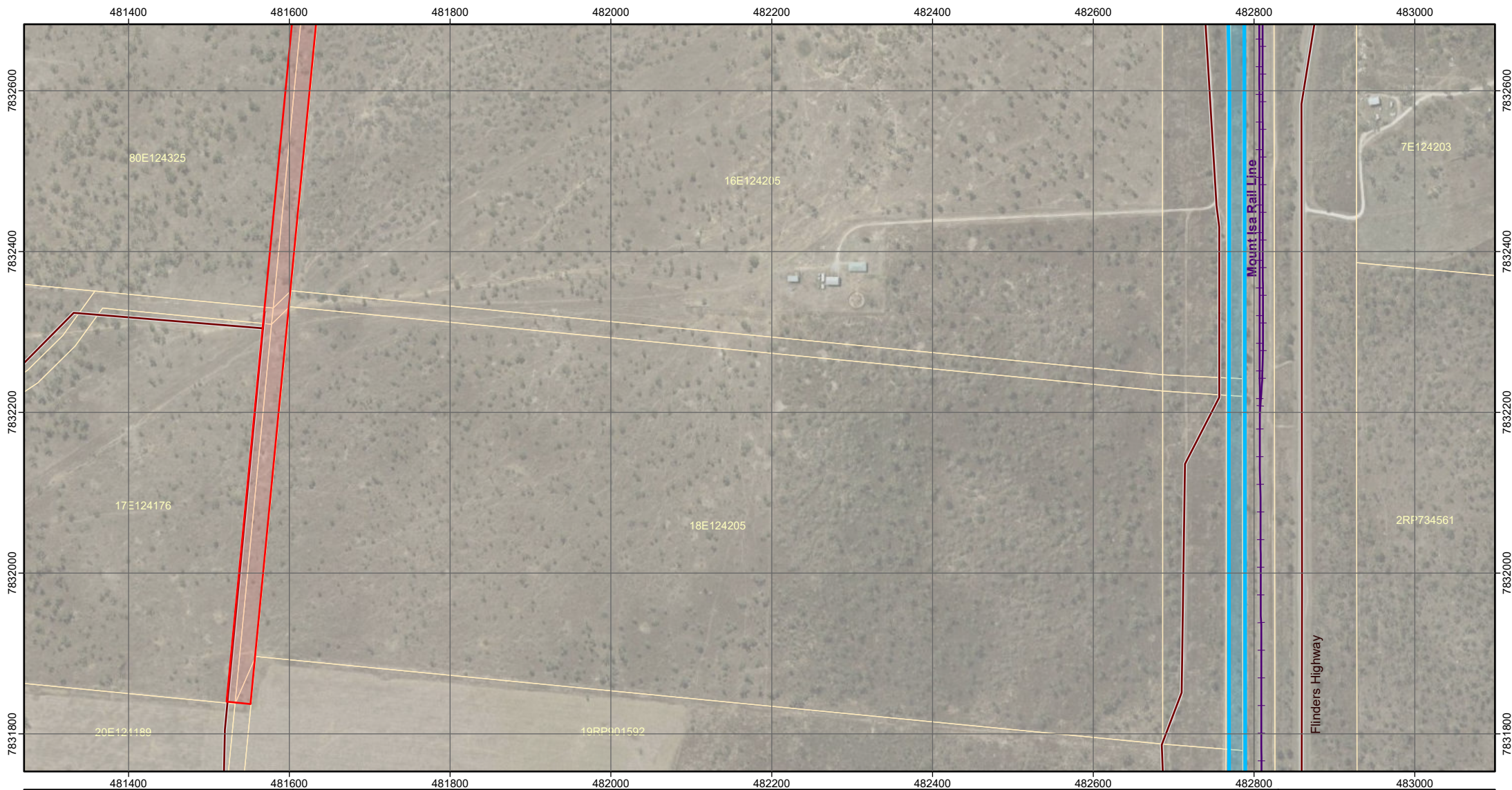
- |                              |                |                            |
|------------------------------|----------------|----------------------------|
| Road Upgrades                | Rail Network   | Watercourse                |
| Water Infrastructure Network | Existing Roads | Cadastre & Lot Plan (DCDB) |



User: ZURAWSIKO 16/11/2023  
 Project: DCCEEW map series.aprx  
 Client: 1001483 TCC - LEIP Prelim Documentation  
 Projection: GDA 1994 MGA Zone 55






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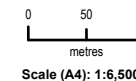
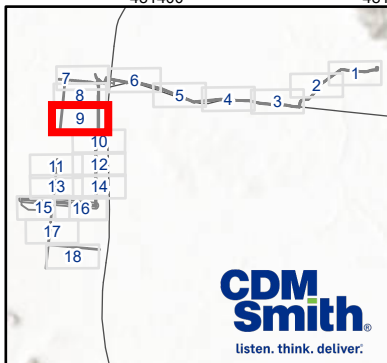




## Project Overview - Map 9 of 18

### LEGEND

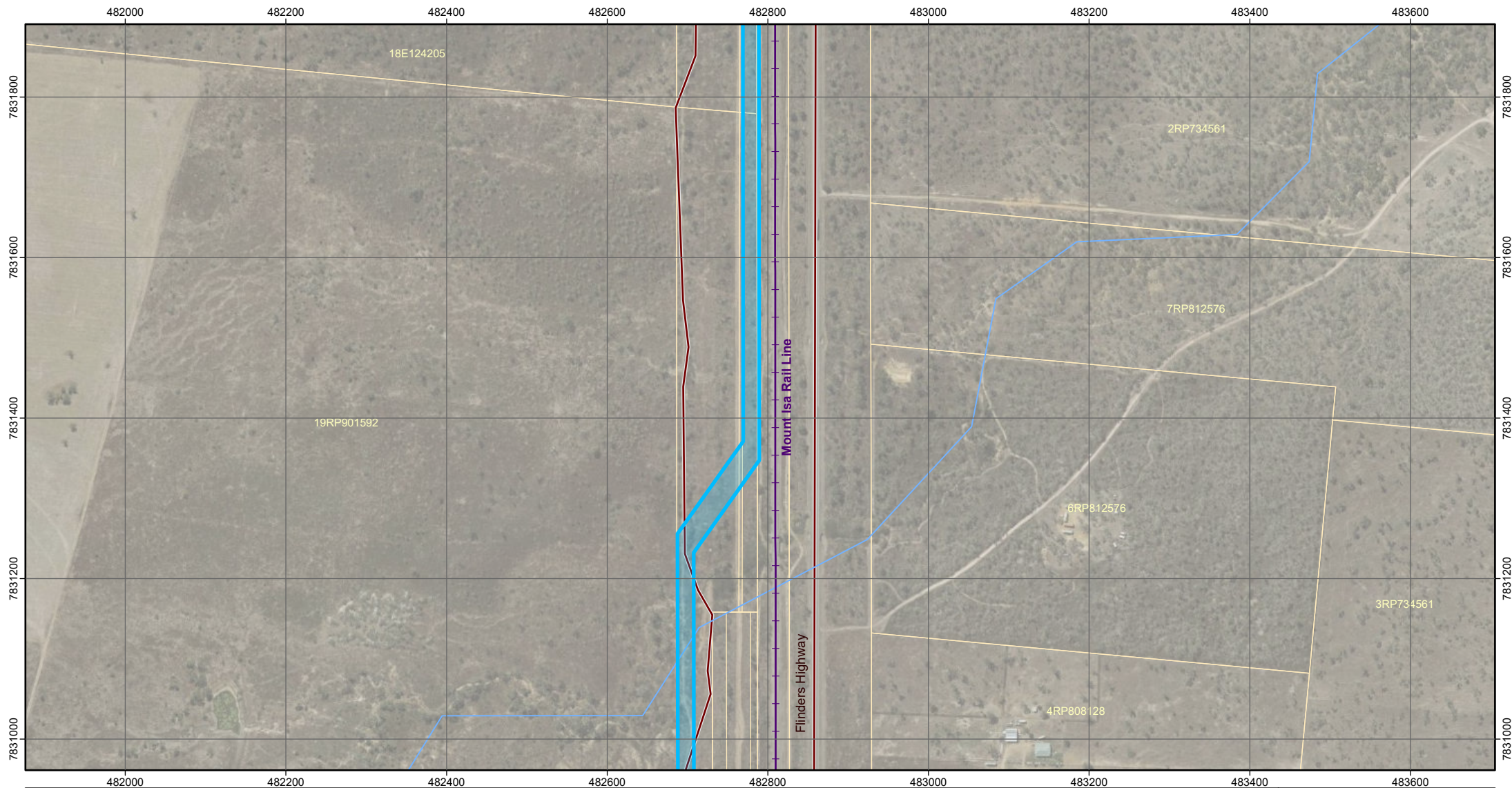
- |  |  |  |
|--|--|--|
|  Road Upgrades                |  Rail Network   |  Cadastre & Lot Plan (DCDB) |
|  Water Infrastructure Network |  Existing Roads |  |



User: ZURAWSIKO 16/11/2023  
Project: DCEEW map series.aprx  
Client: 1001483 TCC - LEIP Prelim Documentation  
Projection: GDA 1994 MGA Zone 55






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Imagery: Queensland Satellite Data QSat 2017.

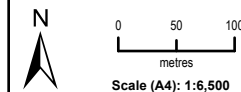
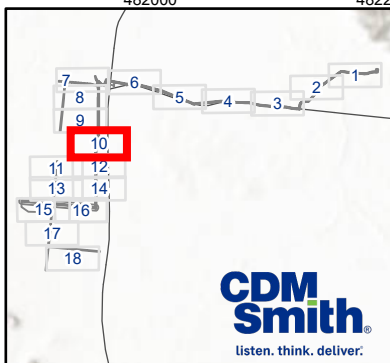




## Project Overview - Map 10 of 18

### LEGEND

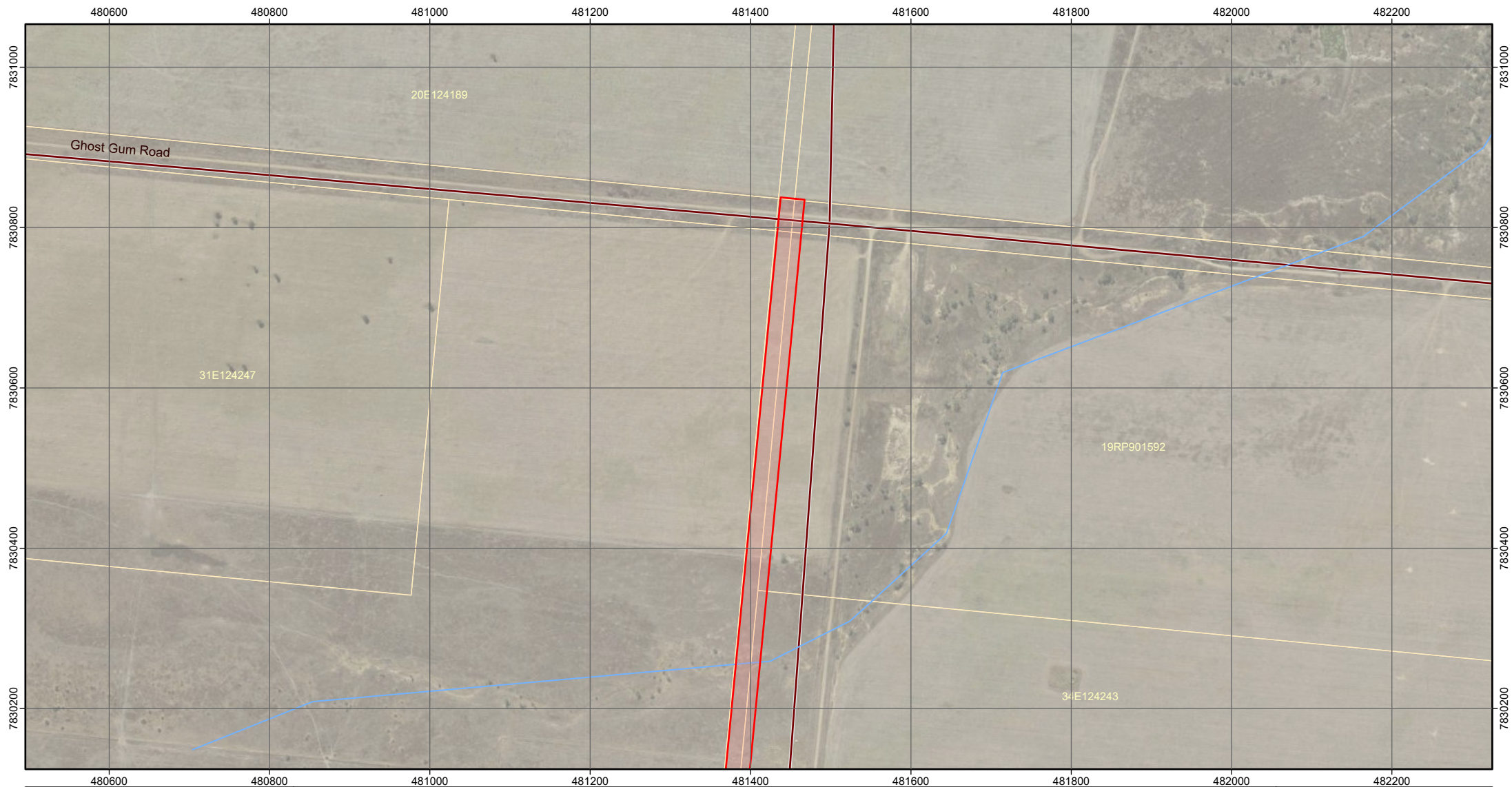
- |  |  |  |
|--|--|--|
|  Water Infrastructure Network |  Existing Roads |  Cadastre & Lot Plan (DCDB) |
|  Rail Network                 |  Watercourse    |  |



User: ZURAWSIKO 16/11/2023  
 Project: DCCEE map series.aprx  
 Client: 1001483 TCC - LEIP Prelim Documentation  
 Projection: GDA 1994 MGA Zone 55

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 Imagery: Queensland Satellite Data QSat 2017.

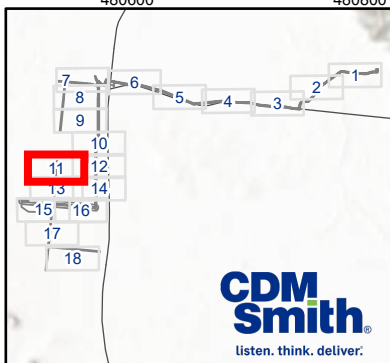




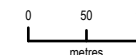
## Project Overview - Map 11 of 18

### LEGEND

- Road Upgrades
- Existing Roads
- Cadastre & Lot Plan (DCDB)
- Watercourse



**CDM  
Smith**  
listen. think. deliver.

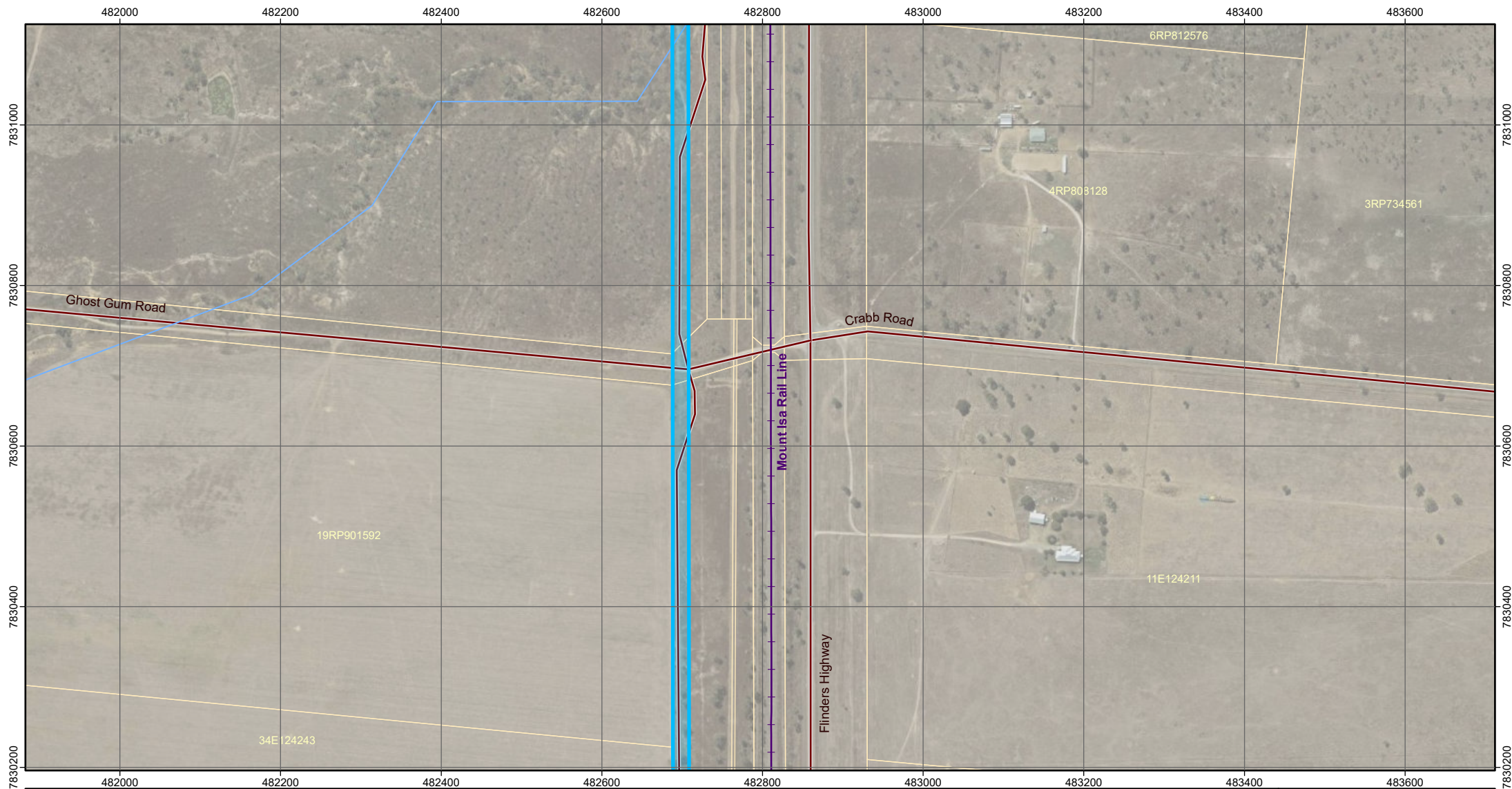


Scale (A4): 1:6,500

User: ZURAWSKI KO 16/11/2023  
Project: DCCEEW map series.aprx  
Client: 1001483 TCC - LEIP Prelim Documentation  
Projection: GDA 1994 MGA Zone 55






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Imagery: Queensland Satellite Data QSat 2017.

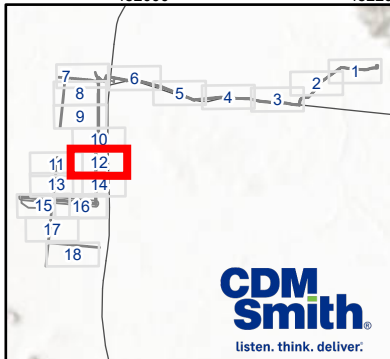




## Project Overview - Map 12 of 18

### LEGEND

- |  |  |  |
|--|--|--|
|  Water Infrastructure Network |  Existing Roads |  Cadastre & Lot Plan (DCDB) |
|  Rail Network                 |  Watercourse    |  |

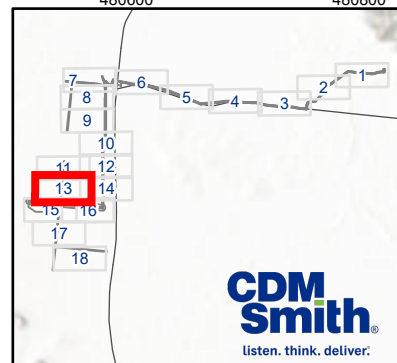
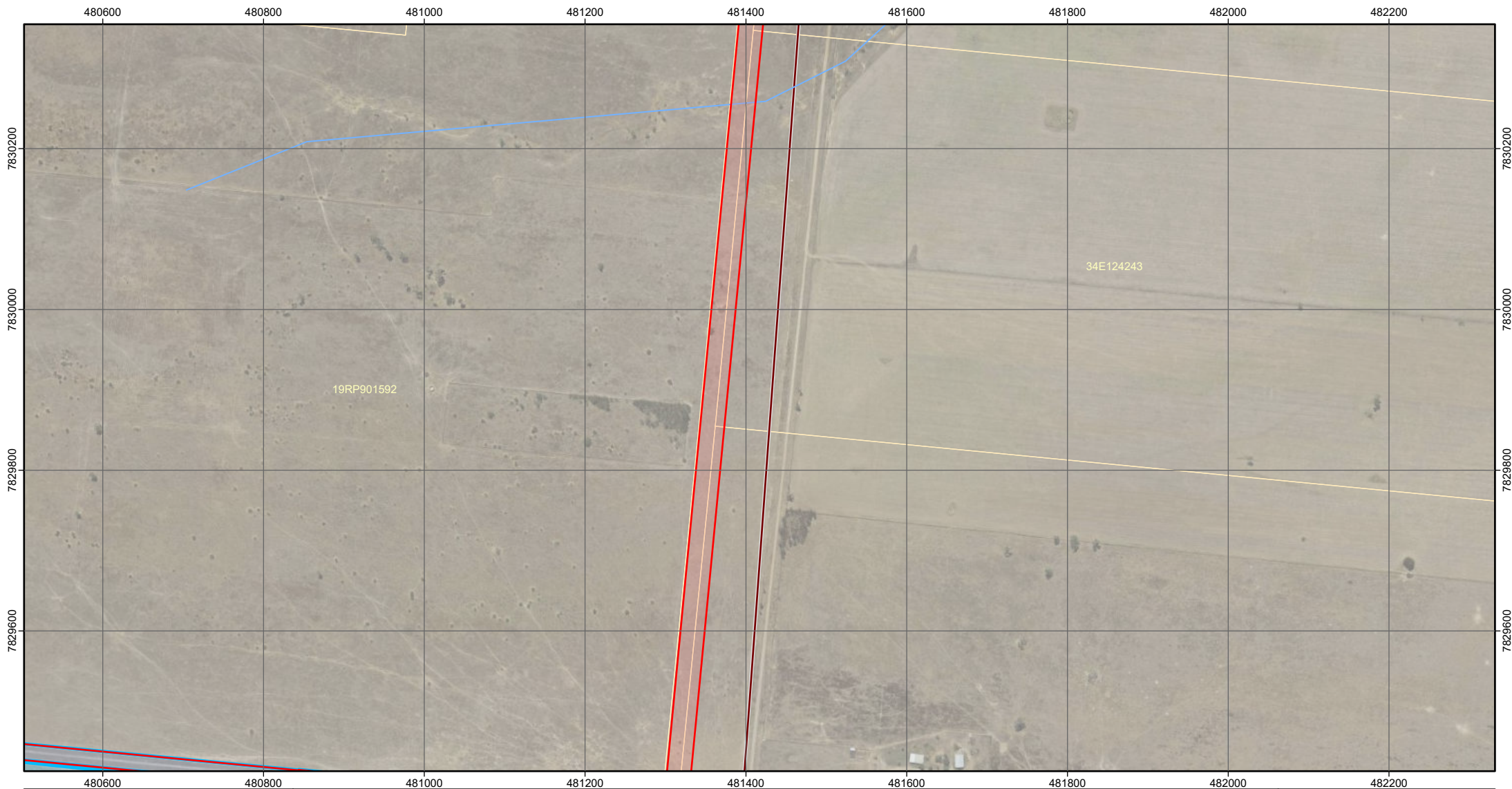


0 50 100  
metres  
Scale (A4): 1:6,500

User: ZURAWSIKO 16/11/2023  
Project: DCCEEW map series.aprx  
Client: 1001483 TCC - LEIP Prelim Documentation  
Projection: GDA 1994 MGA Zone 55

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Imagery: Queensland Satellite Data QSat 2017.










**CDM  
Smith**  
listen. think. deliver.

## Project Overview - Map 13 of 18

### LEGEND

- |  |  |  |
|--|--|--|
|  Road Upgrades                |  Existing Roads |  Cadastre & Lot Plan (DCDB) |
|  Water Infrastructure Network |  Watercourse    |  |



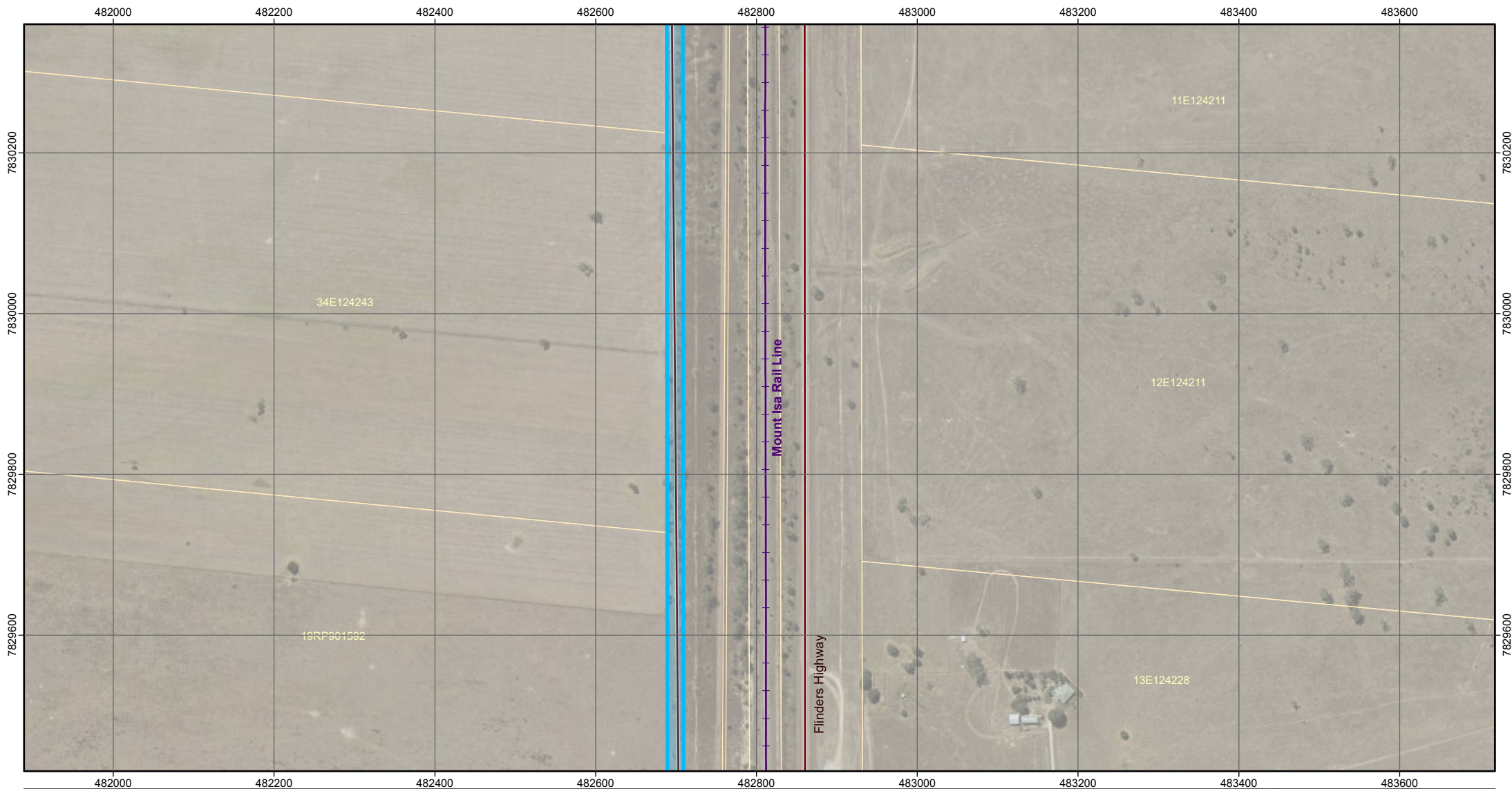
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metres

Scale (A4): 1:6,500

User: ZURAWSKI KO 16/11/2023  
Project: DCCEEW map series.aprx  
Client: 1001483 TCC - LEIP Prelim Documentation  
Projection: GDA 1994 MGA Zone 55




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Imagery: Queensland Satellite Data QSat 2017.

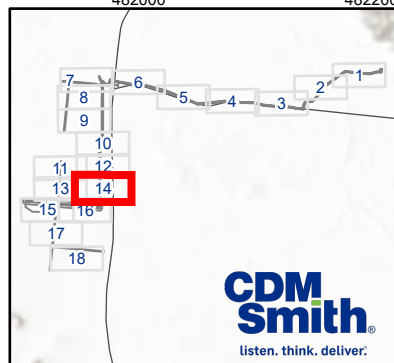




## Project Overview - Map 14 of 18

### LEGEND

- |  |  |
|--|--|
|  Water Infrastructure Network |  Existing Roads             |
|  Rail Network                 |  Cadastre & Lot Plan (DCDB) |



**CDM  
Smith**  
listen. think. deliver.



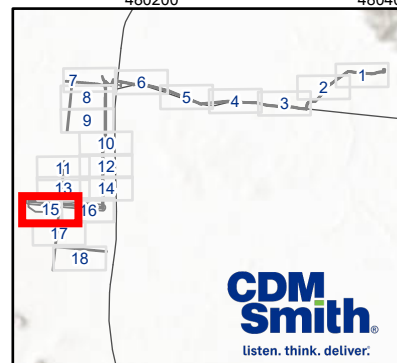
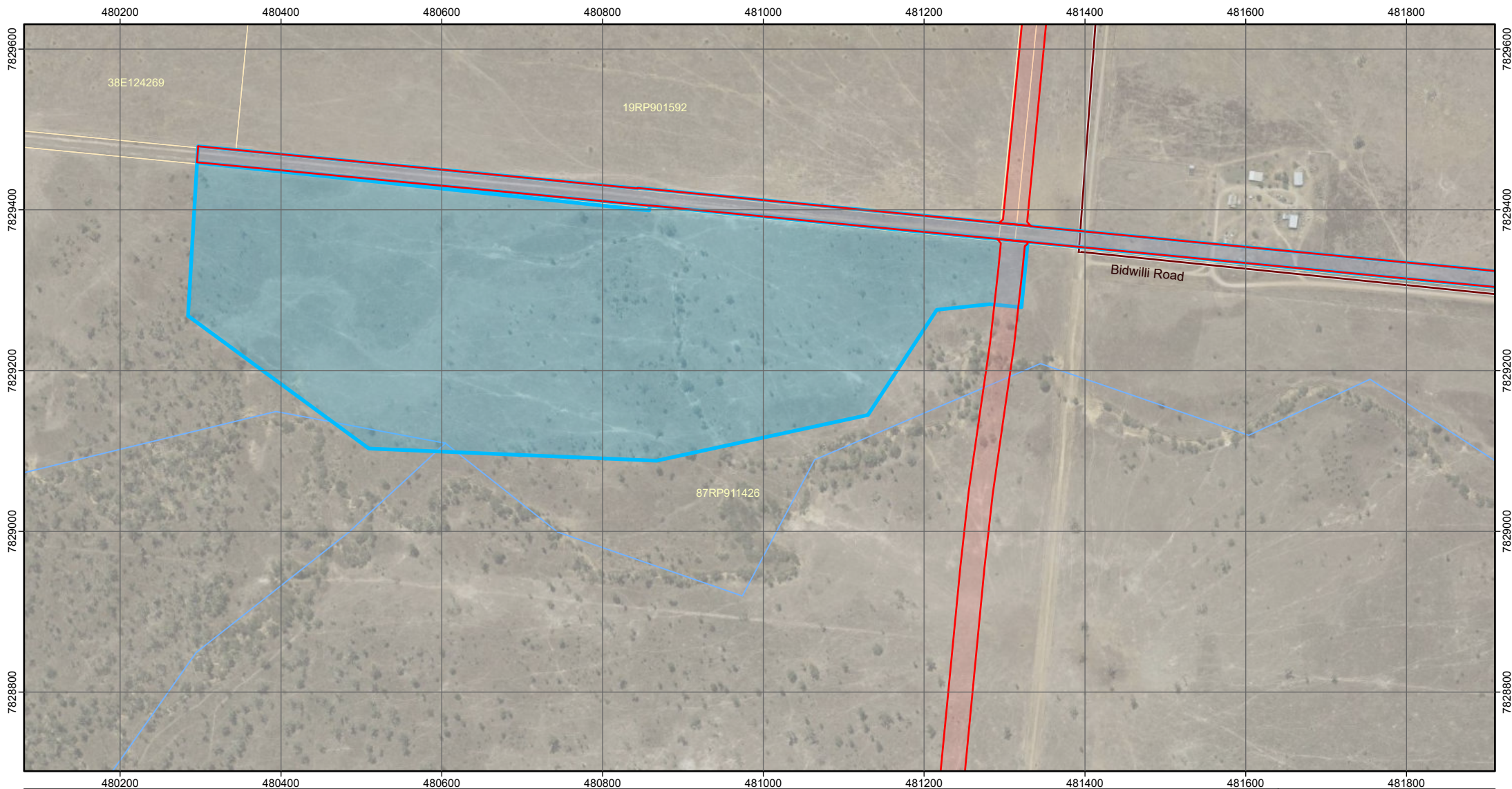
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metres

Scale (A4): 1:6,500

User: ZURAWSKIKO 16/11/2023  
Project: DCCEEW map series.aprx  
Client: 1001483 TCC - LEIP Prelim Documentation  
Projection: GDA 1994 MGA Zone 55

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Imagery: Queensland Satellite Data QSat 2017.

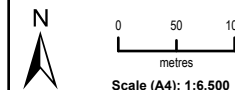




## Project Overview - Map 15 of 18

### LEGEND

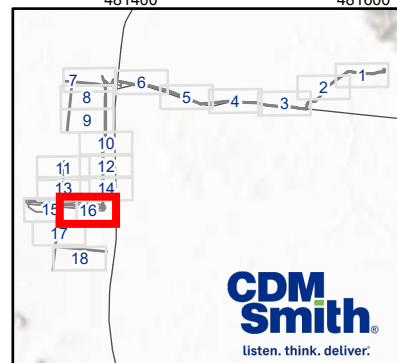
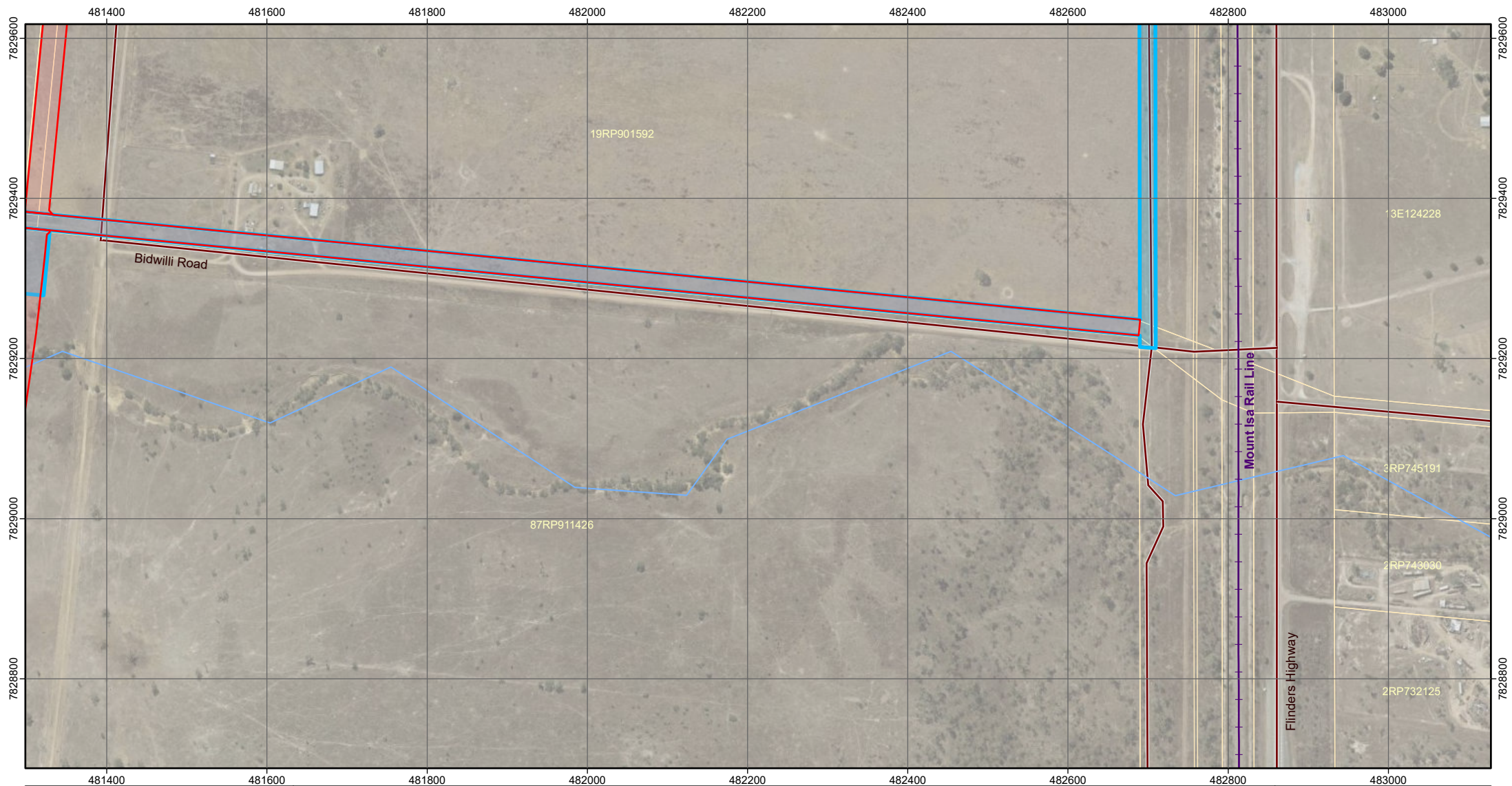
- Road Upgrades
- Water Infrastructure Network
- Existing Roads
- Cadastre & Lot Plan (DCDB)
- ~ Watercourse



User: ZURAWSKIKO 16/11/2023  
 Project: DCCEEW map series.aprx  
 Client: 1001483 TCC - LEIP Prelim Documentation  
 Projection: GDA 1994 MGA Zone 55

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 Imagery: Queensland Satellite Data QSat 2017.

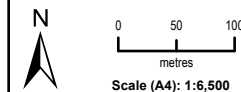




## Project Overview - Map 16 of 18

### LEGEND

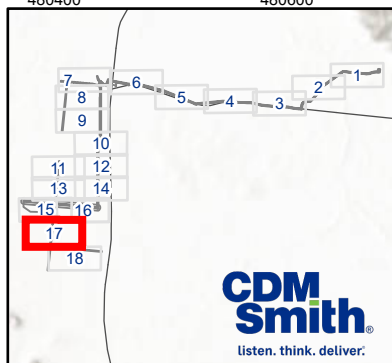
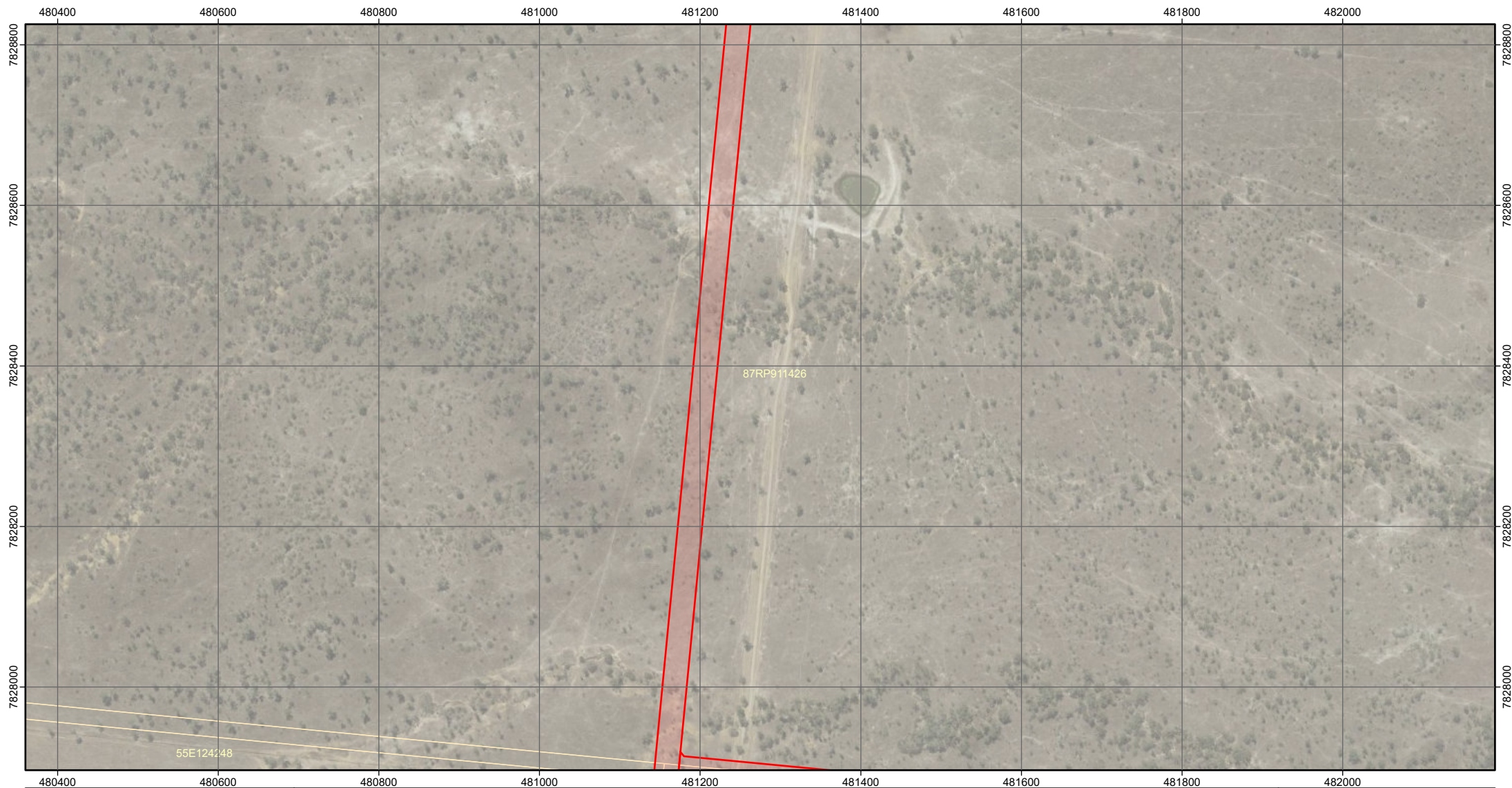
- |                              |                |                            |
|------------------------------|----------------|----------------------------|
| Road Upgrades                | Rail Network   | Watercourse                |
| Water Infrastructure Network | Existing Roads | Cadastre & Lot Plan (DCDB) |



User: ZURAWSIKO 16/11/2023  
 Project: DCCEEW map series.aprx  
 Client: 1001483 TCC - LEIP Prelim Documentation  
 Projection: GDA 1994 MGA Zone 55

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 Imagery: Queensland Satellite Data QSat 2017.

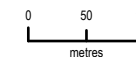




## Project Overview - Map 17 of 18

### LEGEND

- Road Upgrades     Cadastre & Lot Plan (DCDB)



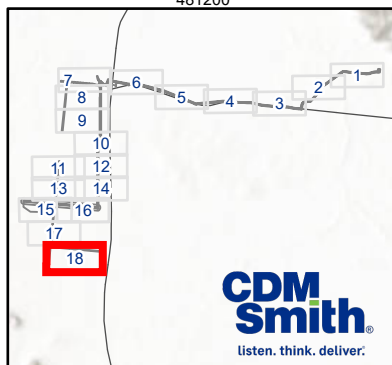
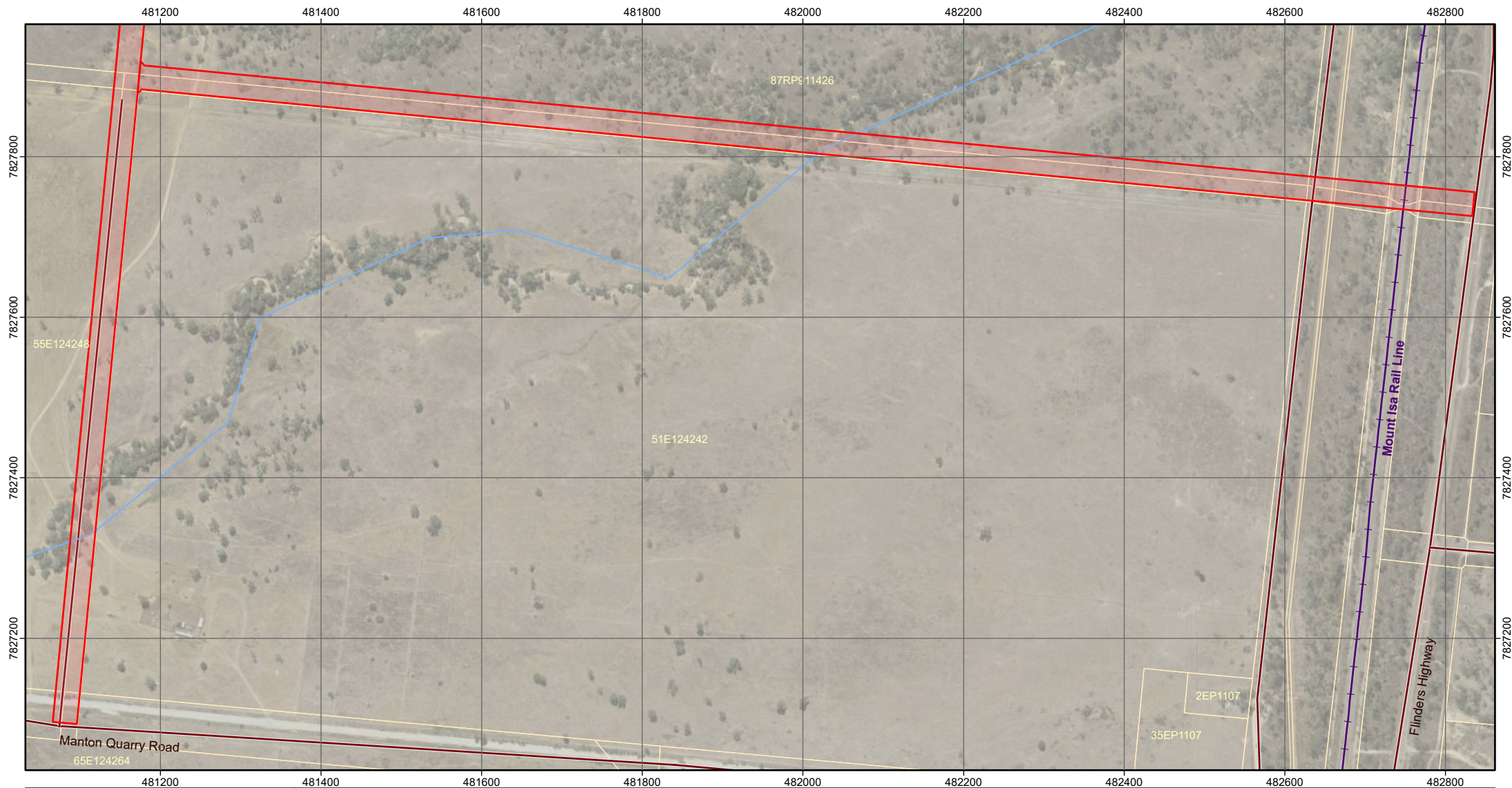
Scale (A4): 1:6,500

User: ZURAWSKIKO 16/11/2023  
Project: DCCEEW map series.aprx  
Client: 1001483 TCC - LEIP Prelim Documentation

Projection: GDA 1994 MGA Zone 55

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Imagery: Queensland Satellite Data QSat 2017.

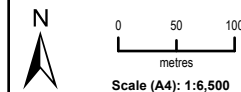




## Project Overview - Map 18 of 18

### LEGEND

- |               |                |                            |
|---------------|----------------|----------------------------|
| Road Upgrades | Existing Roads | Cadastre & Lot Plan (DCDB) |
| Rail Network  | Watercourse    |                            |



User: ZURAWSKIKO 16/11/2023  
 Project: DCCEEW map series.aprx  
 Client: 1001483 TCC - LEIP Prelim Documentation  
 Projection: GDA 1994 MGA Zone 55

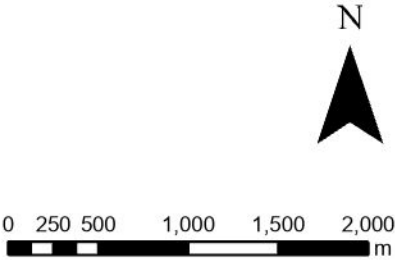
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 Imagery: Queensland Satellite Data QSat 2017.



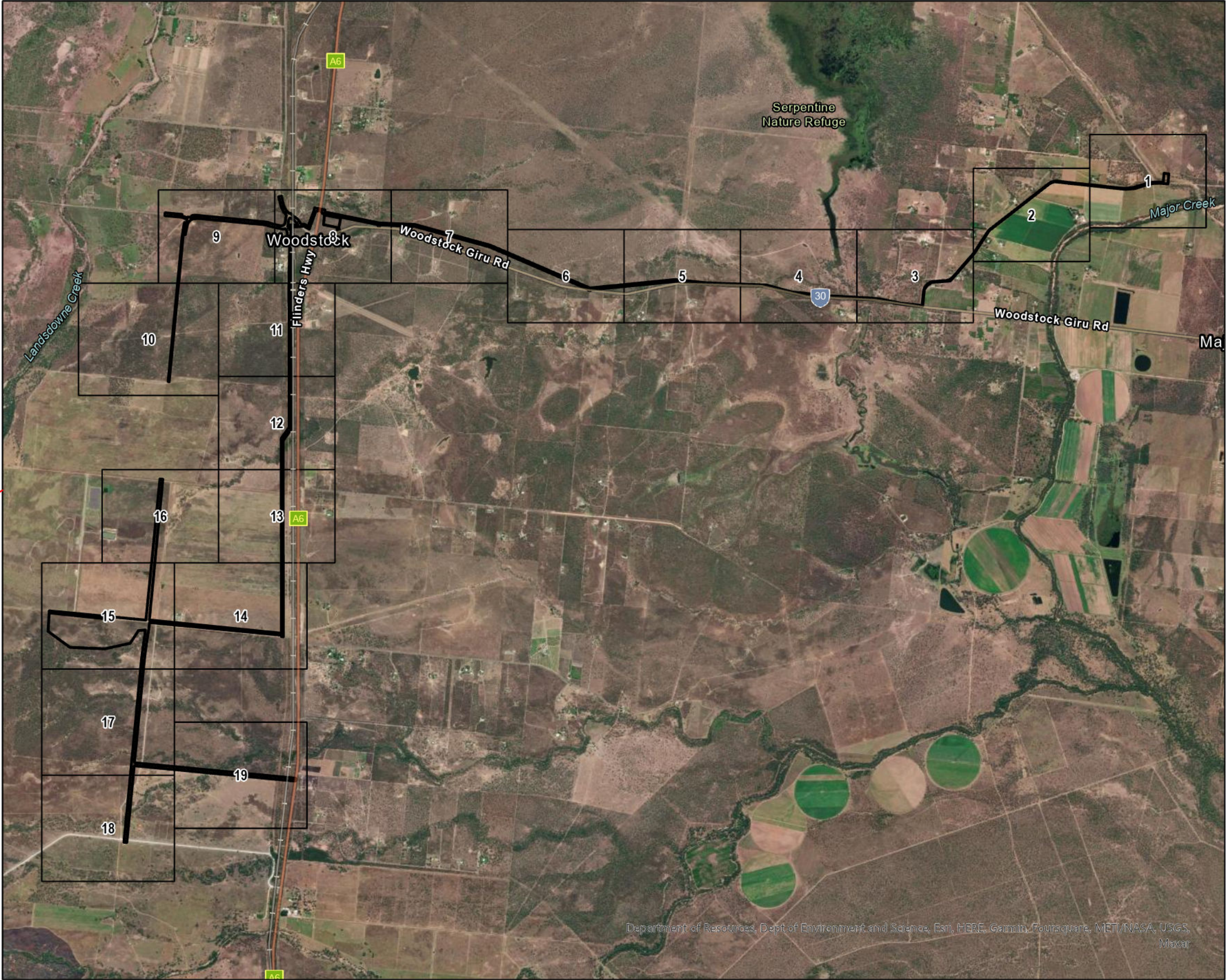
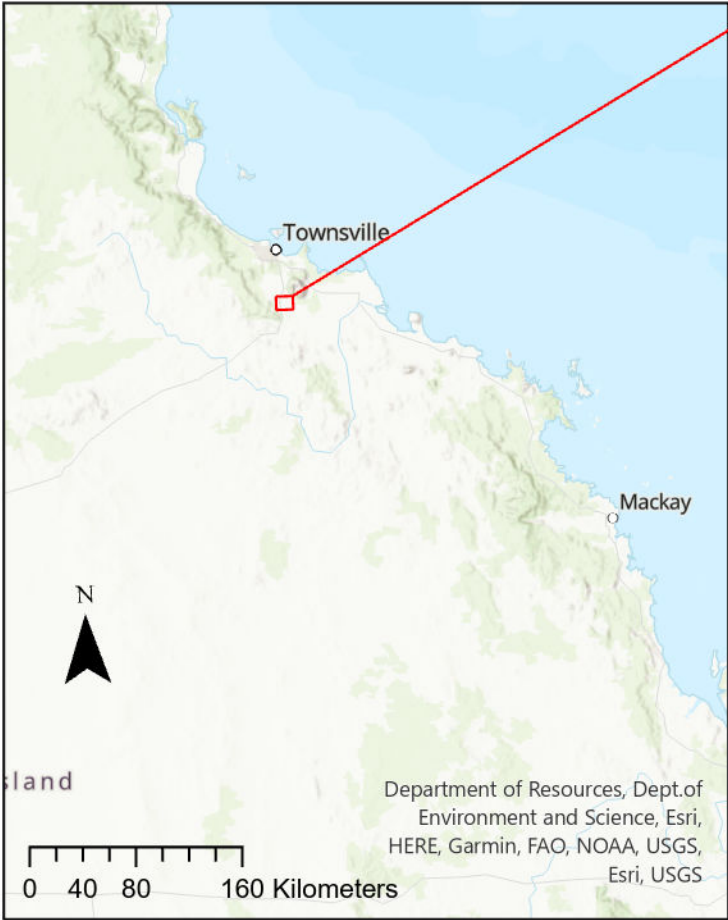
Plan 1. Index

Legend

- Reference Grid (labelled with page number)
- Project Area



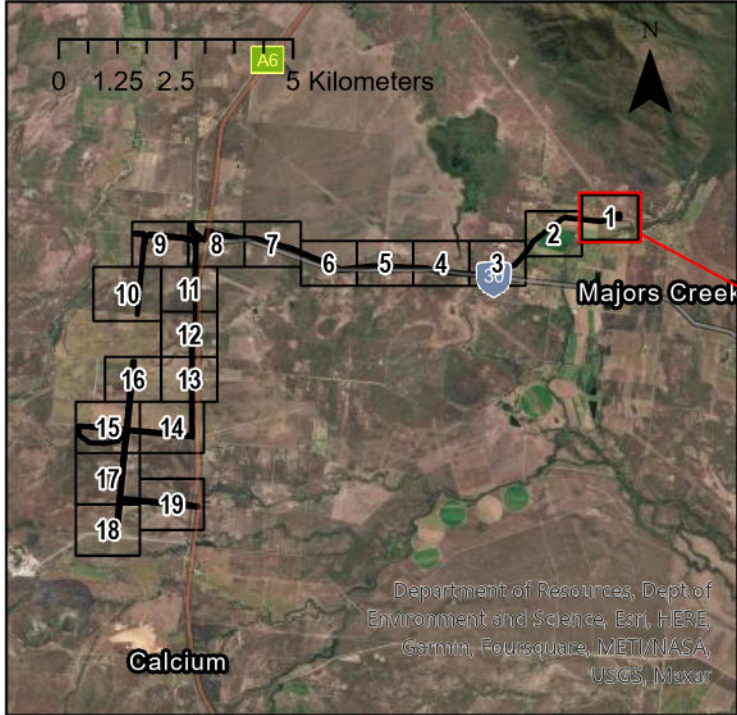
Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator



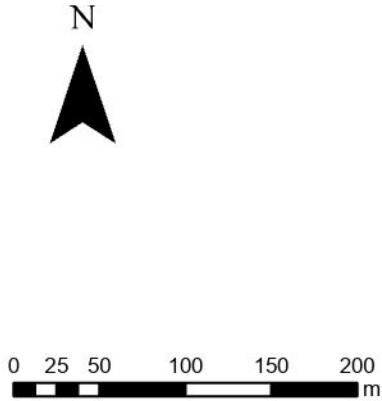
| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site





- Legend**
- Project Area
  - Reference Grid (labelled with page number)
  - Black-throated Finch habitat mapping (Evolve)



Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator

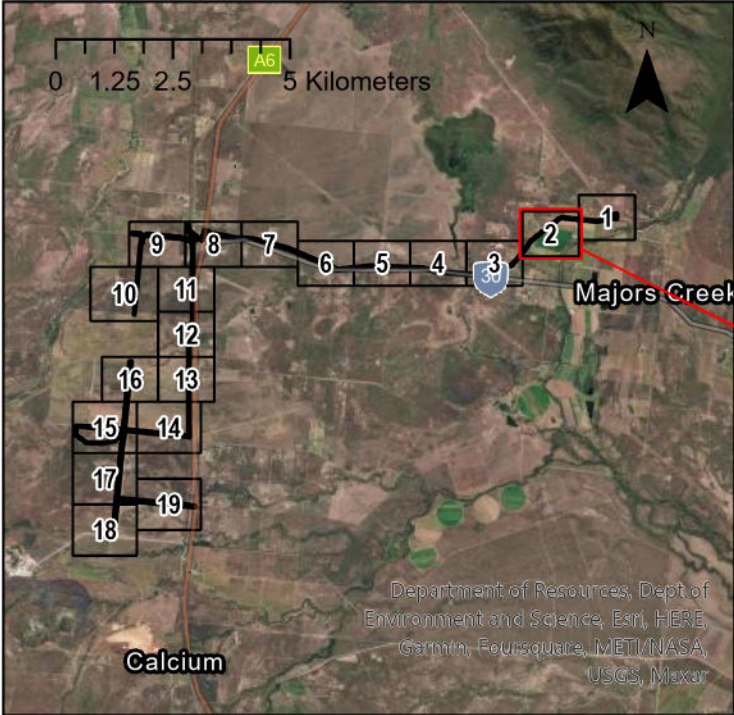


| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

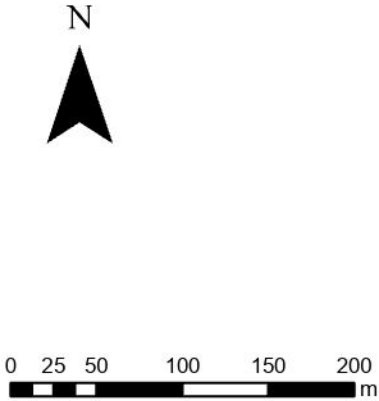
Landsdown Eco Industrial Precinct - Proposed Impact Site

Date: 16/11/2023  
Impact Site Assessment

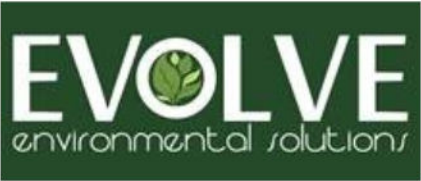




- Legend**
- Project Area
  - Reference Grid (labelled with page number)
  - Black-throated Finch habitat mapping (Evolve)



Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator

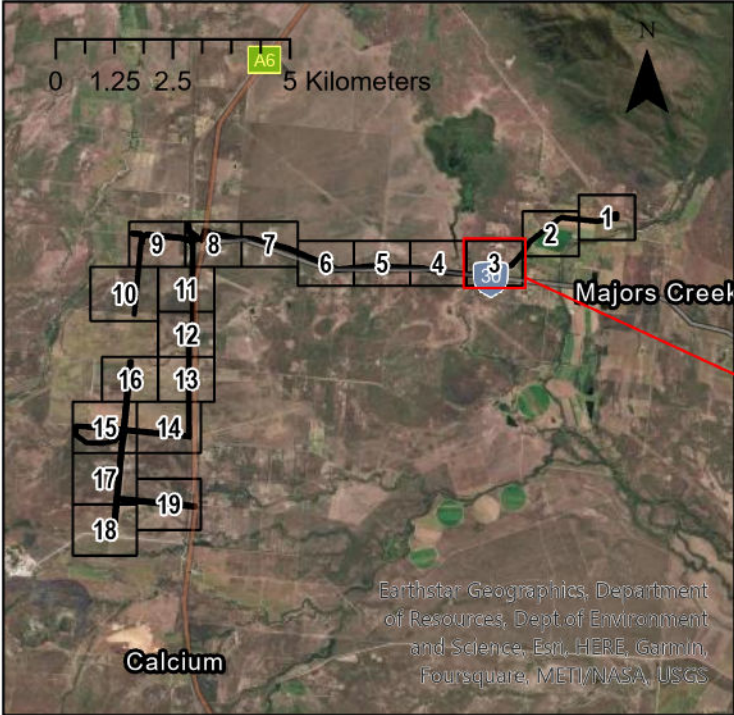



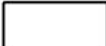

| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

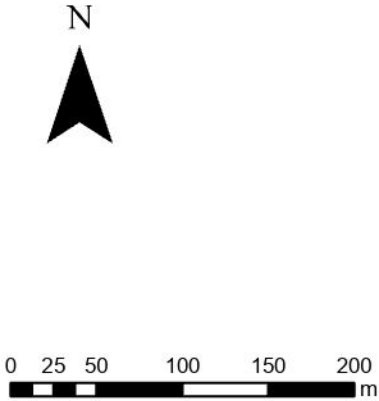
Landsdown Eco Industrial Precinct - Proposed Impact Site

Date: 16/11/2023  
Impact Site Assessment

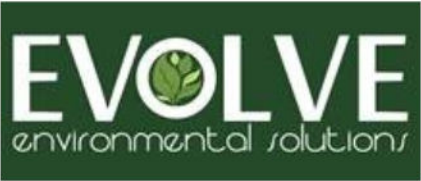




- Legend**
-  Project Area
  -  Reference Grid (labelled with page number)
  -  Black-throated Finch habitat mapping (Evolve)



Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator

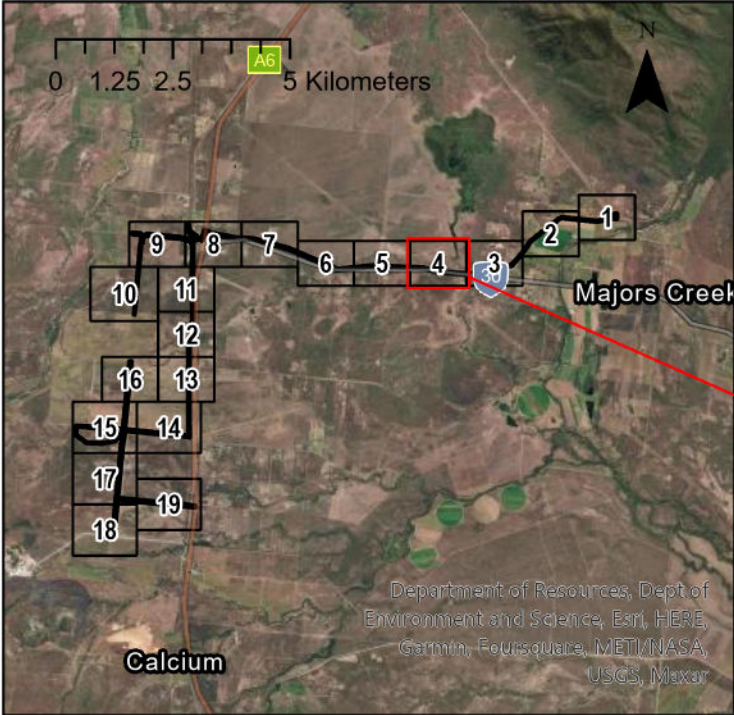



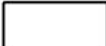

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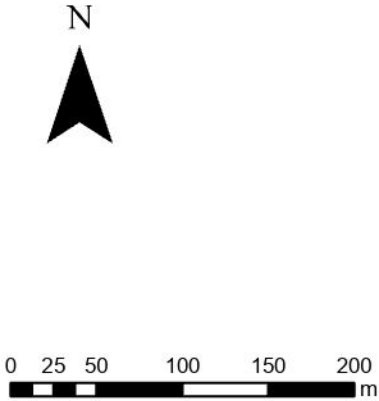
Landsdown Eco Industrial Precinct - Proposed Impact Site

Date: 16/11/2023  
Impact Site Assessment

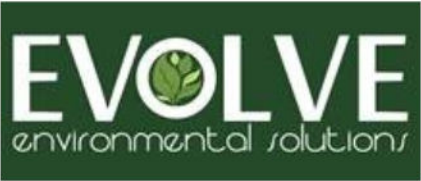




- Legend**
-  Project Area
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  -  Black-throated Finch habitat mapping (Evolve)



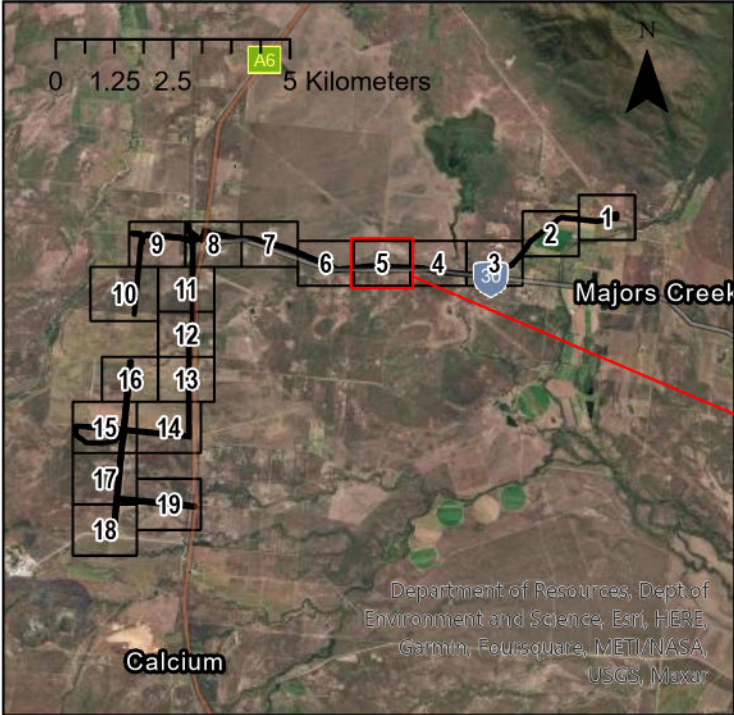
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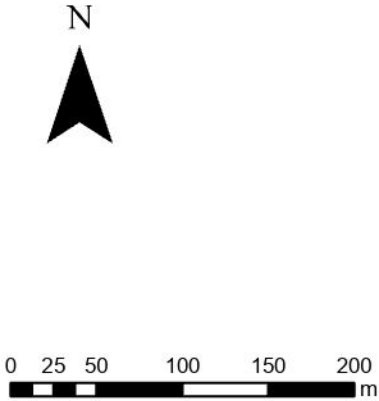
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Landsdown Eco Industrial Precinct - Proposed Impact Site

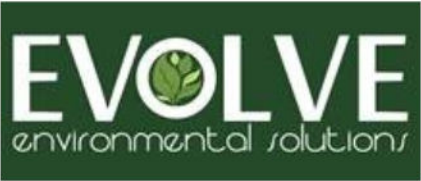




- Legend**
- Project Area
  - Reference Grid (labelled with page number)
  - Black-throated Finch habitat mapping (Evolve)



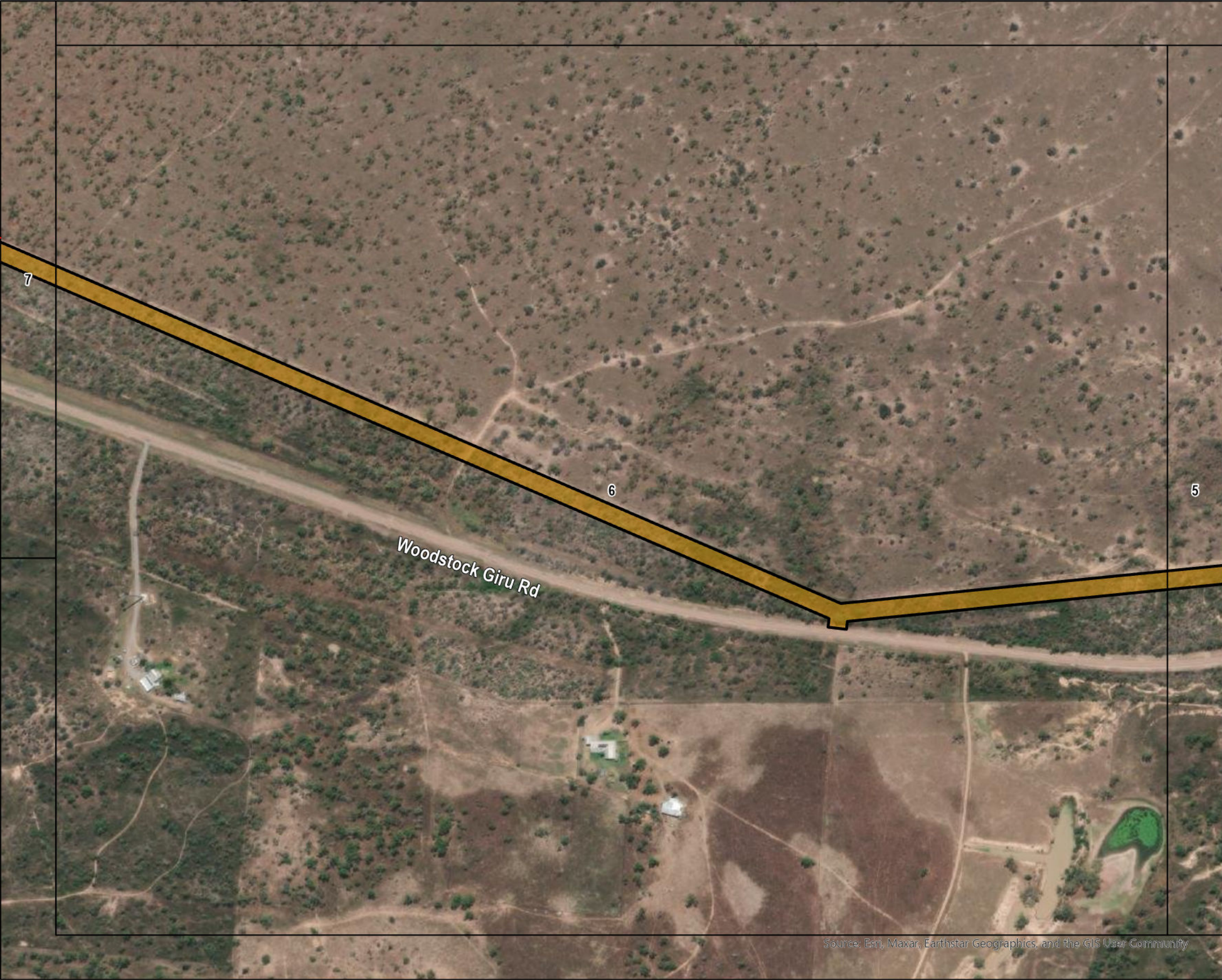
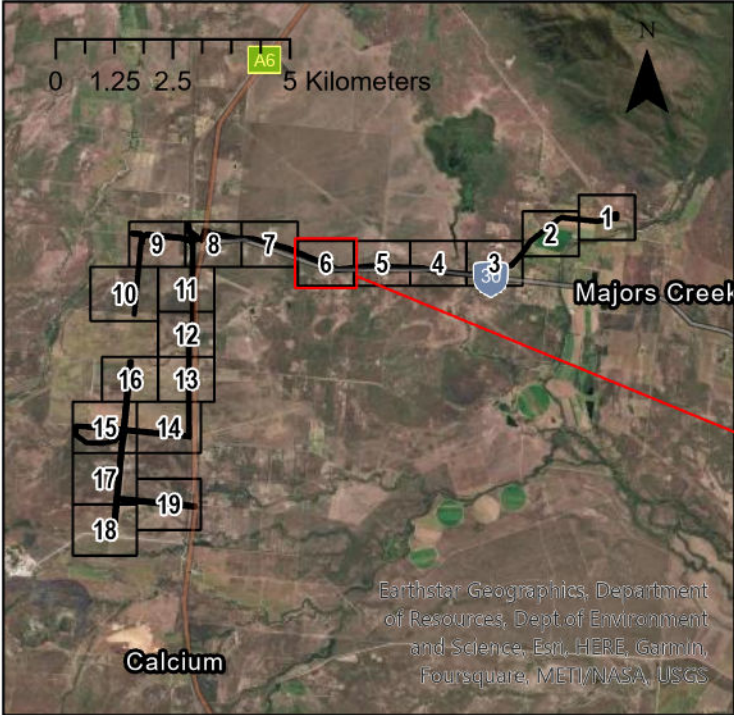
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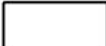



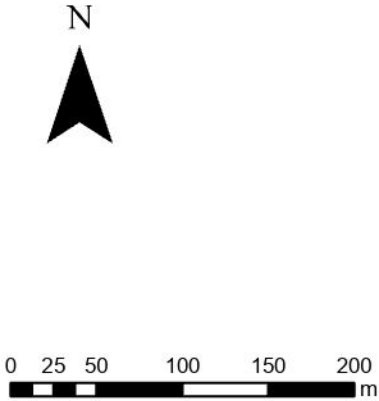
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| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site

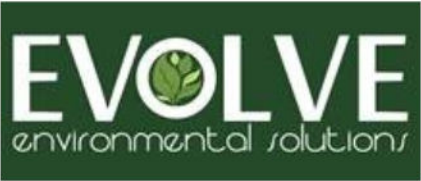




- Legend**
-  Project Area
  -  Reference Grid (labelled with page number)
  -  Black-throated Finch habitat mapping (Evolve)



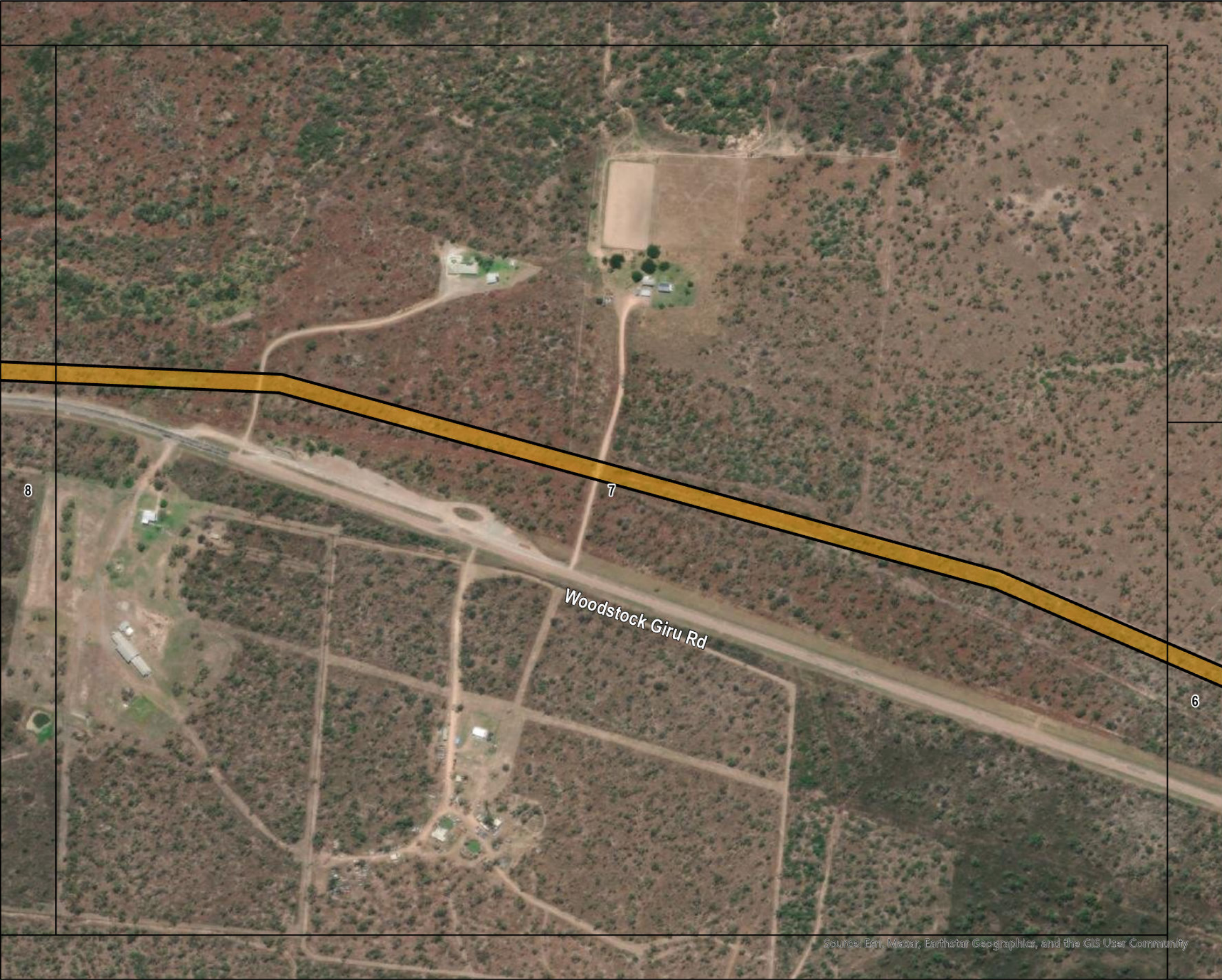
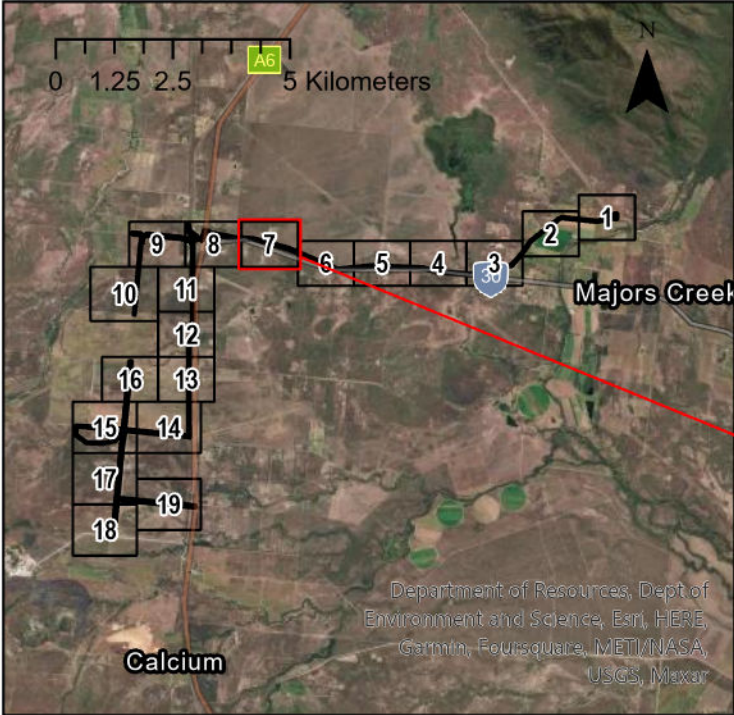
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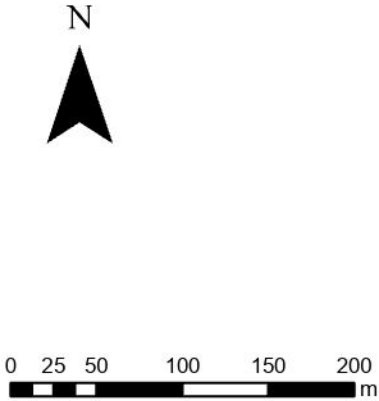
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| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site

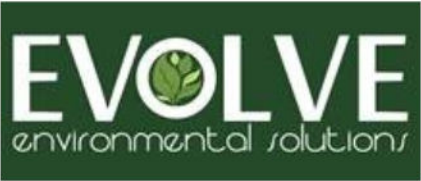




- Legend
- Project Area
  - Reference Grid (labelled with page number)
  - Black-throated Finch habitat mapping (Evolve)



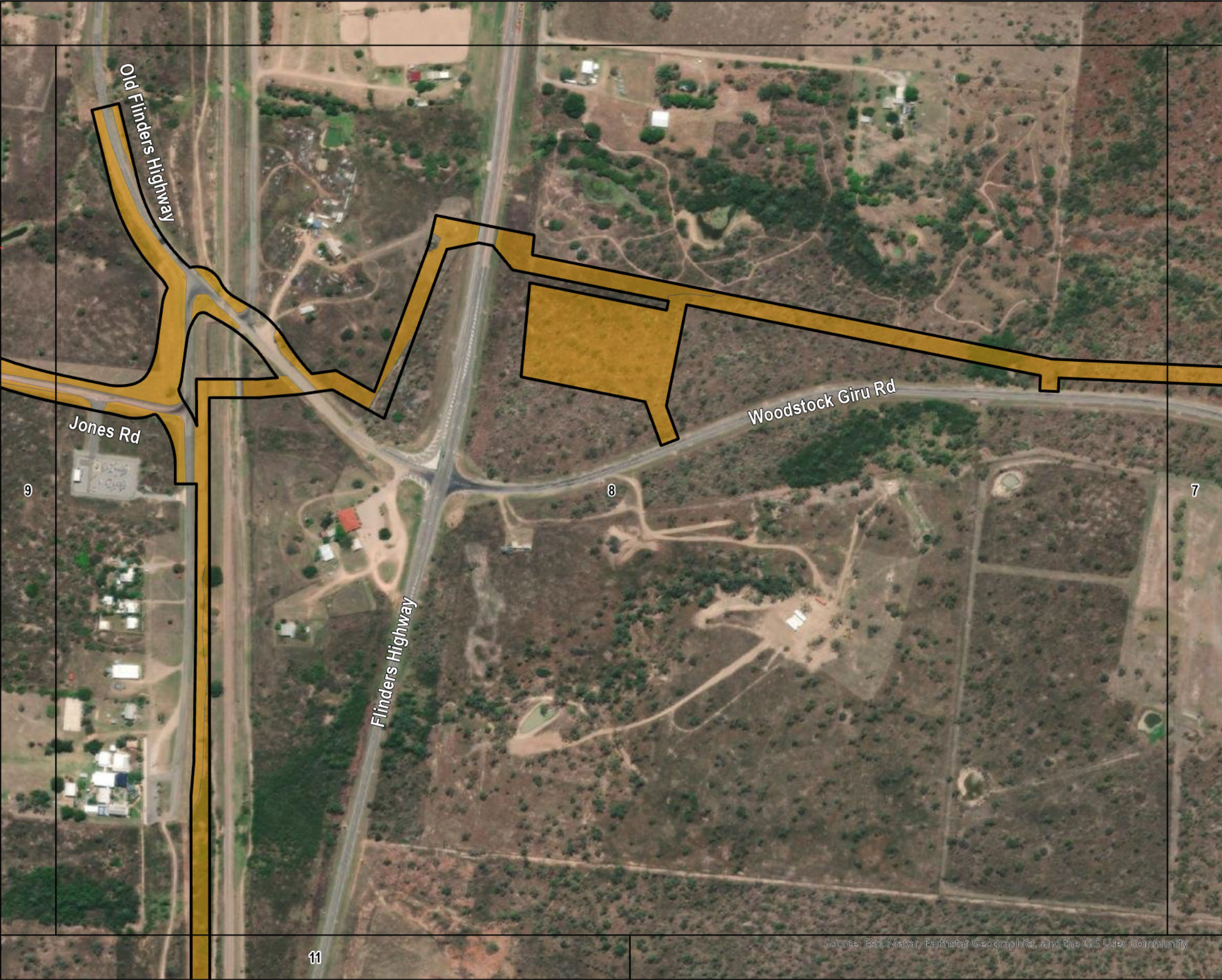
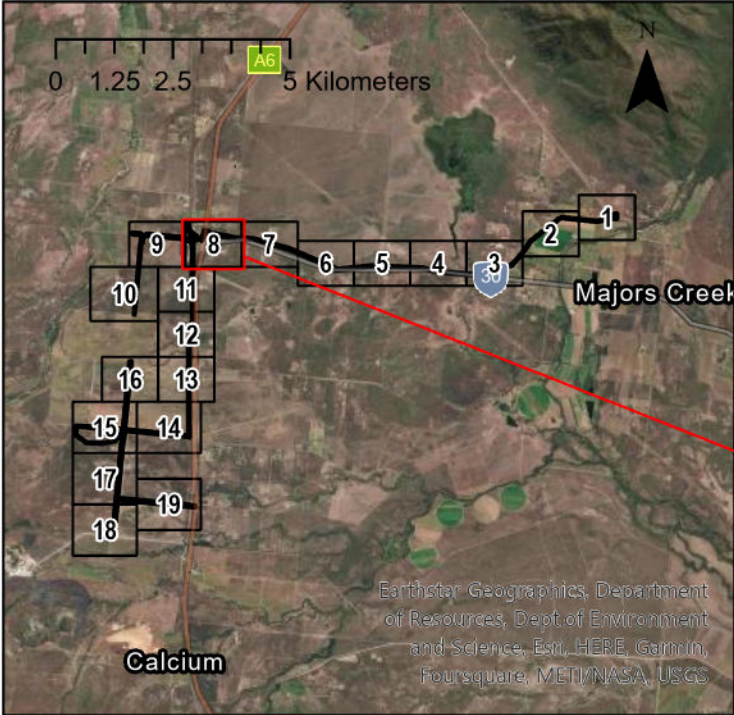
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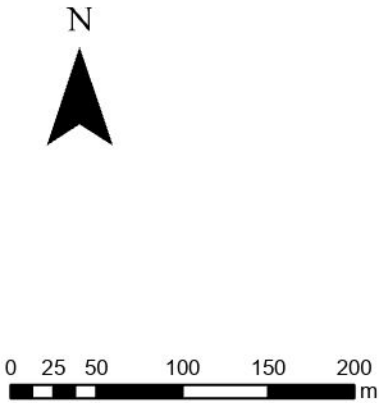
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| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site





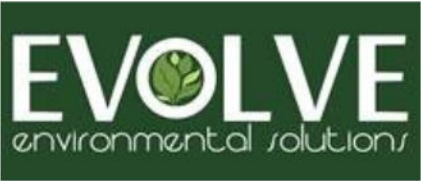
- Legend**
- Project Area
  - Reference Grid (labelled with page number)
  - Black-throated Finch habitat mapping (Evolve)



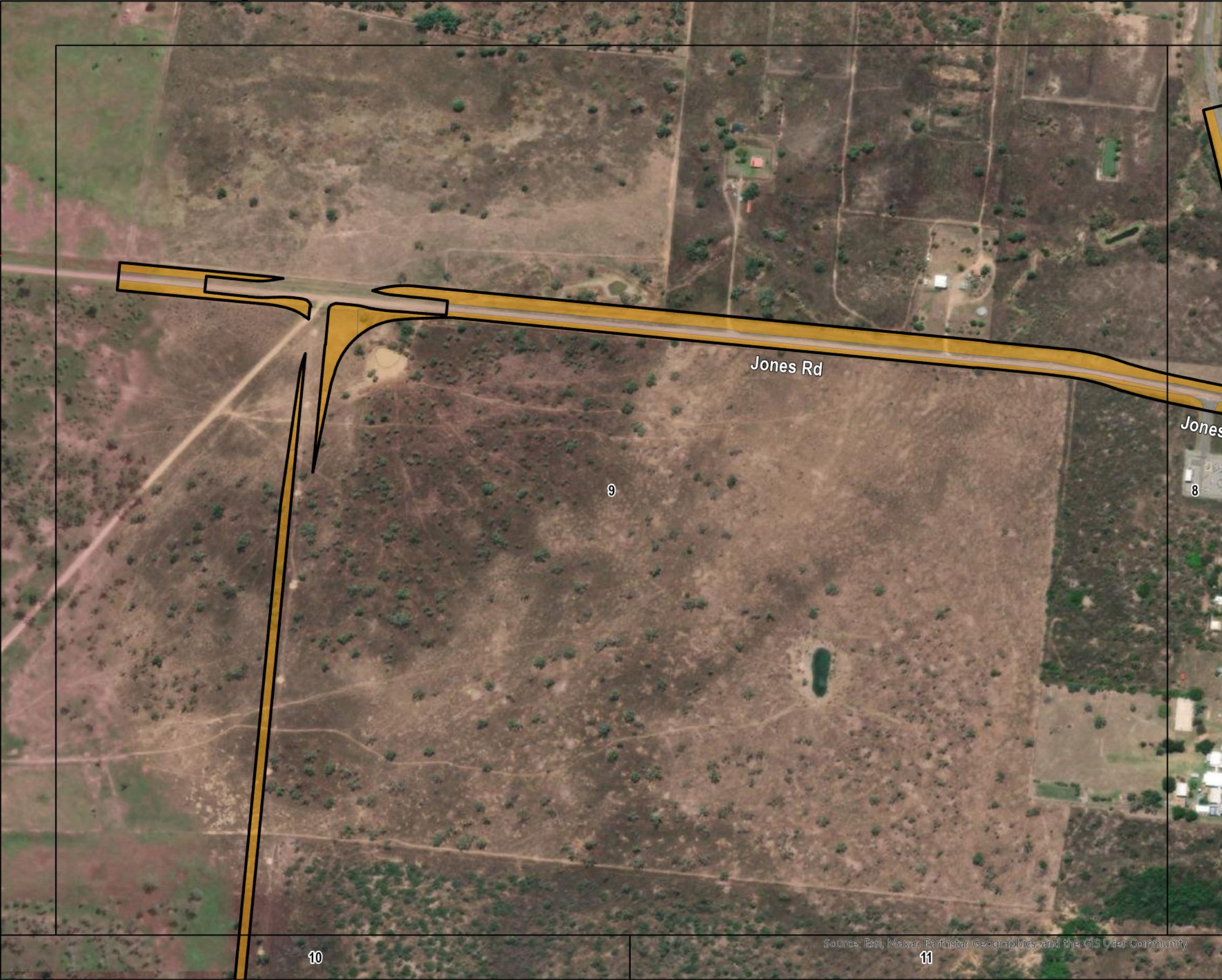
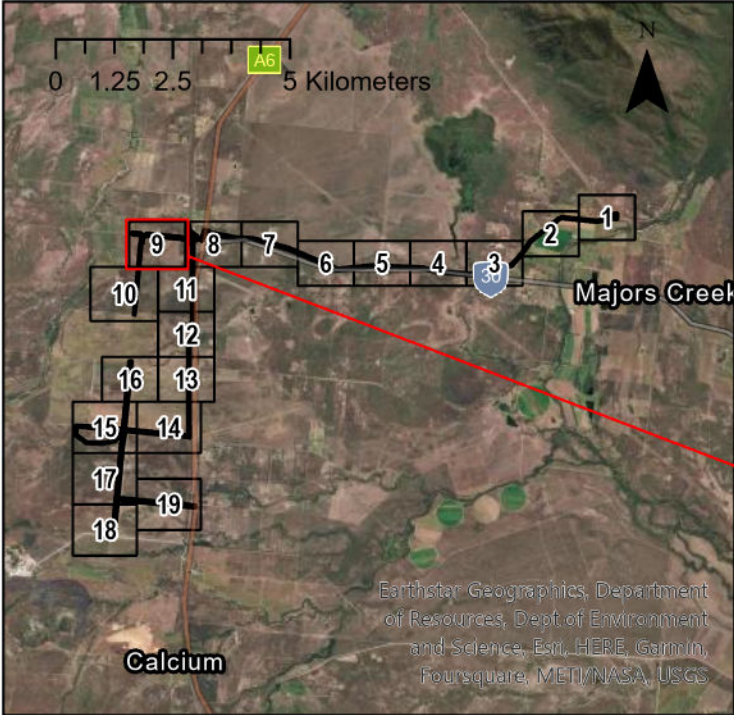
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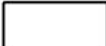

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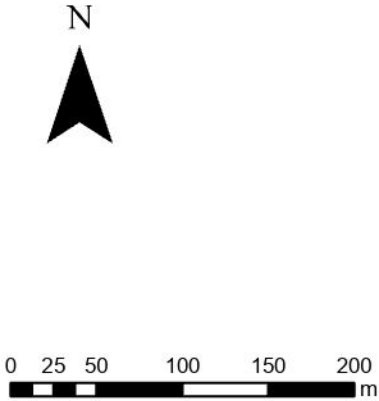
Landsdown Eco Industrial Precinct - Proposed Impact Site







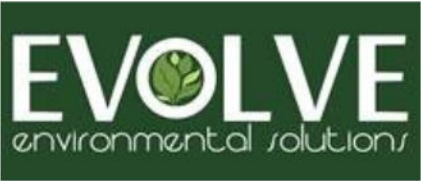
- Legend**
-  Project Area
  -  Reference Grid (labelled with page number)
  -  Black-throated Finch habitat mapping (Evolve)



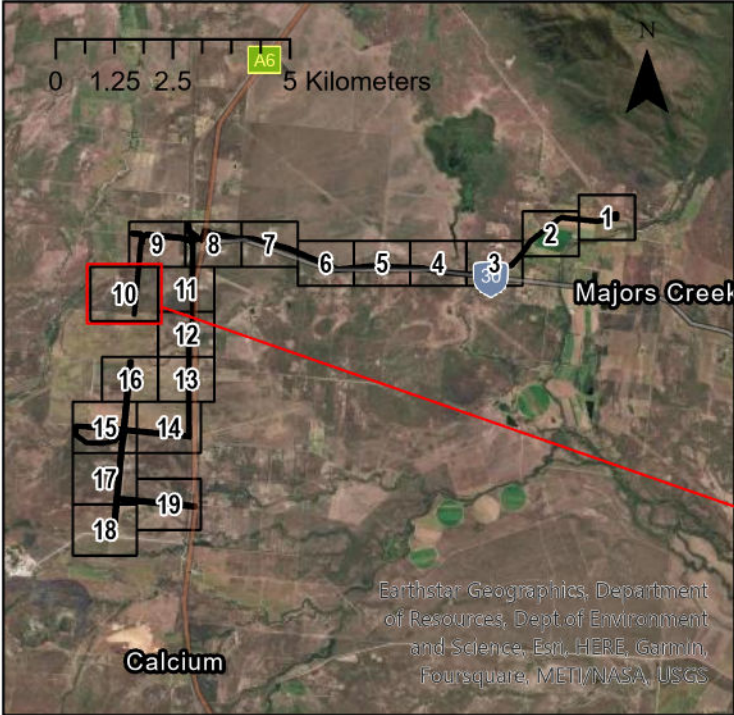
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| Issue | Date       | Description | Drawn | Checked |
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| B     | 16/11/2023 | Preliminary | RH    | AH      |

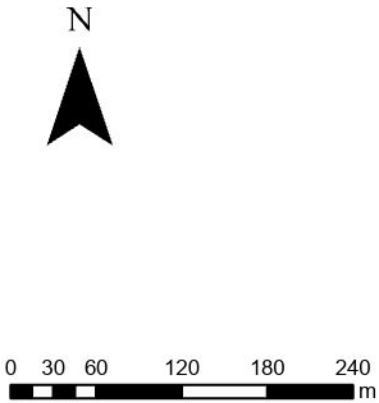
Landsdown Eco Industrial Precinct - Proposed Impact Site







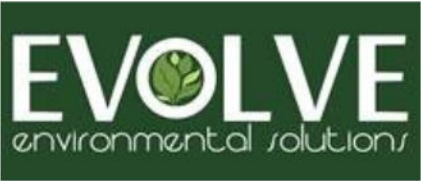
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- Project Area
  - Reference Grid (labelled with page number)
  - Black-throated Finch habitat mapping (Evolve)



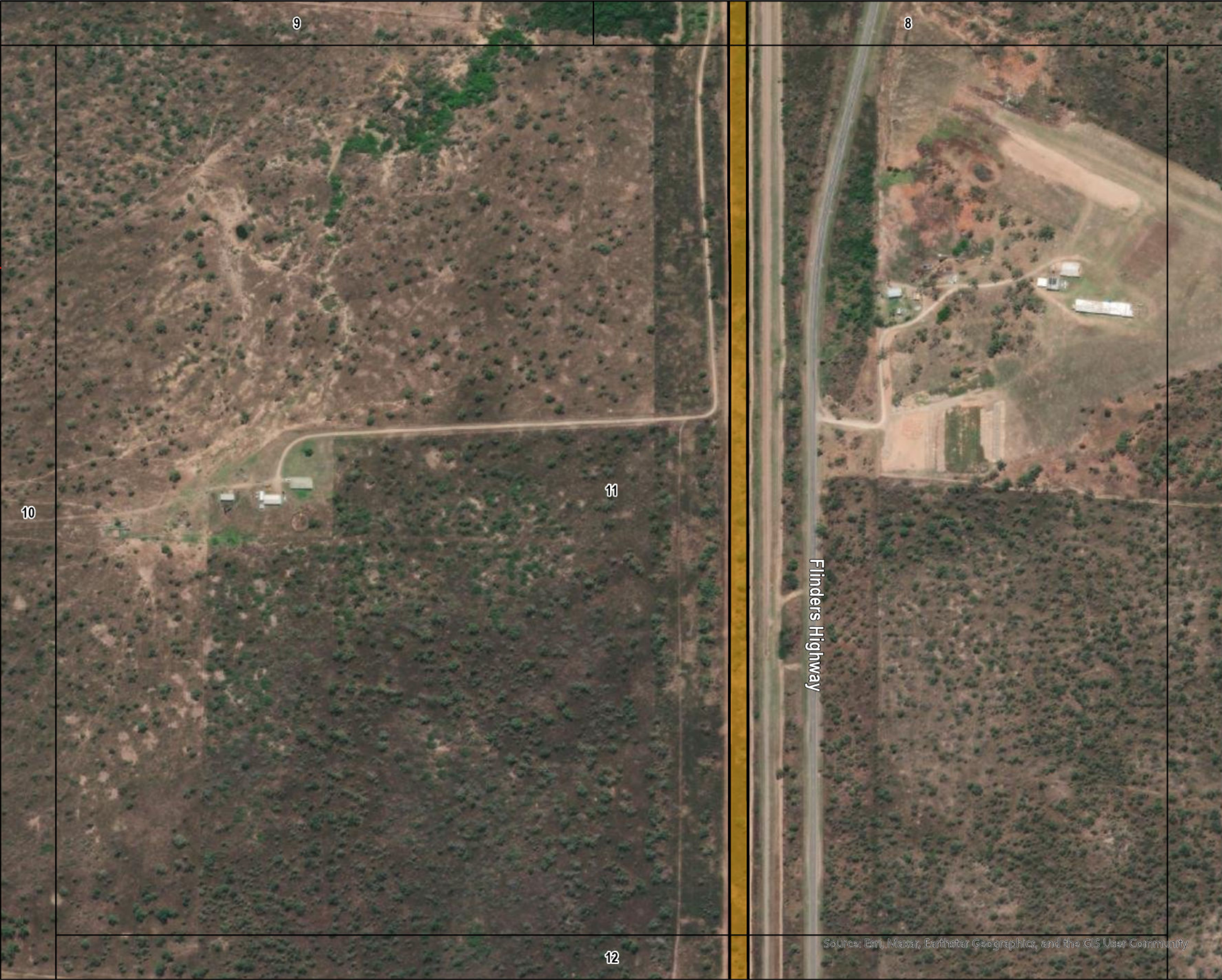
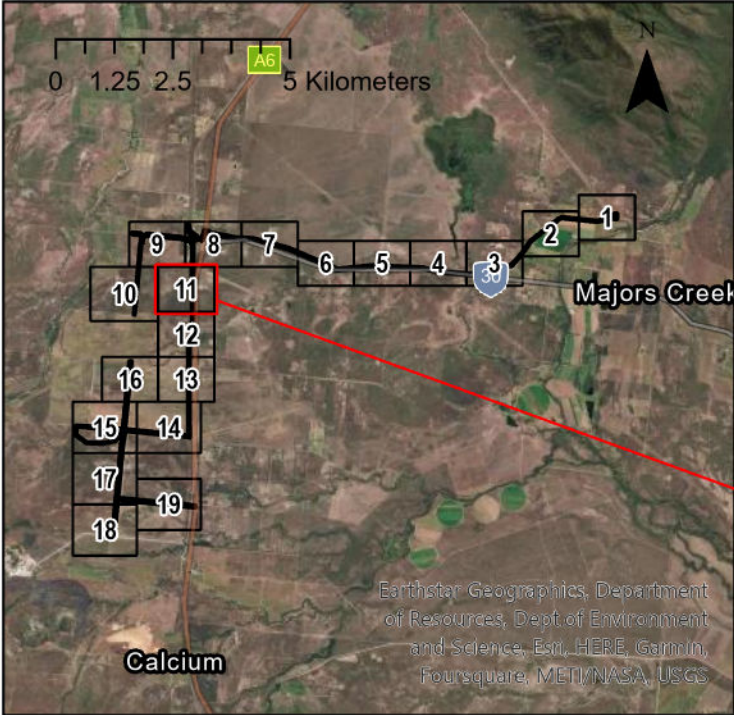
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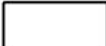

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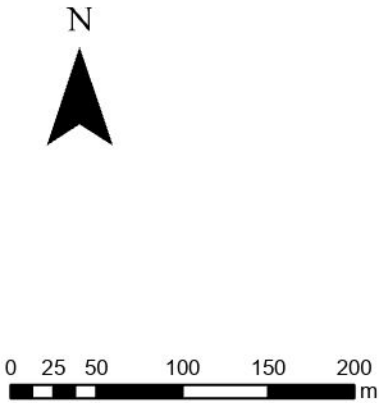
Landsdown Eco Industrial Precinct - Proposed Impact Site







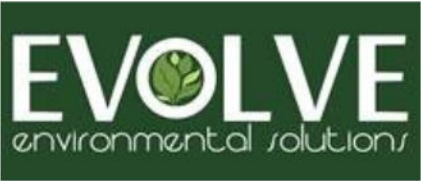
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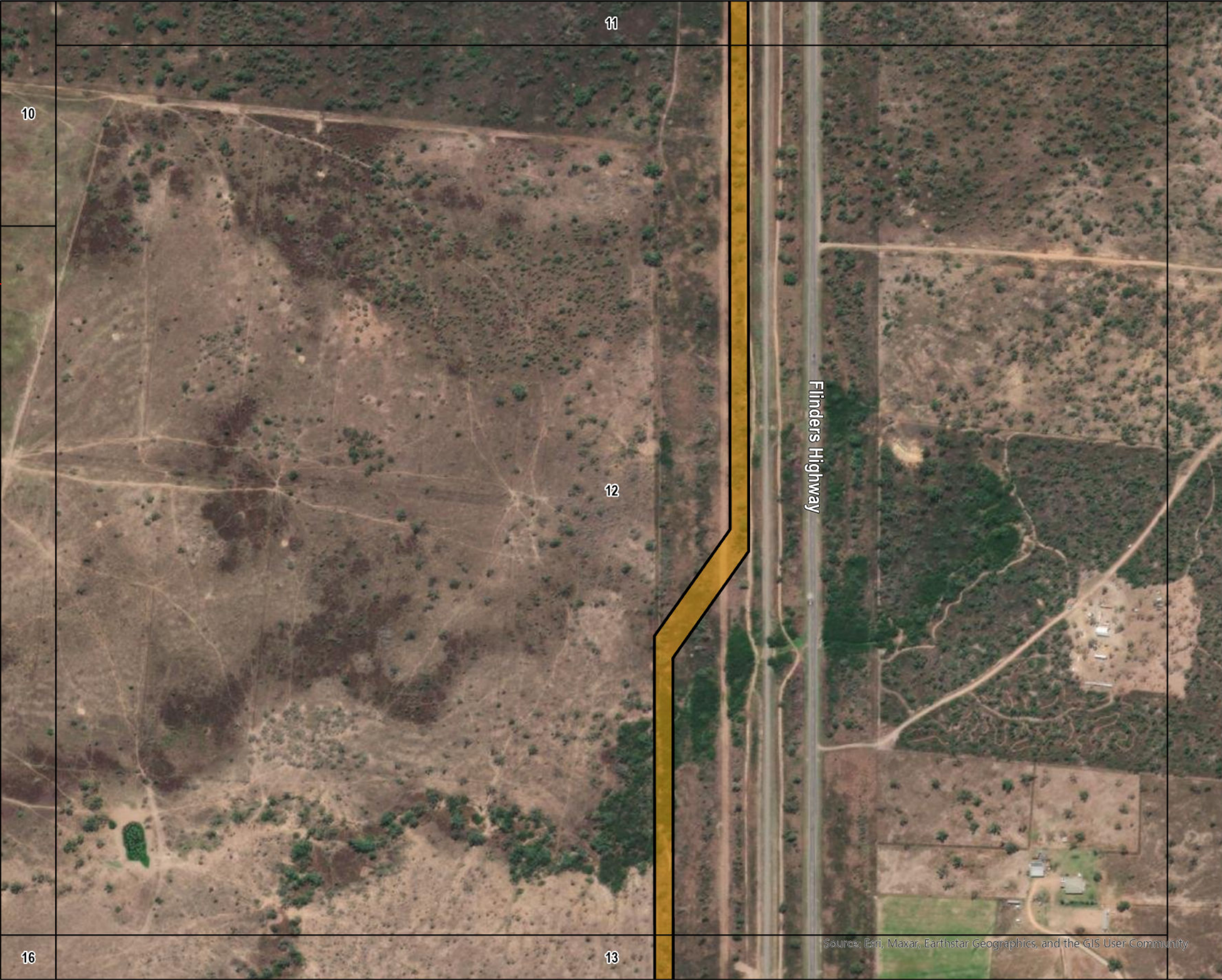
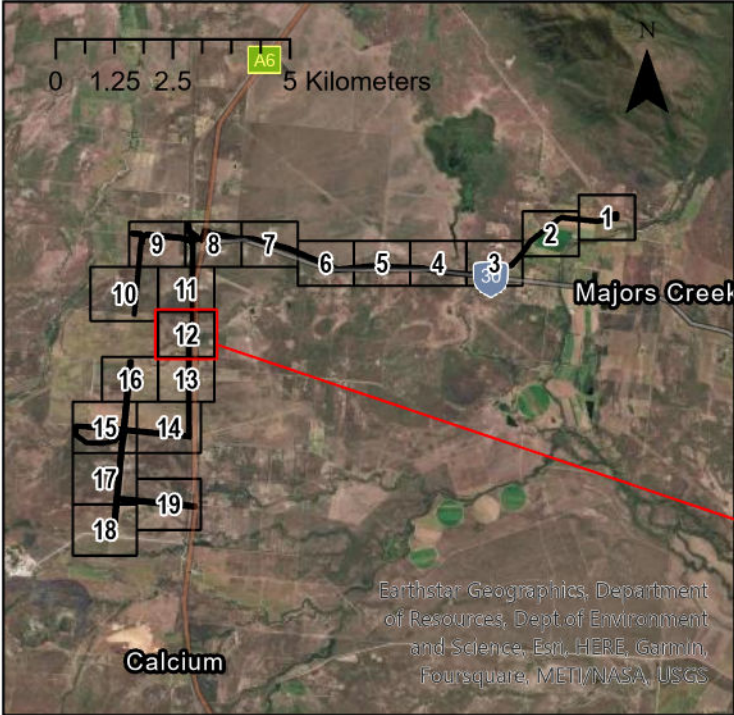
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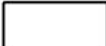

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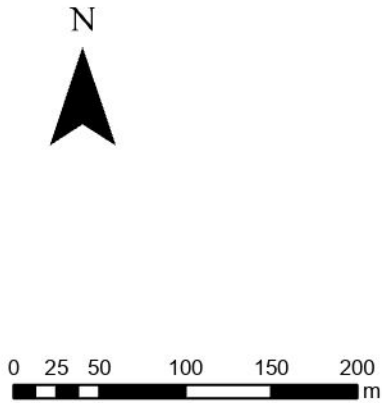
Landsdown Eco Industrial Precinct - Proposed Impact Site







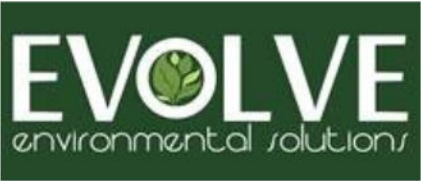
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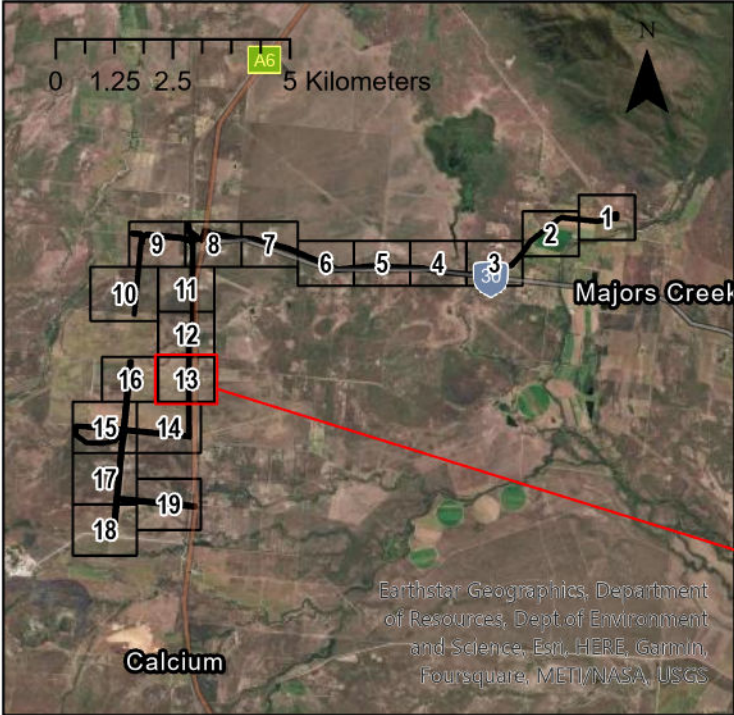
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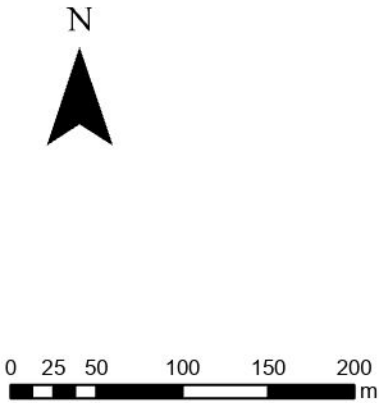
Landsdown Eco Industrial Precinct - Proposed Impact Site







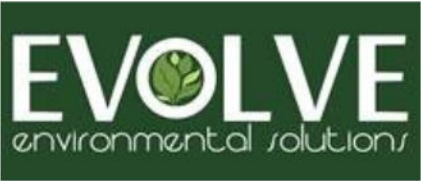
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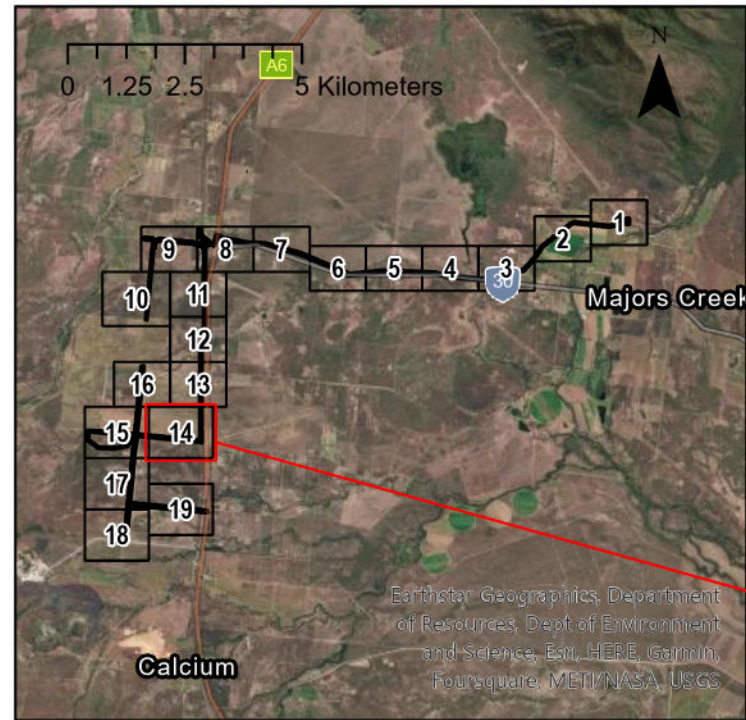
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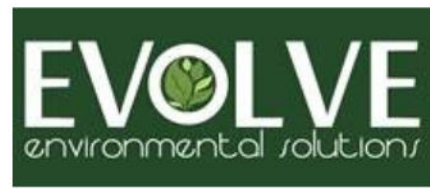
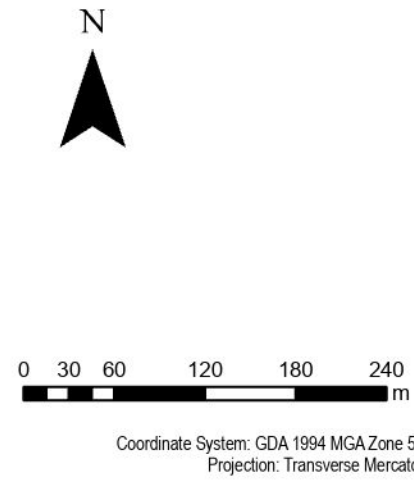
Landsdown Eco Industrial Precinct - Proposed Impact Site







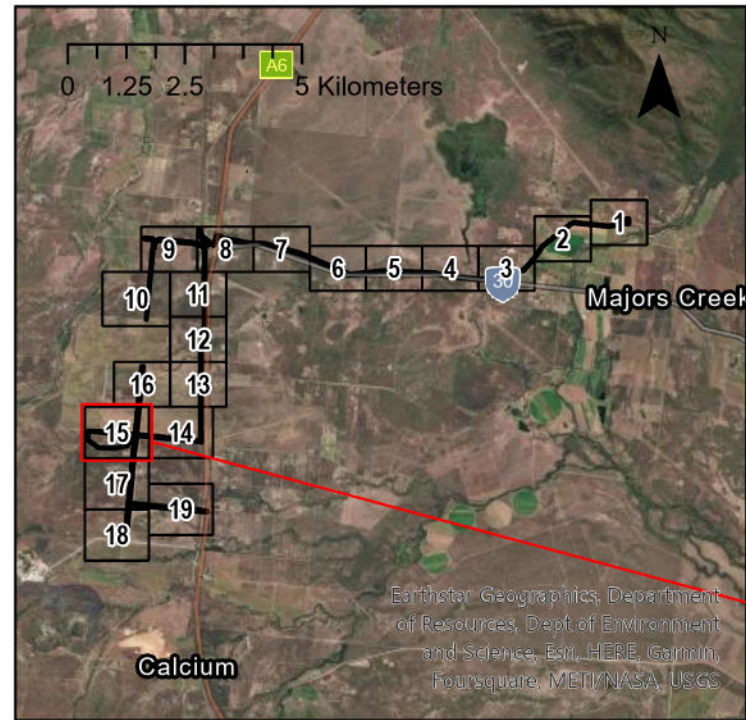
- Legend**
- Project Area
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  - Black-throated Finch habitat mapping (Evolve)



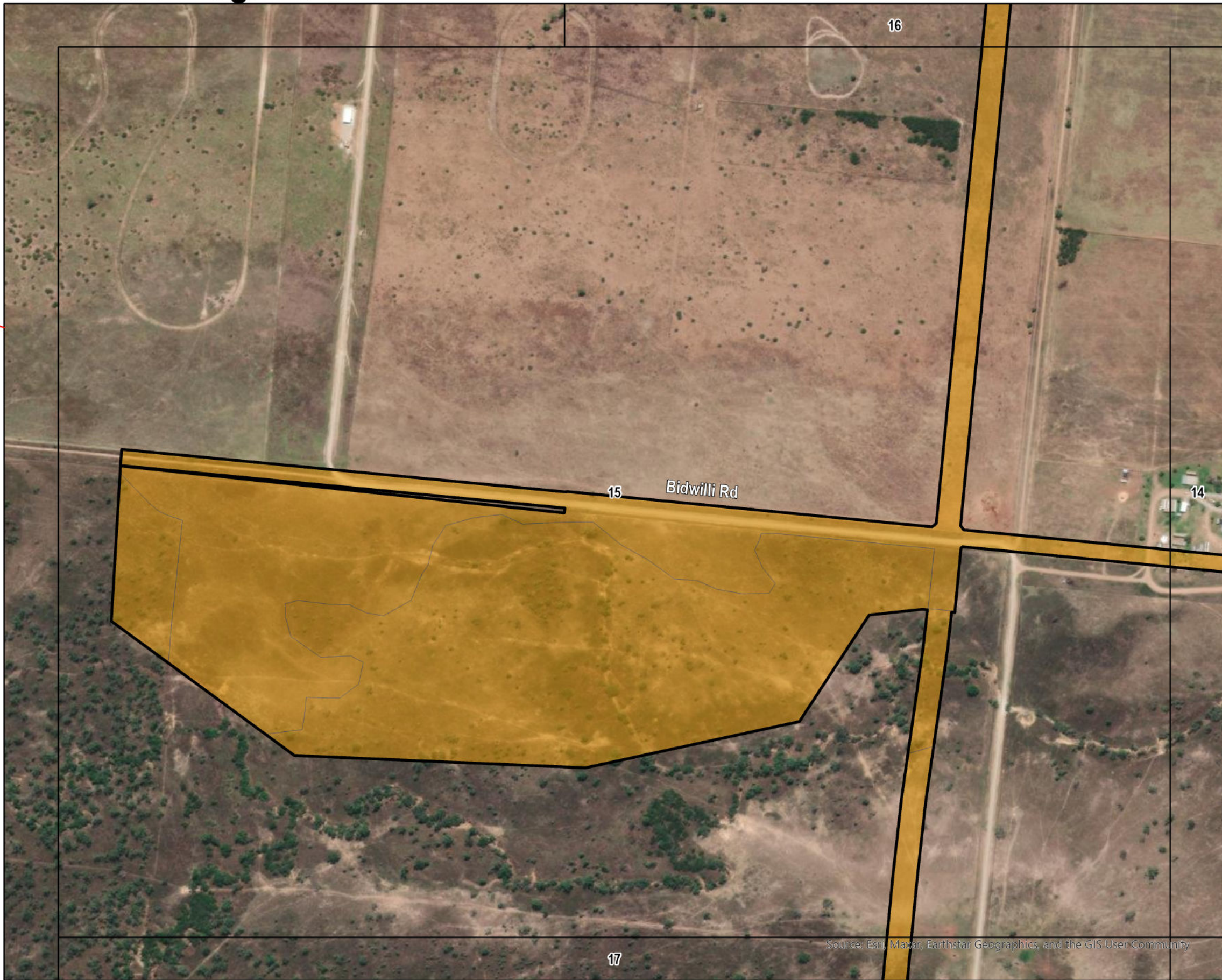
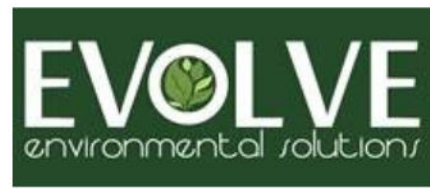
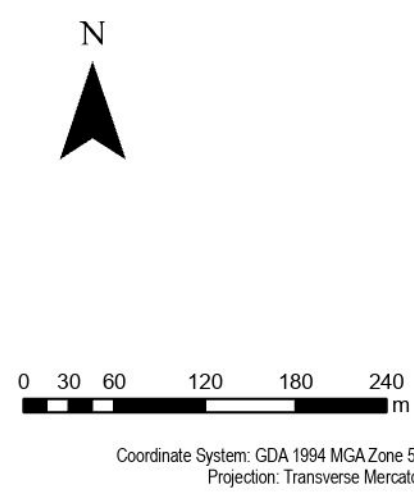
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Landsdown Eco Industrial Precinct - Proposed Impact Site





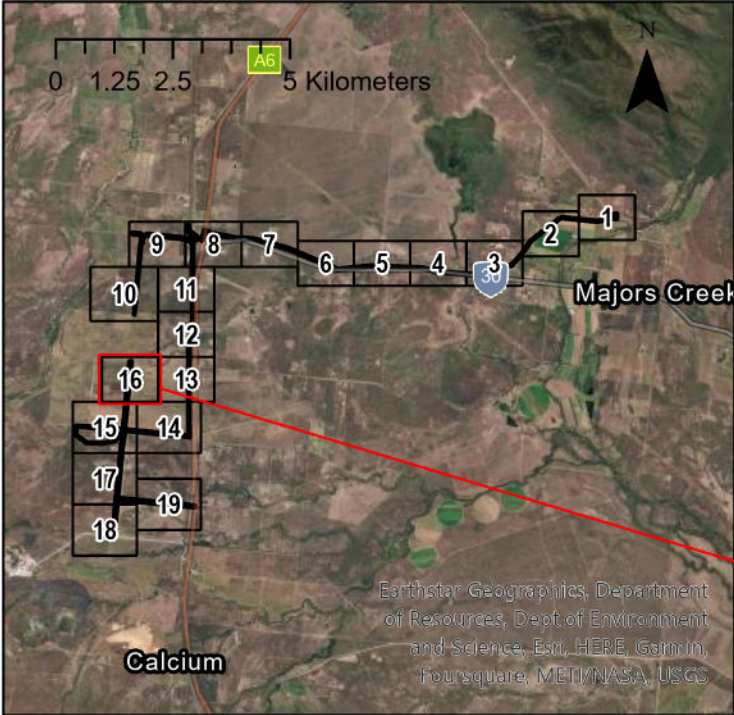
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- Project Area
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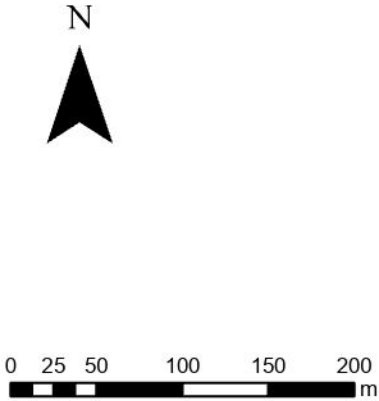
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Landsdown Eco Industrial Precinct - Proposed Impact Site





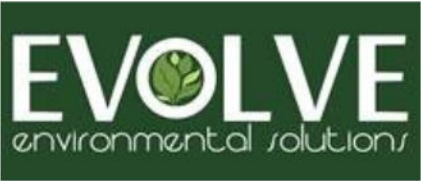
- Legend**
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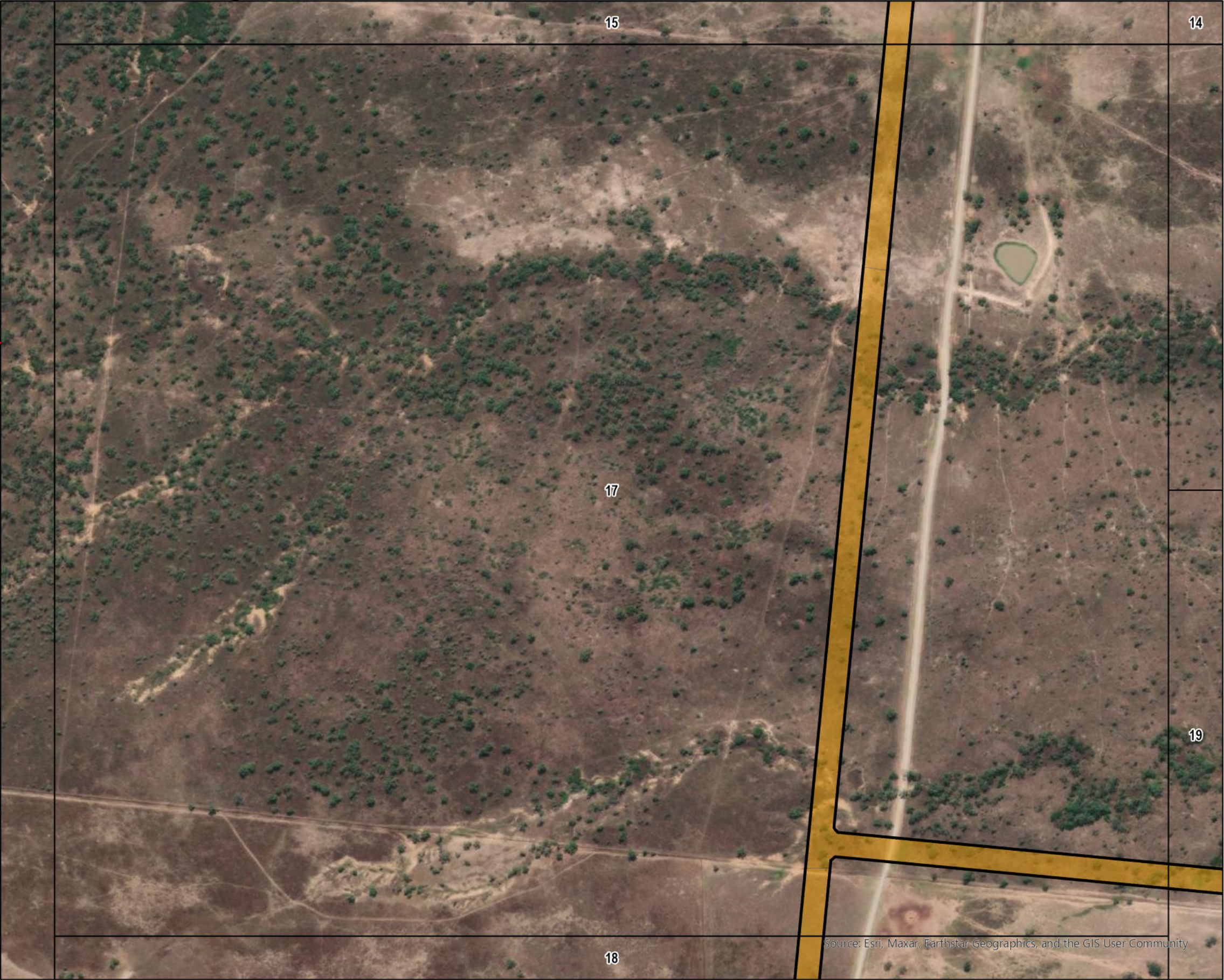
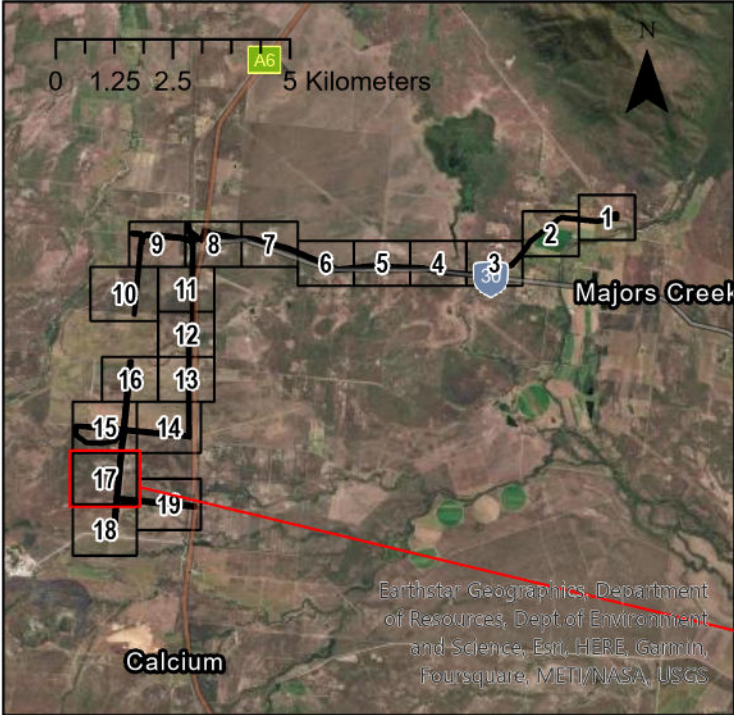
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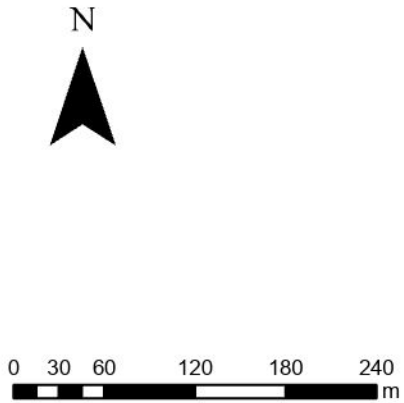
Landsdown Eco Industrial Precinct - Proposed Impact Site







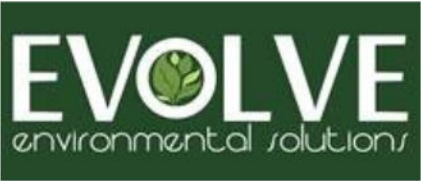
- Legend**
- Project Area
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  - Black-throated Finch habitat mapping (Evolve)



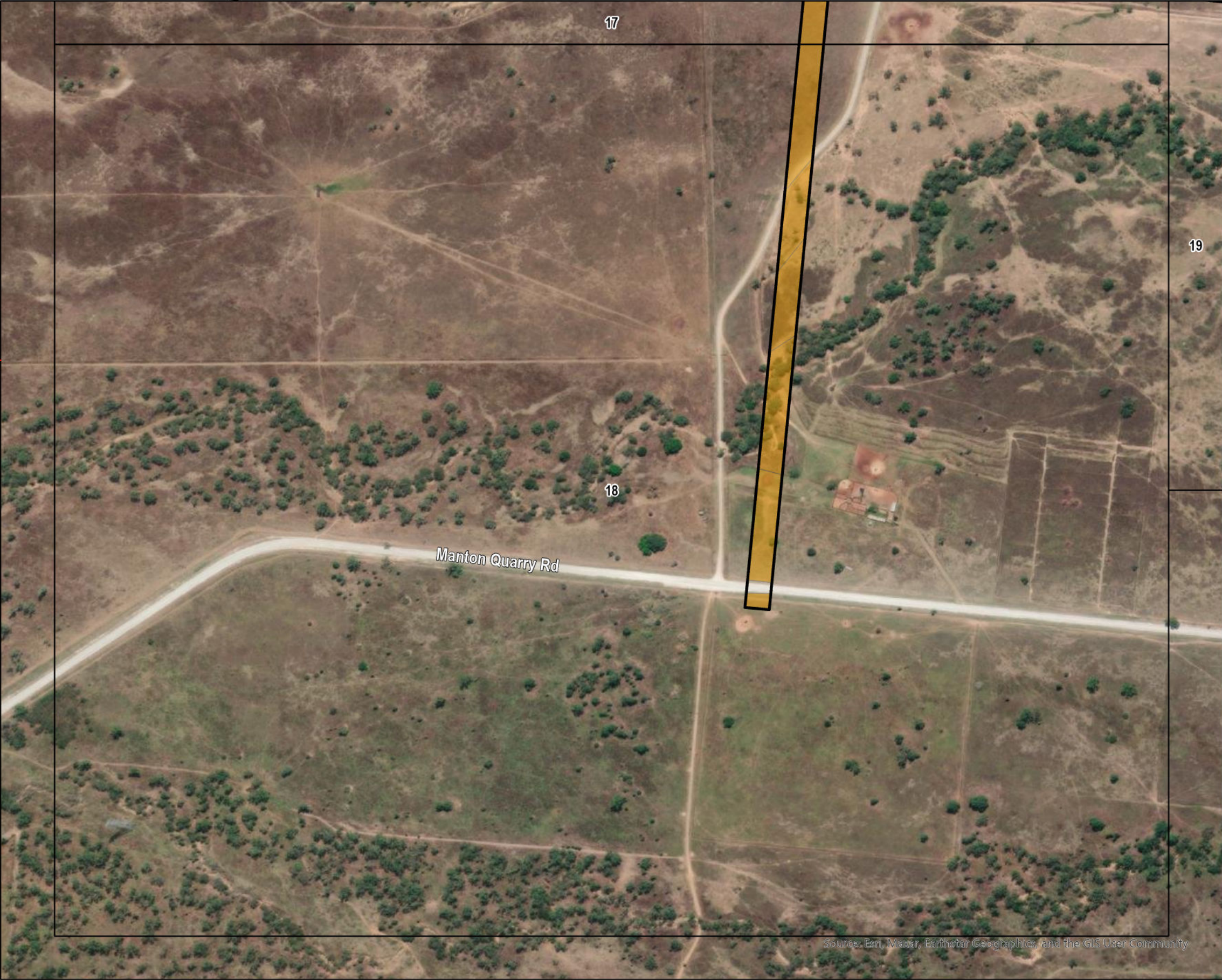
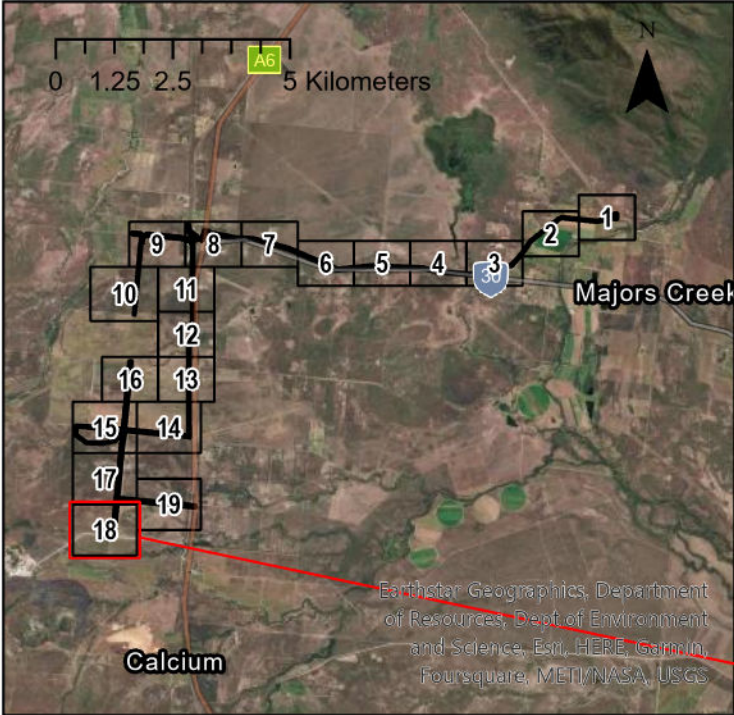
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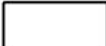

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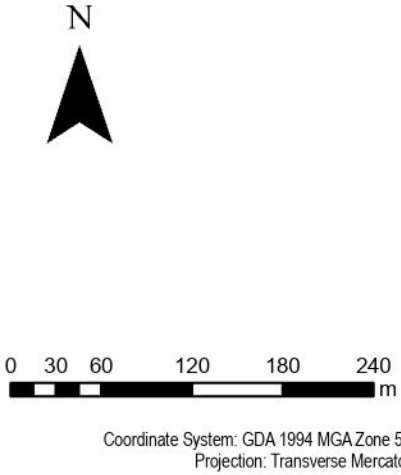
Landsdown Eco Industrial Precinct - Proposed Impact Site





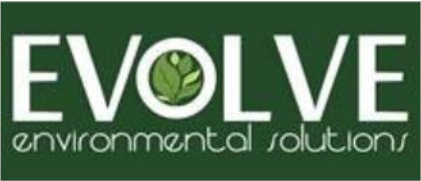


- Legend**
-  Project Area
  -  Reference Grid (labelled with page number)
  -  Black-throated Finch habitat mapping (Evolve)

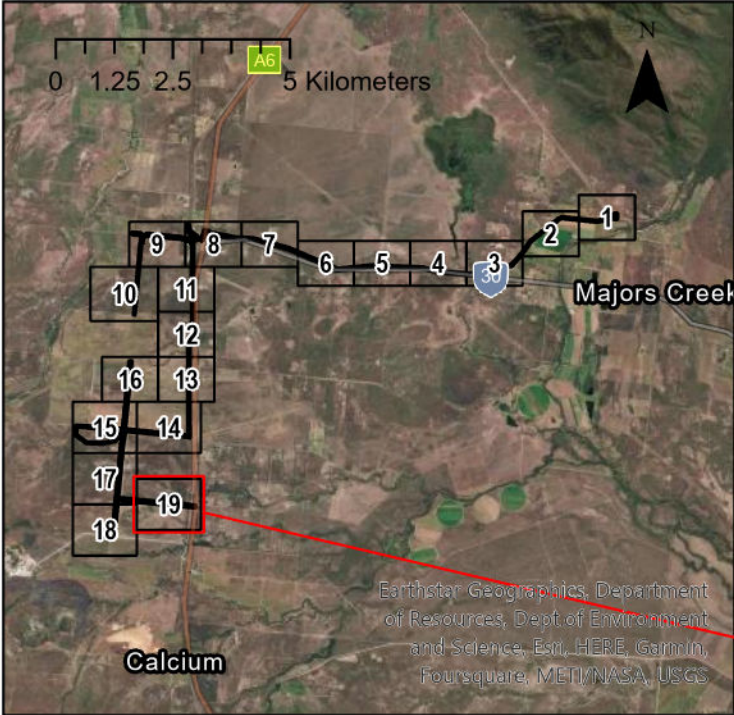


| Issue | Date       | Description | Drawn | Checked |
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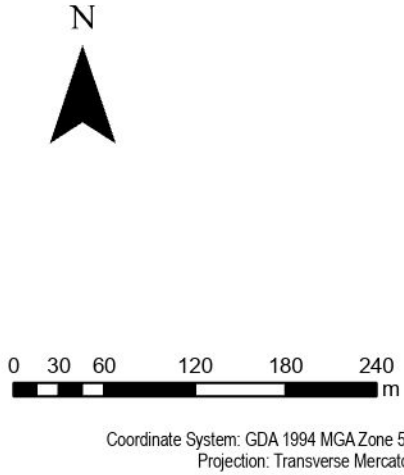
Landsdown Eco Industrial Precinct - Proposed Impact Site





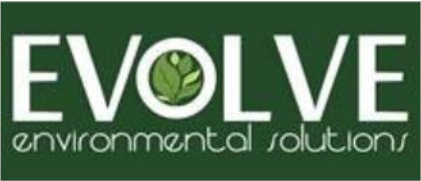


- Legend
- Project Area
  - Reference Grid (labelled with page number)
  - Black-throated Finch habitat mapping (Evolve)

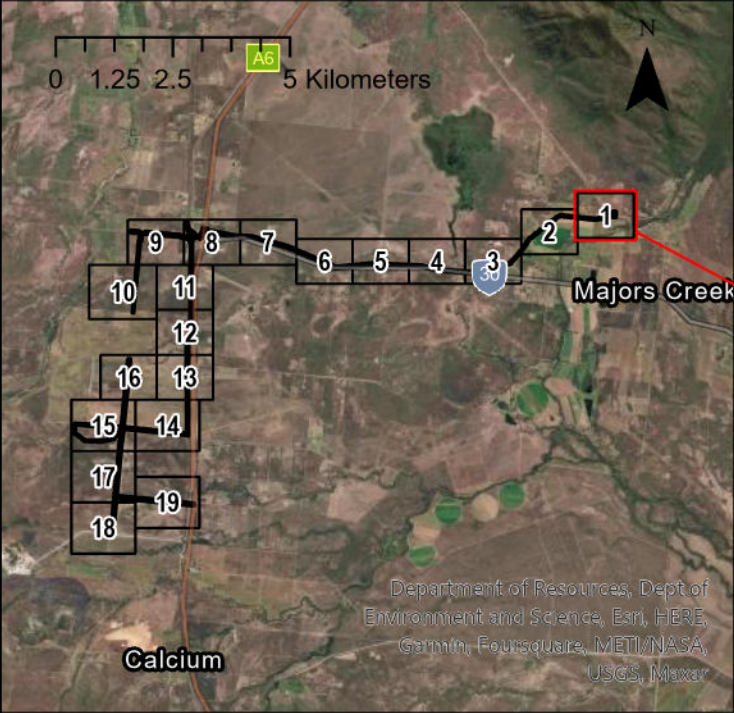


| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

Project Area

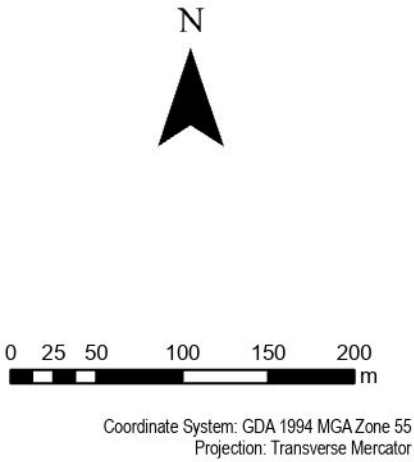
Reference Grid (labelled with page number)

**Southern Squatter Pigeon habitat mapping (Evolve)**

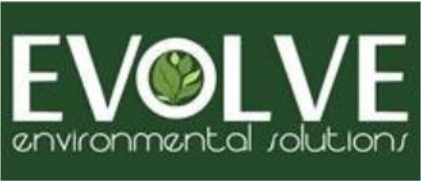
Breeding

Foraging

Dispersal



Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator

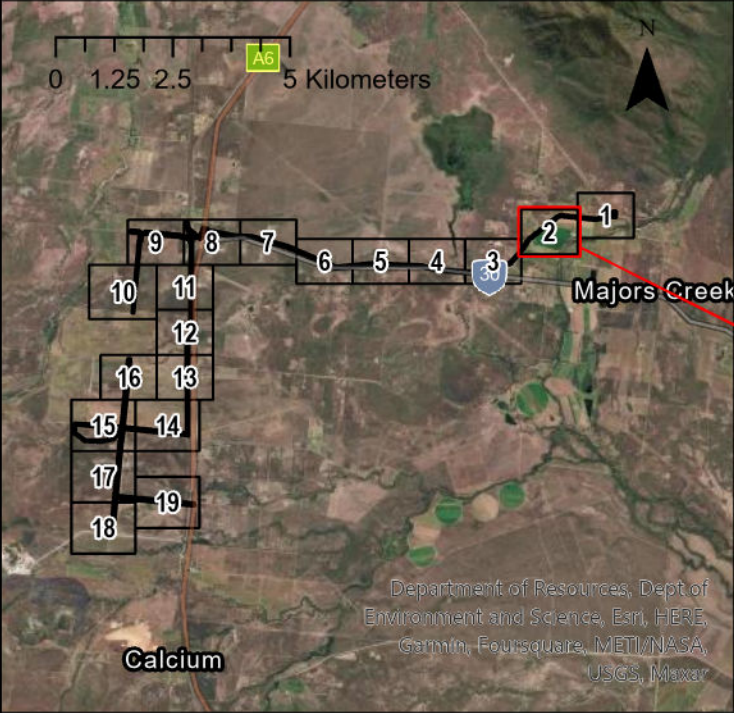


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site





**Legend**

Project Area

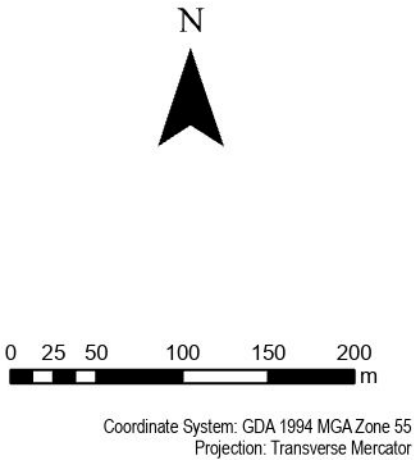
Reference Grid (labelled with page number)

**Southern Squatter Pigeon habitat mapping (Evolve)**

Breeding

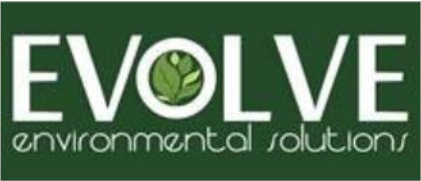
Foraging

Dispersal

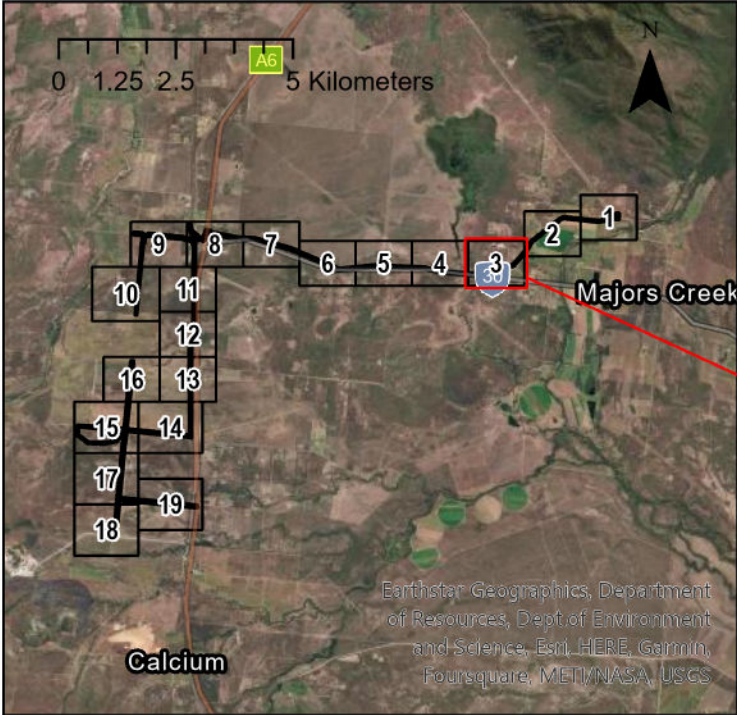


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| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

Project Area

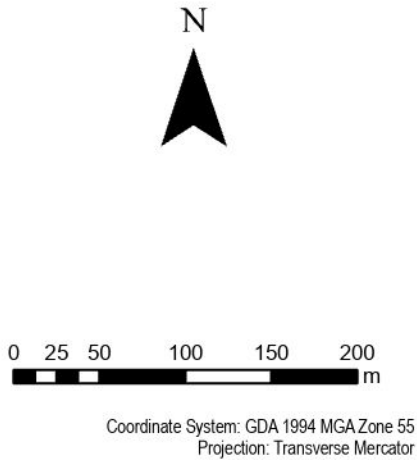
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**Southern Squatter Pigeon habitat mapping (Evolve)**

Breeding

Foraging

Dispersal



Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator



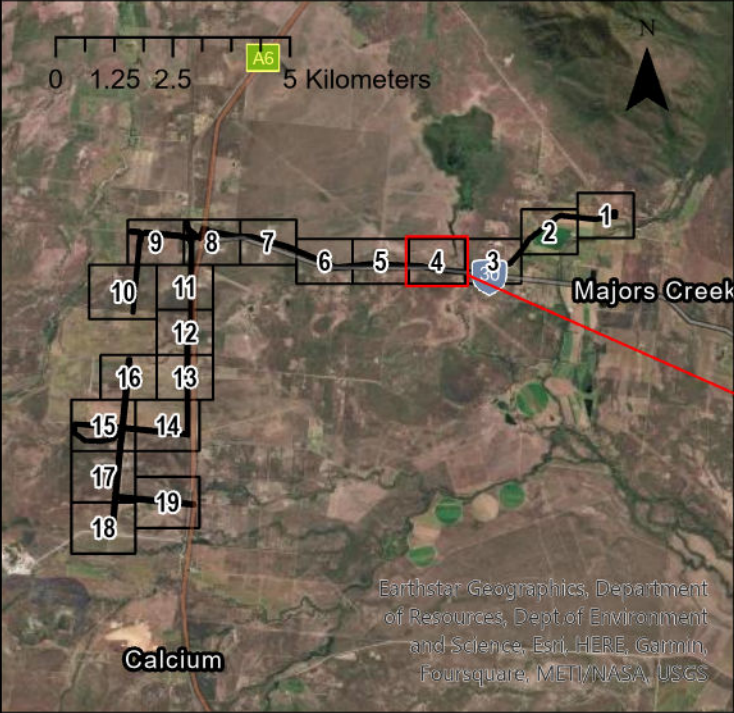
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

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Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

Project Area

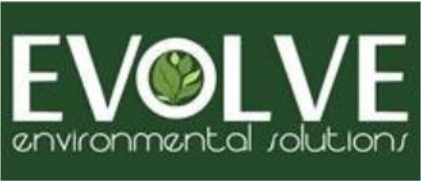
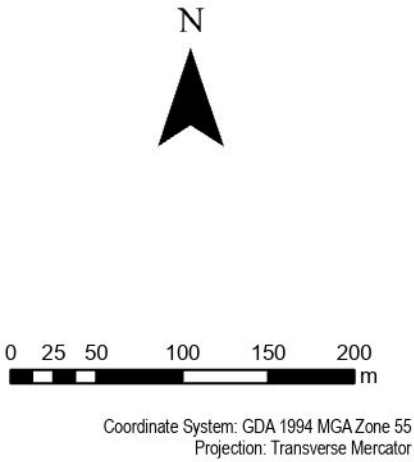
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**Southern Squatter Pigeon habitat mapping (Evolve)**

Breeding

Foraging

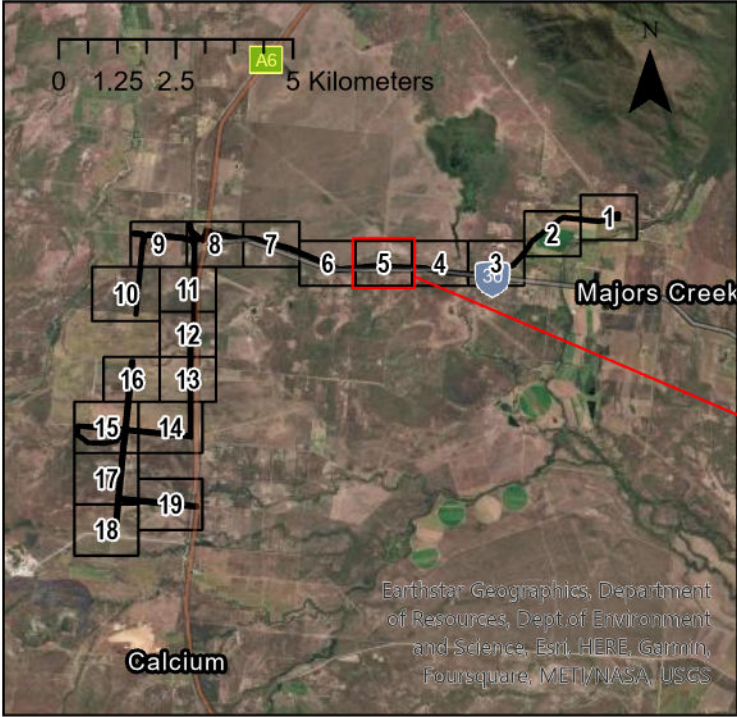
Dispersal



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Landsdown Eco Industrial Precinct - Proposed Impact Site





**Legend**

Project Area

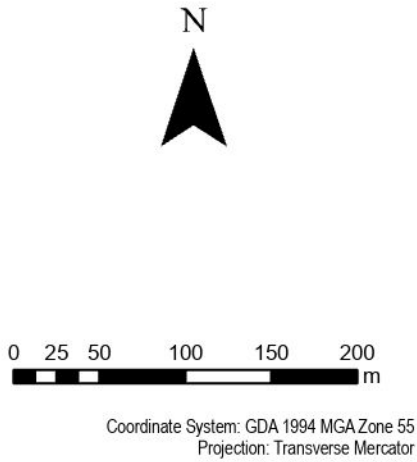
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**Southern Squatter Pigeon habitat mapping (Evolve)**

Breeding

Foraging

Dispersal



Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator

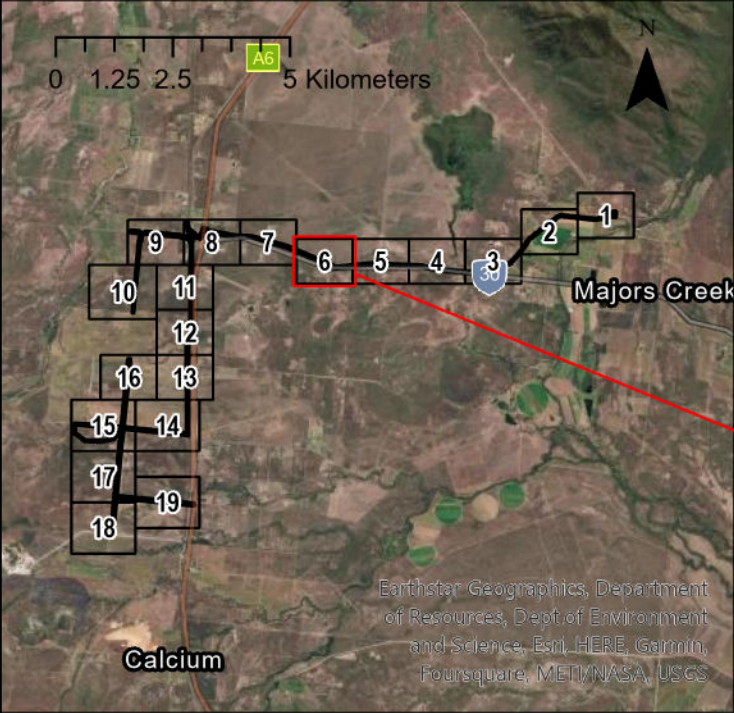


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Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

Project Area

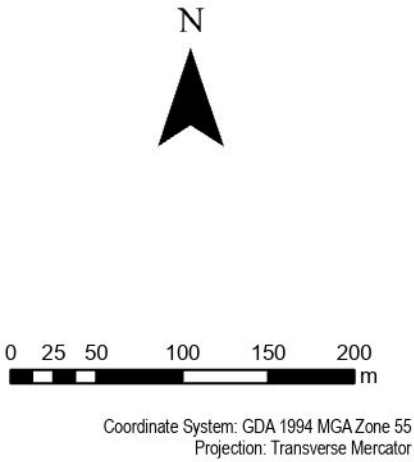
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**Southern Squatter Pigeon habitat mapping (Evolve)**

Breeding

Foraging

Dispersal



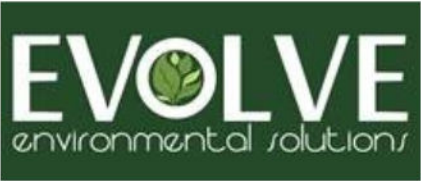
Coordinate System: GDA 1994 MGA Zone 55  
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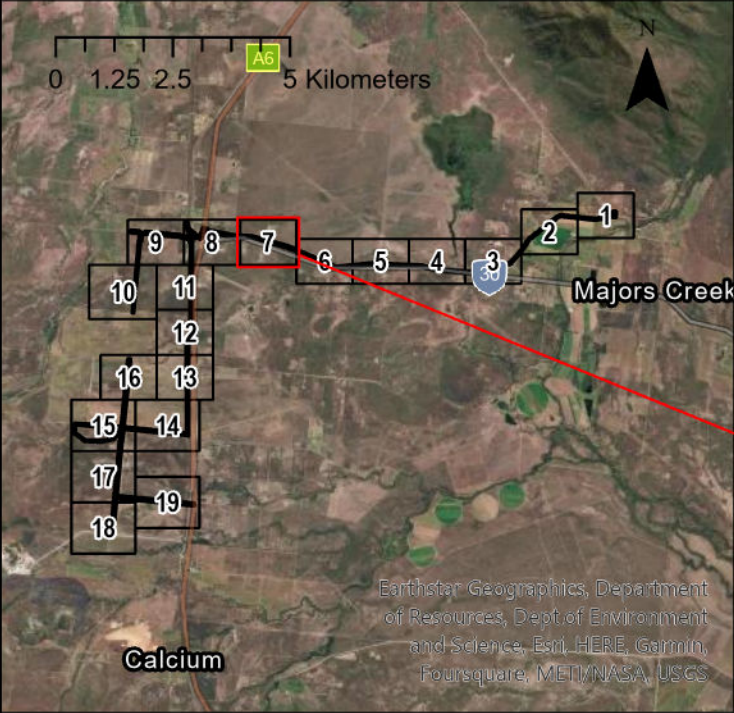
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

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Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

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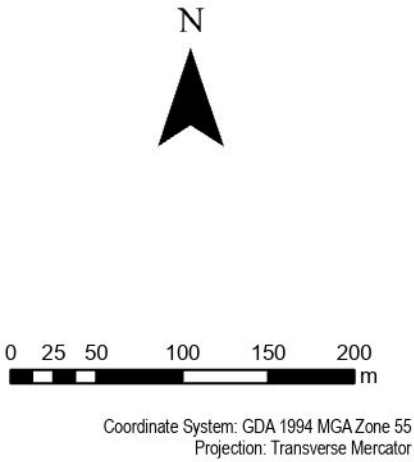
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**Southern Squatter Pigeon habitat mapping (Evolve)**

Breeding

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Dispersal

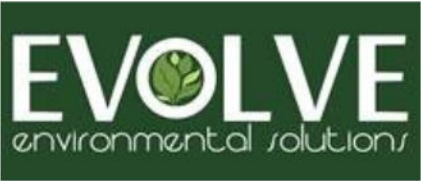


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Projection: Transverse Mercator

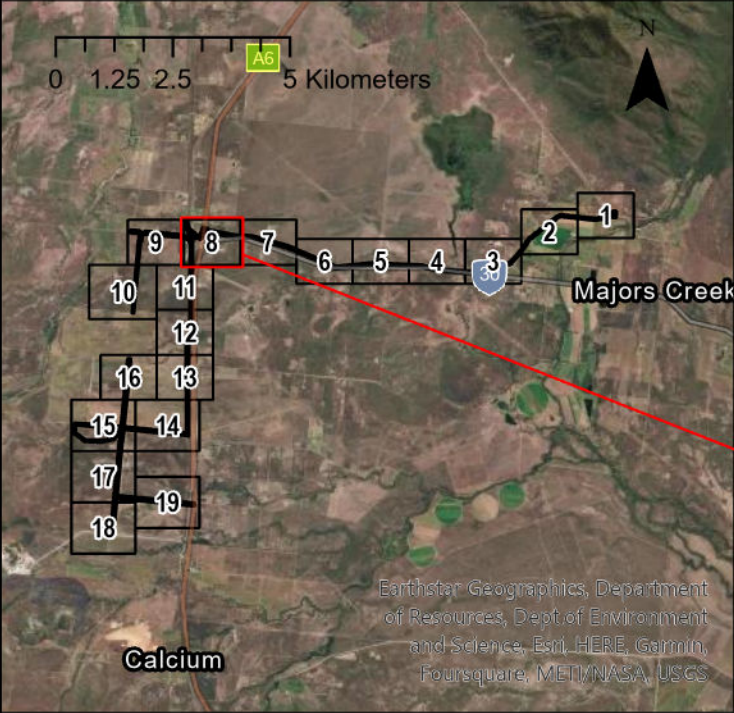


| Issue | Date       | Description | Drawn | Checked |
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Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

Project Area

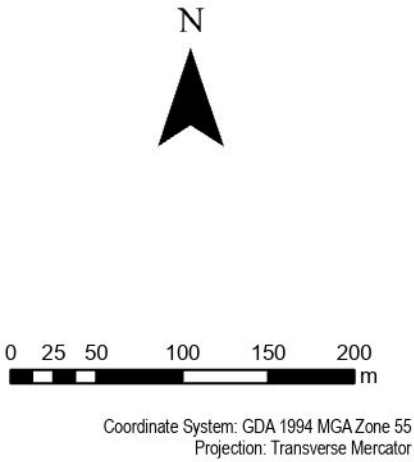
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**Southern Squatter Pigeon habitat mapping (Evolve)**

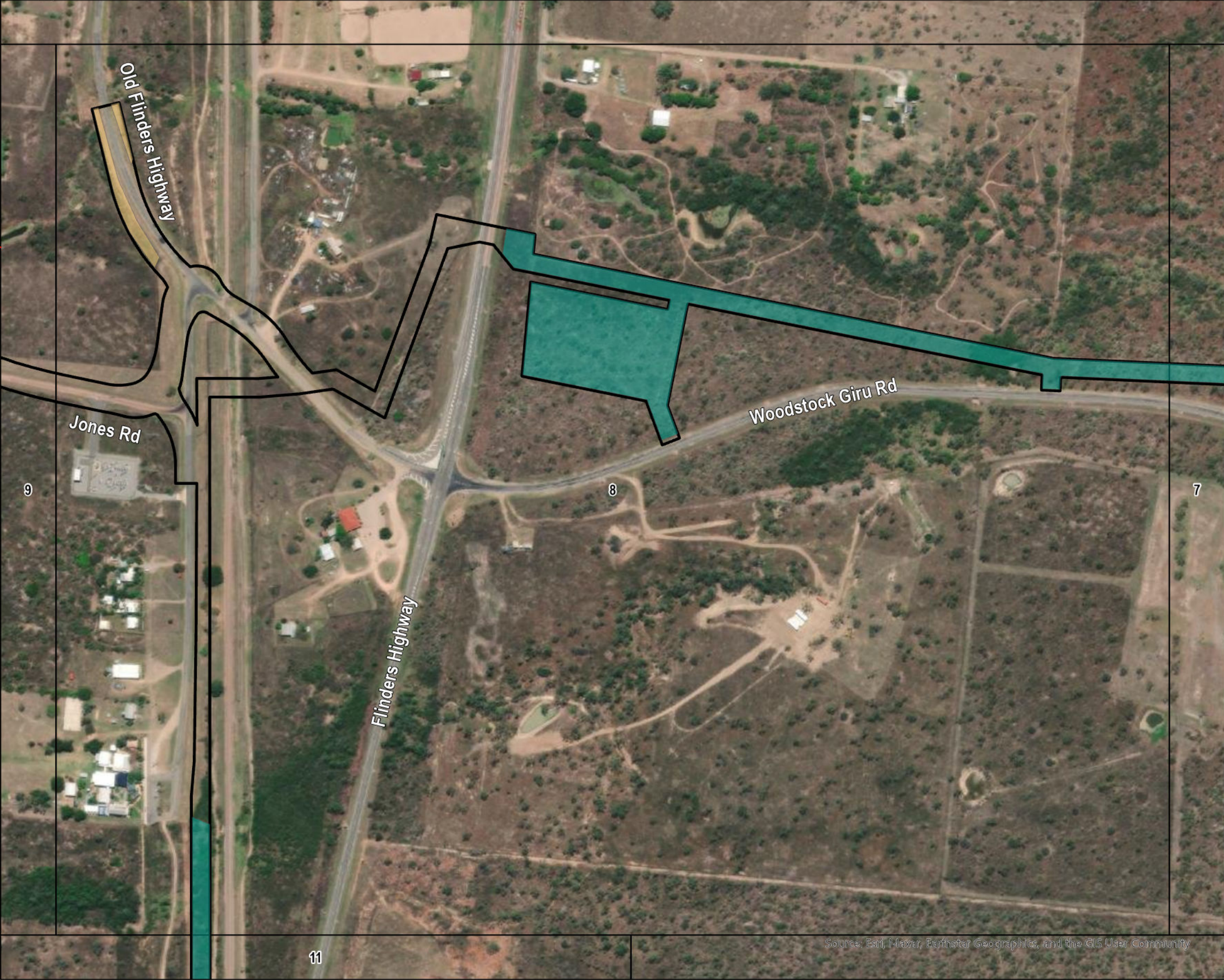
Breeding

Foraging

Dispersal

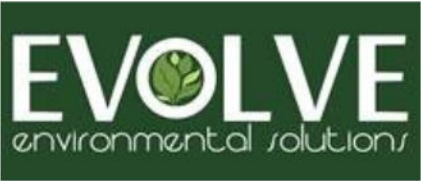


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Projection: Transverse Mercator

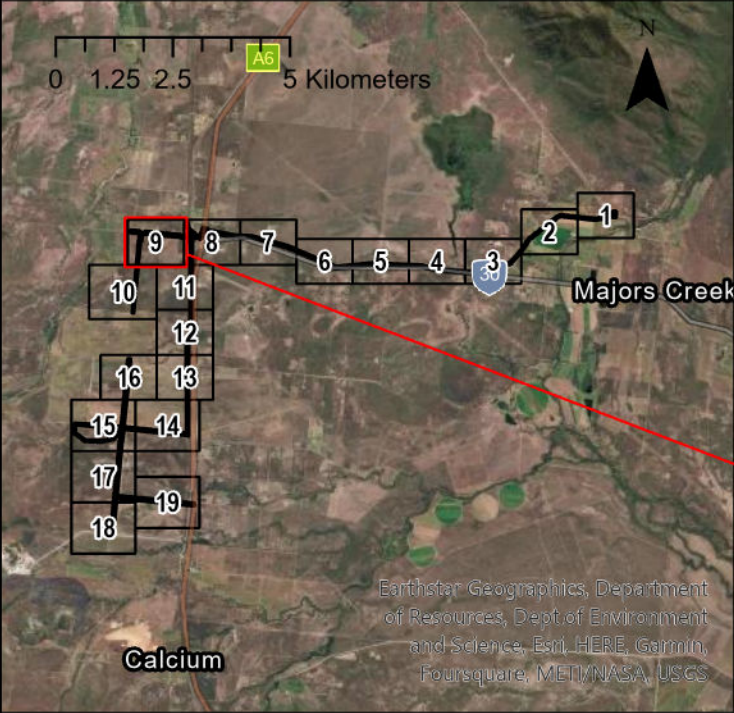


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Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

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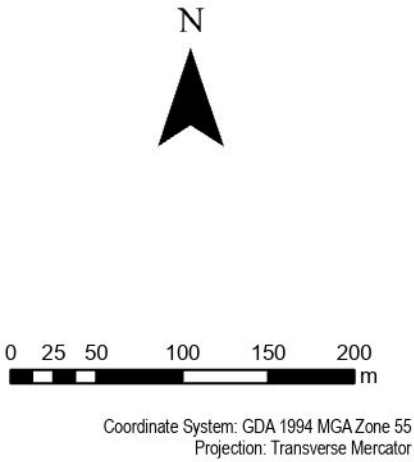
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**Southern Squatter Pigeon habitat mapping (Evolve)**

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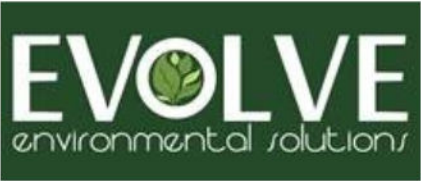
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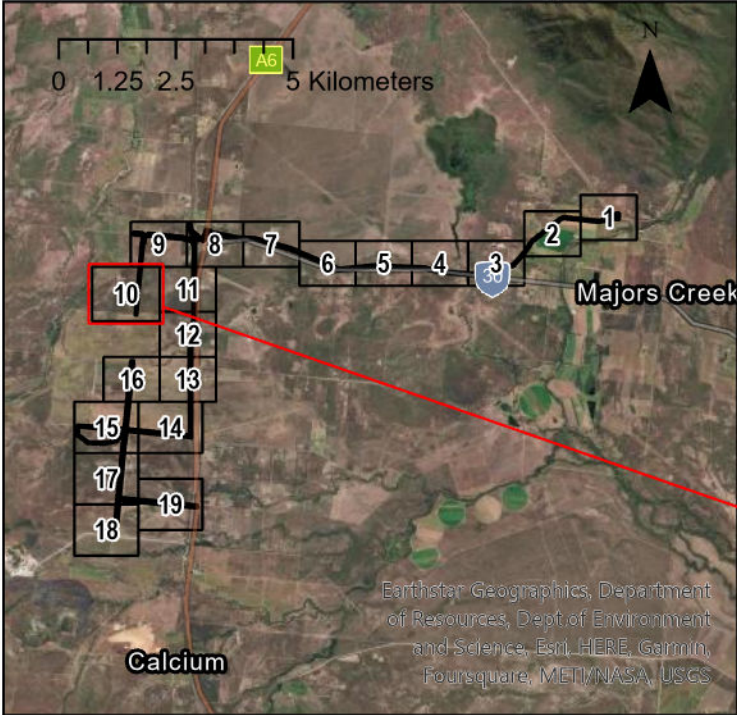
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Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

Project Area

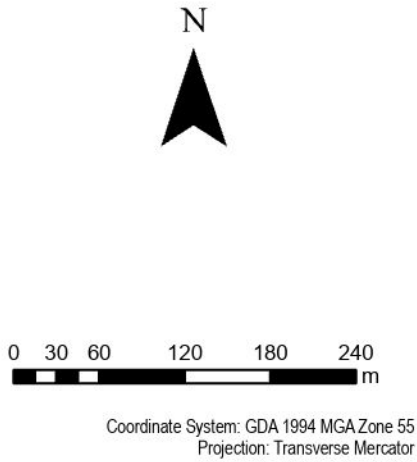
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**Southern Squatter Pigeon habitat mapping (Evolve)**

Breeding

Foraging

Dispersal

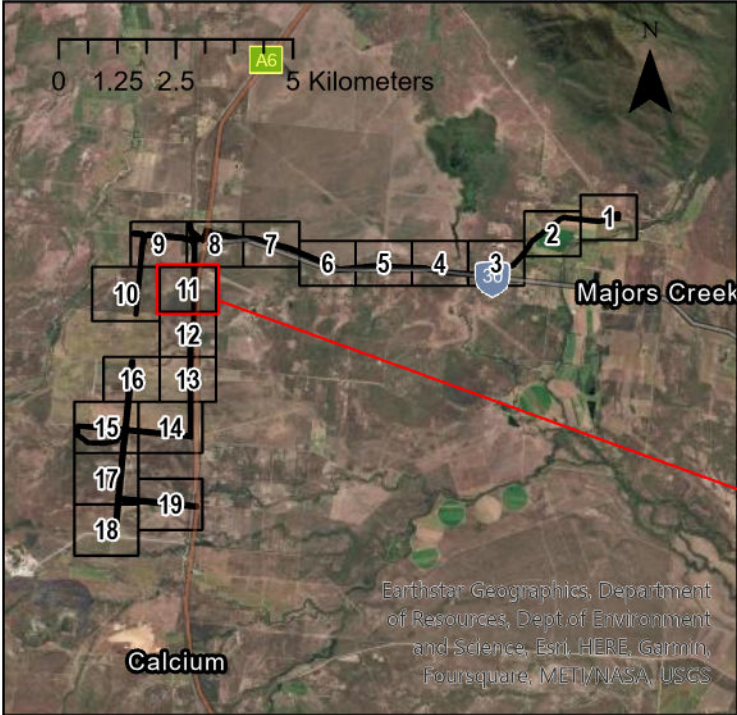


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Landsdown Eco Industrial Precinct - Proposed Impact Site







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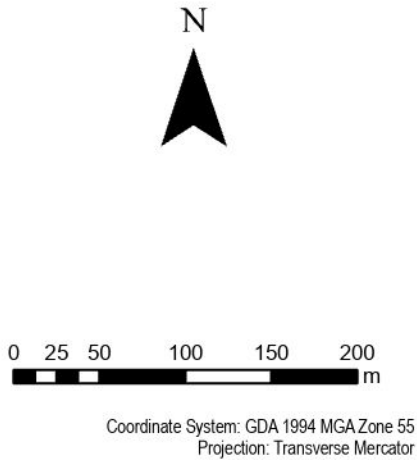
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**Southern Squatter Pigeon habitat mapping (Evolve)**

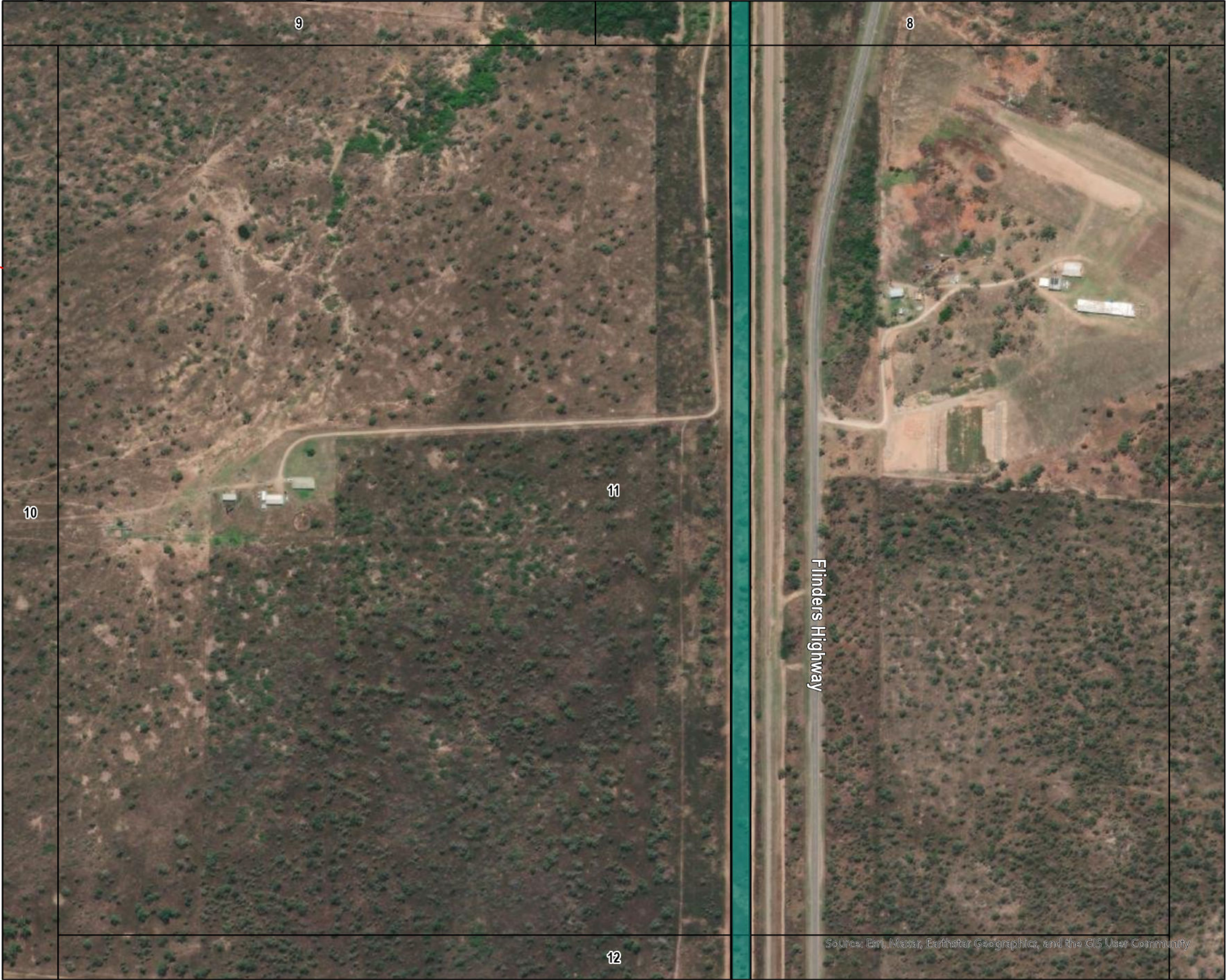
Breeding

Foraging

Dispersal



Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator

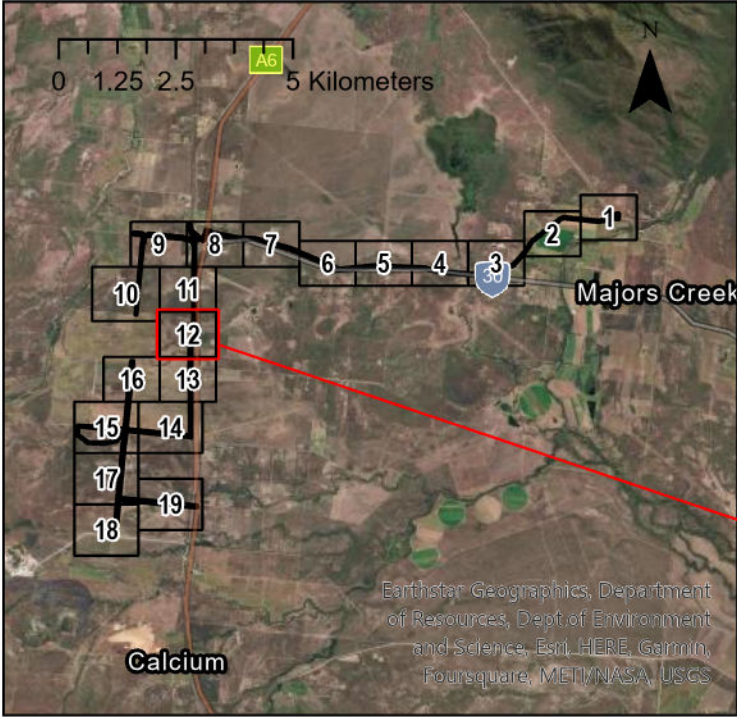


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Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

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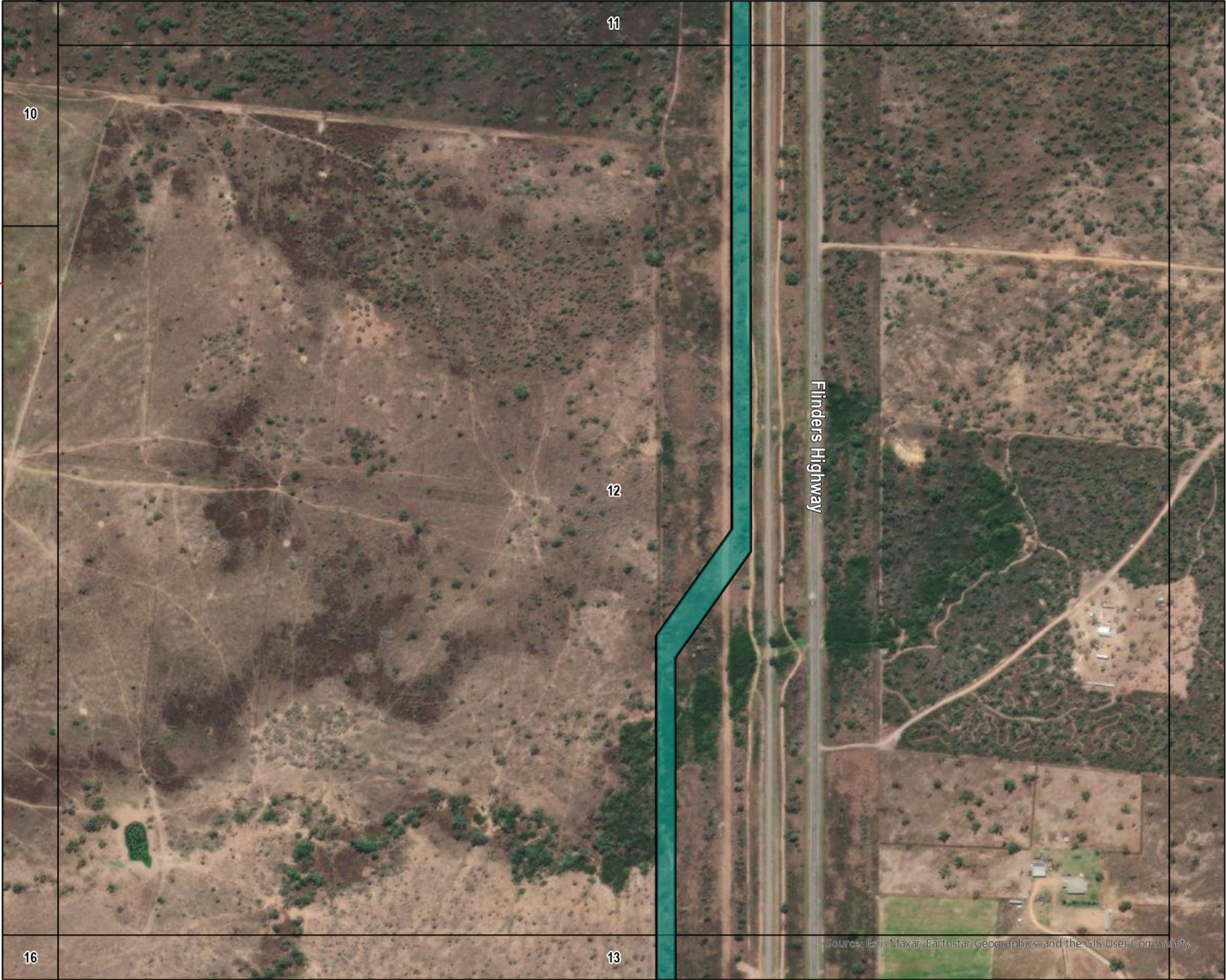
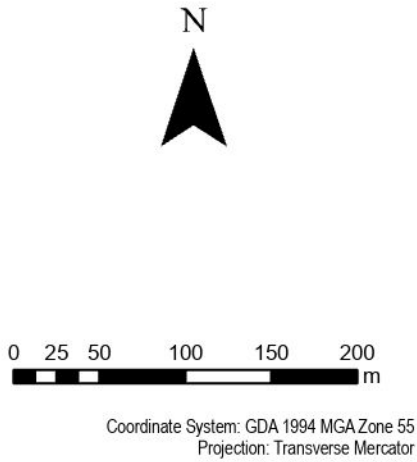
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**Southern Squatter Pigeon habitat mapping (Evolve)**

Breeding

Foraging

Dispersal

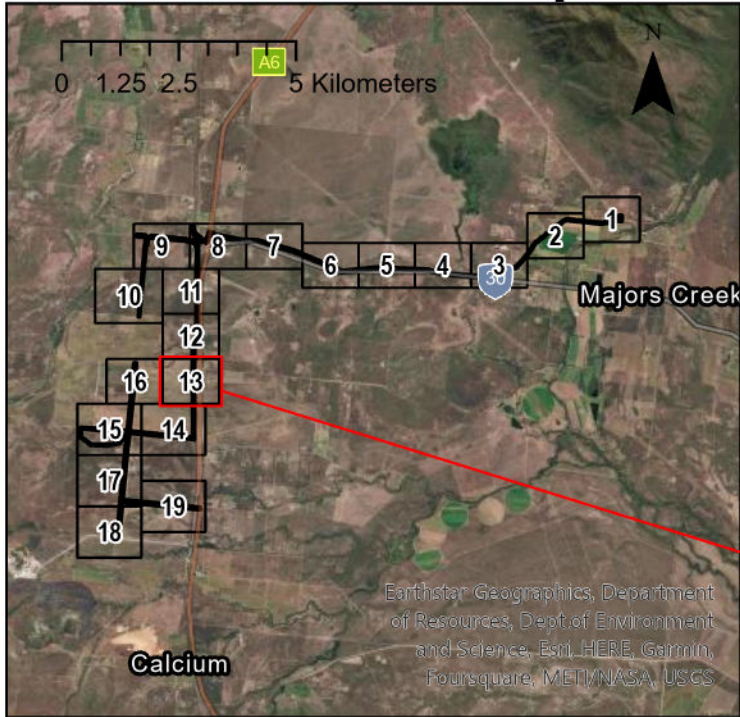


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Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

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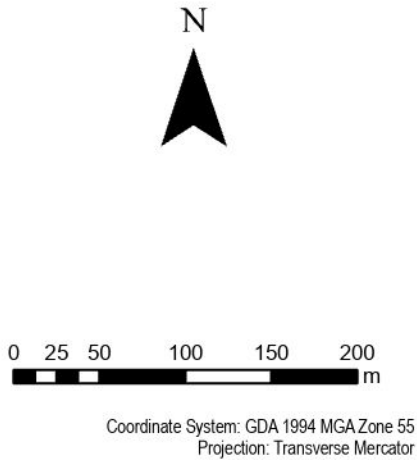
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**Southern Squatter Pigeon habitat mapping (Evolve)**

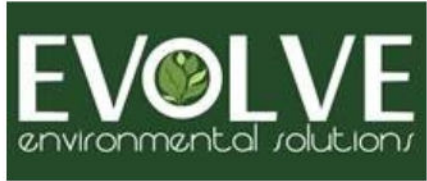
Breeding

Foraging

Dispersal



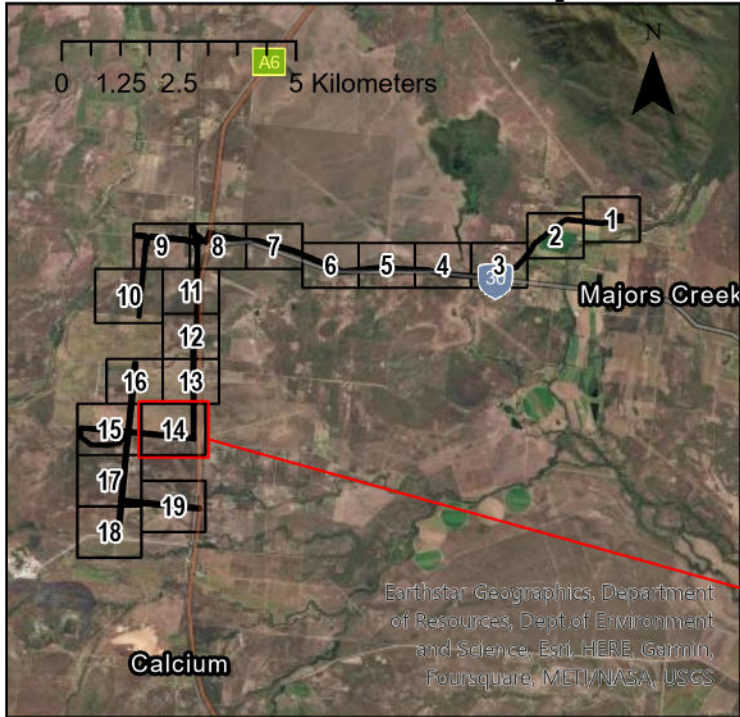
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Landsdown Eco Industrial Precinct - Proposed Impact Site





**Legend**

Project Area

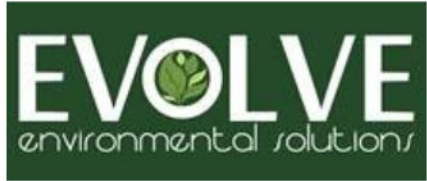
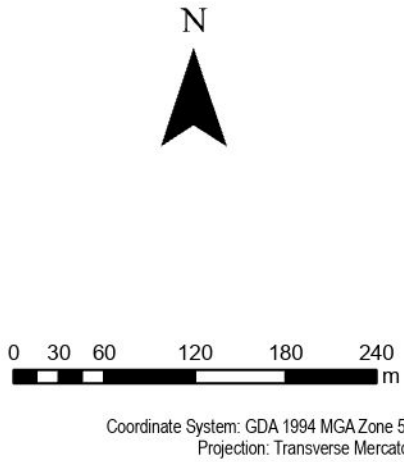
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**Southern Squatter Pigeon habitat mapping (Evolve)**

Breeding

Foraging

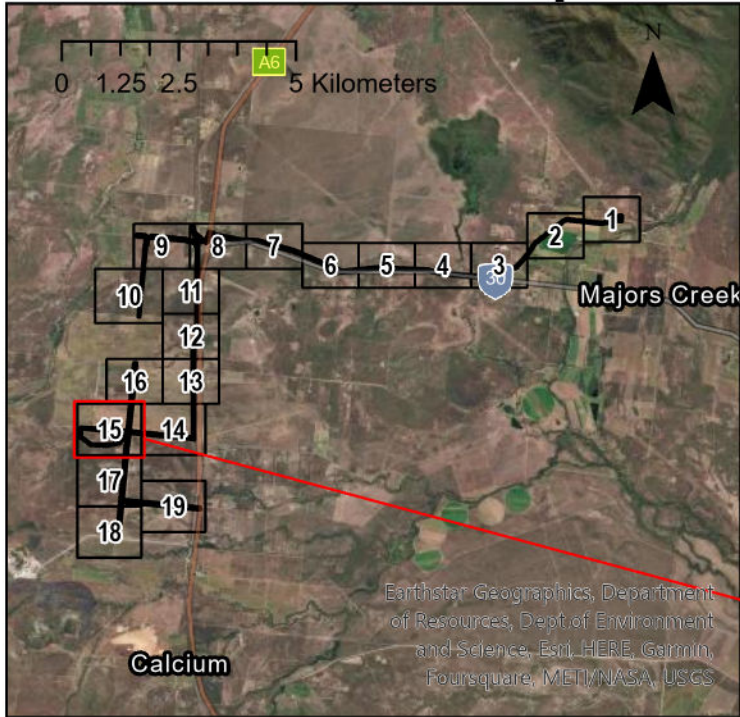
Dispersal



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Landsdown Eco Industrial Precinct - Proposed Impact Site





**Legend**

Project Area

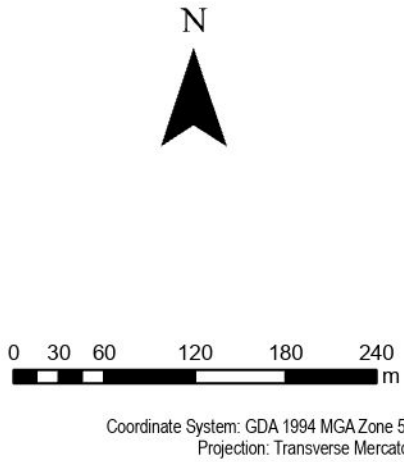
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**Southern Squatter Pigeon habitat mapping (Evolve)**

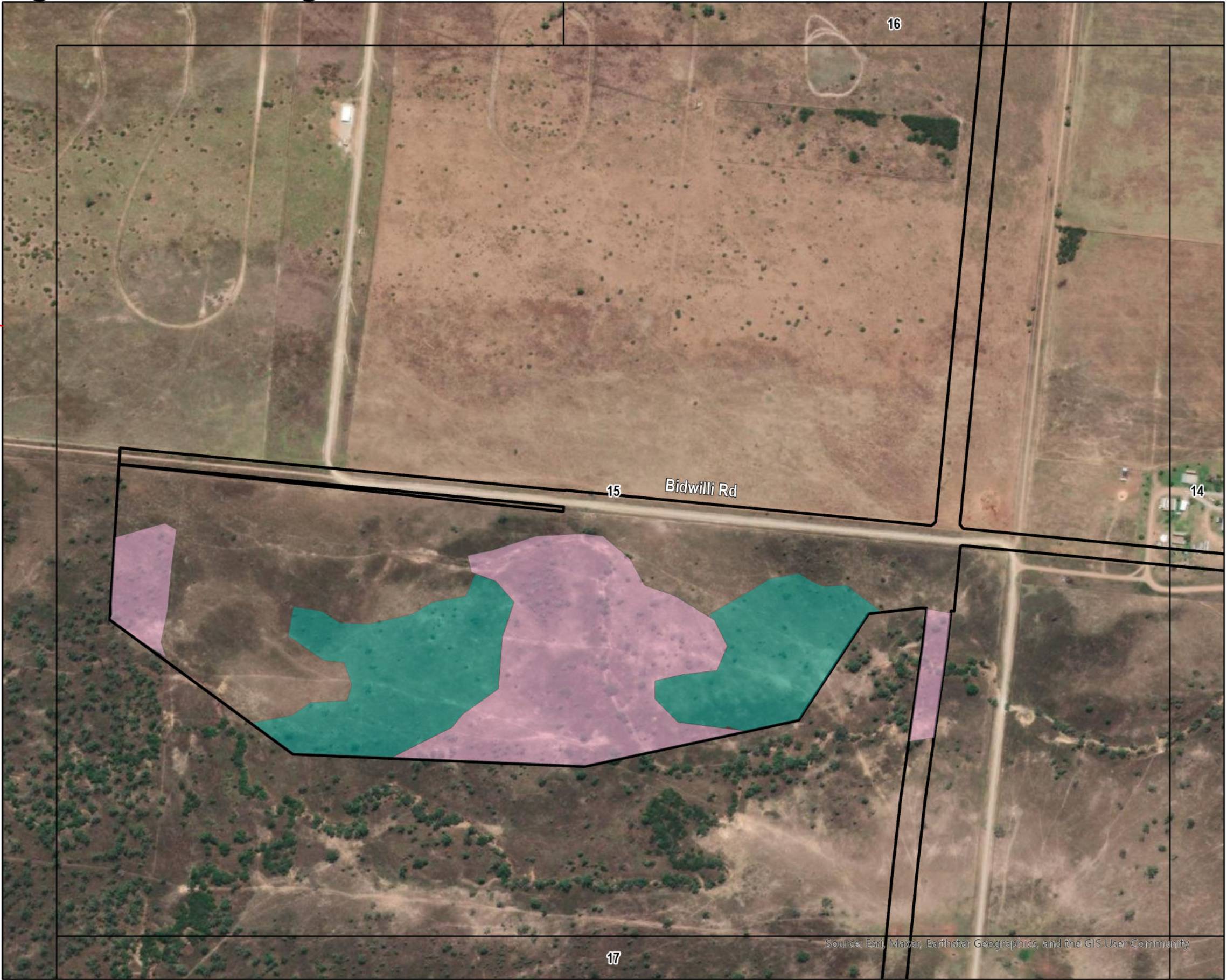
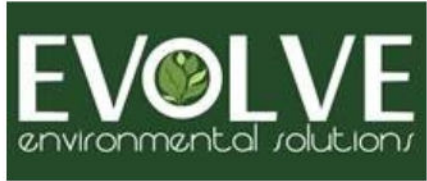
Breeding

Foraging

Dispersal



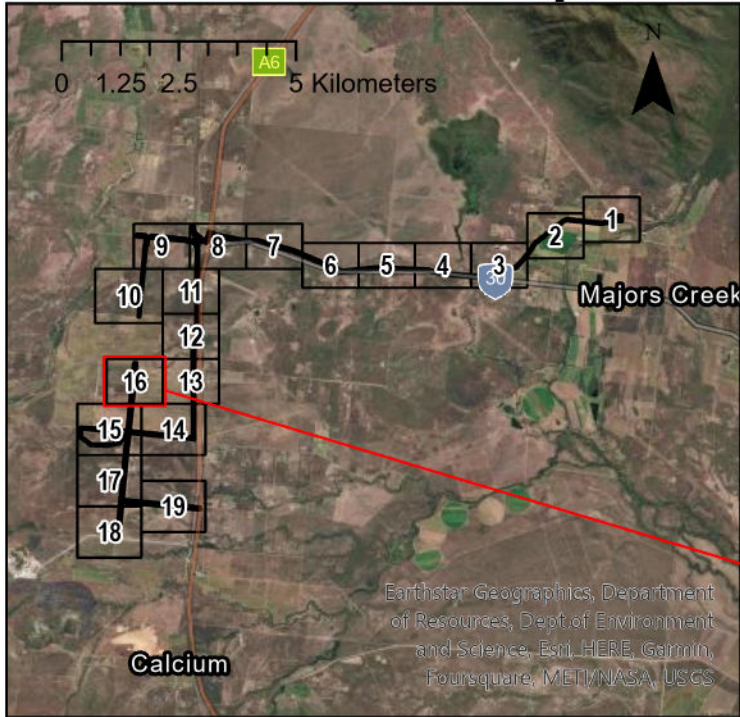
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Projection: Transverse Mercator



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Landsdown Eco Industrial Precinct - Proposed Impact Site





**Legend**

Project Area

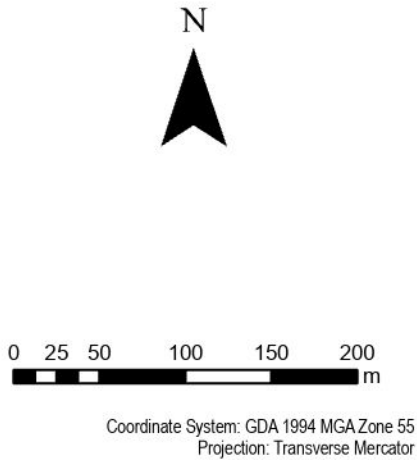
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**Southern Squatter Pigeon habitat mapping (Evolve)**

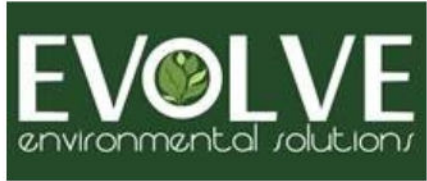
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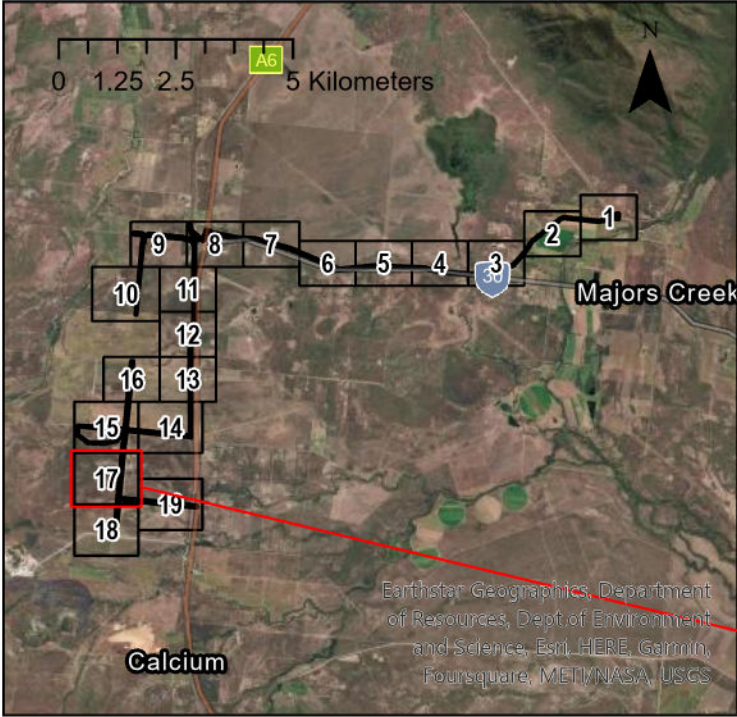
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Landsdown Eco Industrial Precinct - Proposed Impact Site





**Legend**

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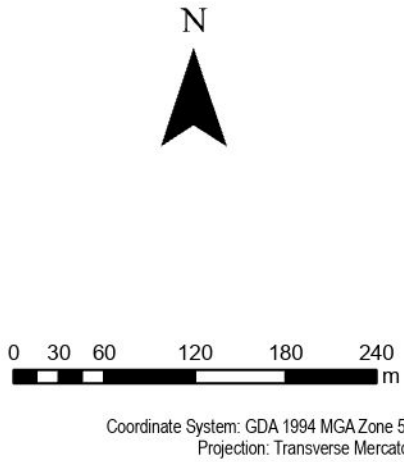
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**Southern Squatter Pigeon habitat mapping (Evolve)**

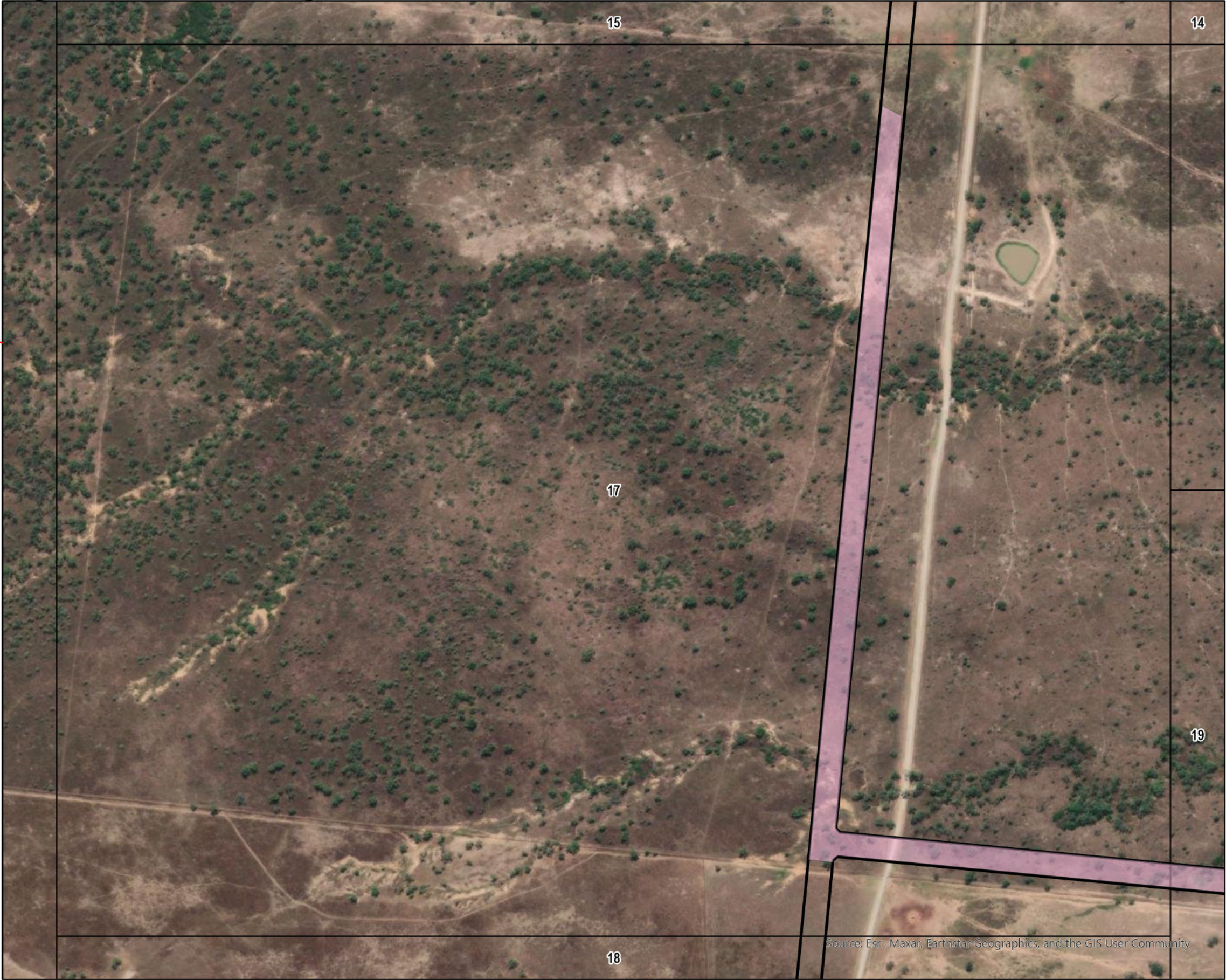
Breeding

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Projection: Transverse Mercator

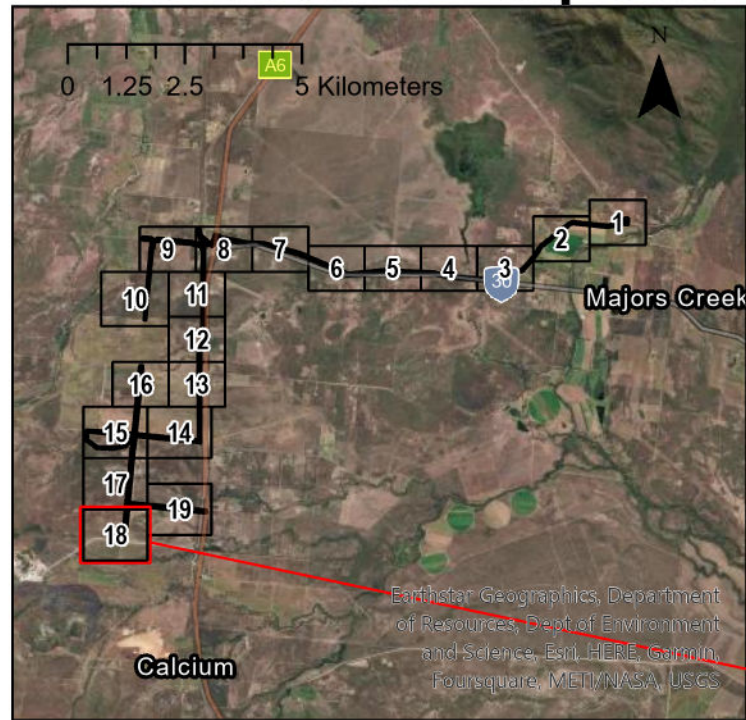


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Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

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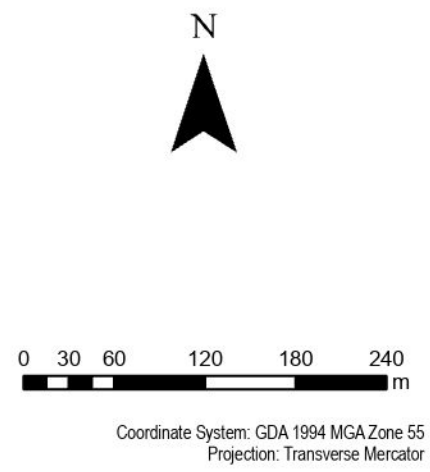
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**Southern Squatter Pigeon habitat mapping (Evolve)**

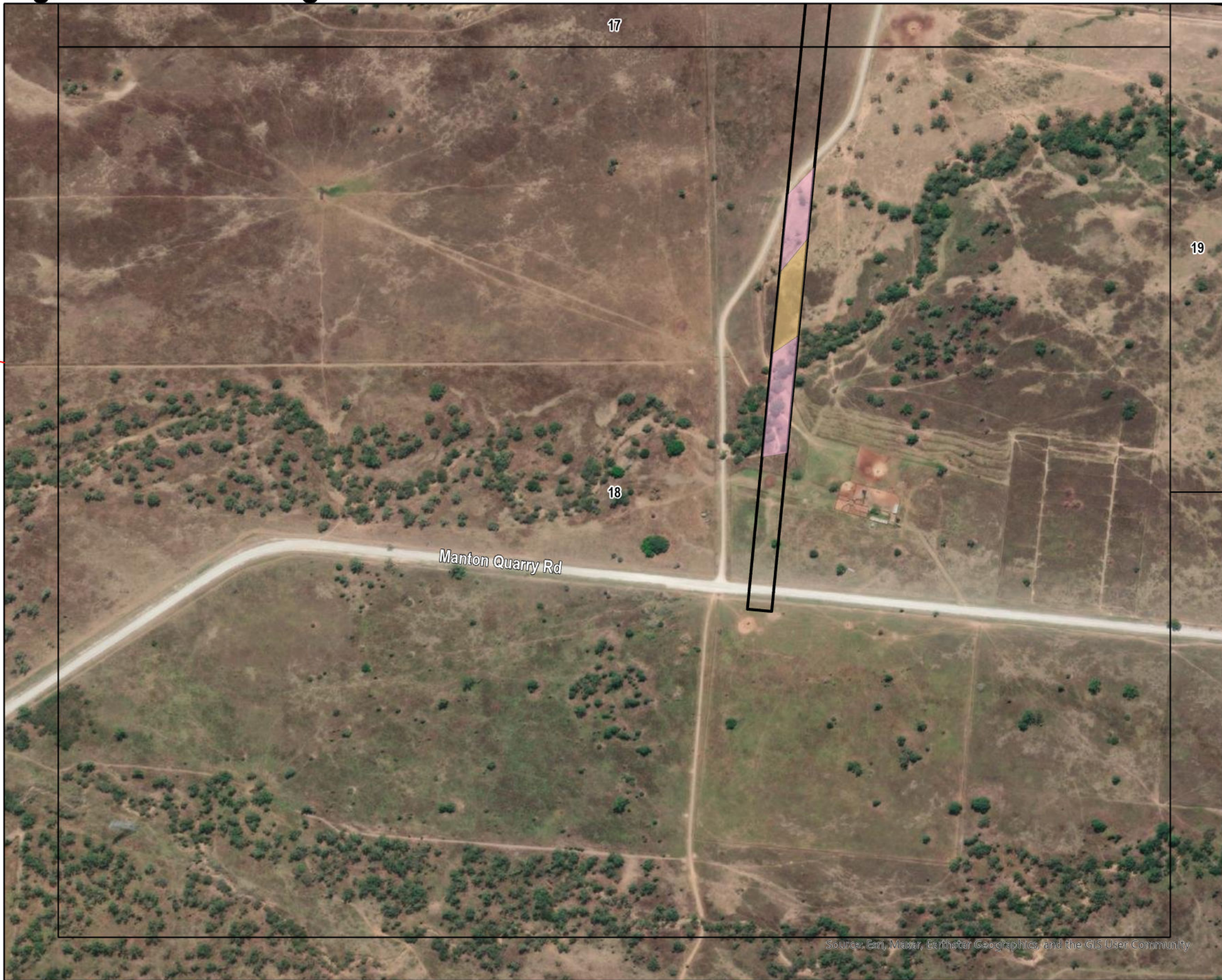
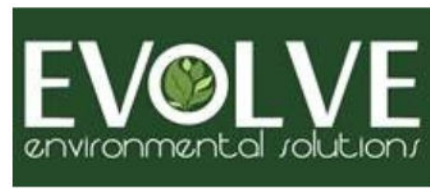
Breeding

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Projection: Transverse Mercator

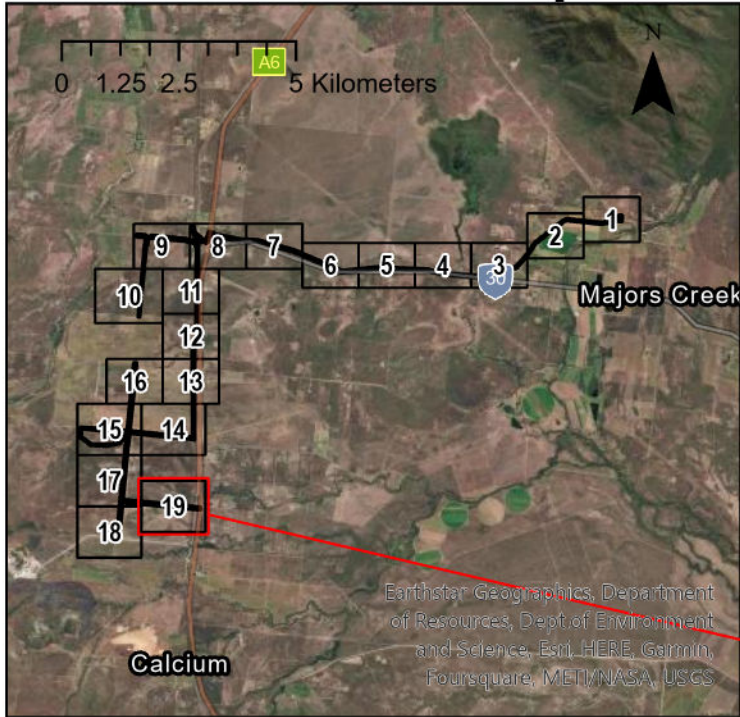


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Landsdown Eco Industrial Precinct - Proposed Impact Site





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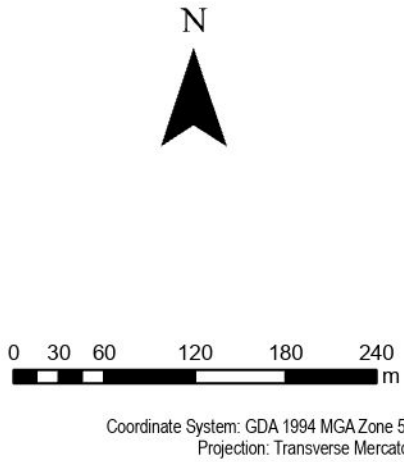
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**Southern Squatter Pigeon habitat mapping (Evolve)**

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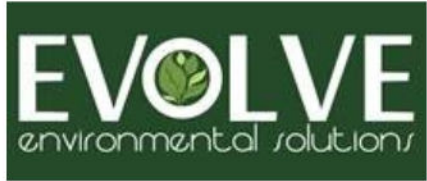


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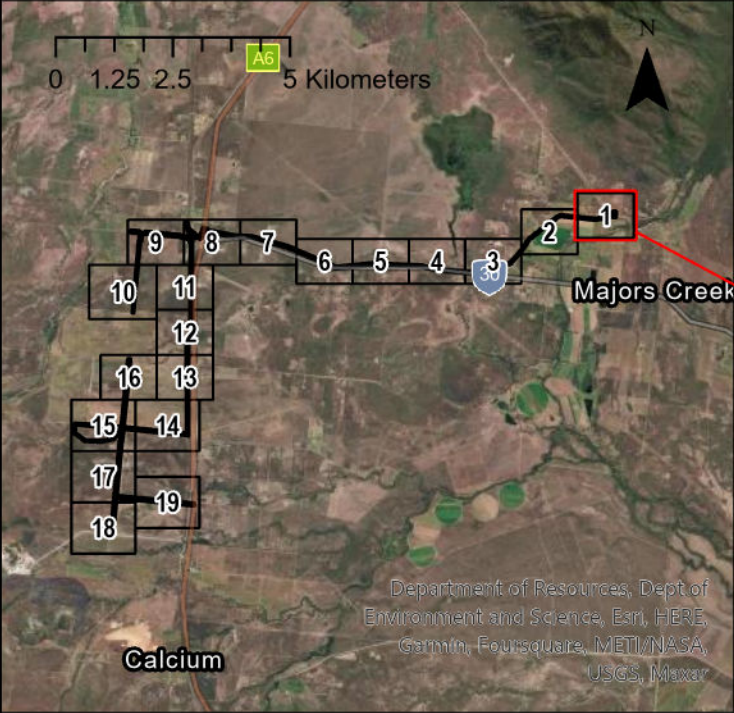


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Landsdown Eco Industrial Precinct - Proposed Impact Site







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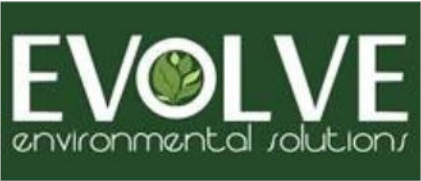
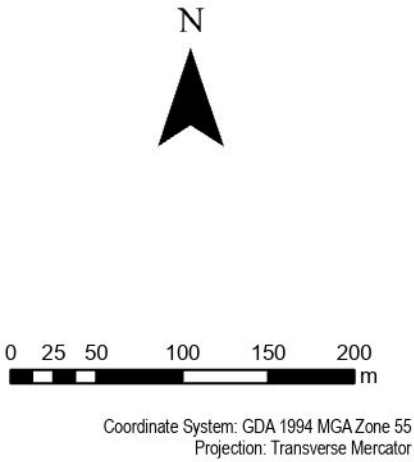
Project Area

Reference Grid (labelled with page number)

**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

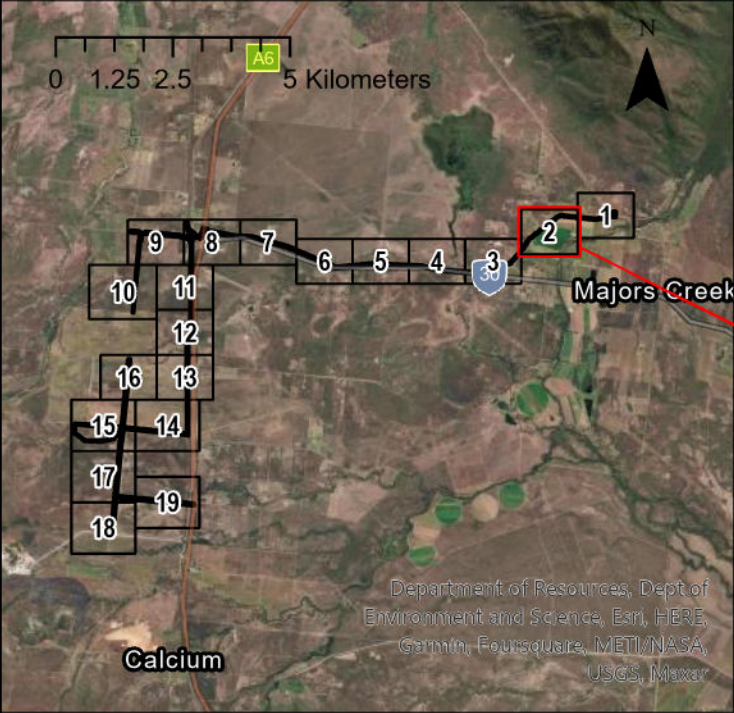
Foraging



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Landsdown Eco Industrial Precinct - Proposed Impact Site





**Legend**

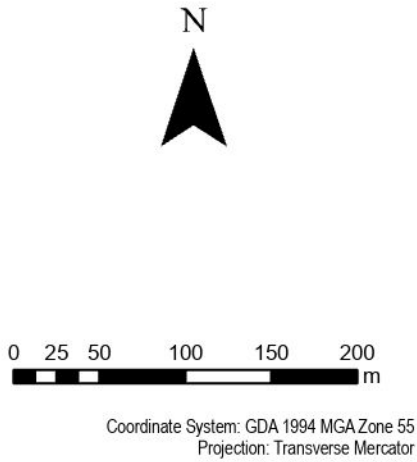
Project Area

Reference Grid (labelled with page number)

**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

Foraging

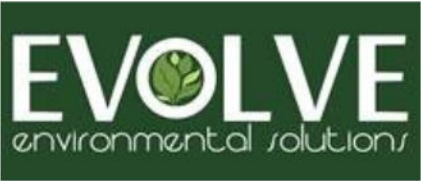


Coordinate System: GDA 1994 MGA Zone 55  
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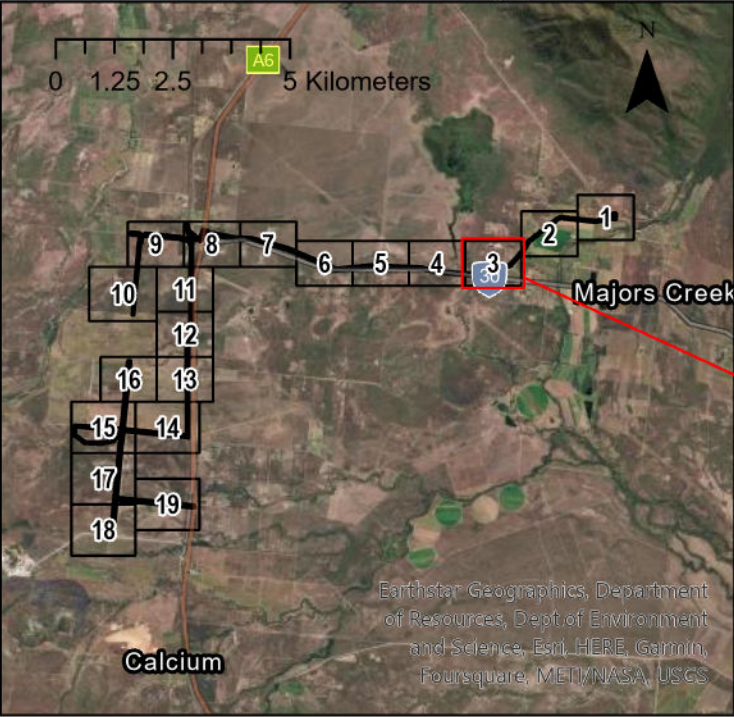


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Landsdown Eco Industrial Precinct - Proposed Impact Site







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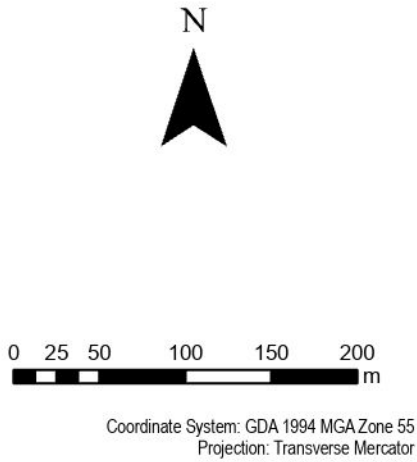
Project Area

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**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

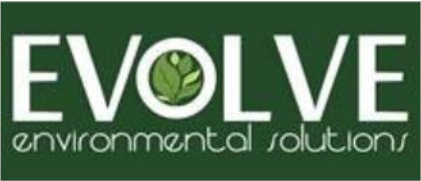
Roosting

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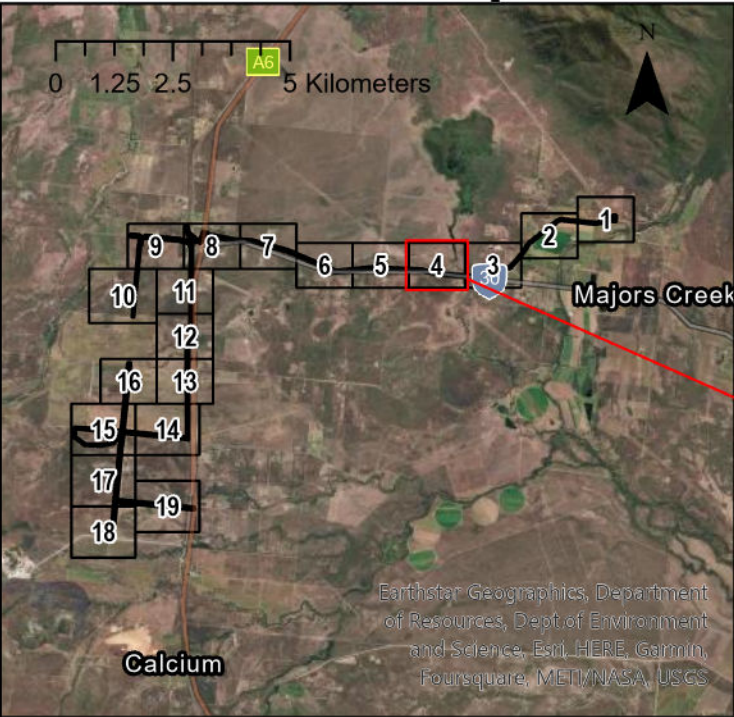


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Landsdown Eco Industrial Precinct - Proposed Impact Site









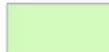
**Legend**

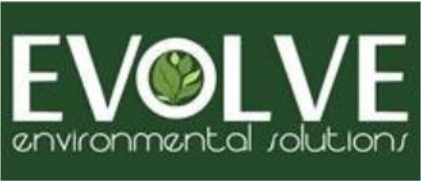
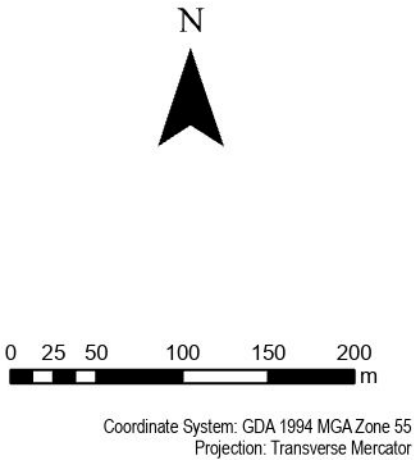
 Project Area

 Reference Grid (labelled with page number)

**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

 Roosting

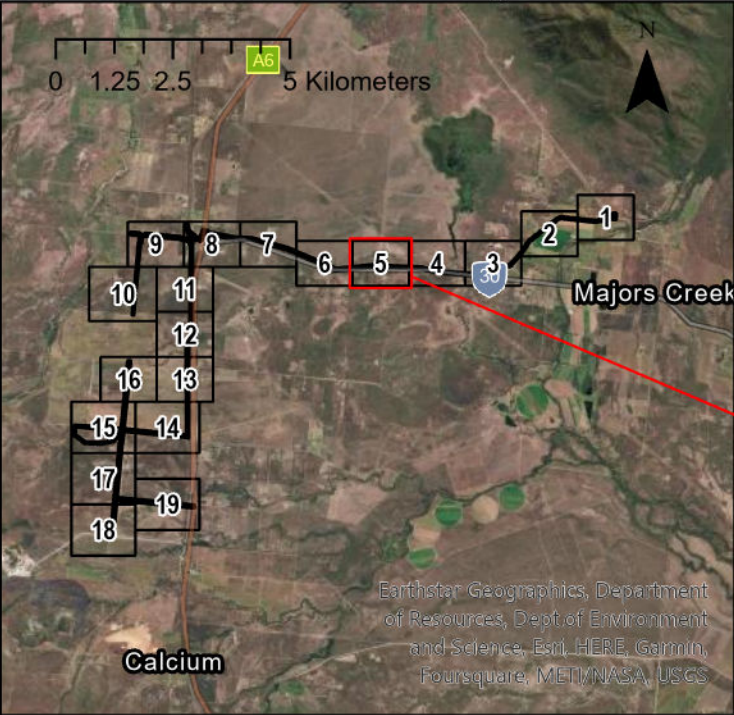
 Foraging



| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site





**Legend**

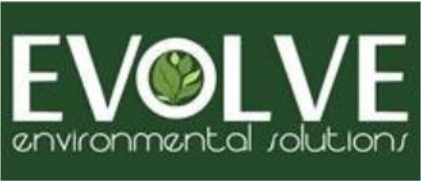
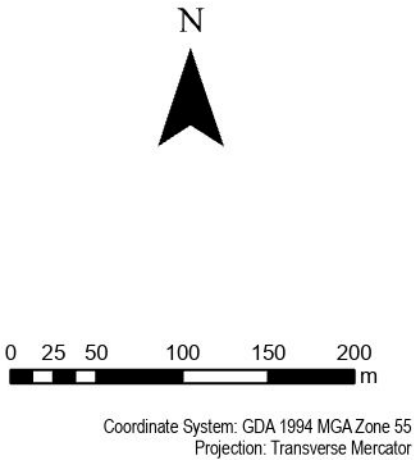
Project Area

Reference Grid (labelled with page number)

**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

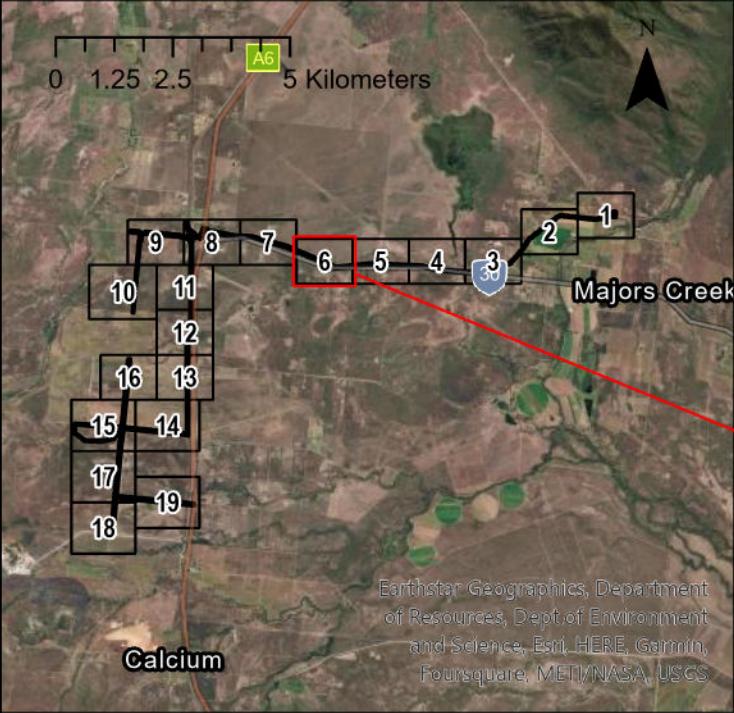
Foraging



| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site





**Legend**

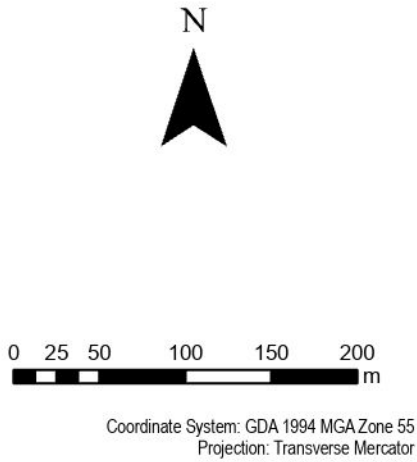
Project Area

Reference Grid (labelled with page number)

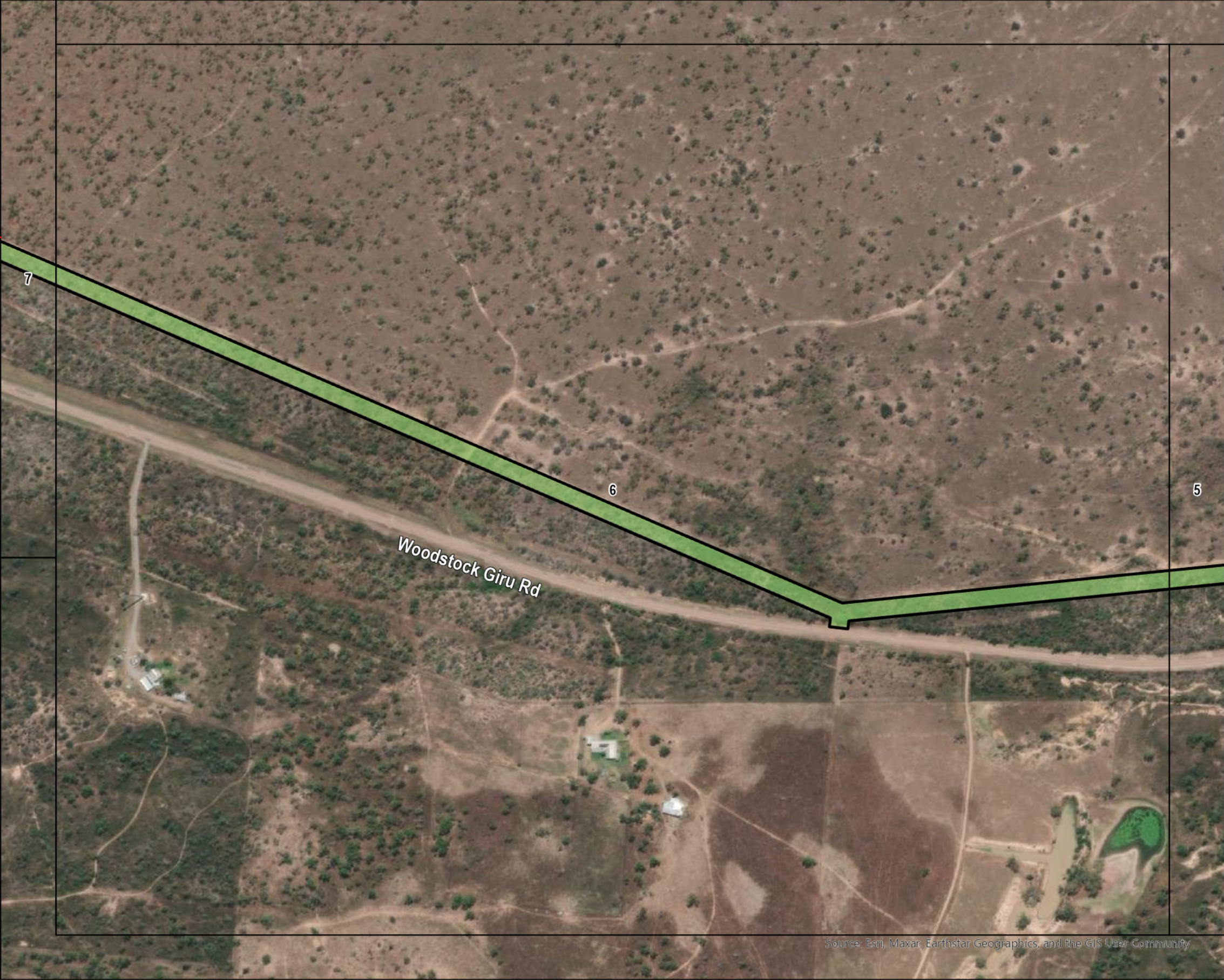
**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

Foraging

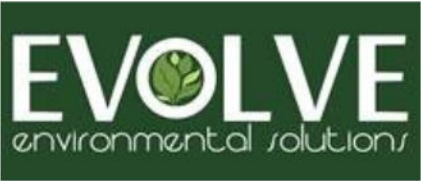


Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator

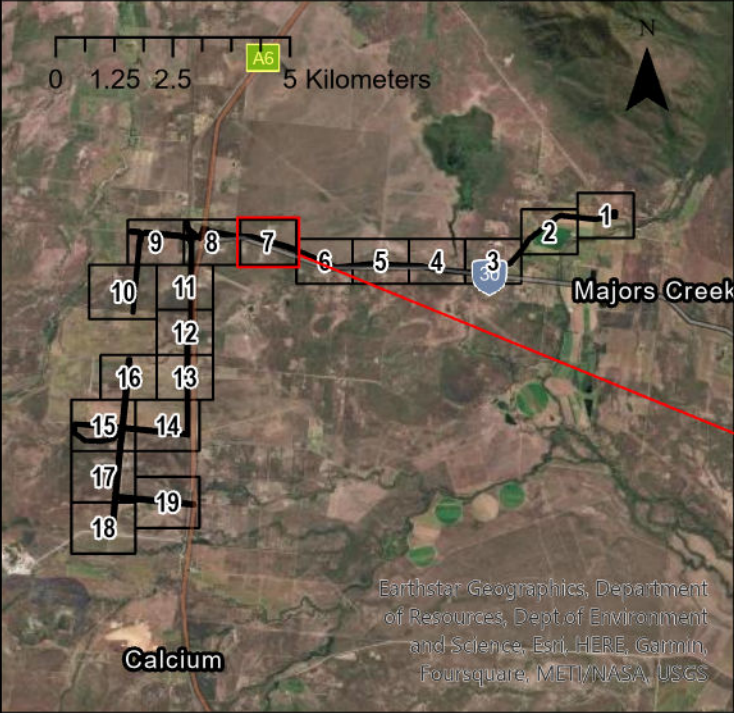


| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

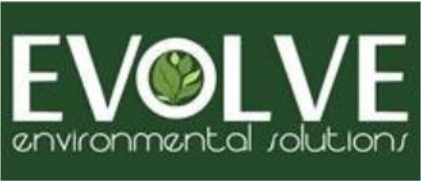
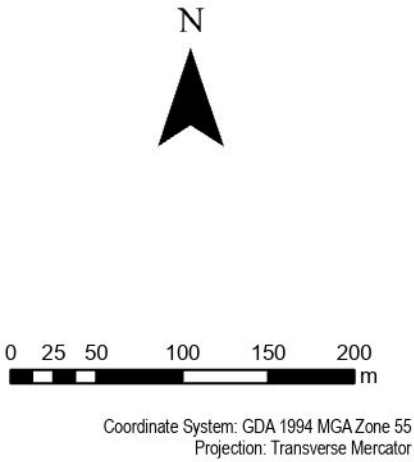
Project Area

Reference Grid (labelled with page number)

**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

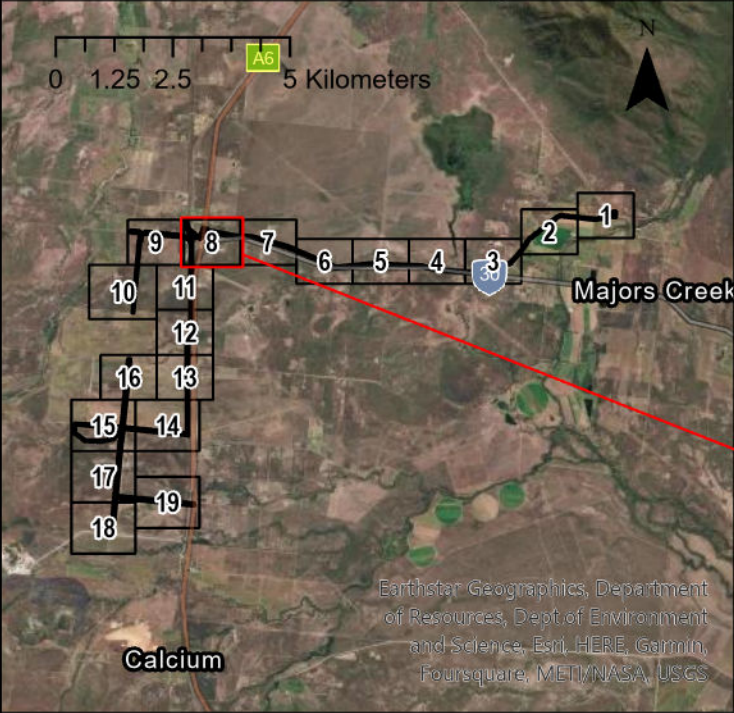
Foraging



| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site





**Legend**

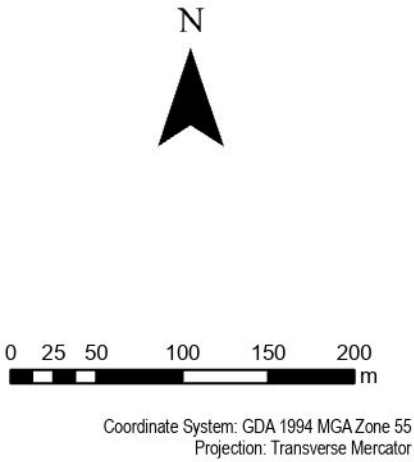
Project Area

Reference Grid (labelled with page number)

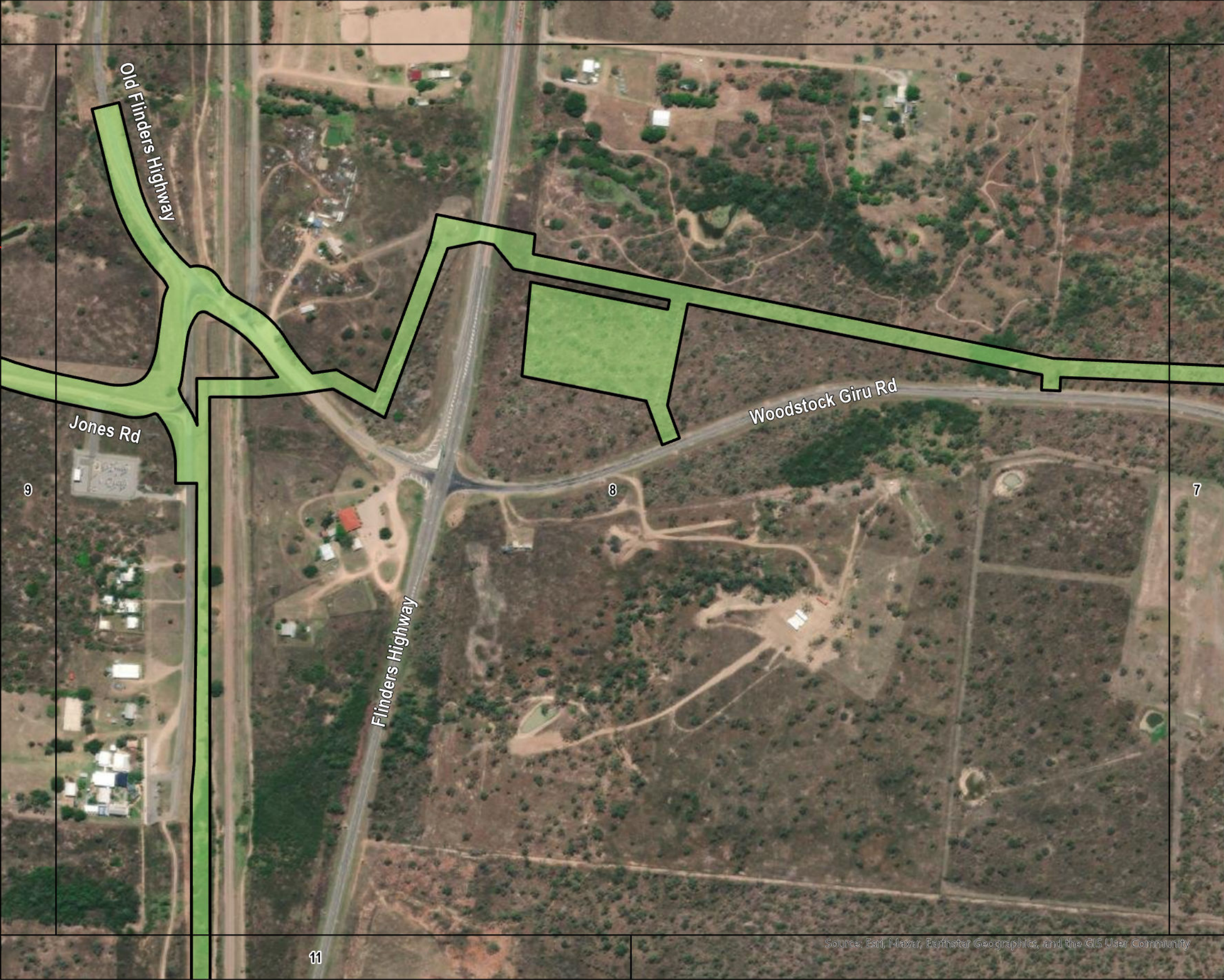
**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

Foraging

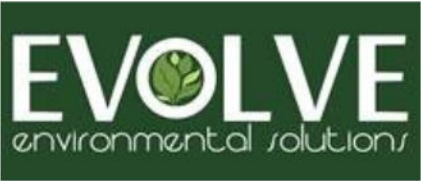


Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator

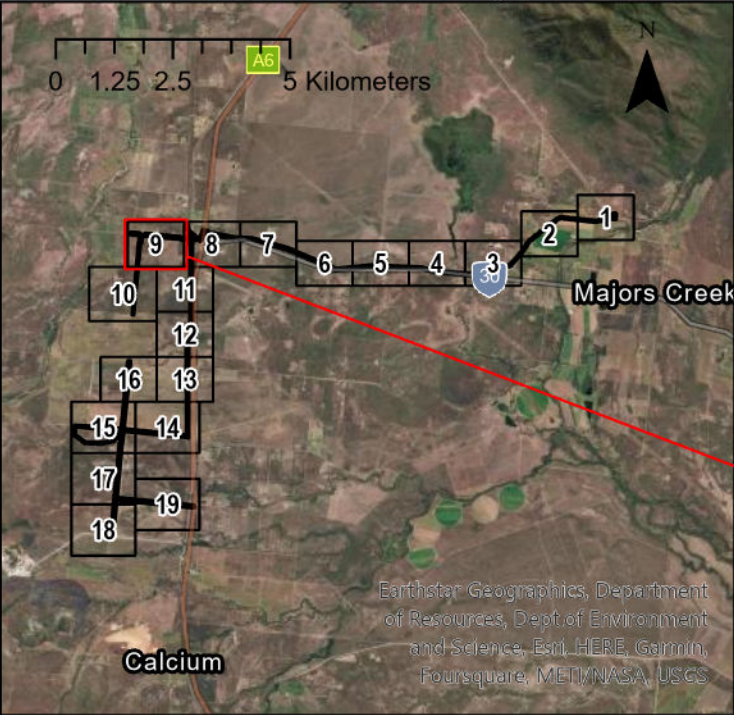


| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

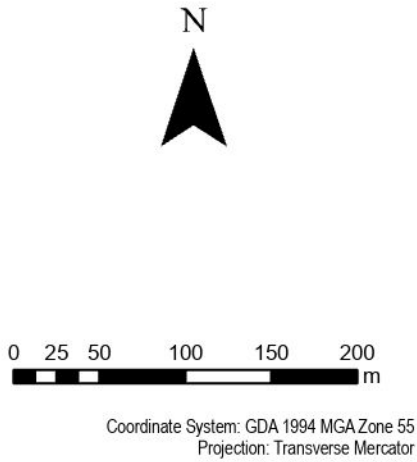
Project Area

Reference Grid (labelled with page number)

**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

Foraging

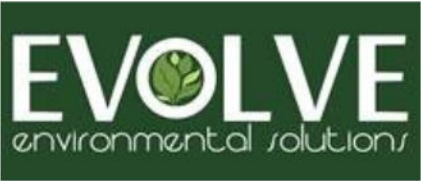


Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator

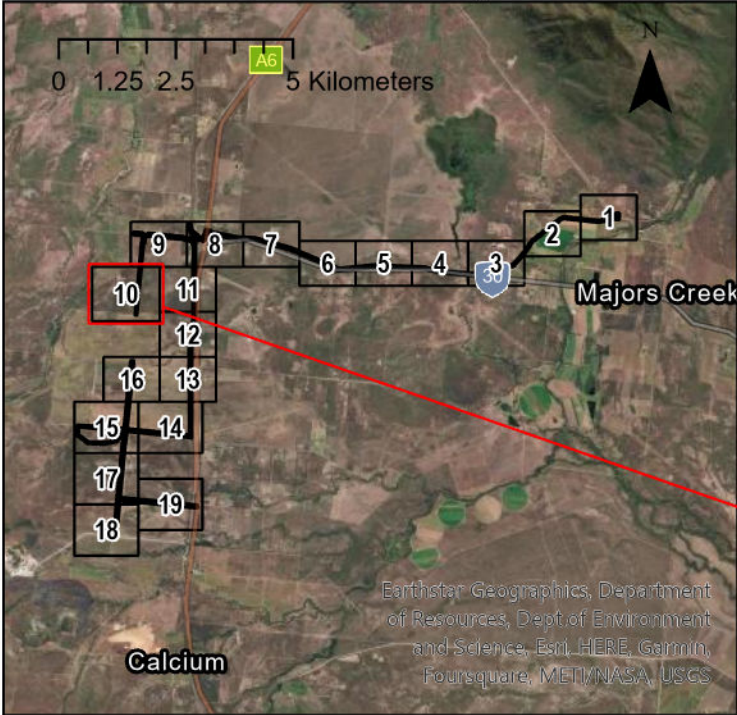


| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

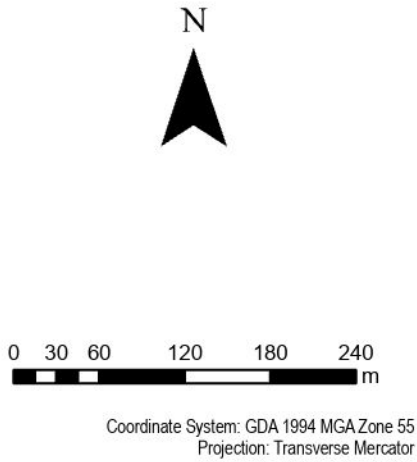
Project Area

Reference Grid (labelled with page number)

**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

Foraging

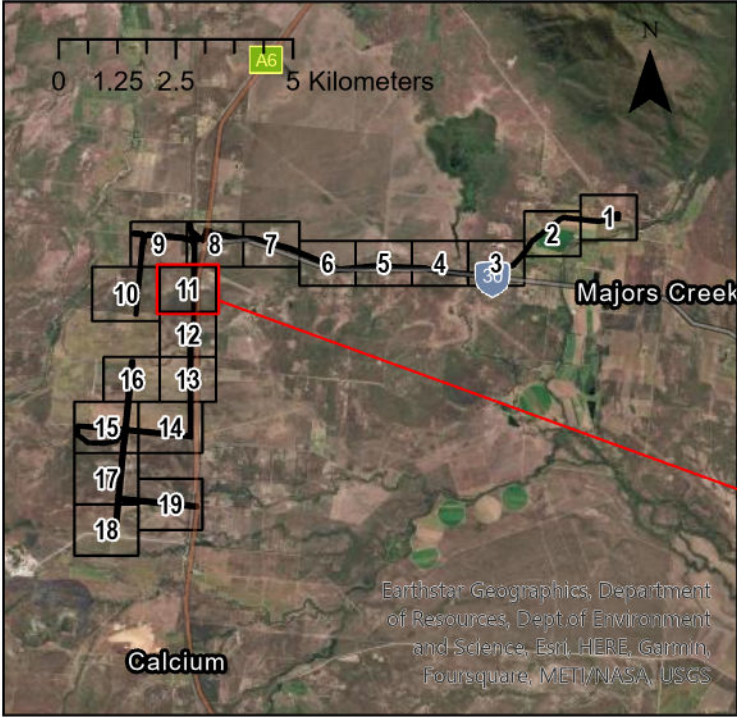


| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

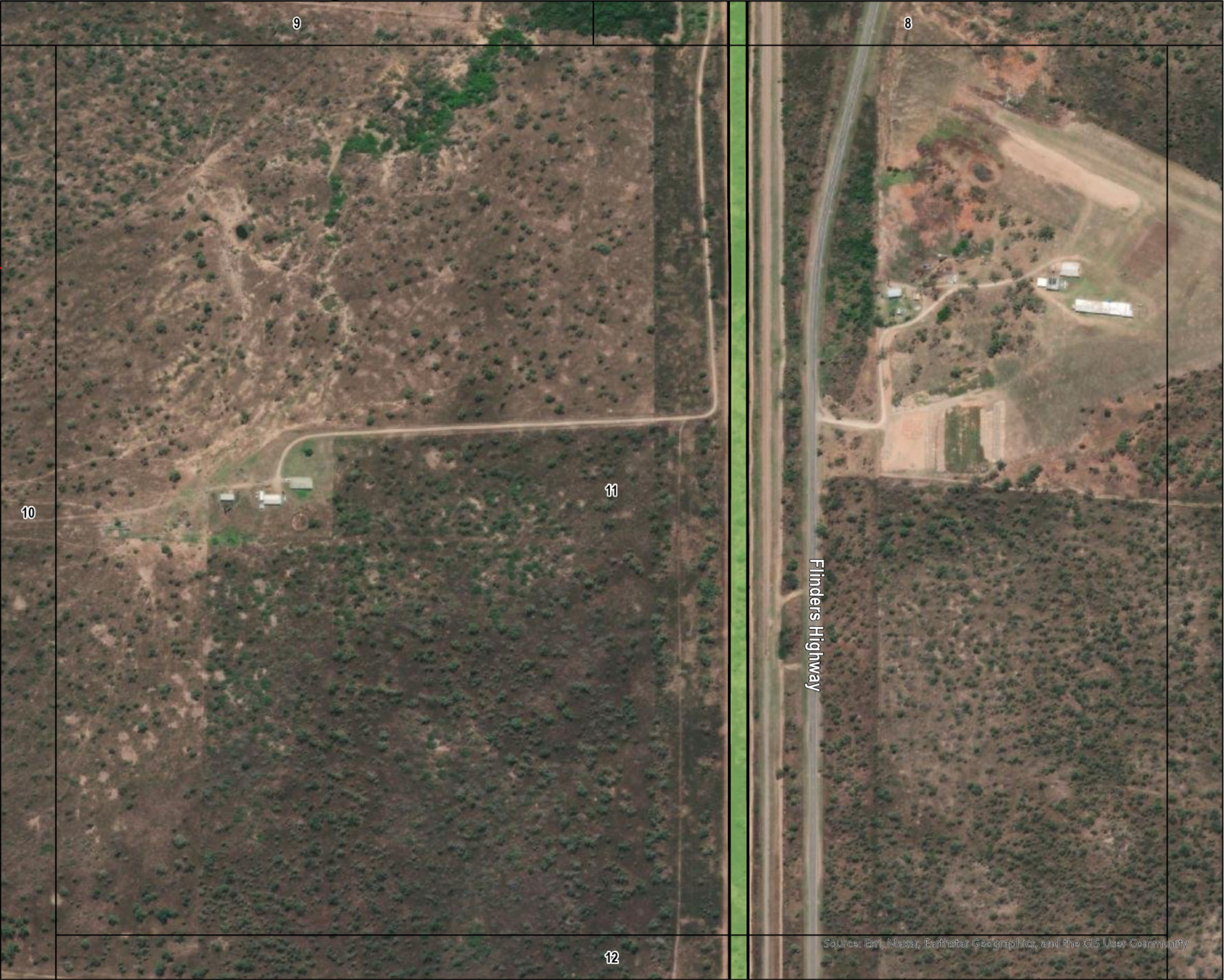
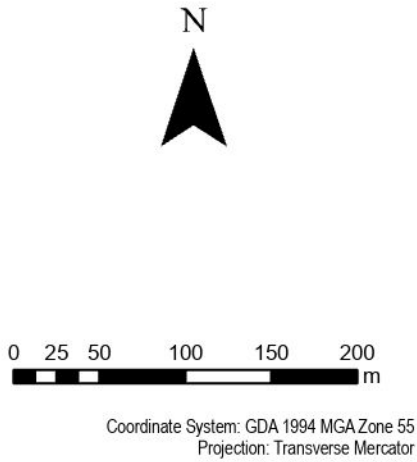
Project Area

Reference Grid (labelled with page number)

**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

Foraging

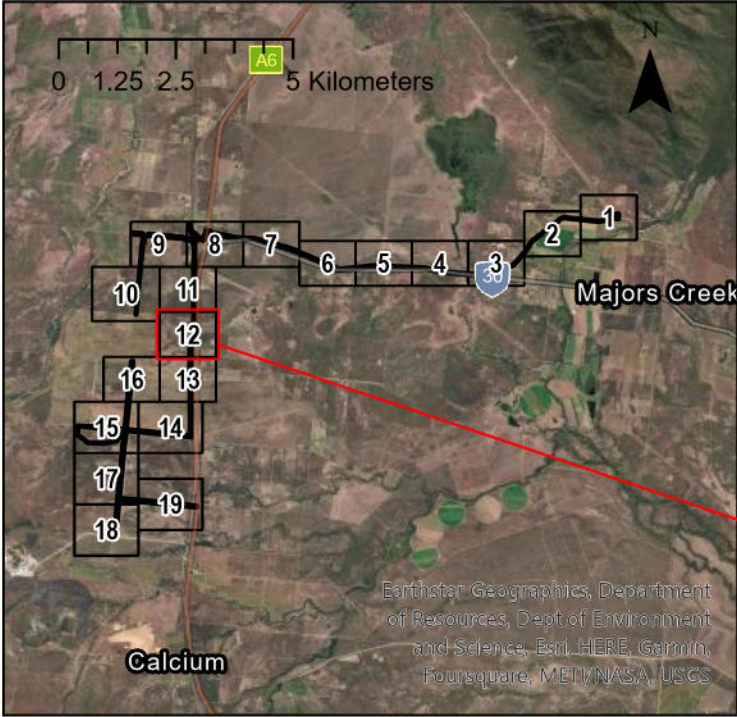


| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

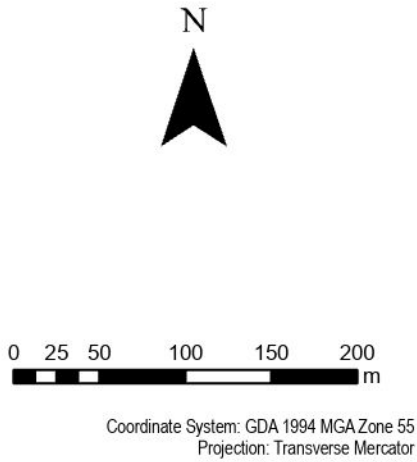
Project Area

Reference Grid (labelled with page number)

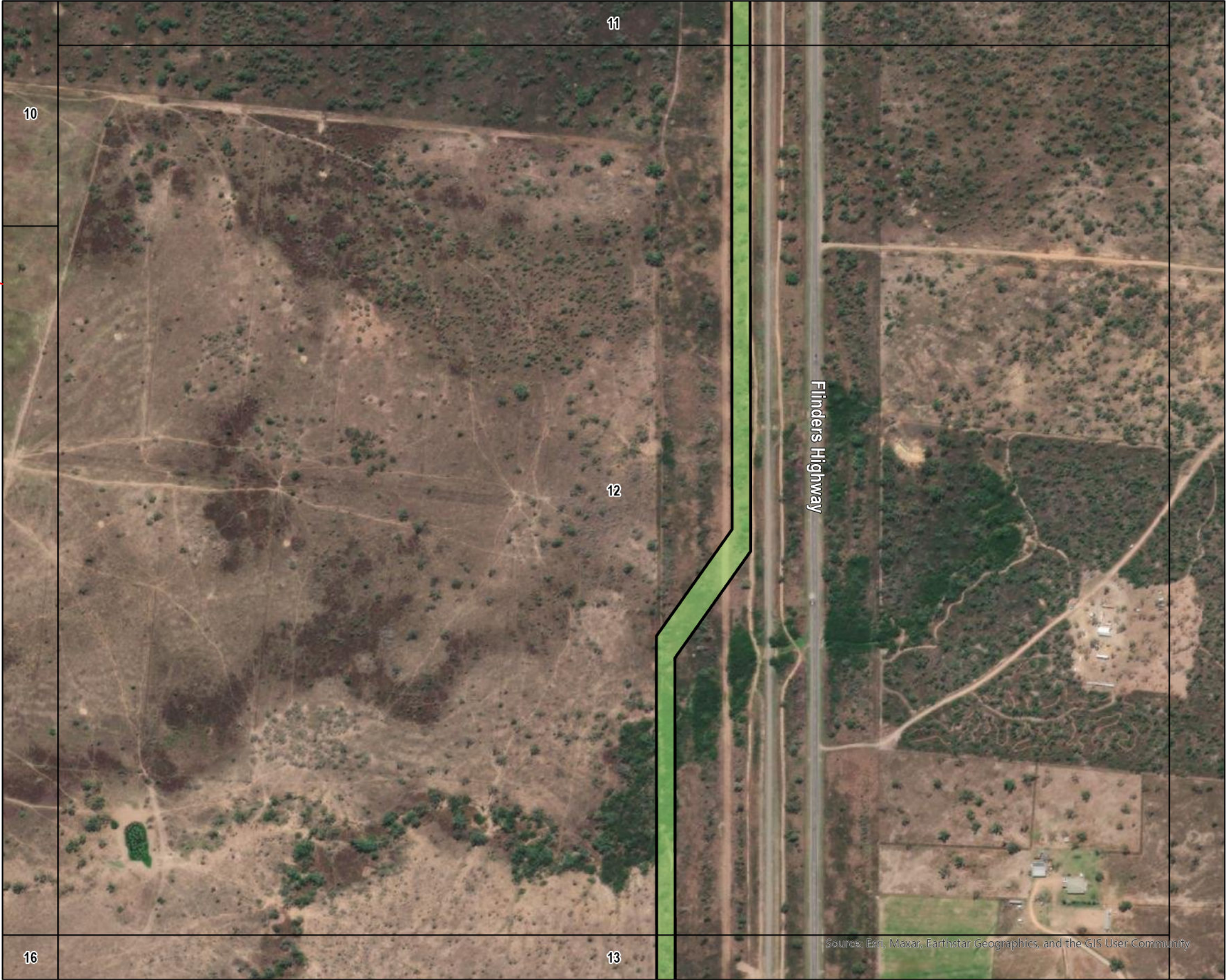
**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

Foraging



Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator



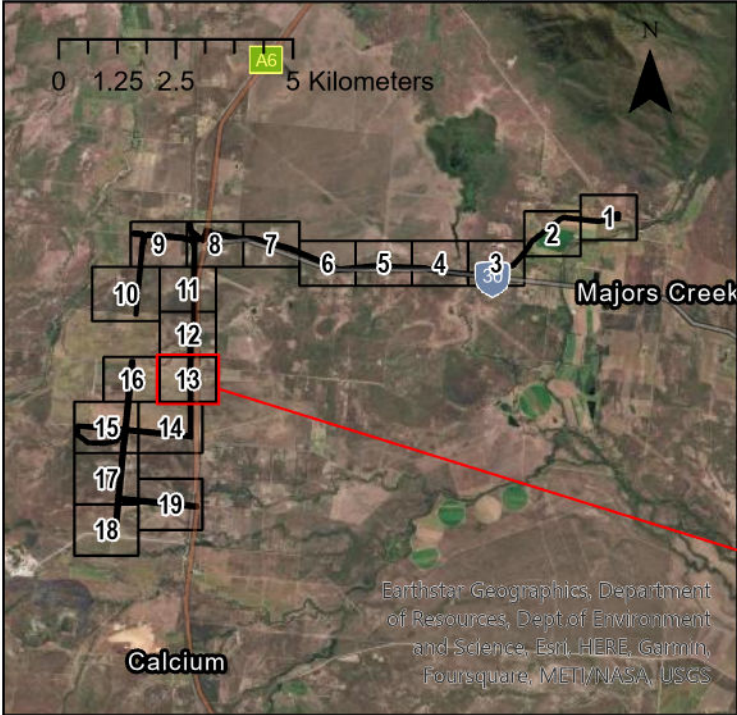
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

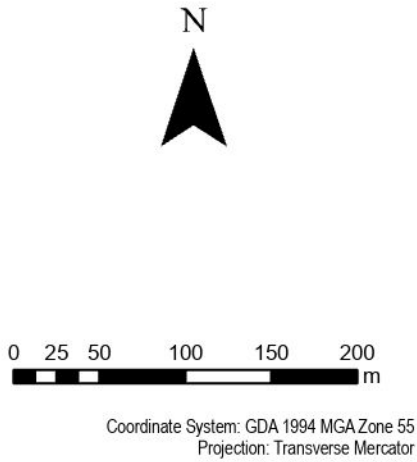
Project Area

Reference Grid (labelled with page number)

**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

Foraging



Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator

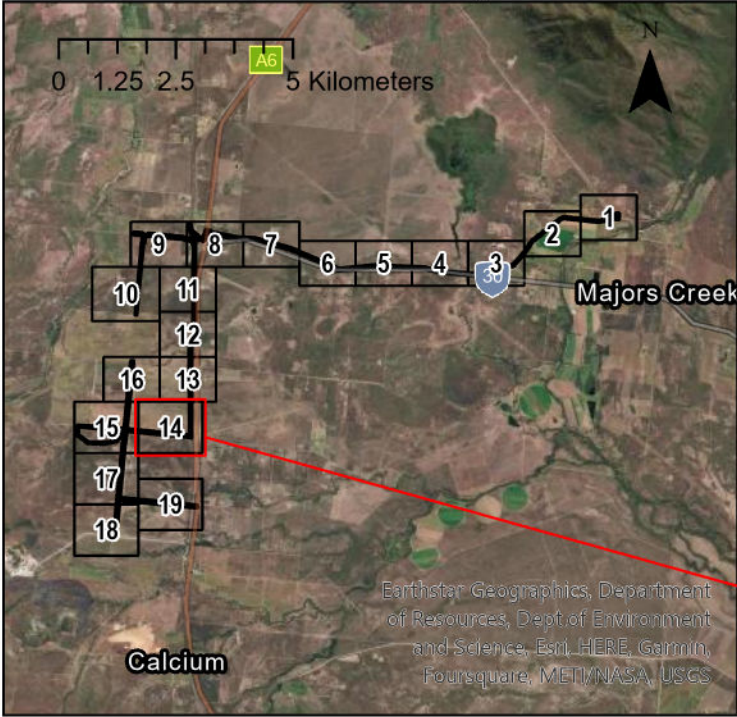


| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

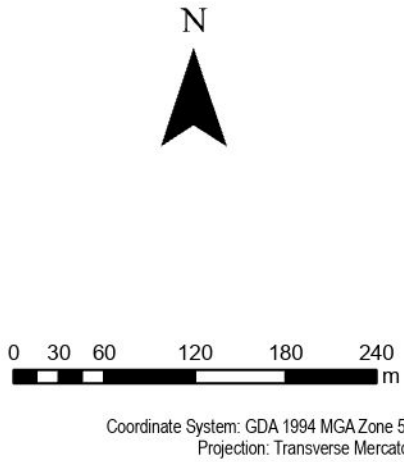
Project Area

Reference Grid (labelled with page number)

**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

Foraging



Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator



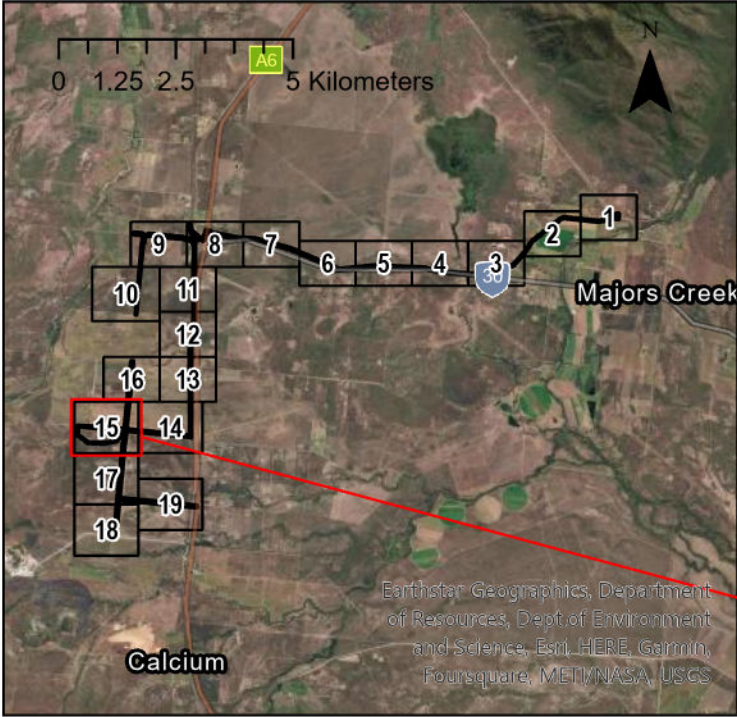
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

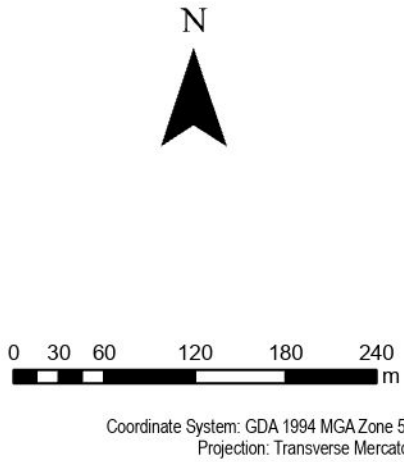
Project Area

Reference Grid (labelled with page number)

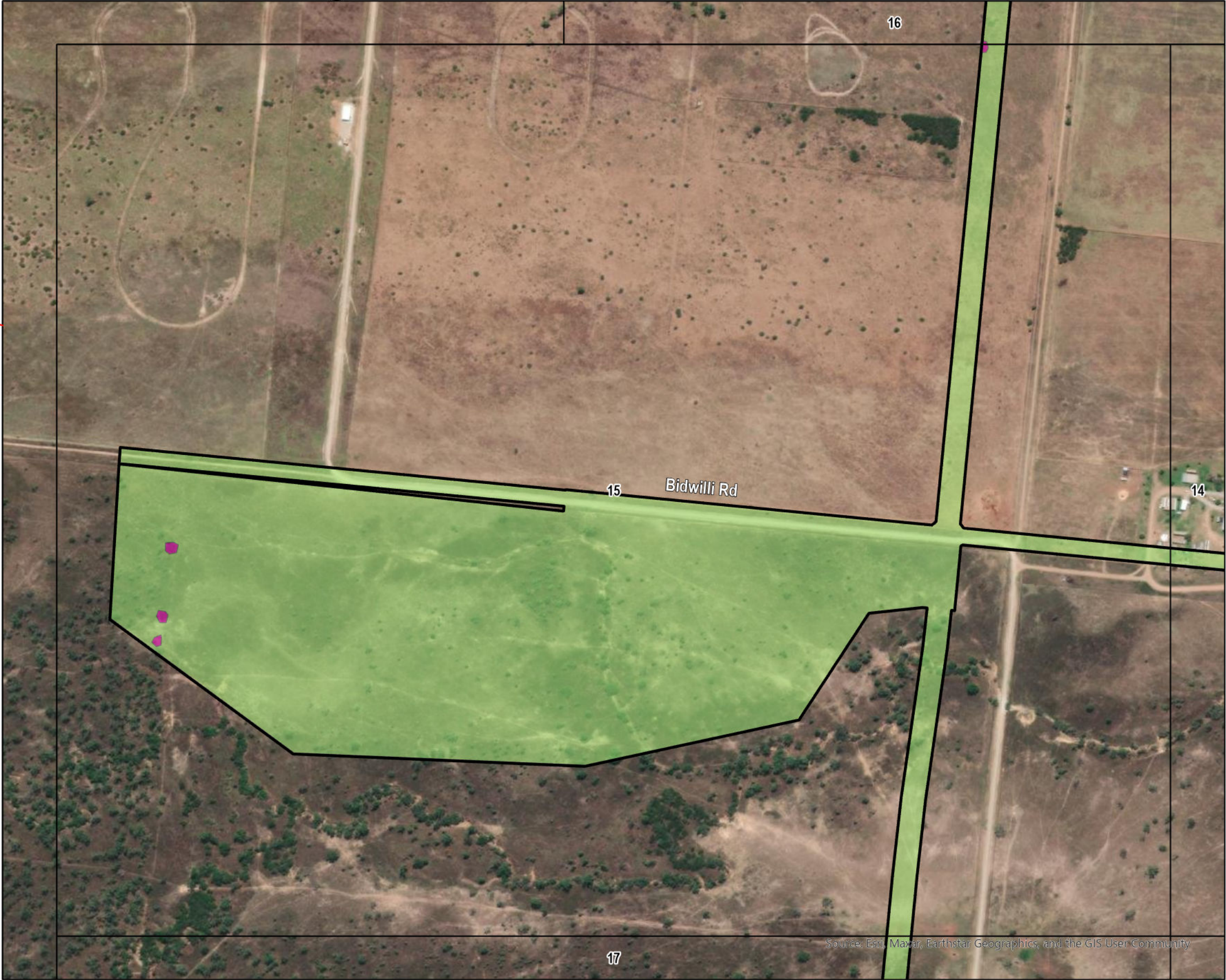
**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

Foraging



Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator

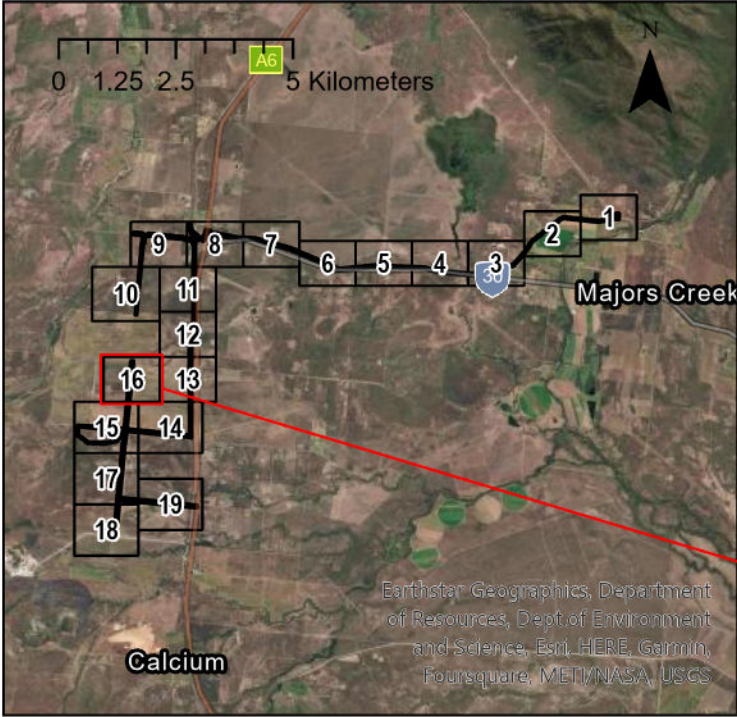


| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

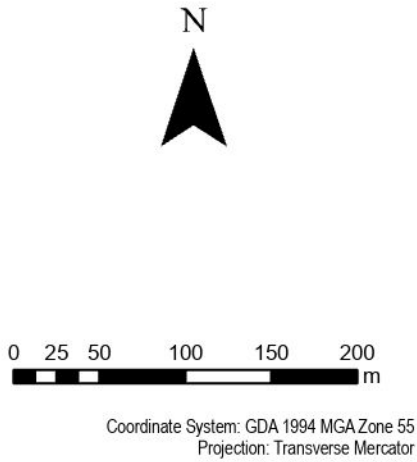
Project Area

Reference Grid (labelled with page number)

**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

Foraging



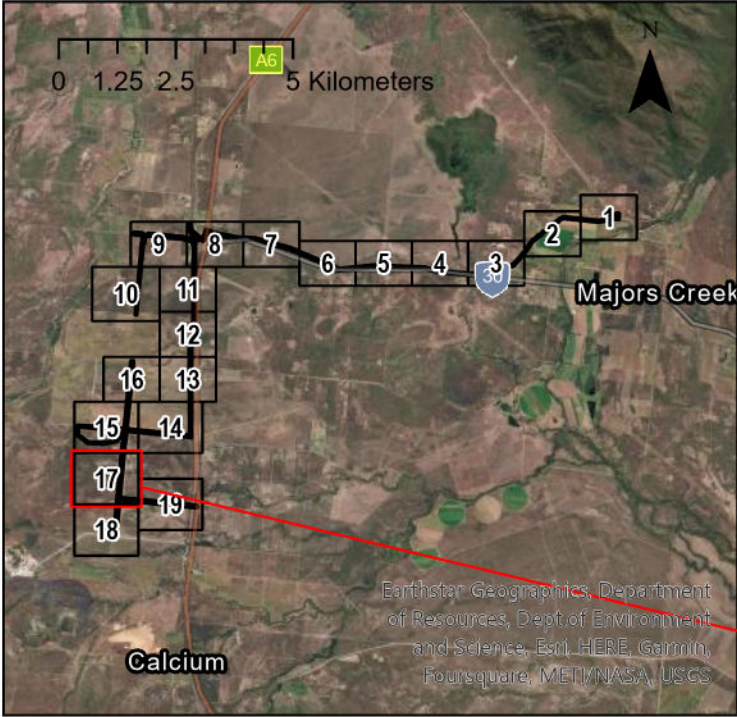
Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator



| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site





**Legend**

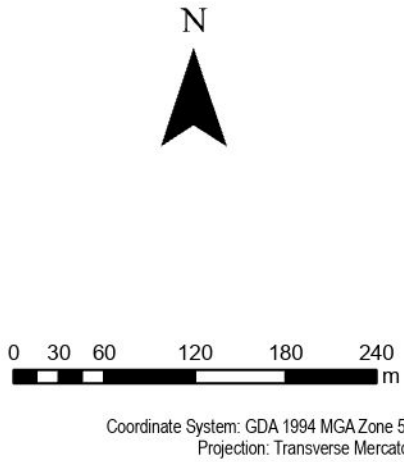
Project Area

Reference Grid (labelled with page number)

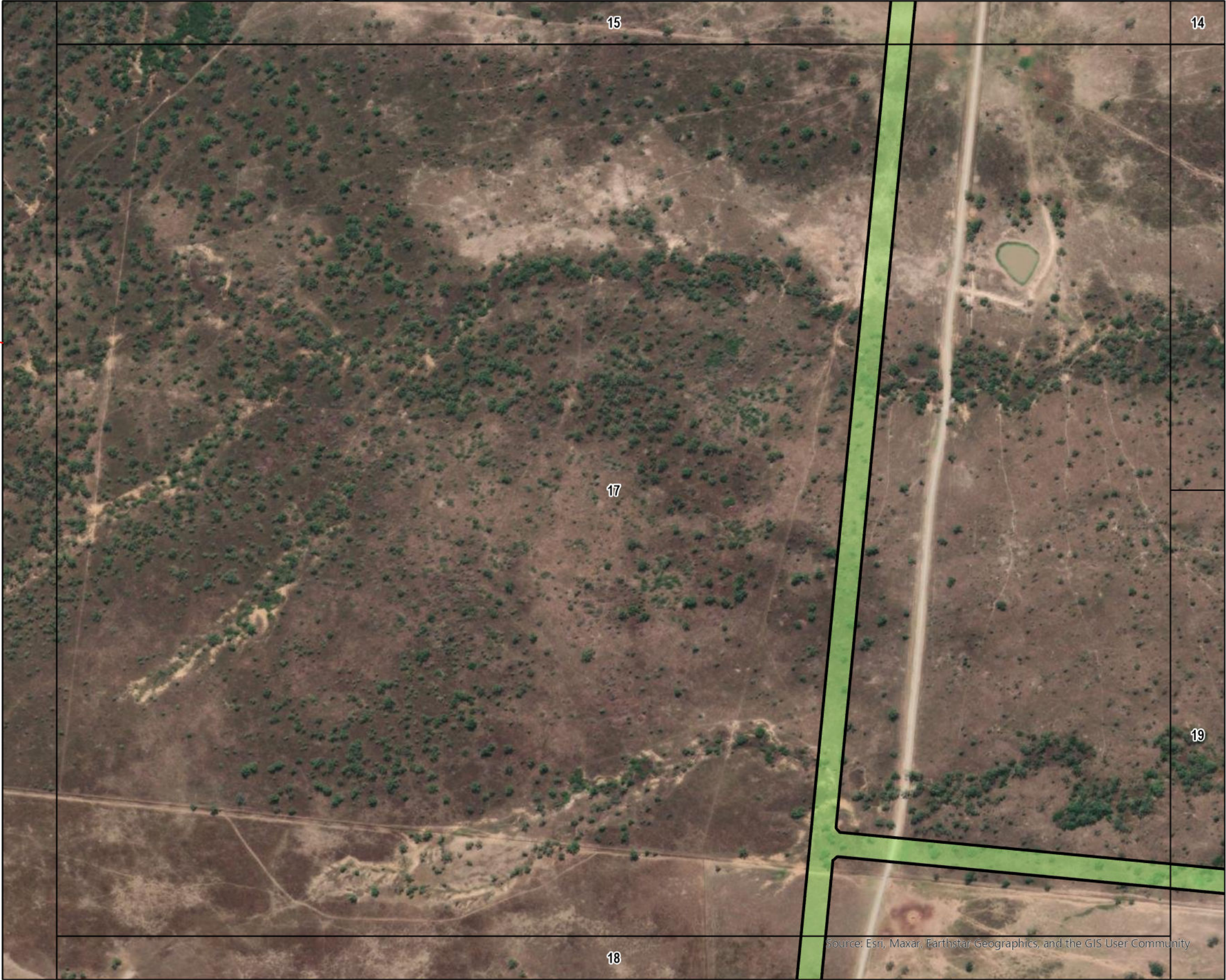
**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

Foraging



Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator



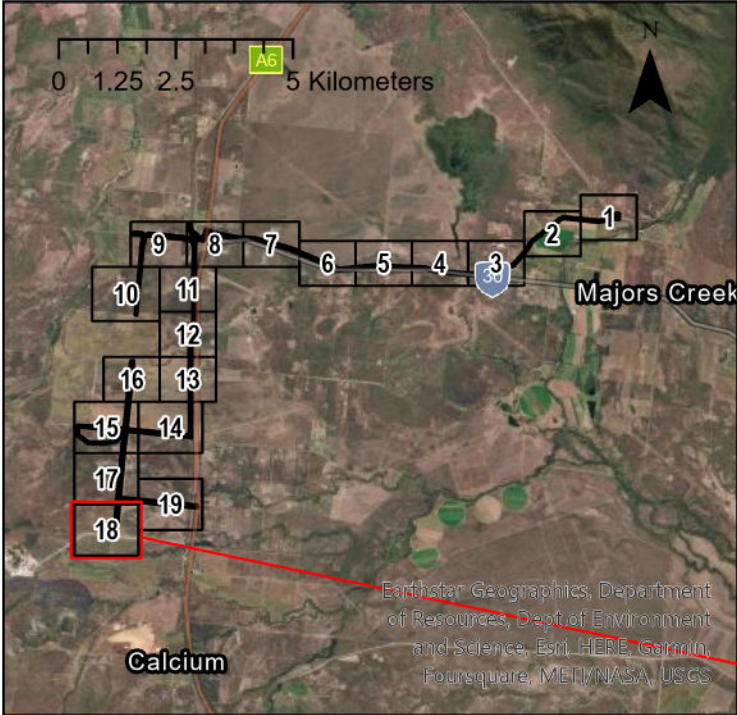
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site







**Legend**

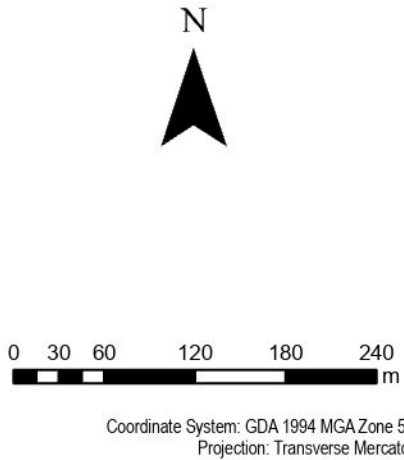
Project Area

Reference Grid (labelled with page number)

**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

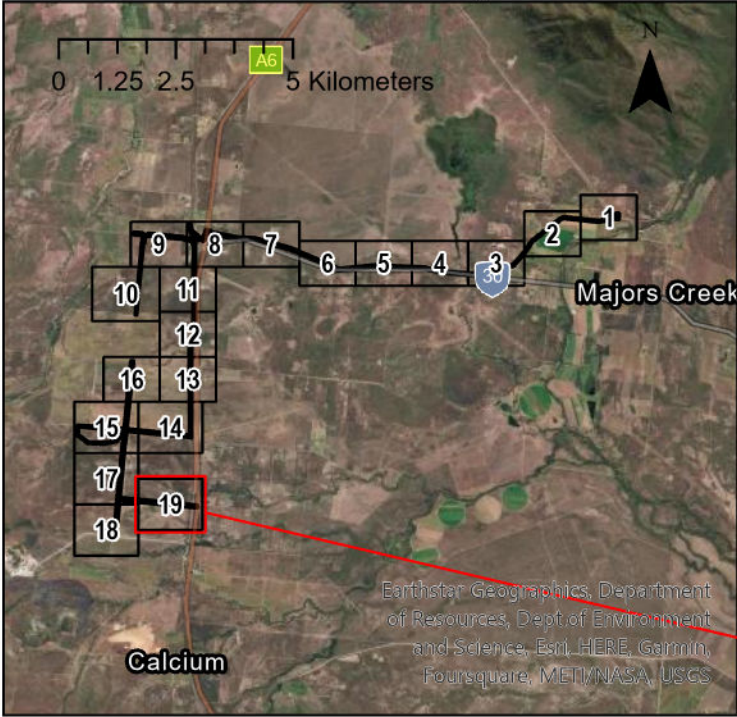
Foraging



| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site





**Legend**

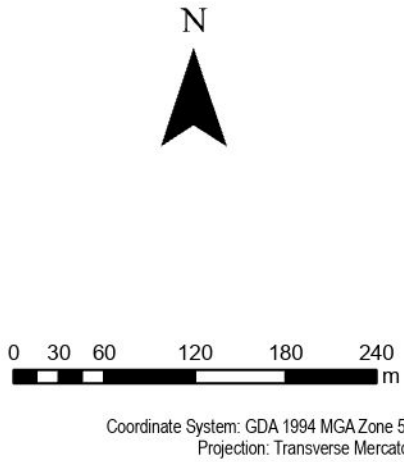
Project Area

Reference Grid (labelled with page number)

**Bare-rumped Sheathtail Bat habitat mapping (Evolve)**

Roosting

Foraging



Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator



| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| B     | 16/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Impact Site

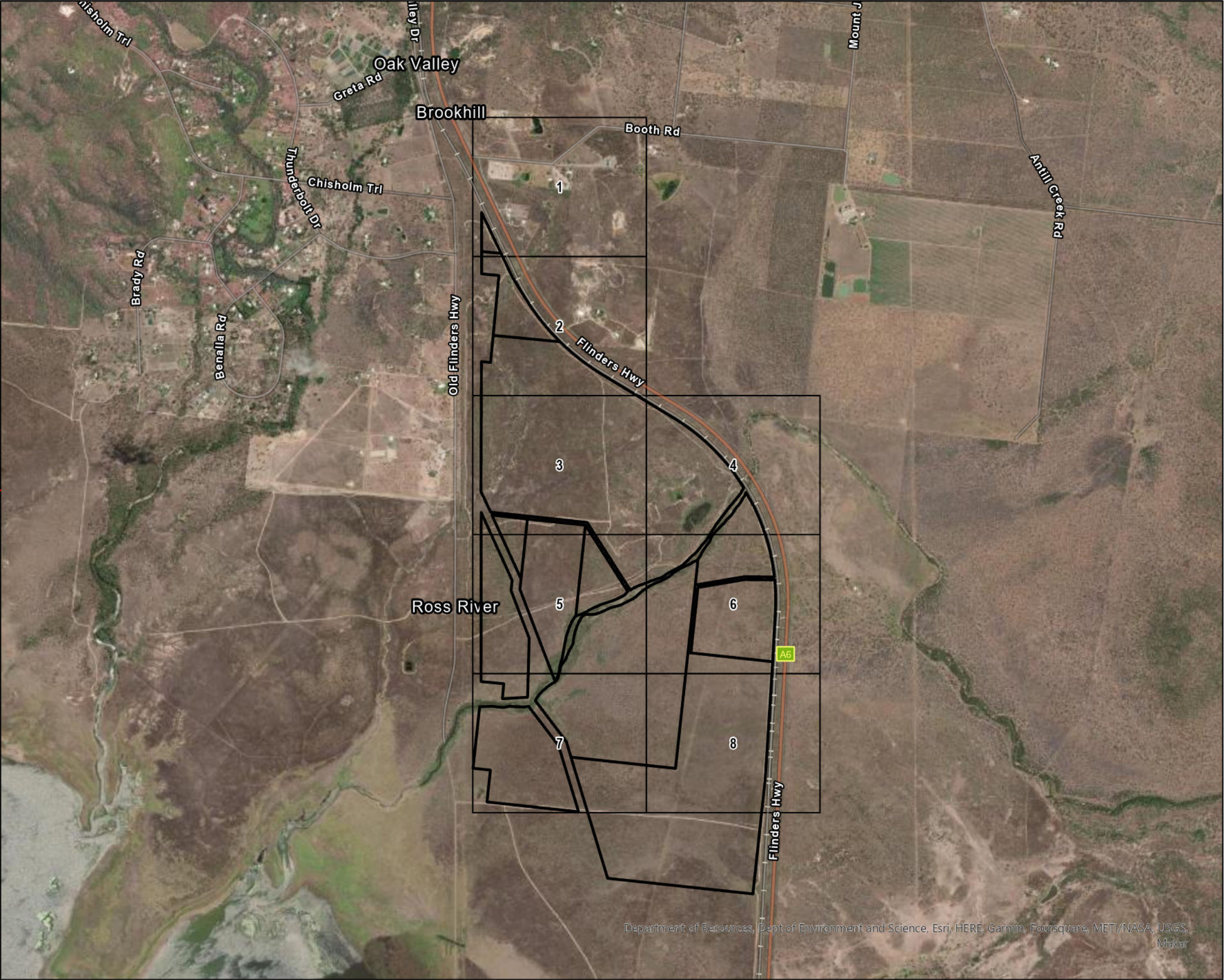
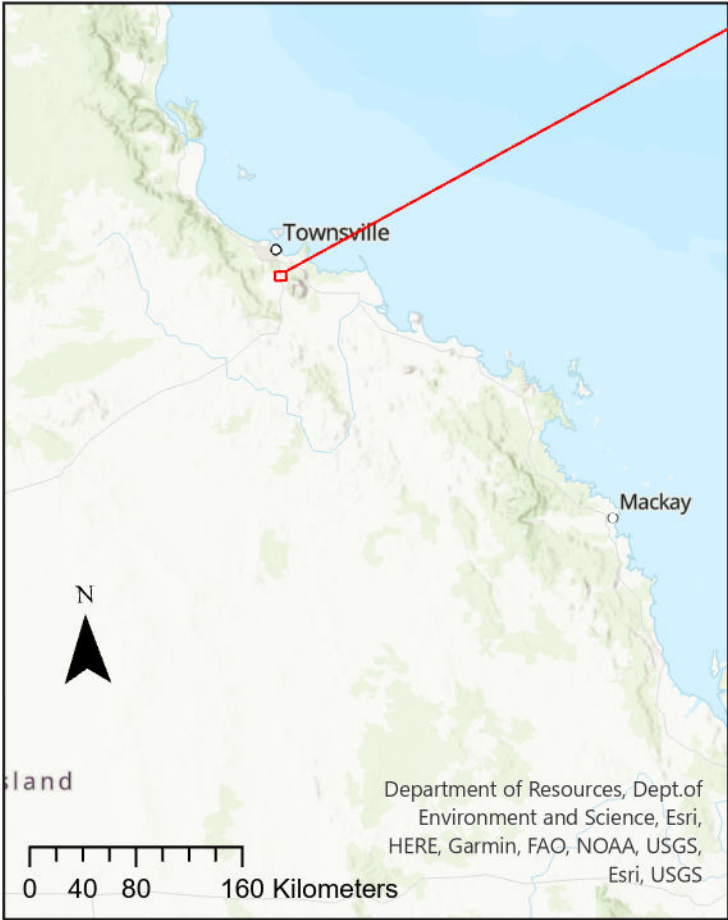
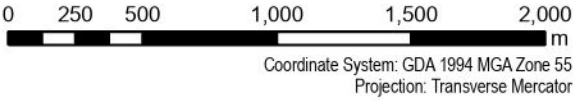




# Plan 1. Index

### Legend

-  Lots Available to Offset
-  Grid\_Index



| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| A     | 14/11/2023 | Preliminary | RH    | AH      |

## Landsdown Eco Industrial Precinct - Proposed Offset Site



## Attachment E- Offset site for Black-throated Finch



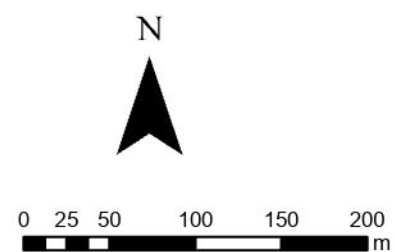
Grid\_Index

## Name

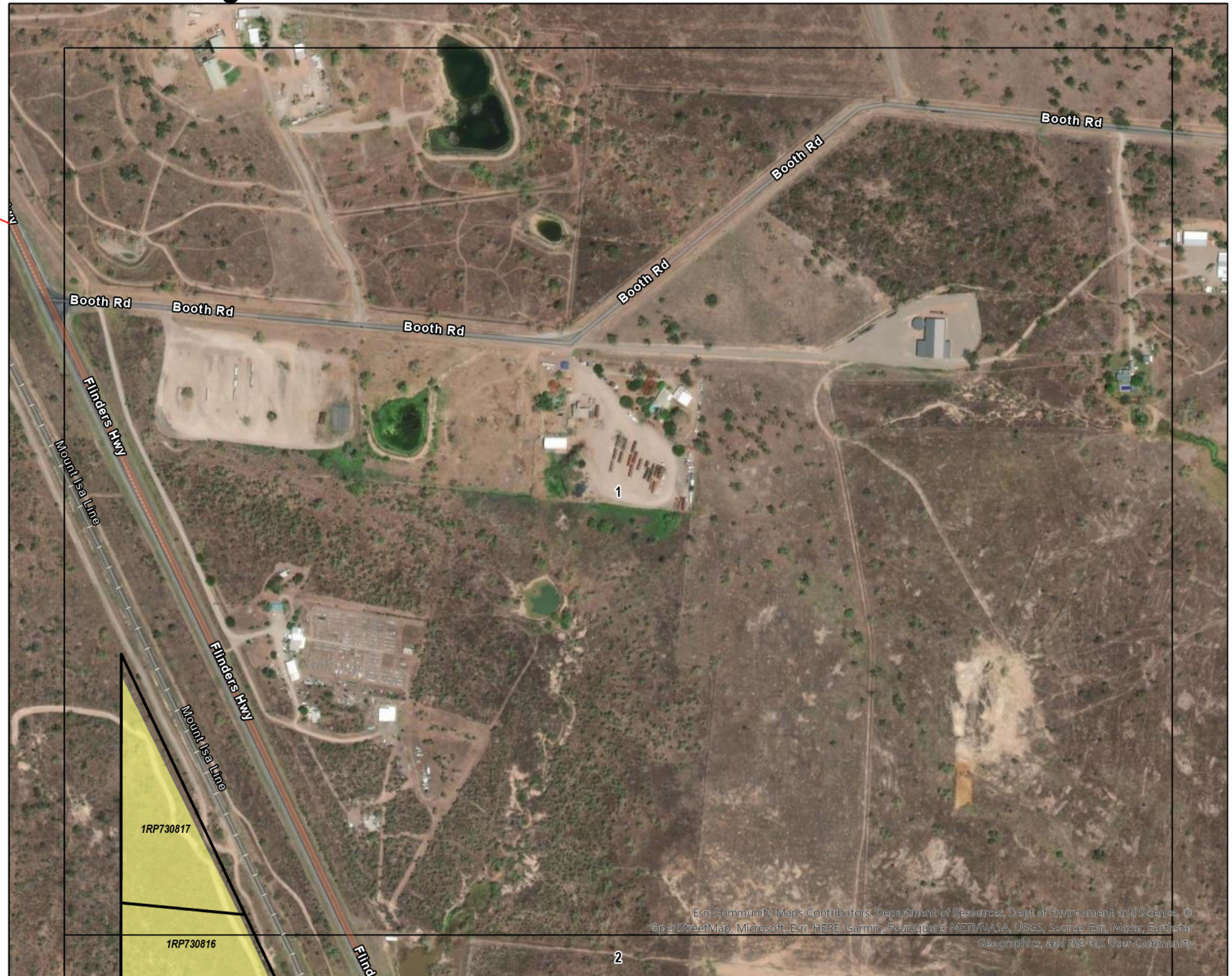
 MZ1 (205.2 HA)

 MZ2 (73 HA)

 MZ3 (95 HA)



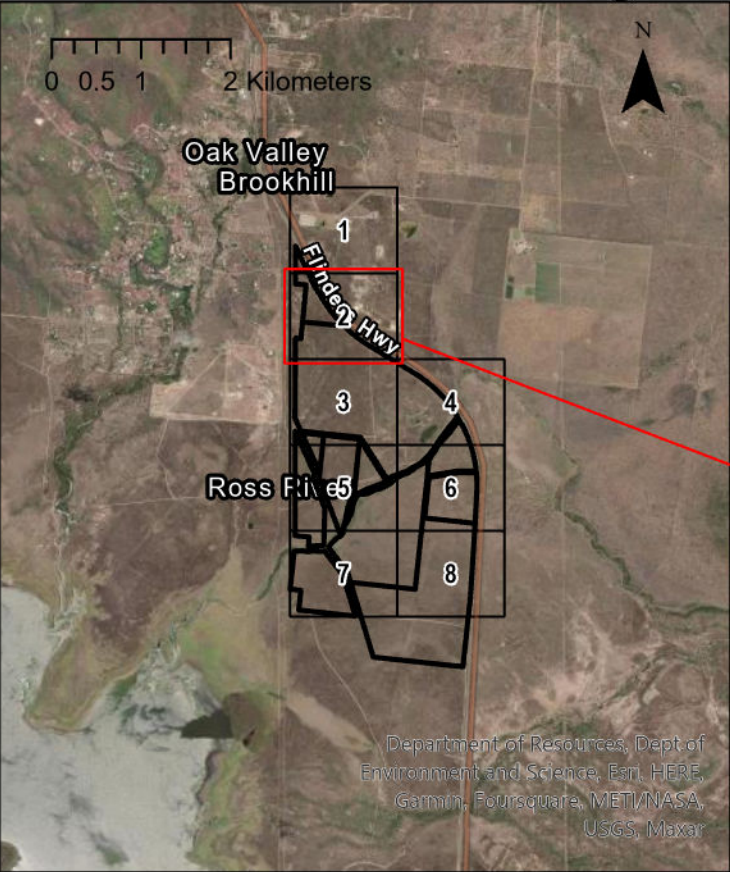
Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator



| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| A     | 14/11/2023 | Preliminary | RH    | AH      |

Date: 14/11/2023  
Offset Site Analysis





**Legend**

Lots Available to Offset

Grid\_Index

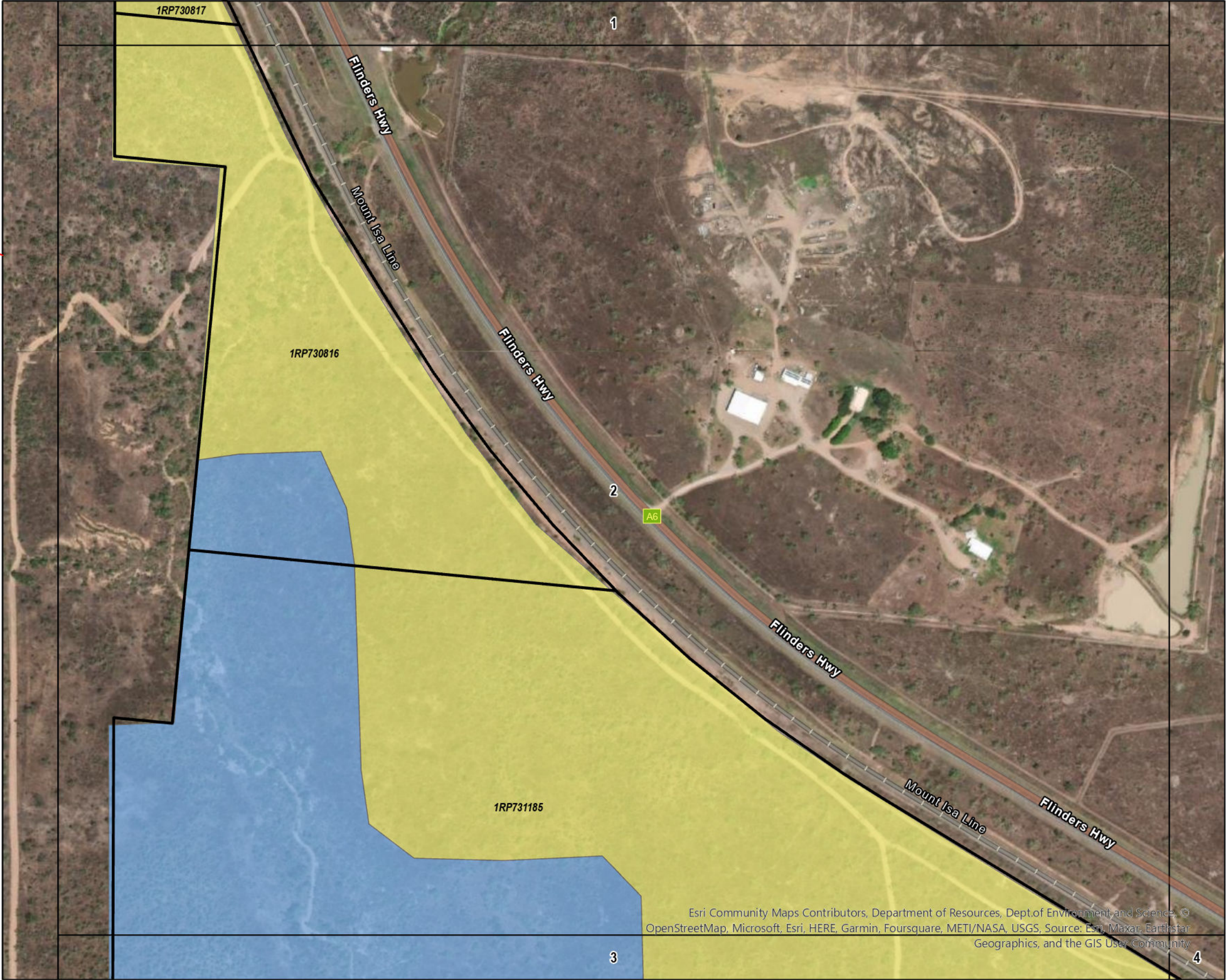
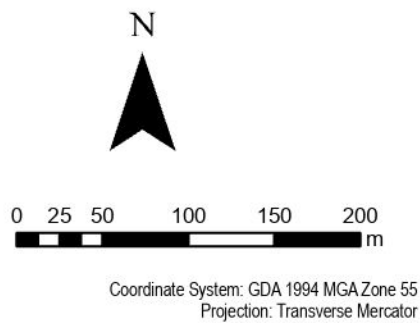
**Offset Management Zones**

**Name**

MZ1 (205.2 HA)

MZ2 (73 HA)

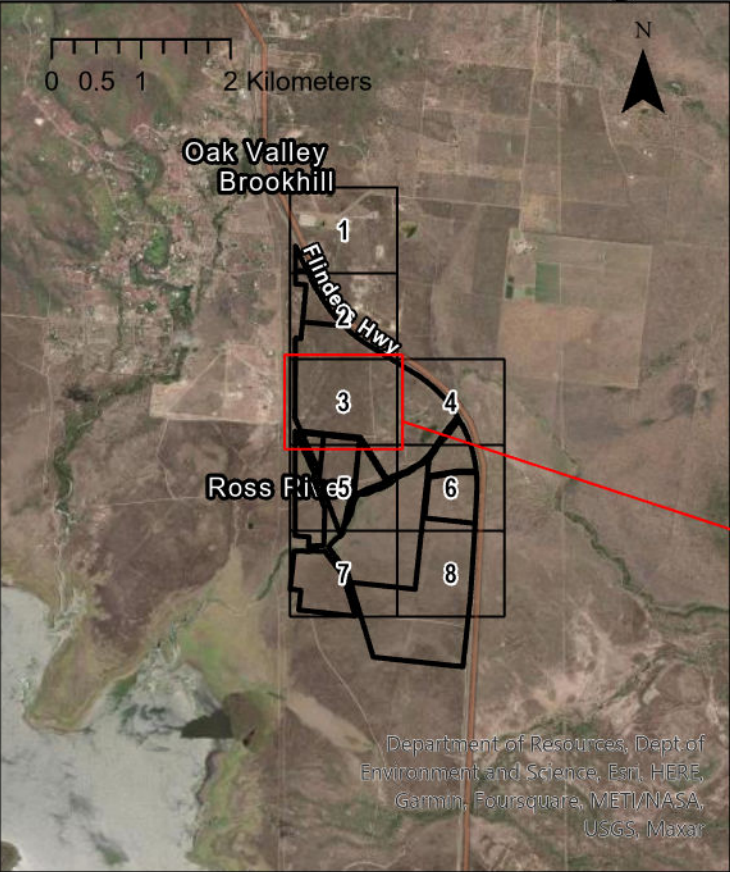
MZ3 (95 HA)



| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| A     | 14/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Offset Site





**Legend**

Lots Available to Offset

Grid\_Index

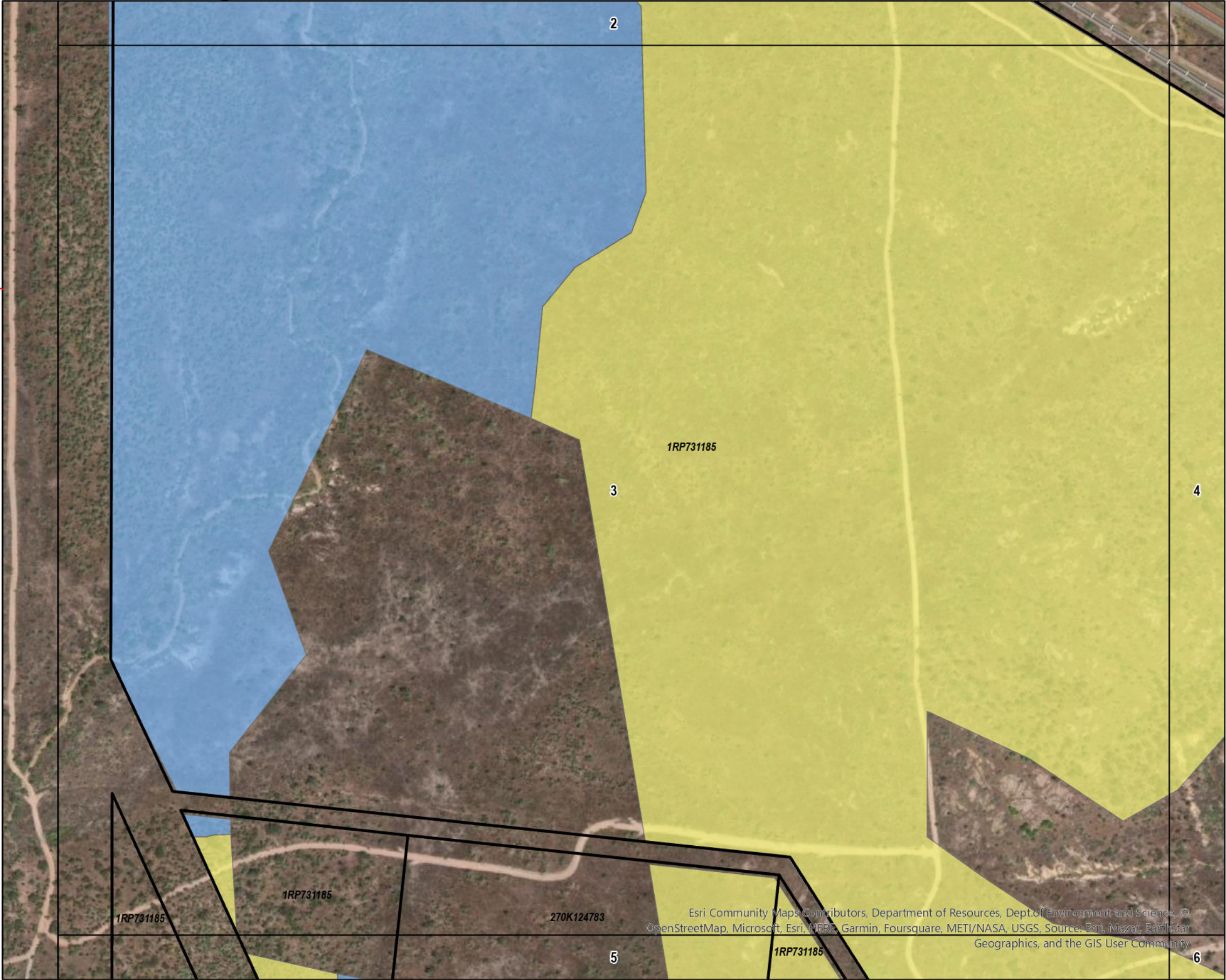
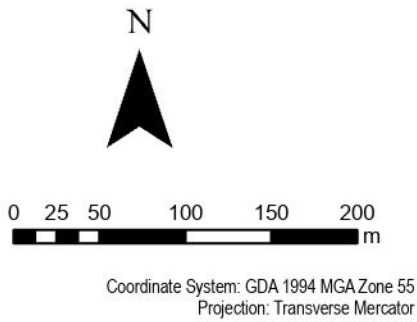
**Offset Management Zones**

**Name**

MZ1 (205.2 HA)

MZ2 (73 HA)

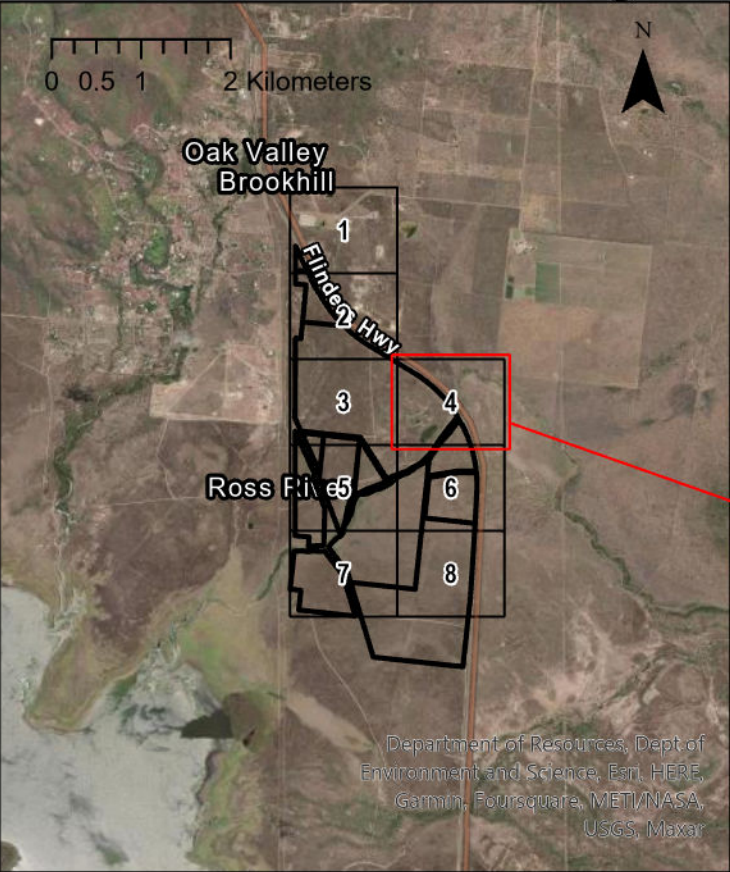
MZ3 (95 HA)



| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| A     | 14/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Offset Site





**Legend**

Lots Available to Offset

Grid\_Index

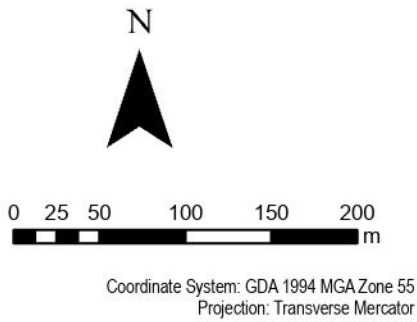
**Offset Management Zones**

**Name**

MZ1 (205.2 HA)

MZ2 (73 HA)

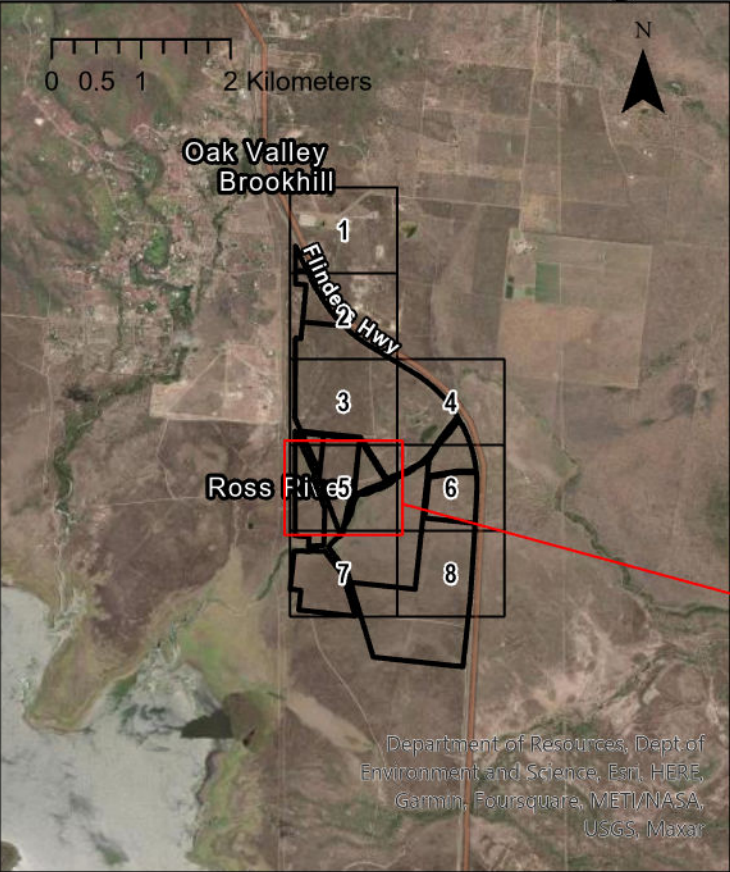
MZ3 (95 HA)



| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| A     | 14/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Offset Site





**Legend**

Lots Available to Offset

Grid\_Index

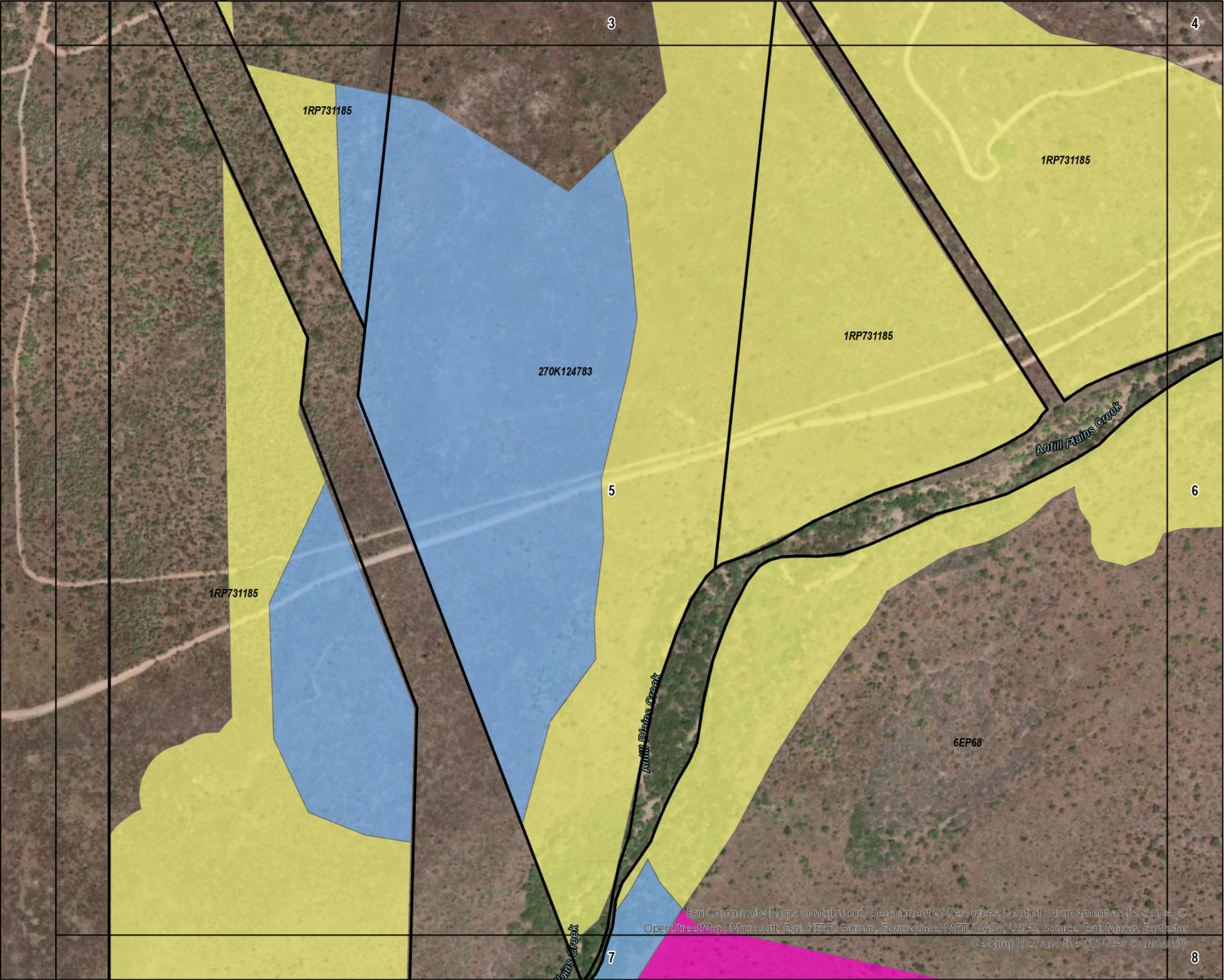
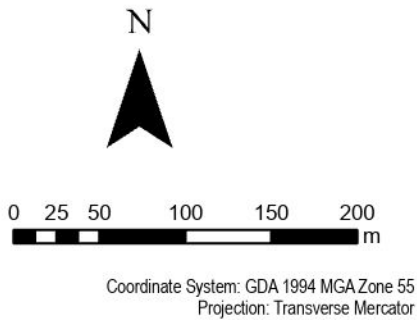
**Offset Management Zones**

**Name**

MZ1 (205.2 HA)

MZ2 (73 HA)

MZ3 (95 HA)



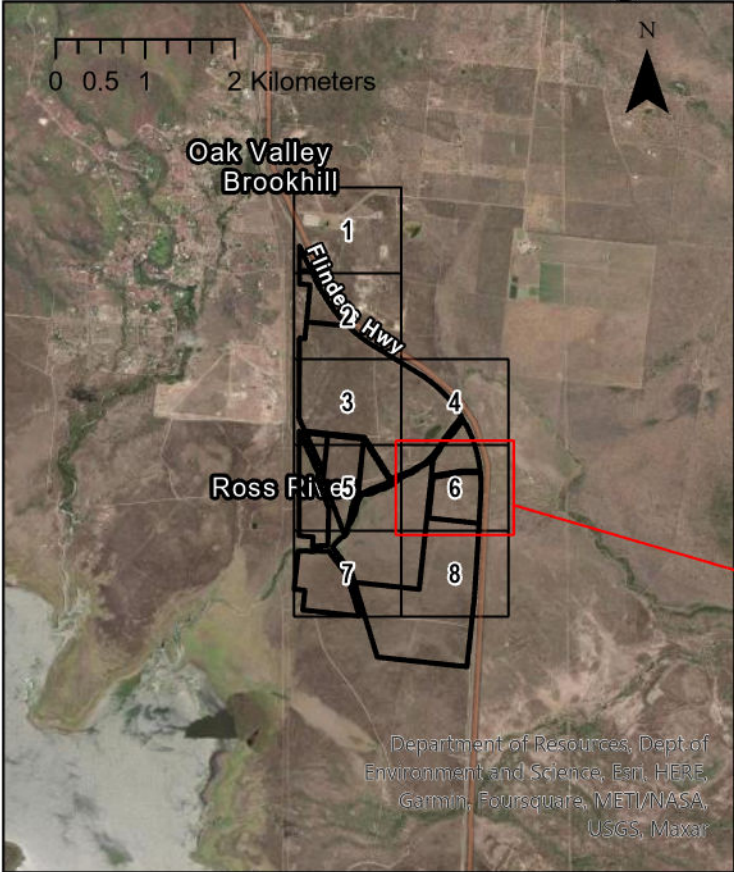
| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| A     | 14/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Offset Site



# Plan 2. Offset Management Zones - Page 6

Attachment E- Offset site for Black-throated Finch



**Legend**

Lots Available to Offset

Grid\_Index

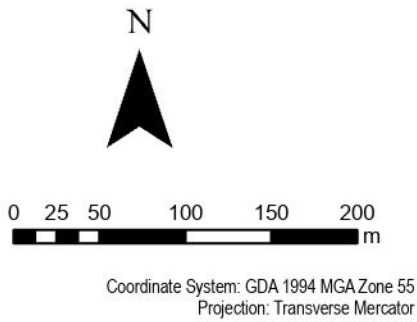
**Offset Management Zones**

**Name**

MZ1 (205.2 HA)

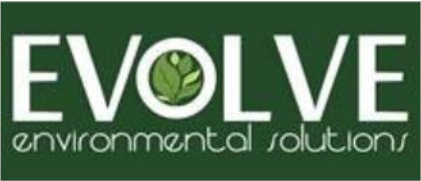
MZ2 (73 HA)

MZ3 (95 HA)



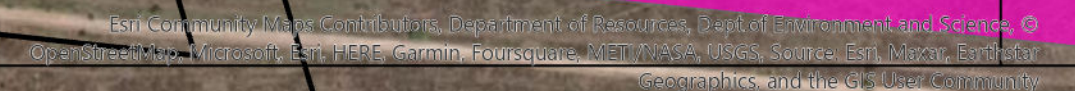
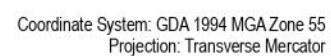
| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| A     | 14/11/2023 | Preliminary | RH    | AH      |

## Landsdown Eco Industrial Precinct - Proposed Offset Site



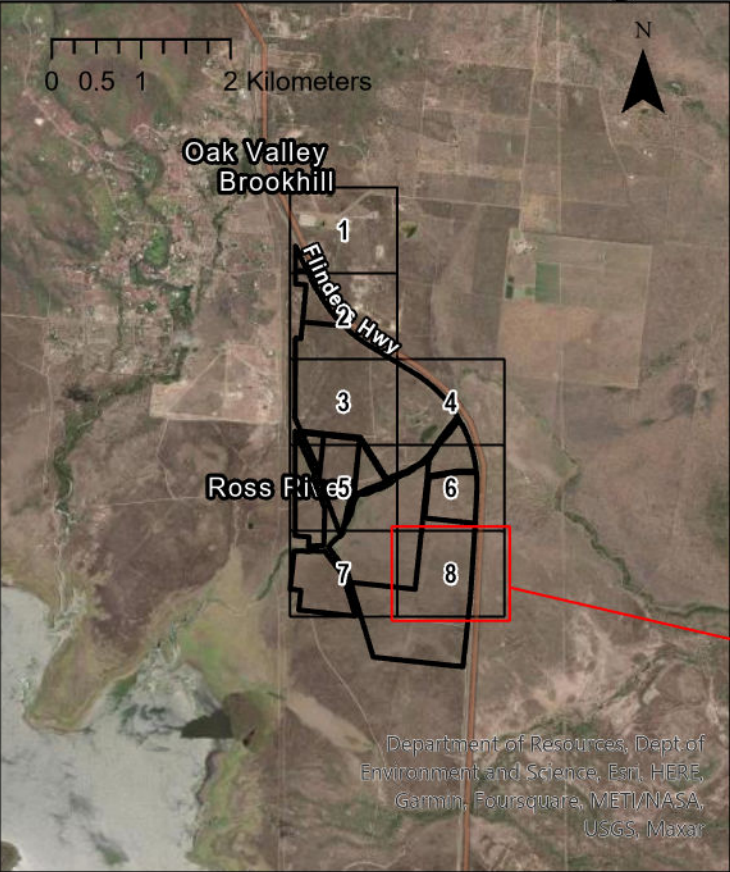


## Attachment E- Offset site for Black-throated Finch



Date: 14/11/2023  
Offset Site Analysis





**Legend**

Lots Available to Offset

Grid\_Index

**Offset Management Zones**

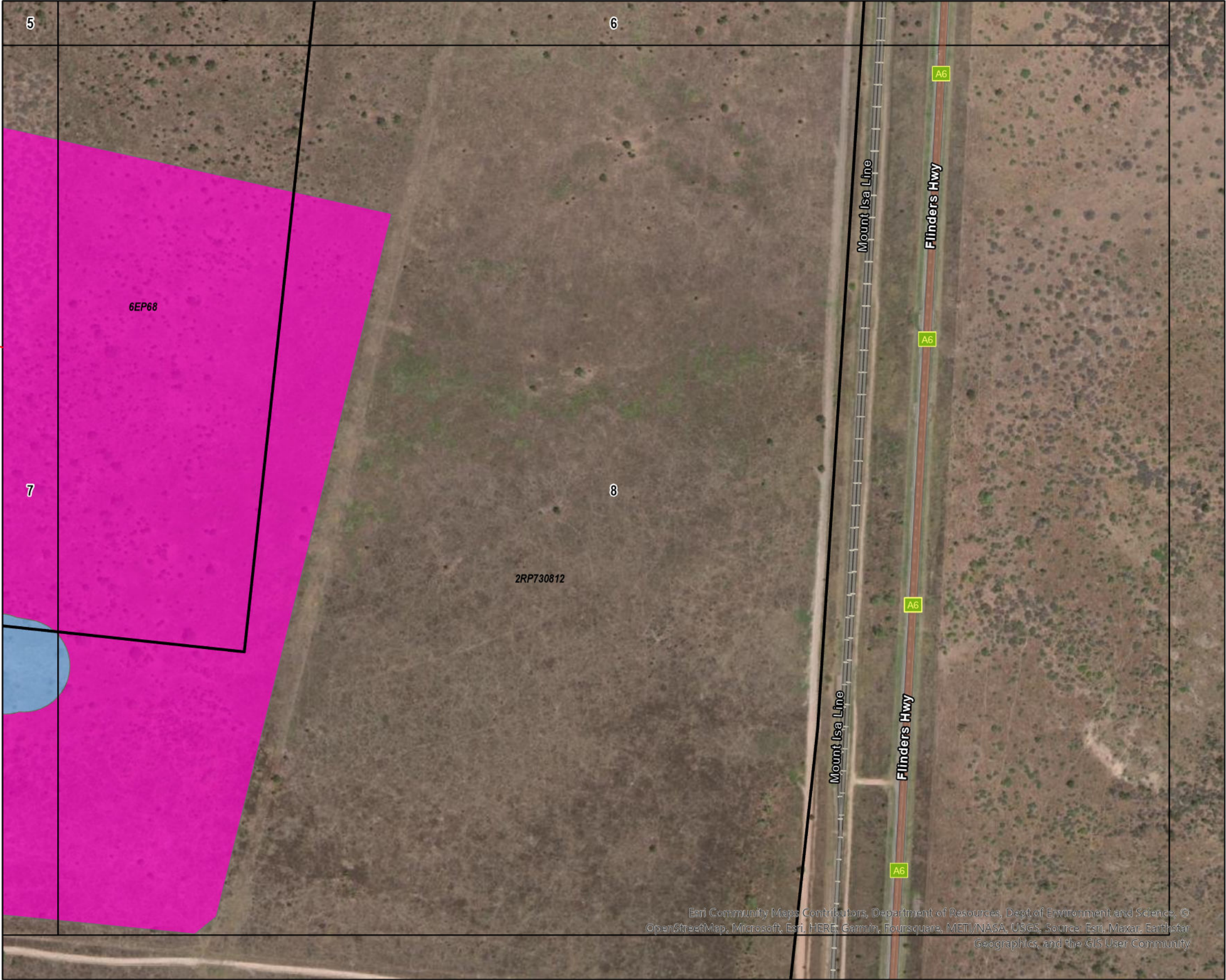
**Name**

MZ1 (205.2 HA)

MZ2 (73 HA)

MZ3 (95 HA)

Coordinate System: GDA 1994 MGA Zone 55  
Projection: Transverse Mercator



| Issue | Date       | Description | Drawn | Checked |
|-------|------------|-------------|-------|---------|
| A     | 14/11/2023 | Preliminary | RH    | AH      |

Landsdown Eco Industrial Precinct - Proposed Offset Site