

# Parkes to Narromine Project

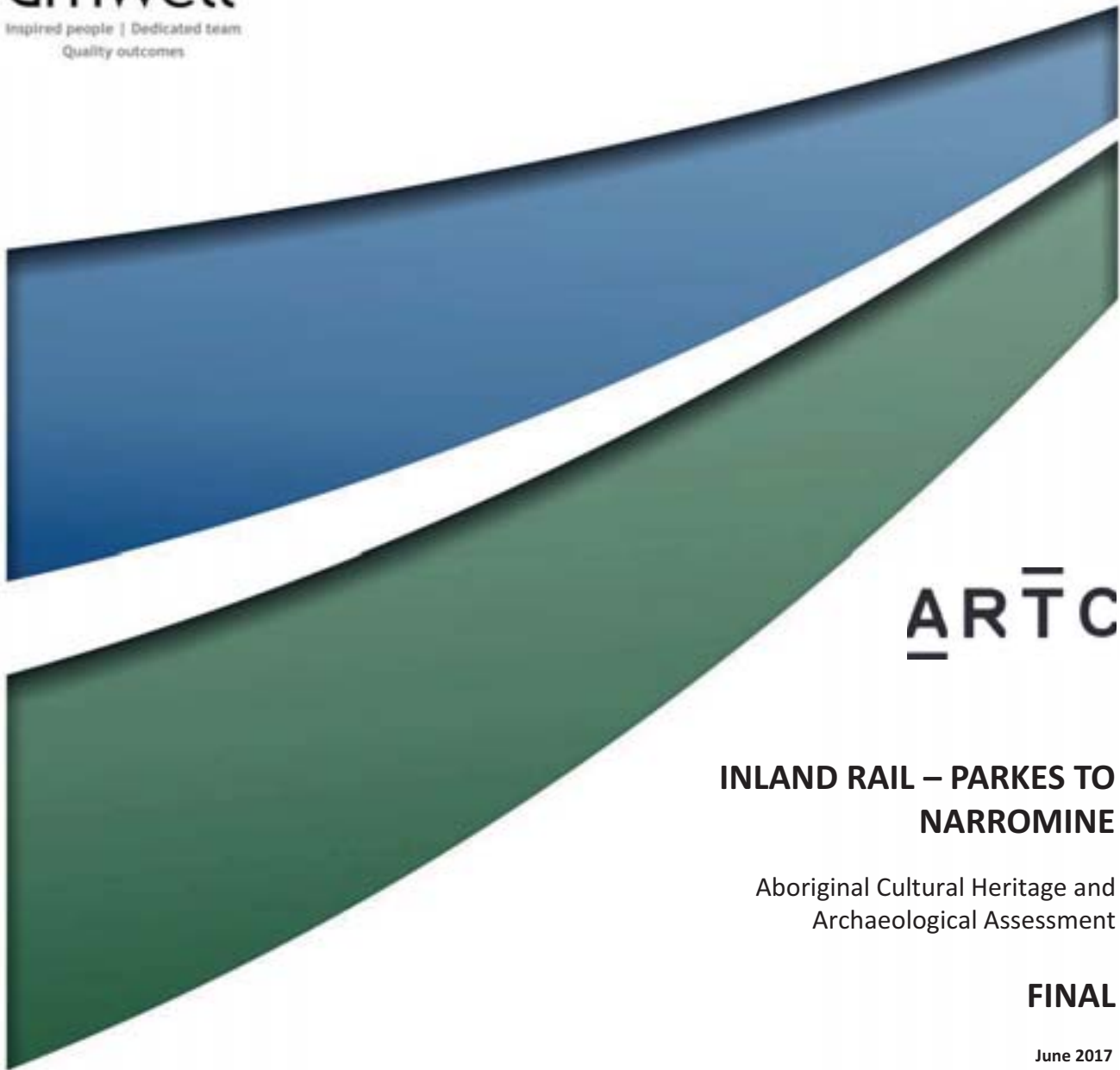
## Environmental Impact Statement

Technical Report 8: *Aboriginal Cultural Heritage & Archaeological Assessment*



**TECHNICAL REPORT 8:**  
**Aboriginal Cultural Heritage & Archaeological Assessment**





**ARTC**

**INLAND RAIL – PARKES TO  
NARROMINE**

Aboriginal Cultural Heritage and  
Archaeological Assessment

**FINAL**

June 2017



## **INLAND RAIL – PARKES TO NARROMINE**

Aboriginal Cultural Heritage and Archaeological  
Assessment

### **FINAL**

Prepared by  
**Umwelt (Australia) Pty Limited**  
on behalf of  
**ARTC**

Project Director: John Merrell  
Project Manager: Lachlan Sweeney  
Technical Director: Nicola Roche  
Report No. 3606/R07/Final  
Date: June 2017



**Newcastle**

75 York Street  
Teralba NSW 2284

Ph. 02 4950 5322

[www.umwelt.com.au](http://www.umwelt.com.au)



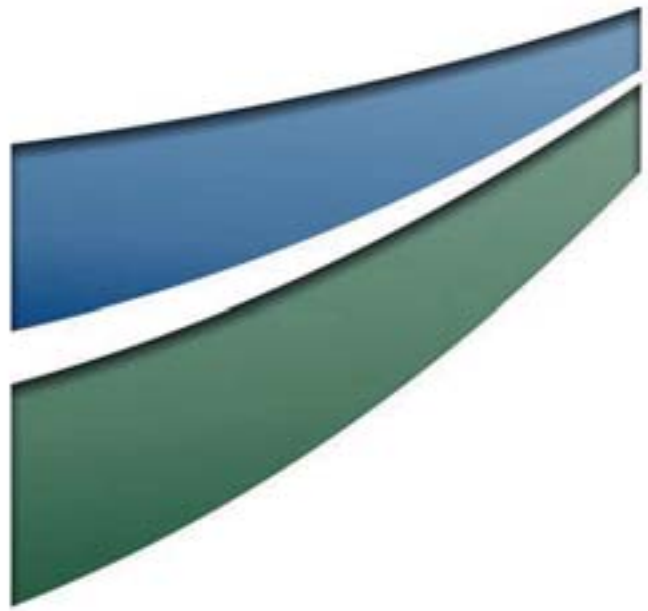
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# Executive Summary



The Australian Government has committed to building a significant new piece of national transport infrastructure by constructing an inland railway between Melbourne and Brisbane, via central-west New South Wales (NSW) and Toowoomba in Queensland. The Inland Rail project ('Inland Rail') is a major national project that will enhance Australia's existing national rail network and serve the interstate freight market. This report relates to the Parkes to Narromine section of Inland Rail.

The proposal will involve upgrading the existing rail line between Parkes and Narromine including upgrading the existing track and track formation, replacing culverts, constructing three new crossing loops, rationalising and upgrading level crossings, curve easing and other ancillary works.

For the purpose of this assessment, a conservative approach was taken to include the entirety of the identified construction impact zone (including both temporary and permanent impacts) which is referred to in this document as the proposal area. It is noted that the majority of works within the proposal area will be undertaken within the previously disturbed rail corridor, except where otherwise identified.

In accordance with current requirements and expectations, consultation with Aboriginal parties regarding the proposal was undertaken in accordance with Part 8A, Clause 80C of the NPW Regulation and the *Aboriginal cultural heritage consultation requirements for proponents* (DECCW 2010). The documentation of the outcomes of Aboriginal party consultation in this report reflects the requirements of the *Guide to investigating*

*assessing and reporting on Aboriginal Cultural Heritage in NSW* (OEH 2011).

*A copy of the draft Aboriginal cultural heritage and archaeological assessment report was provided to all registered Aboriginal parties on 21 October 2016 with an invitation to review and comment on all aspects of the document. All comments received will be documented in the final report, including any specific recommendations provided by Aboriginal parties.*

A review of key environmental factors associated with the proposal area demonstrates that the portions of the proposal area associated with water resources would have provided an environmental context attractive to Aboriginal people. However, historical land use of the proposal area has the potential to have significantly impacted any archaeological deposits that may be present.

As a result of previous archaeological investigations undertaken in the region, a total of 19 archaeological sites have been recorded within 50 metres of the proposal area. The majority of the sites contain stone artefacts. In general terms, the numbers of artefacts identified within these sites are low and typically contain less than five artefacts. The two largest sites (in terms of quantity of artefacts) are associated with Ten Mile Creek and Burrabadine Creek, both of which are relatively major watercourses in the area. An artefact scatter at Ten Mile Creek was also assessed as having the potential to contain additional artefacts in a sub-surface context. Other sites including 3 scarred trees and a potential quarry for basalt located outside the proposal area.

Based on the review of available information, it was predicted that stone artefact scatters/isolated artefacts are the most likely site type to occur within the proposal area, with higher numbers of sites of this type most likely to occur in areas adjacent to reliable water. However, within the existing rail corridor, the construction and maintenance of the existing rail line is likely to have resulted in the removal/relocation of archaeological evidence that may have been present (if any). Similarly, in adjoining farmland within the proposal area but outside the current rail corridor, clearance, grazing and cultivation of the landscape will have impacted on archaeological potential, comprising the integrity of any archaeological sites that may have been present.

This information was used in determining the survey methodology for the proposal area, with the entirety of the proposal area inspected from a vehicle and targeted pedestrian survey undertaken of a representative sample of landforms, including in association with key watercourses and at the location of previously recorded archaeological sites. During the survey, it was noted that the current rail corridor has been subject to extensive disturbance, with areas within the rail corridor assessed as having low archaeological potential. However, eight areas were identified as having moderate or higher archaeological potential within the sections of the proposal area outside the current rail corridor. These areas include the four previously recorded archaeological sites identified during the survey.

No specific comments were provided by Aboriginal party representatives during the survey regarding Aboriginal cultural values or significance associated with the proposal area or the sites and areas of sensitivity it contains. Aboriginal parties were invited to provide comment a draft of this report, with all comments referenced in **Section 3.3**.

The archaeological sites within the proposal area that are not associated with areas of archaeological potential (35-6-0062, 35-6-0063, 35-6-0065, 35-6-0070) are assessed as having low archaeological potential. Site 35-3-0207 is assessed as having moderate archaeological potential. The areas of moderate or higher archaeological potential are assessed as having moderate or moderate to high archaeological significance based on potential values noting that this may be subject to revision should further investigation be undertaken within these areas.

Based on the description of works that form part of the proposal, it is assumed that ground disturbance activities may occur anywhere within the proposal area. This, in turn, means that all sites and areas of archaeological potential located within the proposal area may be subject to both surface and subsurface impacts. It is again noted that this assessment takes a conservative approach to include the entirety of the identified construction impact zone (including both temporary and permanent impacts) but that the majority of works within the proposal area will be undertaken within the previously disturbed rail corridor, except where otherwise identified. It is possible that during the detailed design phase, the construction impact zone could potentially be reduced. Furthermore, changes in detailed design may dictate that impacts are no longer required in the identified areas of moderate to high archaeological potential outside the existing rail corridor. Any such changes will be considered in finalising management and mitigation works within these areas such that, if impacts are avoided within the identified areas of moderate to high archaeological potential, it will not be necessary to undertake the specific mitigations works.

With reference to all of the above, the following recommendations are made for the management of Aboriginal cultural heritage within the proposal area.

- ARTC should ensure that relevant employees and contractors are aware that it is an offence under Section 86 of the NPW Act to harm or desecrate an Aboriginal object and should provide appropriate Aboriginal cultural heritage awareness training to ensure that all employees and contractors are aware of their obligations.
- Prior to the commencement of construction, archaeological excavation works should be conducted within the areas of moderate or higher archaeological potential (all of which comprise areas of potential impact outside the current rail corridor), as listed in **Table 7.2**. However, excavation works will only be undertaken in portions of these areas subject to subsurface disturbance as a result of the proposal. If required, the archaeological excavations should be undertaken in accordance with the approach outlined in **Section 11.2**.

- Prior to the commencement of construction, surface collection works should be conducted at sites 35-3-0206, 35-3-0208 and 43-3-0111 where it is identified that the proposal will result in surface impacts within the identified site area. The surface collection should be undertaken in accordance with the approach outlined in **Section 11.1**.
- With reference to site 35-3-0207, ARTC should attempt to avoid impacts within the dripline of the scarred tree and ensure that appropriate protective measures are put in place during construction works to ensure that incidental impact to the tree is avoided. Should this not be possible, an alternate management strategy for this site should be developed as a component of an Aboriginal Cultural Heritage Management Plan (see below).
- Where the proposal will involve clearance of mature native trees outside the current rail corridor in areas that were not subject to pedestrian survey (i.e. in areas where access was not available at the time of the survey), any such trees subject to clearance should be inspected for any evidence of cultural scarring. Where any scarred trees are identified, efforts should be made to avoid impact. Should this not be possible, an alternate management strategy for sites of this type will be developed as a component of an Aboriginal Cultural Heritage Management Plan (see below).
- Should suspected human skeletal material be identified at any time during proposed works, it should be managed in accordance with the strategy provided below:
  - works within the immediate vicinity of the skeletal material will cease and the area will be cordoned off for 10 metres from all edges of the skeletal material
  - the skeletal material will be inspected to determine whether it is human or animal. If necessary, advice will be sought from a forensic specialist
  - if the skeletal material is human, the NSW Police and OEH will be contacted. No excavation will proceed until an appropriate course of action has been determined in consultation with NSW Police, OEH and the Aboriginal parties
    - if the skeletal material is not human, works may proceed.
- Should potential Aboriginal objects (other than those discussed in this assessment) be identified, works should cease within 10 metres of the potential object. The object should be assessed by an appropriately qualified person to determine whether it is an Aboriginal object. If it is not an Aboriginal object, works may proceed. If it is an Aboriginal object, it will be managed in accordance with strategies that will be identified as a component of an Aboriginal Cultural Heritage Management Plan, noting that any such strategies will be consistent with the approaches outlined in **Section 11.0**.
- Should the proposal be approved, ARTC, in consultation with the registered Aboriginal parties, should develop an Aboriginal Cultural Heritage Management Plan for the proposal that is prepared with reference to all of the above recommendations.



# Glossary

Aboriginal object	Defined by the <i>National Parks and Wildlife Act 1974</i> as: ‘any deposit, object or material evidence (not being a handcraft made for sale) relating to the Aboriginal habitation of the area that comprises New South Wales, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction, and includes Aboriginal remains’
Aboriginal Place	An Aboriginal Place is an area that, in accordance with Section 84 of the <i>National Parks and Wildlife Act 1974</i> is declared by the Minister as a place that, in the opinion of the Minister, is or was of special significance with respect to Aboriginal culture.
Aboriginal place of heritage significance	An Aboriginal place of heritage significance is a term used to describe places identified in a <i>Standard Instrument - Principal Local Environmental Plan</i> as the site of one or more Aboriginal objects or a place that has the physical remains of pre-European occupation by, or is of contemporary significance to, the Aboriginal people or is a natural Aboriginal sacred site or other sacred feature.
BAR	Biodiversity Assessment Report
Code of Practice	<i>Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales</i> (DECCW 2010)
Consultation requirements	<i>Aboriginal Cultural Heritage Consultation Requirements for Proponents</i> (DECCW 2010)
DECC	NSW Department of Environment and Climate Change (now OEH)
DECCW	NSW Department of Environment, Climate Change and Water (now OEH)
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i> (NSW)
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Commonwealth)
GIS	Geographical Information System
Greenfield	Previously undeveloped sites for commercial development or exploitation
LGA	Local Government Area
LPI	Land and Property Information
IR	Inland Rail
KP	Kilometre point
MGA	Map Grid of Australia
NSW	New South Wales
OEH	NSW Office of Environment and Heritage
P2N	Parkes to Narromine
PAD	Potential Archaeological Deposit
Proposal area	The total construction impact zone associated with the proposal which

	incorporates both permanent and temporary disturbance.
SSI	State Significant Infrastructure
Strahler Stream Order	Classification system that gives a waterway an 'order' according to the number of tributaries associated with it.

# Table of Contents

<b>Executive Summary</b>	<b>i</b>
<b>Glossary</b>	<b>v</b>
<b>1.0 Introduction</b>	<b>1</b>
1.1 The Proposal	1
1.1.1 Location	1
1.1.2 Key features	1
1.1.3 Timing/program	4
1.1.4 Operation	4
1.1.5 Purpose and scope of this report	4
1.2 Description of the Proposal	6
1.3 Structure of this report	12
1.4 Project Team	12
<b>2.0 Legislative Context</b>	<b>13</b>
2.1 Environmental Planning and Assessment Act 1979	13
2.2 National Parks and Wildlife Act 1974	13
2.3 Environment Protection and Biodiversity Conservation Act 1999	14
<b>3.0 Aboriginal Party Consultation</b>	<b>15</b>
3.1 Consultation Regarding Assessment Methodology	26
3.2 Aboriginal Party Participation in Survey	27
3.3 Consultation Regarding Draft Aboriginal cultural heritage and archaeological assessment report	29
3.4 OEH Consultation	29
<b>4.0 Environmental Context</b>	<b>30</b>
4.1 Resource Availability	33
4.2 Post Contact Landscape Modification	34
4.3 Summary	35
<b>5.0 Cultural and Archaeological Context</b>	<b>36</b>
5.1 Ethno-Historic and Historic Context	36
5.2 Archaeological Context	38
5.2.1 AHIMS Searches	39
5.2.2 LEP Listings	43
5.2.3 Previous Archaeological Investigations	43
5.3 Preliminary Archaeological Inspection of the Proposal Area	45
5.4 Archaeological Predictions for the proposal area	46

<b>6.0</b>	<b>Archaeological Survey</b>	<b>47</b>
6.1	Survey Methodology	47
6.2	Survey Coverage	49
	6.2.1 Vehicle Survey	49
	6.2.2 Pedestrian Survey	50
6.3	Archaeological Sites	54
6.4	Summary	61
<b>7.0</b>	<b>Significance</b>	<b>63</b>
7.1	Aboriginal cultural significance	63
7.2	Archaeological (Scientific) Significance	63
<b>8.0</b>	<b>Assessment of Harm Associated with the Proposal</b>	<b>68</b>
<b>9.0</b>	<b>Management Options</b>	<b>69</b>
9.1	Option 1 Site Conservation	69
9.2	Option 2 Further Investigation	69
9.3	Option 3 Site Destruction without Salvage	70
9.4	Option 4 Site Destruction with Salvage (Surface Collection Only)	70
<b>10.0</b>	<b>Recommendations</b>	<b>71</b>
10.1	Aboriginal Party Recommendations	71
10.2	Archaeological Recommendations	71
<b>11.0</b>	<b>Methodology for Mitigation Works</b>	<b>73</b>
11.1	Surface collection	73
11.2	Excavation Works	73
	11.2.1 Phase 1 Excavations	73
	11.2.2 Phase 2 Excavations	76
	11.2.3 Excavation Methodology	76
11.3	Post-salvage analysis and reporting	77
11.4	Management of Salvaged Artefacts	79
<b>12.0</b>	<b>References</b>	<b>80</b>

## Figures

Figure 1.1	Location of the proposal	2
Figure 1.2	Key Features of the Proposal	3
Figure 1.3	Parkes to Narromine Mitchell Landscape Areas and Stream Order	8
Figure 1.4	Parkes to Narromine Topography and Stream Order	9
Figure 6.1	Distribution of Artefacts Within Site 35-3-0208	59
Figure 6.2	Distribution of Artefacts Within Site 35-3-0206	62

## Tables

Table 1.1	Relevant SEARs	4
Table 1.2	OEH Assessment Recommendations for Aboriginal Cultural Heritage	5
Table 3.1	Summary of Aboriginal Party Consultation	16
Table 3.2	Attendance at Assessment Methodology Meetings	26
Table 3.3	Aboriginal Party Participants in Survey	27
Table 4.1	Environmental Characteristics of Mitchell Landscapes within proposal area	31
Table 5.1	Description of AHIMS registered sites within 50m of the proposal area	40
Table 6.1	Pedestrian survey units	51
Table 6.2	Sites identified during survey	54
Table 6.3	Artefacts identified during survey	60
Table 7.1	Criteria for Assessment of Archaeological Significance of the Sites	64
Table 7.2	Assessment of archaeological significance for areas of moderate or higher archaeological potential	67
Table 11.1	Proposed Phase 1 Excavation Locations (to be refined based on final proposal design/impacts)	74
Table 11.2	Artefact Analysis Attributes with reference to Artefact Class	77

## Appendices

Appendix 1	Figures A1 to A34
Appendix 2	Protected Matters Search
Appendix 3	Aboriginal Consultation Correspondence
Appendix 4	AHIMS Search
Appendix 5	Survey Transects

# 1.0 Introduction

The Australian Government has committed to delivering a significant piece of national transport infrastructure by constructing a high performance and direct interstate freight rail corridor. The Inland Rail programme (Inland Rail) involves the design and construction of a new inland rail connection, about 1,700 kilometres long, between Melbourne and Brisbane, via central-west New South Wales (NSW) and Toowoomba in Queensland. Inland Rail would enhance Australia's existing national rail network and serve the interstate freight market.

Australian Rail Track Corporation Ltd (ARTC) has sought approval to construct and operate the proposal.

The proposal requires approval from the NSW Minister for Planning under Part 5.1 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) and the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

This report has been prepared by Umwelt Australia Pty Ltd (Umwelt) as part of the environmental impact statement (EIS) for the proposal. The EIS has been prepared to accompany the application for approval of the proposal, and address the environmental assessment requirements of the Secretary of the Department of Planning and Environment (the SEARs), issued on 8 November 2016 and the terms of the assessment bilateral agreement between the Commonwealth and the State of New South Wales under the EPBC Act.

## 1.1 The Proposal

### 1.1.1 Location

The proposal is generally located in the existing rail corridor between the towns of Parkes and Narromine, via Peak Hill. In addition, a new connection to the Broken Hill rail line ('the Parkes north west connection') is proposed outside the existing rail corridor at the southern end of the proposal site near Parkes. The location of the proposal is shown in **Figure 1.1**.

### 1.1.2 Key features

The key features of the proposal involve:

- upgrading the existing track, track formation and culverts within the existing rail corridor for a distance of 106 kilometres between Parkes and Narromine
- realigning the track where required within the existing rail corridor to minimise the radius of tight curves
- providing three new crossing loops within the existing rail corridor, at Goonumbla, Peak Hill, and Timjelly
- providing a new 5.3 kilometre long rail connection between Inland Rail and the Broken Hill Line to the west of Parkes ('the Parkes north west connection'), including a new road bridge over the existing rail corridor at Brolgan Road ('the Brolgan Road overbridge').

The key features of the proposal are shown in **Figure 1.2**.

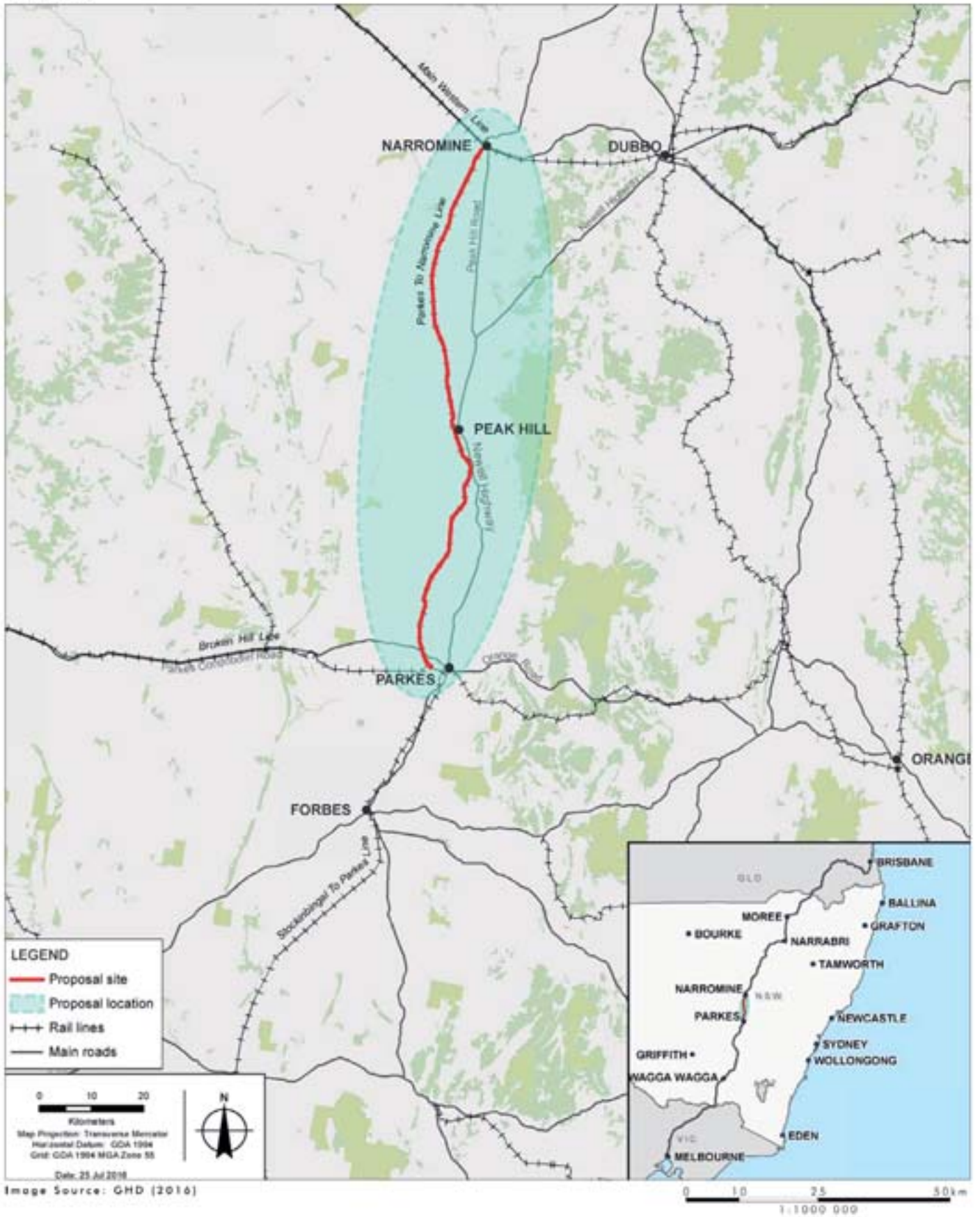
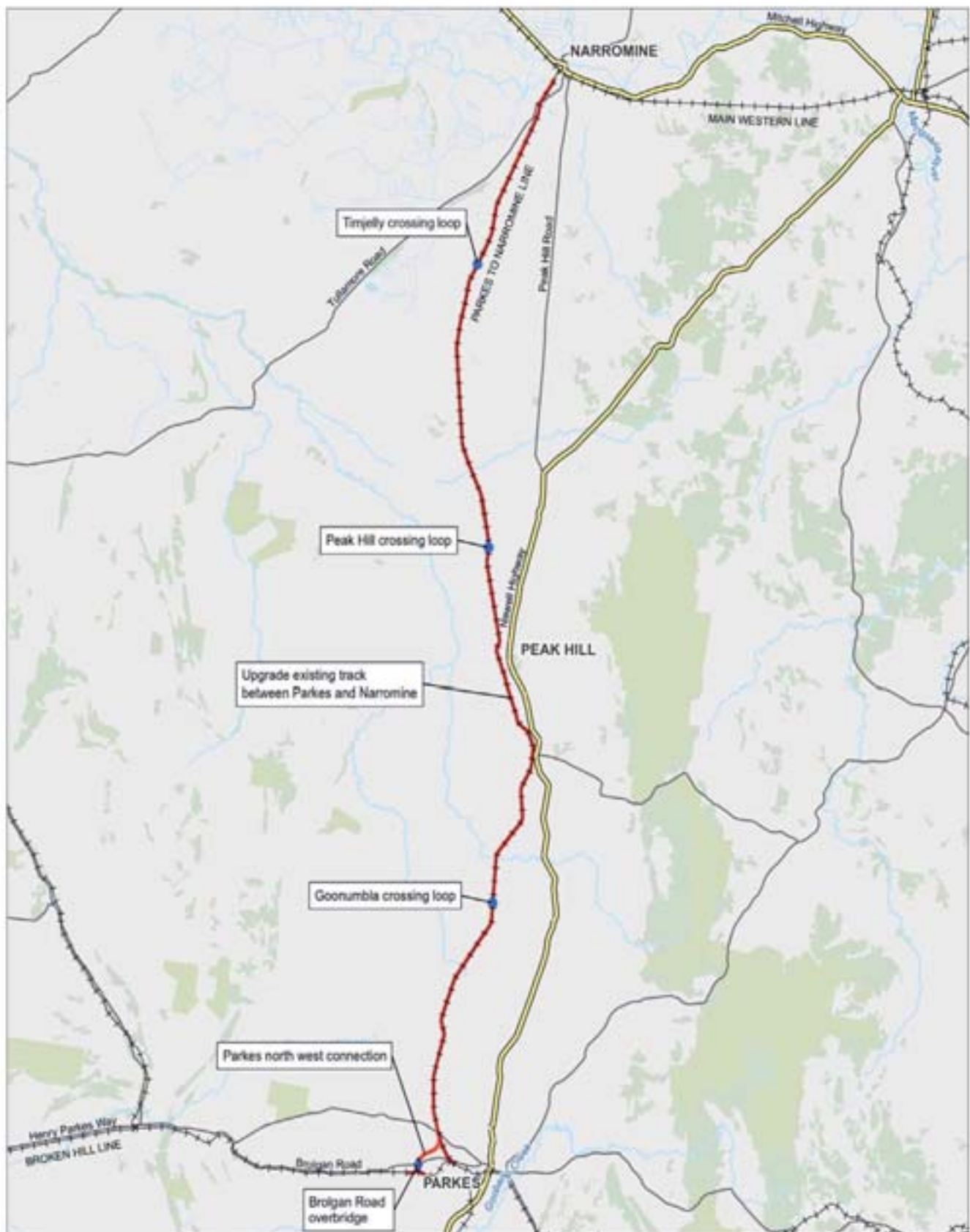


FIGURE 1.1  
Location of the Proposal



**LEGEND**

- New bridge
- Crossing loop
- The proposal
- Railway

- Highway
- Road

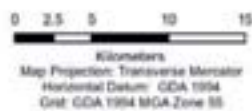


FIGURE 1.2

Key Features of the Proposal



Ancillary works that would be undertaken include works to level crossings, signalling and communications, signage, fencing, and services and utilities.

Further information on the proposal is provided in the EIS.

For the purpose of this assessment, a conservative approach was taken to include the entirety of the identified construction impact zone (including both temporary and permanent impacts) which is referred to in this document as the proposal area. It is noted that the majority of works within the proposal area will be undertaken within the previously disturbed rail corridor, except where otherwise identified.

### 1.1.3 Timing/program

Subject to approval of the proposal, construction is planned to start in early to mid 2018, and is expected to take about 18 months. Existing train operations along the Parkes to Narromine line would continue prior to, during, and following construction. Inland Rail as a whole would be operational once all 13 sections are complete, which is estimated to be in 2025.

### 1.1.4 Operation

Prior to the opening of Inland Rail as a whole, the proposal would be used by existing rail traffic, which includes trains carrying grain and ore at an average rate of about four trains per day. It is estimated that the operation of Inland Rail would involve an annual average of about 8.5 trains per day in 2025, increasing to 15 trains per day in 2040. The trains would be a mix of grain, intermodal (freight), and other general transport trains.

### 1.1.5 Purpose and scope of this report

This report provides the findings of the Aboriginal cultural heritage and archaeological assessment of the proposal. It addresses the Aboriginal cultural heritage and archaeology specific requirements of the SEARs, summarised in **Table 1.1**.

**Table 1.1 Relevant SEARs**

Requirements For Aboriginal Cultural Heritage and Archaeological Assessment	Where addressed in this report
The design, construction and operation of the project facilitates, to the greatest extent possible, the long term protection, conservation and management of the heritage significance of items of environmental heritage and Aboriginal objects and places.	Sections 8 - 11
The design, construction and operation of the project avoids or minimises impacts, to the greatest extent possible, on the heritage significance of environmental heritage and Aboriginal objects and places.	Sections 8 - 11

Requirements For Aboriginal Cultural Heritage and Archaeological Assessment	Where addressed in this report
<p>The Proponent must identify and assess any direct and/or indirect impacts (including cumulative impacts) to the heritage significance of:</p> <ul style="list-style-type: none"> <li>a) Aboriginal places and objects, as defined under the <i>National Parks and Wildlife Act 1974</i> and in accordance with the principles and methods of assessment identified in the current guidelines;</li> <li>b) Aboriginal places of heritage significance, as defined in the Standard Instrument – Principal Local Environmental Plan.</li> </ul>	Sections 5, 8 and 9
<p>Where archaeological investigations of Aboriginal objects are proposed these must be conducted by a suitably qualified archaeologist, in accordance with Section 1.6 of the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (DECCW2010).</p>	Section 1.5
<p>Where impacts to Aboriginal objects and/or places are proposed, consultation must be undertaken with Aboriginal people in accordance with the current guidelines.</p>	Section 3

Input from OEH regarding the SSI application including assessment recommendations that are addressed in this report, as summarised in **Table 1.2**.

**Table 1.2 OEH Assessment Recommendations for Aboriginal Cultural Heritage**

OEH Environmental Assessment Requirements – Aboriginal Cultural Heritage	Where addressed in this report
<p>The EIS must identify and describe the Aboriginal cultural heritage values that exist across the whole area that will be affected by the project and document these in the EIS. This may include the need for surface survey and test excavation. The identification of cultural heritage values should be guided by the <i>Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW</i> (DECCW, 2011) and consultation with OEH regional officers.</p>	Sections 3-6
<p>Where Aboriginal cultural heritage values are identified, consultation with Aboriginal people must be undertaken and documented in accordance with the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> (DECCW) . The significance of cultural heritage values for Aboriginal people who have a cultural association with the land must be documented in the EIS.</p>	Sections 3 and 7
<p>Impacts on Aboriginal cultural heritage values are to be assessed and documented in the EIS. The EIS must demonstrate attempts to avoid impact upon cultural heritage values and identify any conservation outcomes. Where impacts are unavoidable, the EIS must outline measures proposed to mitigate impacts. Any objects recorded as part of the assessment must be documented and notified to OEH.</p>	Sections 8-11

Specifically, this assessment:

- Describes the identified and potential Aboriginal heritage objects/sites associated with the proposal area
- Documents statements made by Aboriginal parties in relation to Aboriginal cultural values associated with the proposal area
- Assesses the potential that the proposal will result in impacts to Aboriginal cultural heritage
- Provides management and mitigation strategies in relation to the proposed impacts, including methodologies for the implementation of these strategies.

## 1.2 Description of the Proposal

The proposal will generally be located along the existing rail corridor within the rail corridor between Parkes and Narromine (refer to **Figure 1.1**). The rail corridor commences on the northern side of Parkes, passes through Peak Hill on the existing corridor and ends on the southern side of Narromine in NSW. The Parkes northwest connection is also proposed at the southern end of the proposal area near Parkes. The landscape and topographic features, including stream order, within the proposal area are shown in **Figures 1.3 and 1.4**.

The existing rail corridor is defined by fences located about 20 metres either side of the rail line, however in some sections where fences are not present the existing rail corridor may be wider, extending out to about 30 to 40 metres from the rail line or wider. The width of the proposal area would vary along the length of the existing rail corridor, depending on the construction activities that are to take place in any given area. For the purposes of this assessment, the proposal area includes all of the construction impact zone shown in **Figures A1 to A34 in Appendix 1**. The proposal area will be subjected to a range of permanent and temporary disturbances, as described below.

Works within the existing rail corridor will include track reconstruction, drainage works, establishment/replacement of level crossings, replacement of existing culverts, modifications to existing power infrastructure and establishing crossing loops as required. Works outside the existing rail corridor will include the establishment of the Parkes northwest connection (involving construction of a new section of rail corridor), modifications to existing power infrastructure, utilisation of existing access tracks and establishing construction compounds and equipment storage areas. Crossing loops will be established at approximately 6.5 metre track centres from the existing rail centreline. Each of these activities is discussed in general terms below.

### Track Upgrading

Track upgrading will involve a combination of track reconstruction and skim reconditioning. Track upgrading will involve removing the existing fastenings, rail and sleepers, trimming and either compacting the existing ballast bed (skim reconditioning) or establishing a new ballast bed (track reconstruction) over which sleepers and rail can be re-established. In areas where it is necessary to establish a new ballast bed, the existing ballast and earth formation will be excavated to a depth determined by geotechnical investigations and design. New and recycled fill material will then be placed into the excavated area and compacted and shaped prior to the track being installed. Track reconstruction will occur across the entirety of the proposal area, with the exception of the Parkes northwest connection.

## **Drainage Works**

Drainage in the form of a cess drain would be installed within the rail corridor adjacent to the track. Cess drains are surface drains located to the side of the tracks, used to remove water that percolates through the ballast and flows along the capping layer towards the outside of the track formation. Cess drains are used to protect the track formation by keeping it dry.

The general methodology for drainage construction is as follows:

- prepare survey control points for planned excavation of cess drains
- excavate earth material from the side of the existing track formation, and trim and compact base and sides of the drain
- form spoil mounds.

## **Spoil Mounds**

Excess material resulting mainly from the excavation of track formation and cess drains will be stockpiled along the rail corridor. The stockpiles would be located as close as possible to the source of the excavated material and would be formed into permanent spoil mounds, spread out to minimise height. Spoil mounds would be designed to have a maximum height of two metres (about one metre above the height of the rails), and in some cases, may need to be located on both sides of the rail track. The mounds would be stabilised as required.

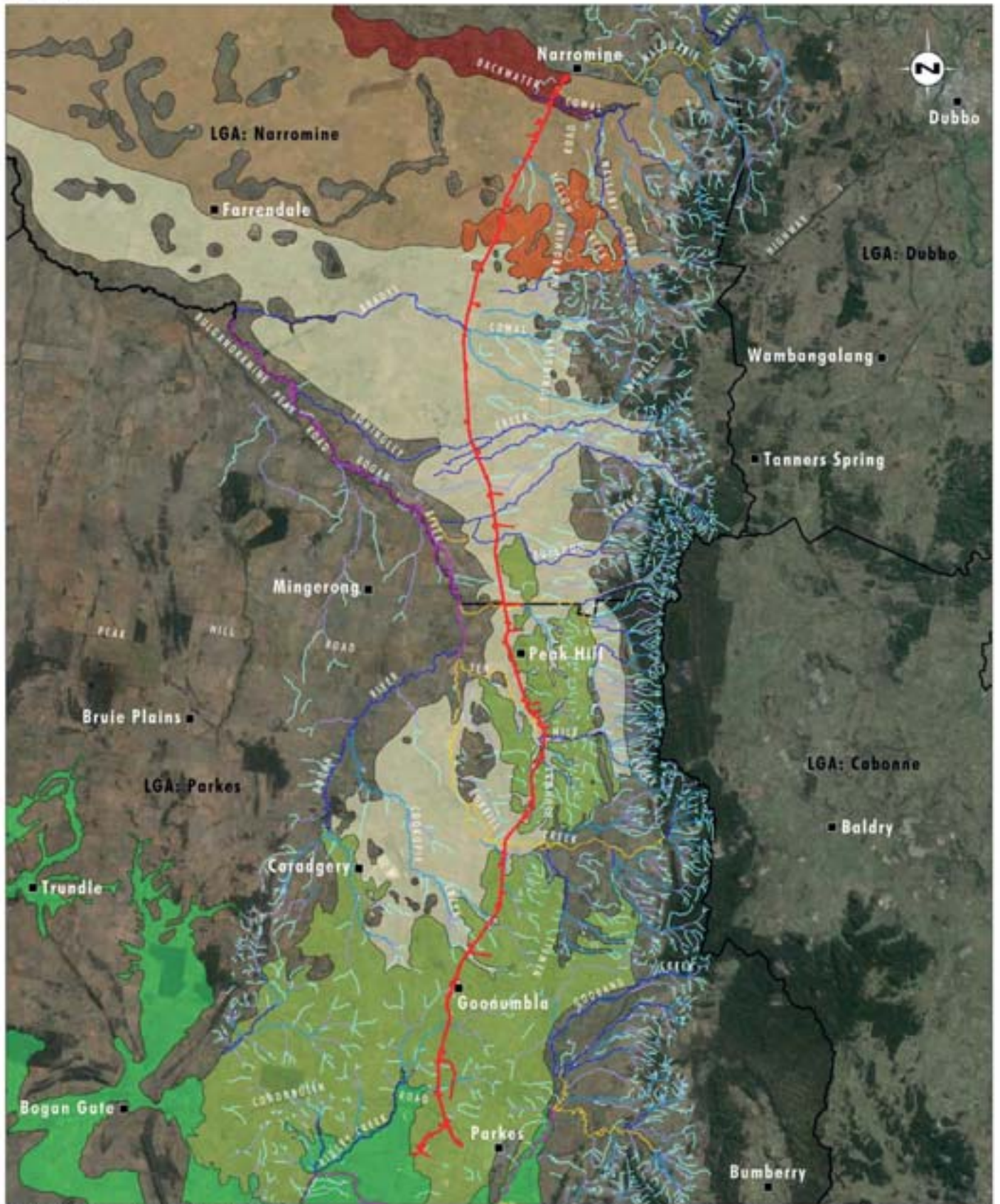


Image Source: Google Earth (2013)  
 Data Source: OEH (2010), Parsons Brinckerhoff (2014), Umwelt (2016)

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|---|---|---|
| <ul style="list-style-type: none"> <li><span style="border: 1px solid red; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Proposal Area</li> <li><span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Local Government Area</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: black; margin-right: 5px;"></span> Town Location</li> </ul> | <p>Mitchell Landscape:</p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: #90EE90; border: 1px solid black; margin-right: 5px;"></span> Bimbi Plains</li> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: #FFFFE0; border: 1px solid black; margin-right: 5px;"></span> Bogan Alluvial Plains</li> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: #D2B48C; border: 1px solid black; margin-right: 5px;"></span> Boggie Cowal Alluvial Plains</li> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: #8B0000; border: 1px solid black; margin-right: 5px;"></span> Boggie Cowal Channels and Floodplains</li> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: #90EE90; border: 1px solid black; margin-right: 5px;"></span> Goonumbla Hills</li> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: #FF8C00; border: 1px solid black; margin-right: 5px;"></span> Narramine Hills</li> </ul> | <p>Stream Order:</p> <ul style="list-style-type: none"> <li><span style="border-bottom: 1px solid lightblue; width: 20px; margin-right: 5px;"></span> 1st Order</li> <li><span style="border-bottom: 1px solid blue; width: 20px; margin-right: 5px;"></span> 2nd Order</li> <li><span style="border-bottom: 1px solid darkblue; width: 20px; margin-right: 5px;"></span> 3rd Order</li> <li><span style="border-bottom: 1px solid purple; width: 20px; margin-right: 5px;"></span> 4th Order</li> <li><span style="border-bottom: 1px solid yellow; width: 20px; margin-right: 5px;"></span> 5th Order</li> <li><span style="border-bottom: 1px solid magenta; width: 20px; margin-right: 5px;"></span> 6th Order</li> </ul> |
|---|---|---|

FIGURE 1.3

Parkes to Narramine  
 Mitchell Landscape Areas  
 and Stream Order

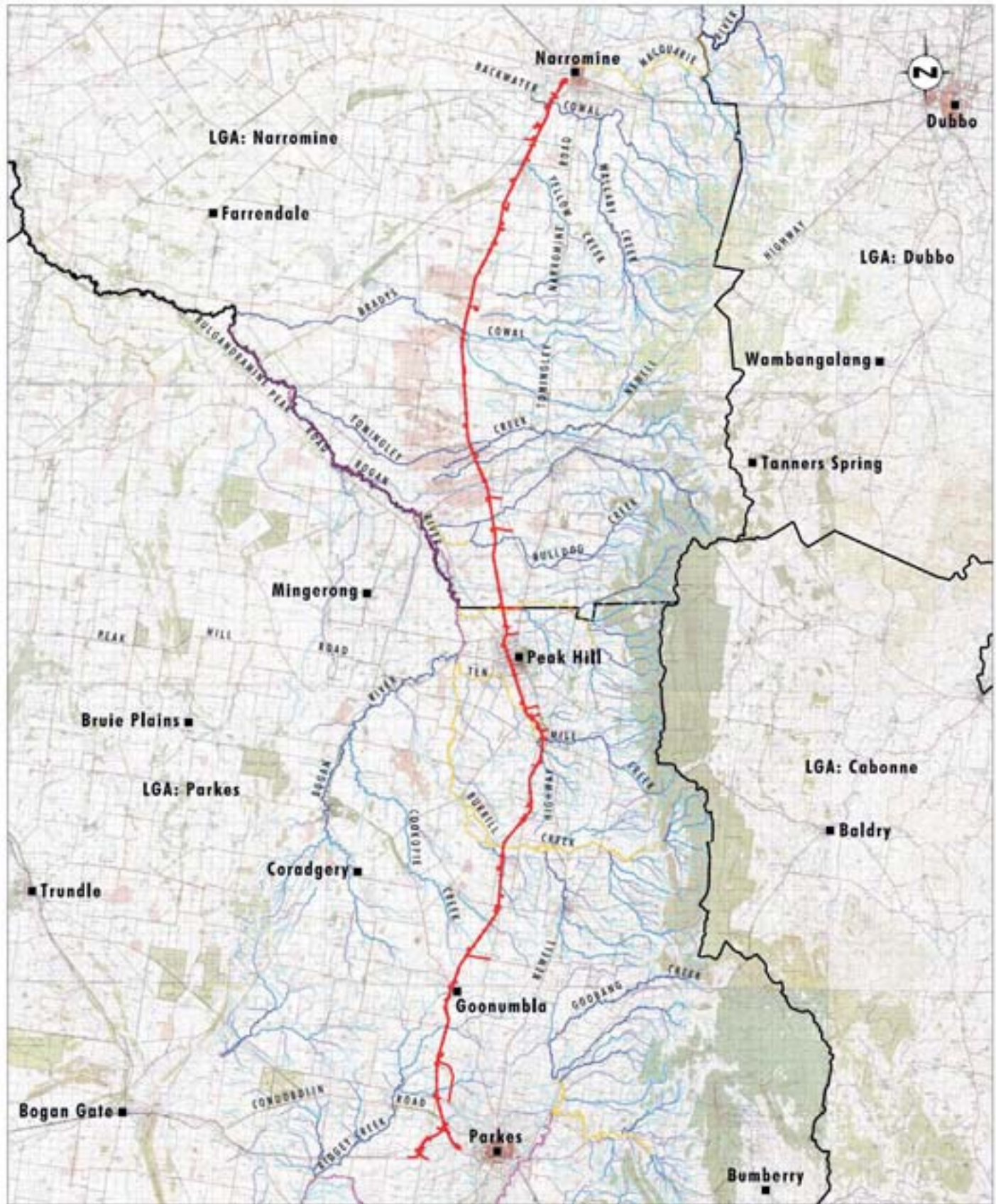


Image Source: Google Earth (2013)  
 Data Source: Geoscience Australia (2009), Parsons Brinckerhoff (2014), Umwelt (2016)

0 5 10 20 km  
 1:500 000

- Legend**
- Proposal Area
  - Local Government Area
  - Town Location
  - Stream Order:
    - 1st Order
    - 2nd Order
    - 3rd Order
    - 4th Order
    - 5th Order
    - 6th Order

FIGURE 1.4  
 Parkes to Narromine  
 Topography and Stream Order

## Level Crossings

Works required at level crossings will involve one of the following:

- Upgrading passive to active protection:
  - remove level crossing track panel (rail sleepers), excavate to a suitable depth, place new formation material and ballast
  - replace track panel, place top ballast and resurface and trim ballast to design level
  - install a pre-fabricated surface panel for the area between the tracks and either side
  - install signals and booms (where required)
  - provide standard road signs and road markings.
- Upgrading passive protection (give way signs to stop signs):
  - remove existing give way signs
  - install stop signs either side of track
  - provide standard road markings.
- Closing/removing level crossings:
  - remove fastenings, rail and sleepers and stockpile
  - excavate the existing ballast and earth formation
  - place new earth and recycled earth formation into the excavated area and compact
  - place new and recycled ballast on top of the earth formation and compact
  - place concrete sleepers and rail on prepared ballast bed and weld up rails
  - place new ballast on top of the sleepers
  - tamp and profile the ballast around the sleepers and line to a smooth alignment
  - remove all level crossing signs and road markings.

## Culverts

Where required, culverts will be removed and replaced as described below. Culvert replacement undertaken online (the new structure would be placed in the same location). Alternatively, culverts would be pre-cast off-site, and installed along the proposal area as the track upgrading works progress.

### *Culvert removal*

- remove existing culvert structure (either concrete or steel pipes)
- excavate to the required depth
- place and compact bedding material

### *Culvert replacement*

- install substructure as required
- place pre-fabricated culvert structures on the new formation area and fasten together
- place ballast, sleepers and rail on top of the culverts and tamp and profile the ballast under and around the sleepers and weld up tracks.

### **Crossing Loops**

Where it is necessary to establish a crossing loop, the nature of the works is similar to works associated with the track reconstruction. This work will occur within and potentially outside the existing corridor. The general methodology for constructing crossing loops is as follows:

- excavate beside the existing track for the length of the crossing loop
- place and compact earth formation material
- place ballast, sleepers and rail on top of the new formation, tamp and profile ballast and weld rails
- install signal equipment and associated equipment and test operation.

### **Parkes north-west connection**

Works to establish the Parkes north-west connection will involve clearing of existing vegetation, excavations to establish a suitable surface, establishment of drainage works, a new track formation and culverts in a similar fashion to that described above, establishment of a fence on the track side of the rail corridor, establishment of signals, signage and level crossings (if required) and connecting at either end of the Parkes north-west connection to the existing rail corridors. A rail overbridge would also be constructed over Brolgan Road (the Brolgan Road rail overbridge).

### **Ancillary Activities**

Ancillary activities may include the establishment of construction compounds, the upgrade of existing access tracks, the construction of new access tracks and works to alter existing powerlines. For the purposes of the current assessment, ground surface impacts associated with ancillary activities were considered to potentially occur within the specified areas that form part of the proposal area.

Two types of construction compound areas are proposed; minor compound/storage areas and larger compound sites. Minor compounds/storage areas are areas that would be used temporarily for the assembly of adjacent infrastructure such as culverts and turnouts. These compounds would be located within the rail corridor. Larger compound sites would be established for general construction activities associated with each stage of work.



## 1.3 Structure of this report

- The structure of the report is outlined below.
- Section 1 – provides an introduction to the report
- Section 2 – describes the legislative context for the assessment
- Section 3 – provides information on consultation with Aboriginal parties
- Section 4 – describes the environmental context of the proposal area
- Section 5 – describes the cultural context of the proposal area
- Section 6 – documents the methodology and results of the archaeological survey
- Section 7 – discusses the Aboriginal cultural heritage and archaeological significance of the proposal area
- Section 8 – provides an assessment of potential and actual harm to Aboriginal cultural heritage that may occur as a result of the proposal
- Section 9 – presents the Aboriginal and archaeological management options for the proposal which is guided by the archaeological and Aboriginal cultural heritage significance
- Section 10 – presents recommendations for the management of Aboriginal cultural heritage within the proposal area
- Section 11 – provides methodologies for the implementation of recommended management and mitigation strategies

## 1.4 Project Team

This Aboriginal Cultural Heritage and Archaeological Assessment was completed by Alison Lamond (Senior Archaeologist, BA Hons.) and Nicola Roche (Manager Cultural Heritage, BA Hons.). Both Nicola and Alison meet the minimum qualifications to undertake assessments of this kind, as referenced in Section 1.6 of the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010a).

Input from Aboriginal parties is as acknowledged in the relevant sections of this report. Field surveys were undertaken by Nicola Roche and Aboriginal party representatives as discussed in **Section 4**.

## 2.0 Legislative Context

Key legislation relating to the management of Aboriginal cultural heritage for the proposal is discussed below.

### 2.1 Environmental Planning and Assessment Act 1979

The *Environmental Planning and Assessment Act 1979* (EP&A Act) regulates development activity in NSW. The proposal requires approval from the NSW Minister for Planning under Part 5.1 of the EP&A Act. In accordance with Section 115ZG of the EP&A Act, it is not necessary to obtain an Aboriginal heritage impact permit under Section 90 of the NPW Act (refer to Section 2.2) in relation to activities approved under Part 5.1 of the EP&A Act. Projects approved under Part 5.1 of the EP&A Act are subject to conditions of approval issued by the Department of Planning and Environment (DPE) and (where relevant) Aboriginal cultural heritage is addressed by appropriate conditions.

### 2.2 National Parks and Wildlife Act 1974

The Office of Environment and Heritage (OEH) is primarily responsible for regulating the management of Aboriginal cultural heritage in New South Wales under the *National Parks and Wildlife Act 1974* (the NPW Act). The NPW Act is accompanied by the *National Parks and Wildlife Regulation 2009* (the Regulation), the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010a) and other industry-specific codes and guides.

The NPW Act defines an Aboriginal object as:

*..any deposit, object or material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of the area that comprises New South Wales.*

Under Section 84 of the NPW Act, an Aboriginal Place must be declared by the Minister as a place that, in the opinion of the Minister, is or was of special significance with respect to Aboriginal culture. Section 86(4) of the NPW Act states that a person must not harm or desecrate an Aboriginal place.

In accordance with Section 86(1) of the NPW Act, it is an offence to harm or desecrate a known Aboriginal object, whilst it is also an offence to harm an Aboriginal object under Section 86(2). Harm to an object or place is defined as any act or omission that:

- destroys, defaces or damages an object or place, or
- in relation to an object – moves the object from the land on which it had been situated, or
- is specified by the regulations, or
- causes or permits the object or place to be harmed in a manner referred to in paragraph (a), (b) or (c),

but does not include any act or omission that:

- desecrates the object or place (noting that desecration constitutes a separate offence to harm), or
- is trivial or negligible, or
- is excluded from this definition by the regulations.

Section 87(1) of the NPW Act specifies that it is a defence to prosecution under Section 86(1) and Section 86(2) if the harm or desecration of an Aboriginal object was authorised by an Aboriginal Heritage Impact Permit (AHIP) and the activities were carried out in accordance with that AHIP. As discussed in **Section 2.1**, the provisions of the EP&A Act provide an exemption from the requirement for an AHIP under the NPW Act for activities approved as State Significant Infrastructure, as is the case with the proposal. However, the other provisions of the NPW Act are still applicable.

Any Aboriginal cultural heritage and archaeological assessment in NSW is required to be undertaken in accordance with the *Aboriginal cultural heritage consultation requirements for proponents* (DECCW now OEH 2010), the *Code of Practice for Archaeological investigation of Aboriginal objects* (DECCW now OEH 2010) and the *Guide to investigating assessing and reporting on Aboriginal Cultural Heritage in NSW* (OEH 2011).

## **2.3 Environment Protection and Biodiversity Conservation Act 1999**

To determine if there were any federally listed Aboriginal heritage sites or places present within the proposal area, a search was undertaken of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) Protected Matters Search Tool (refer **Appendix 2**). No sites or places were identified and therefore there are no requirements under the EPBC Act in relation to this Aboriginal cultural heritage and archaeological assessment.

## 3.0 Aboriginal Party Consultation

Consultation with Aboriginal parties is an integral part of identifying and assessing the significance of Aboriginal objects and/or places, and determining and carrying out appropriate strategies to mitigate impacts upon Aboriginal heritage. In accordance with current requirements and expectations, consultation with Aboriginal parties regarding the proposal was undertaken in accordance with Part 8A, Clause 80C of the NPW Regulation and the *Aboriginal cultural heritage consultation requirements for proponents* (DECCW 2010). The documentation of the outcomes of Aboriginal party consultation in this report reflects the requirements of the *Guide to investigating assessing and reporting on Aboriginal Cultural Heritage in NSW* (OEH 2011).

The consultation process is summarised in **Table 3.1**. All correspondence referenced in the table is included in **Appendix 3** and was prepared with reference to the specifications of Clause 80C of the NPW Regulation and the *Aboriginal cultural heritage consultation requirements for proponents*. As a result of this process, nine Aboriginal parties registered an interest in ongoing consultation regarding the proposal.

It is noted that the NPW Regulation and the *Aboriginal cultural heritage consultation requirements for proponents* identify that, in some cases, 'information required for decision making' in relation to the assessment of Aboriginal cultural heritage will be held by Aboriginal people who are Registered Aboriginal Owners (in accordance with the provisions of the *NSW Aboriginal Land Rights Act 1983*) or Native title holders or registered native title claimants. The Office of the Registrar and the National Native Title Tribunal did not identify any Registered Aboriginal Owners or Native Title parties that should be contacted regarding the proposal.

An additional search of the Native Title Tribunal register was undertaken on the 31 March 2016. No Native Title Claims and no Indigenous Land-Use Agreements (ILUAs) have been registered or notified by the National Native Title Tribunal as being in place over the Proposal area.

With reference to all of the above, the registered Aboriginal parties are:

1. Peak Hill Local Aboriginal Land Council
2. First Nation Cultural Tours
3. Gamarada Consulting
4. Kullila Site Consultants
5. National Koori Site Management
6. Dhinawan-Dhigaraa Cultural and Heritage Pty Limited
7. Mooka
8. Paul Brydon
9. Butucarbin Aboriginal Corporation

**Table 3.1 Summary of Aboriginal Party Consultation**

Date	Type of Consultation	Relevant Party	Outcome
11/12/15 & 18/12/15	Public advertisement providing notification of assessment and opportunity to register interest for consultation.	Advertisement placed in The Parkes Champion Post	Registrations of interest received from: <ul style="list-style-type: none"> <li>• First Nation Cultural Tours</li> <li>• Gamarada Consulting</li> </ul>
16/12/15 & 13/1/16	Public advertisement providing notification of assessment and opportunity to register interest for consultation.	Advertisement placed in The Narromine News	<ul style="list-style-type: none"> <li>• Kullila Site Consultants</li> <li>• National Koori Site Management</li> <li>• Dhinawan-Dhigaraa Culture and Heritage Pty Limited</li> </ul>
12/12/15 & 19/12/15	Public advertisement providing notification of assessment and opportunity to register interest for consultation.	Advertisement placed in The Dubbo Daily Liberal	
12/12/15 & 19/12/15	Public advertisement providing notification of assessment and opportunity to register interest for consultation.	Advertisement placed in The Australian	
16/12/15	Public advertisement providing notification of assessment and opportunity to register interest for consultation.	Advertisement placed in the Koori Mail	
9/12/15	Provision of letter requesting identification of Aboriginal parties with cultural knowledge/interest in the proposal area	OEH (North-West Region)  Peak Hill Local Aboriginal Land Council	OEH provided letter response 17/02/16 identifying 11 additional parties to be contacted  Peak Hill LALC provided registration of interest via email on 11/12/15

Date	Type of Consultation	Relevant Party	Outcome
		Narramine Local Aboriginal Land Council	No response
		Office of the Registrar Aboriginal Land Rights Act 1983	No response
		National Native Title Tribunal	No response
		NTSCorp Limited	No response
		Parke Shire Council	No response
		Narramine Shire Council	NSC provided email response on 14/12/15 identifying that the local Aboriginal bodies in the Narramine Shire are Narramine LALC and Ngarra Mayin Aboriginal Elders Corporation
		Central West Local Land Services	No response
8/1/16	Letters sent to Aboriginal parties identified by authorities providing notification of assessment and opportunity to register interest for consultation	Ngarra Mayin Aboriginal Elders Corporation (as identified by Narramine Shire Council)	Telephone advice from Ruth Carney to ARTC indicated that interests of group are represented by Peter Peckham (First Nation Cultural Tours)
9/12/15	Letters sent to Aboriginal parties identified by OEH providing notification of assessment and opportunity to register interest for consultation	Binjang Wellington Wiradjuri Heritage Survey  Bogan River Peak Hill Wiradjuri Aboriginal Corporation	No response  No response

Date	Type of Consultation	Relevant Party	Outcome
		Bulgandramine Youth Development Aboriginal Corporation	No response
		Eva Coe	No response
		Little Burning Mountain Aboriginal Corporation	No response
		Mooka	Registration of interest received via letter for <ul style="list-style-type: none"> <li>• Jumara Cutmore</li> <li>• Stuart Cutmore</li> <li>• Esther Cutmore</li> <li>• Neville Williams</li> <li>• Wayne Williams</li> <li>• Shawn Williams</li> <li>• Sharon Williams</li> </ul>
		Trevor Robinson	No response
		Warramunga Community Advancement Co-operative Society Ltd	No response
		Wiradjuri Council of Elders	No response
		John Shipp	No response
		Paul Brydon	Registration of interest provided by phone and email 02/03/16

Date	Type of Consultation	Relevant Party	Outcome
18/02/16	Registration of interest (telephone ad email)	Butucarbin Aboriginal Corporation	Registration of interest provided 18/02/16
9/03/16	Registration of interest (email)	Aboriginal Archaeology Service	Registration of interest received 9/3/16
2/04/16	Provision of draft assessment methodology and meeting invite to registered Aboriginal parties for review and comment (closing date for comment 25/05/16)	Peak Hill LALC	No response
		First Nation Cultural Tours	No response
		Gamarada Consulting Australia	No response
		Kullilia Site Consultants	No response
		National Koori Site Management	No response
		Dhinawan-Dhigaraa Cultural and Heritage Pty Limited	Telephone call received from David Burke advising that Ricky Field would be unable to attend meeting and requesting methodology be sent to alternate email address
		Mooka (Jumara Cutmore)	No response
		Mooka (Stuart Cutmore)	No response
		Mooka (Esther Cutmore)	No response
		Mooka (Neville Williams)	No response
Mooka (Wayne Williams)	No response		
Mooka (Shawn Williams)	No response		
Mooka (Sharon Williams)	No response		



Date	Type of Consultation	Relevant Party	Outcome
		Paul Brydon	No response
		Butucarbin Aboriginal Corporation	No response
		Aboriginal Archaeology Service	Written response received 1/05/16 providing agreement with the proposed methodology
11/5/16	Aboriginal party consultation meeting (Narromine)	Paul Brydon	Meeting attended by Paul
		National Koori Site Management	Meeting attended by Geoffrey Maher
		Kullilla Site Consultants	Meeting attended by Maria Maher
12/5/16	Aboriginal party consultation meeting (Parkes)	Mooka	Meeting attended by <ul style="list-style-type: none"> <li>• Esther Cutmore</li> <li>• Stuart Cutmore</li> <li>• Shawn Williams</li> <li>• Wayne Williams</li> <li>• Neville Williams</li> </ul>
		Aboriginal Archaeology Service	Meeting attended by Tony Williams and Andrew Williams
		Butucarbin Aboriginal Corporation	Meeting attended by Jack Gibson and Jennifer Beale

Date	Type of Consultation	Relevant Party	Outcome
30/06/16	Registered Aboriginal parties invited to submit an Expression of Interest for engagement to undertake survey	Peak Hill LALC	No response
		First Nation Cultural Tours	No response
		Gamarada Consulting Australia	No response
		Kullila Site Consultants	EOI documents submitted
		National Koori Site Management	EOI documents submitted
		Dhinawan-Dhigaraa Cultural and Heritage Pty Limited	No response
		Mooka (Jumara Cutmore)	No response
		Mooka (Stuart Cutmore)	No response
		Mooka (Esther Cutmore)	EOI documents submitted
		Mooka (Neville Williams)	EOI documents submitted
		Mooka (Wayne Williams)	No response
		Mooka (Shawn Williams)	No response
		Mooka (Sharon Williams)	No response
		Paul Brydon	No response
		Butucarbin Aboriginal Corporation	No response
		Aboriginal Archaeology Service	No response

Date	Type of Consultation	Relevant Party	Outcome	
25/07-16 – 2/08/16	In-field consultation as component of survey of proposal area	Aboriginal Archaeology Service	Fieldwork undertaken by Tony Williams and Kellie Williams from 25-27/07/16	
		Mooka	Fieldwork undertaken by Shawn Williams from 26-28/7/16	
		Butucarbin Aboriginal Corporation	Fieldwork undertaken by Neville Williams and Esther Cutmore from 29/7 to 2/8/16	
		Kullilia Site Consultants	Fieldwork undertaken by Jack Gibson, Jonathan Whitton and Thomas Whitton from 28/7 to 1/08/16	
		National Koori Site Management	Fieldwork undertaken by Maria Maher on 2/08/16	
		Peak Hill LALC	Fieldwork undertaken by Kirstie Butlon on 2/08/16	
21/10/16		Draft assessment report provided to all registered parties for review and comment	First Nation Cultural Tours	No response
			Gamarada Consulting Australia	No response
			Kullilia Site Consultants	No response
			National Koori Site Management	No response
	Dhinawan-Dhigaraa Cultural and Heritage Pty Limited		No response	
	Mooka (Jumara Cutmore)		No response	
	Mooka (Stuart Cutmore)	No response		

Date	Type of Consultation	Relevant Party	Outcome
		Mooka (Esther Cutmore)	No response
		Mooka (Neville Williams)	No response
		Mooka (Wayne Williams)	No response
		Mooka (Shawn Williams)	No response
		Mooka (Sharon Williams)	No response
		Paul Brydon	No response
		Butucarbin Aboriginal Corporation	No response
		Aboriginal Archaeology Service	No response
11/11/16	Email reminder seeking comment on draft report	Peak Hill LALC	No response
		First Nation Cultural Tours	No response
		Gamarada Consulting Australia	No response
		Kullilia Site Consultants	No response
		National Koori Site Management	No response
		Dhinawan-Dhigaraa Cultural and Heritage Pty Limited	No response
		Mooka (Jumara Cutmore)	No response
		Mooka (Stuart Cutmore)	No response

Date	Type of Consultation	Relevant Party	Outcome
		Mooka (Esther Cutmore)	No response
		Mooka (Neville Williams)	No response
		Mooka (Wayne Williams)	No response
		Mooka (Shawn Williams)	No response
		Mooka (Sharon Williams)	No response
		Paul Brydon	No response
		Butucarbin Aboriginal Corporation	No response
		Aboriginal Archaeology Service	Response received 12/11 identifying that AAS agree with the methodology provided in the draft assessment report and requesting primary involvement in any future consultation
23/11/16	Reminder phone call to Aboriginal parties who participated in site survey seeking comment on draft report	Kullilia Site Consultants	On behalf of both organisations, Maria Maher indicated that she had read the report and was happy with the report contents. She particularly noted the importance of the protection of the scarred tree (AHIMS #35-3-0207)
		National Koori Site Management	
		Mooka (Shawn Williams)	Phone number rang out and no option to leave a message
		Mooka (Esther Cutmore)	Phone number not operational
		Mooka (Stuart Cutmore)	Left message asking Esther to provide feedback. No additional response received

Date	Type of Consultation	Relevant Party	Outcome
		Butucarbin Aboriginal Corporation	Email response received 24/11/16 requesting some minor corrections to the report. Response noted that no changes were required to the recommendations

### 3.1 Consultation Regarding Assessment Methodology

A draft assessment methodology for this assessment and an invitation to attend a meeting in either Parkes or Narromine was provided to all registered Aboriginal parties on 22 April 2016. The draft methodology included the following information:

- A description of the Inland Rail Programme and the Parkes to Narromine proposal
- Summary of the proposed works, including works within and outside the current rail corridor
- An overview of the assessment process, including all key assessment milestones and steps with prospective dates
- Identification of key consultation events linked to specific phases of the Aboriginal cultural heritage and archaeological assessment process
- Provision of opportunity to provide specific cultural information relevant to the proposal and to identify how this information should be presented/used
- A draft survey methodology
- An outline of the information to be included in a draft Aboriginal cultural heritage and archaeological assessment report

It was requested that all Aboriginal parties provide comment on the proposed assessment methodology, particularly in relation to the Aboriginal cultural values of the proposal area and the way in which the assessment may or may not contribute to documenting these values and assisting in their management. In order to assist in this process, a meeting was held in Narromine and in Parkes. At these meetings, the information included in the draft assessment methodology was reviewed and discussed and opportunities provided to Aboriginal parties to provide comment. The Aboriginal party representatives that attended the meetings are identified in **Table 3.2** with minutes from these meetings provided in **Appendix 3**.

**Table 3.2 Attendance at Assessment Methodology Meetings**

Assessment Methodology Meeting	Aboriginal Party Representatives Attending
Narromine (11/5/16)	Paul Brydon Maria Maher (Kullila Site Consultants) Geoffrey Maher (National Koori Site Management)
Parkes (12/5/16)	Esther Cutmore (Mooka) Stuart Cutmore (Mooka) Shawn Williams (Mooka) Wayne Williams (Mooka) Neville Williams (Mooka) Tony Williams (Aboriginal Archaeology Services) Andrew Williams (Aboriginal Archaeology Services) Jennifer Beale (Butucarbin Aboriginal Corporation) Jack Gibson (Butucarbin Aboriginal Corporation)

The key matter raised during the meetings related to the proposed survey methodology, including the extent of proposed survey coverage. It was discussed that the survey methodology involved targeted inspection of areas of likely archaeological potential and locations of previously recorded sites but that the survey would be undertaken to ensure that an adequate sample of the Proposal area was inspected. It was also noted that Aboriginal parties would have the opportunity during the survey to identify any areas of potential cultural sensitivity that they may wish to inspect.

During the meetings it was identified that the process for engagement of Aboriginal parties would be undertaken following an Expression of Interest process (as discussed in **Section 3.2**) and that it may be undertaken on a roster system. The anticipated duration of the survey roster was also identified.

Aboriginal parties at the meetings also identified that the proposal has the capacity to provide employment to local Aboriginal people during the construction phase.

Following the provision of the assessment methodology and the meetings to discuss the methodology, written comment was received from Aboriginal Archaeology Services indicating that this organisation agreed with the proposed methodology. No further comment was received from the remaining registered Aboriginal parties.

### 3.2 Aboriginal Party Participation in Survey

Prior to the commencement of survey, ARTC (in consultation with GHD) contacted all registered Aboriginal parties to request expressions of interest in being engaged to undertake the survey work. The requests for expressions of interest included information on key criteria that would inform the selection of parties/individuals to undertake the survey work. These criteria were prepared with the aspects of the *Aboriginal cultural heritage consultation requirements for proponents* that reference the identification of Aboriginal parties with appropriate cultural heritage knowledge to inform decision making. The criteria also included the capability, skills, experience and fitness of the nominated personnel to undertake the required fieldwork tasks as well as other aspects relating to safety and commercial considerations.

All Aboriginal parties who submitted a complete expression of interest document (including provision of required insurance information) within the required timeframe were invited to participate in the survey. Survey participants are named in **Table 3.3** below.

**Table 3.3 Aboriginal Party Participants in Survey**

Date	Aboriginal Party	Representative(s)
25/07/16	Aboriginal Archaeology Services	Tony Williams
		Kellie Williams
26/07/16	Aboriginal Archaeology Services	Tony Williams
		Kellie Williams
	Mooka	Shawn Williams
27/07/16	Aboriginal Archaeology Services	Tony Williams
		Kellie Williams
	Mooka	Shawn Williams



Date	Aboriginal Party	Representative(s)
28/07/16	Butucarbin Aboriginal Corporation	Jack Gibson
		Thomas Whitton
		Jonathan Whitton
	Mooka	Shawn Williams
29/07/16	Butucarbin Aboriginal Corporation	Jack Gibson
		Thomas Whitton
		Jonathan Whitton
	Mooka	Neville Williams
		Esther Cutmore
01/08/16	Butucarbin Aboriginal Corporation	Jack Gibson
		Thomas Whitton
		Jonathan Whitton
	Mooka	Neville Williams
		Esther Cutmore
02/08/16	Kullila Site Consultants	Maria Maher
	National Koori Site Management	Kirstie Butlon
	Mooka	Neville Williams
		Esther Cutmore

During the survey, all participants were briefed on the proposed survey plan for the day and were invited to identify any key areas where they wished to undertake survey. All participants were consulted regarding proposed mitigation and management strategies for identified archaeological sites and/or areas of potential archaeological deposit (PAD). Survey participants were also invited to provide comments on any cultural values associated with the proposal area or within the vicinity of the proposal area more broadly. The outcomes of in-field consultation have been taken into consideration in developing the management and mitigation strategies discussed in this report.

### 3.3 Consultation Regarding Draft Aboriginal cultural heritage and archaeological assessment report

A copy of the draft Aboriginal cultural heritage and archaeological assessment report was provided to all registered Aboriginal parties on 21 October 2016 with an invitation to review and comment on all aspects of the document. A follow up email reminding Aboriginal parties of the closing date for comments was sent by GHD on 11 November 2016. Additional reminder phone calls were made on 23 November 2016 to the Aboriginal parties who participated in the fieldwork and had not provided comment within the specified period. Written comment was received from Aboriginal Archaeology Services and Butucarbin Aboriginal Corporation and verbal comment was received from Kullila Site Consultants and National Koori Site Management. All comments received are documented in **Table 3.1**, included in full in **Appendix 3** and summarised below.

Aboriginal Archaeology Services provided written comment stating agreement with the methodology included in the draft report and requesting that any salvaged artefacts be displayed in a local library or government building in the area. Aboriginal Archaeology Services requested primary involvement in any future works for the proposal.

Butucarbin Aboriginal Corporation provided written comment indicating that no changes were required to the recommendations provided in the draft report, requesting clarification of one point and asking for correction of some minor errors in documenting meeting attendance. This clarification was provided via return email and the requested corrections were made.

Maria Maher provided verbal comment on behalf of Kullila Site Consultants and National Koori Site Management stating that both organisations were happy with the content of the draft report. Maria particularly noted the importance of the protection of the scarred tree (AHIMS #35-3-0207).

### 3.4 OEH Consultation

Initial consultation with OEH was undertaken in the form of notification letters provided to the OEH regional office, as described in **Table 3.1**. In addition, ARTC attended a meeting with Phil Purcell (Regional Archaeologist) to discuss the proposal.

## 4.0 Environmental Context

The decisions that people make regarding such things as where they live, the range of resources they use and other aspects of daily life may be influenced by the environment in which they live. The preservation and visibility of sites is also affected by environmental factors such as vegetation cover, past land-use and disturbance. A review of the environmental context of the proposal area is therefore integral to considerations of site visibility, preservation and occurrence within the proposal area.

In order to facilitate discussion of the key environmental factors with reference to the proposal area, it is advantageous to divide the proposal area into units with similar environmental characteristics. For the purposes of this assessment (and to ensure comparability with the *ARTC Inland Rail – Parkes to Narromine Biodiversity Assessment Report* (Umwelt 2017a)), the proposal area is divided into its relevant Mitchell Landscape units, as shown in **Figure 1.3**. Information on key environmental characteristics of each unit is presented in **Table 4.1**.

As shown in **Figure 1.3**, the majority of the proposal area is located within the Bogan Alluvial Plains landscape, with the Goonumbla Hills landscape concentrated primarily in the southern portion of the proposal area. The Boggy Cowal landscapes are present within the northern portion of the proposal area as are the Narromine Hills, with the Bimbi Plains comprising a very small proportion of the northern part of the proposal area.

Key watercourses intersected by the proposal area are identified (refer to **Figure 1.4**). Strahler stream order is provided to give an indication of the extent of catchment (and typically the likely reliability) of the watercourse, however this will be discussed further below with reference to resource availability.

**Table 4.1 Environmental Characteristics of Mitchell Landscapes within proposal area**

Mitchell Landscape	Soils	Topography	Key watercourses intersected by proposal area	Key vegetation communities
Bimbi Plains	Gravelly clay loams and red brown clays, red-brown texture-contrast soils on higher slopes grading to red-brown gradational and uniform profiles of clay loams and clays along creeks.	Quaternary alluvial plains from bedrock hills and ridges of the Gobondery/ Gillenbine and the Belmont/Brooklyn land systems. General elevation 200 to 250m, local relief 30m.	Ridgey Creek tributary (1&2) – 1 <sup>st</sup> order	Mostly cleared and cultivated; grassy woodland on loamy soils; originally Grey box ( <i>Eucalyptus microcarpa</i> ) and white cypress pine ( <i>Callitris glaucophylla</i> ) dominant forests.
Goonumbla Hills	Stony yellow earths on the sands, thin brown structured loams on the hills merging with red-brown and red texture-contrast soils on the flats.	Rounded low hills on Ordovician and Silurian sandstone, andesite, siltstone and phyllite with a partial blanket of Tertiary quartz gravels and sands. General elevation 290 to 390m, local relief 70m.	Unnamed first order drainage (Condoblin Rd) Ridgey Creek tributary (3) – 3 <sup>rd</sup> order stream	Open forest surrounding creek lines; extensively cleared, grazed and cultivated
Narromine Hills	Red-brown texture-contrast soils thicker on the western aspects.	Low rounded hills standing above the alluvial plain on Ordovician and Devonian quartz sandstone, siltstone, chert and phyllite, general elevation 240 to 290m, local relief 40m.	Bordered by areas of mapped gilgai.	Formerly grassy woodland but mostly cleared and cultivated.
Boggy Cowal Channels and Floodplains	Sediments are mainly fine sands, relatively clean in channels and forming structureless red-brown loamy sand on the plains.	Pleistocene fluvial sediments of channel and meander plain facies of the Carrabear Formation associated with the Boggy Cowal distributary stream system.	Backwater Cowal	Grassy woodland.

Mitchell Landscape	Soils	Topography	Key watercourses intersected by proposal area	Key vegetation communities
Boggy Cowal Alluvial Plains	Medium to heavy grey cracking clays with extensive gilgai.	Pleistocene fluvial sediments of backplain facies of the Carrabear Formation associated with the Boggy Cowal distributary stream system.	Yellow Creek – 3 <sup>rd</sup> order Backwater Cowal – 4 <sup>th</sup> order	Extensive grasslands with scattered stands of open woodland.
Bogan Alluvial Plains	Red brown texture-contrast soils on plains with brown and grey cracking clays in sinuous patterns on backplains and light orange-brown fine to medium sands in channels and occasional source bordering dunes.	Partly scalded, higher level plains along the Bogan River of Holocene alluvium represented by the meander plain and backplain facies of the Marra Creek Formation. Narrow, defined drainage lines and swamps, extensive gilgai in grey and brown clays, occasional lagoons, swamps and remnant lakes, some with low lunettes, relief to 3m.	Cookapie Creek – 3 <sup>rd</sup> order Burrill Creek (south) – 3 <sup>rd</sup> order Burrill Creek (north) – 5 <sup>th</sup> order Hallinans Creek – 4 <sup>th</sup> order 10 Mile Creek (Trewilga) – 4 <sup>th</sup> order stream Burrabadine Creek – 5 <sup>th</sup> order Unnamed tributary of Bogan River – 1 <sup>st</sup> order Bulldog Creek – 4 <sup>th</sup> order Gundong Creek – 4 <sup>th</sup> order Unnamed creek (south of Tomingley West) – 1 <sup>st</sup> order Tomingley Creek – 4 <sup>th</sup> order Bradys Cowal – 4 <sup>th</sup> order	Varying from grassy woodland on heavy clay soils to open forest.

## 4.1 Resource Availability

The presence or absence of resources such as freshwater, food (both plant and animal) and materials suitable for artefact manufacture significantly contributed to the way in which Aboriginal people lived within the landscape and the resulting range of archaeological evidence. Within western NSW (and indeed across much of NSW more generally), the availability of reliable sources of freshwater is viewed as one of the most important factors in the selection of areas for occupation by Aboriginal people. This relates not only to requirements for drinking water but also due to the range of plant and animal resources associated with creeks, swamps and drainage lines.

As described in **Table 4.1** the proposal area intersects a number of watercourses. Gauging the reliability of these creeks as a source of freshwater is somewhat problematic given the impacts of historical land use, including construction of the current rail line, with its associated culverts and drains. The consideration of stream order does provide a basis on which to compare watercourses, with creeks of a stream order of 4 or higher generally amongst the larger watercourses within the area. However, within this region, many of these higher order streams will still only hold water in a limited capacity except following rain and/or where they have been subject to modification (such as the introduction of dams or channelling of watercourses through confined culverts or other flow points).

In order to gain a better understanding of the nature of the watercourses that intersect the proposal area, a review of relevant historical parish maps, the 1860s map *Reuss and Browne's Map of New South Wales and part of Queensland showing the relative positions of the pastoral runs, squattages, districts, counties, towns, reserves etc.* and 1886 *Index map of New South Wales shewing pastoral holdings* prepared by Surveyor General's Office was undertaken. The scale and accuracy of these maps is obviously variable and typically only main watercourses are identified.

In general terms, comparison of these maps with current topographic maps indicates that the main watercourse of Burrill Creek, 10 Mile Creek, Burrabadine Creek, Tomingley Creek, Bradys Cowal, Yellow Creek and Backwater Cowal were relatively similar in terms of the location and nature of the creek channels. Tomingley Creek and 10 Mile Creek appear historically to have followed a more meandering course than is shown in current mapping, possibly reflecting the influence of agricultural landuse and construction of road and rail with associated culverts. Cookapie Creek is mapped on historical maps as 'Cookapie Ponds', indicating that this watercourse may have comprised a chain of ponds formation within which water may have been retained in ponds for extended periods. In his account of his expedition into the area in the 1830s, Mitchell referenced being led to a lagoon that his Aboriginal guides named as Cookapie (refer to Mitchell 1835).

Gundong Creek is mapped on all historical maps as being located east of the proposal and did not extend south-west to intersect the proposal area. In relation to Gundong Creek, OzArk (2011:5-47) identify that Gundong Creek was 'historically' a spring culminating at Tomingley and that the portion of the creek southwest of Tomingley (ie. including the section that intersects the proposal area) 'began through channel cutting in the 1800s'. This suggestion broadly concurs with the mapping of the creek on parish maps and its current somewhat linear appearance.

In terms of water resource availability, it is also important to note the presence of large areas of gilgai shown within the proposal area on topographic mapping from the north side of Goonumbla through to Narromine. Gilgai are repeated mounds and depressions typically found in areas of cracking clay soils with variable rainfall. Water is often retained within these open depressions and can provide a source of freshwater within an otherwise dry landform. Gilgai were therefore often utilised by Aboriginal people moving between other reliable sources of water and could support short duration occupation. The presence of these landforms therefore has archaeological implications, where they remain intact. However, due to impacts associated with the construction of the current rail line (within the existing rail

corridor) and agricultural landuse (including ploughing and levelling of fields), any evidence of gilgai and the archaeological evidence that may have been associated with them within the rail corridor and surrounding landscape is likely to have been eradicated.

In terms of other resources associated with the proposal area, as documented in **Table 4.1**, prior to large scale vegetation clearance, the proposal area was typically populated by forest, open woodland and grassland. The key species within these communities are documented in the *ARTC Inland Rail – Parkes to Narromine Biodiversity Assessment Report* (Umwelt 2017a) and an extensive species list is not reproduced here. However, it is noted that these communities would have provided a range of resources suitable for food, medicinal use and for the manufacture of artefacts. Similarly, these vegetation communities would have supported a range of mammals, reptiles and birds that were a valuable source of protein for Aboriginal people in the local area. Typically, it would be expected that resources were most concentrated in proximity to the water sources discussed above, hence the focus on this aspect of the landscape.

Another key consideration in relation to resources is the availability of stone suitable for the manufacture of stone artefacts, which is typically the most enduring type of archaeological evidence. Within the local area, quartz, chert and quartzite were available as cobbles within Bogan River and Goonumbla Creek but were not present in large quantities (CQCHM 2013:11). It is possible that a source of basalt was present at Trewilga and was subject to extraction by Aboriginal people and that rhyolite was quarried in the Goobang National Park (refer to **Section 5.2.3**). However, in general terms, suitable stone for artefact manufacture was in fairly short supply in the local area.

## 4.2 Post Contact Landscape Modification

The *ARTC Inland Rail – Parkes to Narromine Non-Aboriginal Heritage Impact Statement* (Umwelt 2017b) documents the history of non-Aboriginal occupation of the proposal area and its surrounds. This information is summarised with reference to the implications for landscape modification. Following initial non-Aboriginal exploration of the region by Thomas Mitchell (refer to **Section 5.1** for detail), the region was primarily used for pastoral purposes from the 1830s. The impacts of early agriculture in the region would have been relatively limited when compared to the impacts of modern agriculture but would have resulted in the clearance of native vegetation and subsequent increases in erosion and alterations in creekline morphology. The speed at which these changes occurred is demonstrated by the fact that, on his second visit to the region in the 1840s, Mitchell noted the deterioration of springs and waterways within the region as a result of impacts from increasing populations of cattle as the area was subject to non-Aboriginal settlement, as is discussed in **Section 5.1**.

The commencement of wheat farming in the region in the 1860s had major implications for land management due to commencement of broad scale cultivation and ploughing. The focus on wheat cultivation increased following ongoing experimentation to produce more suitable wheat varieties for conditions in western NSW and with new technological developments that allowed for clearance, preparation and harvesting of larger tracts of land. Concurrently, the development of the rail infrastructure allowed for ease of transport for crops and stock, further encouraging pastoral and agricultural expansion in the region.

The construction and ongoing maintenance of the existing rail line is the primary disturbance factor within the proposal area. The rail line from Narromine to Peak Hill was opened in 1910, followed by the extension of the line from Parkes to Peak Hill in 1914. The establishment of the rail line required the completion of bulk earthworks for track formation as well as the establishment of drainage works, bridges and culverts. Station infrastructure (including wheat silos) was also established along the alignment, resulting in further broadscale disturbance. In addition, the rail line is a raised feature in what is otherwise a generally flat landscape and therefore, in some areas, has changed the way water moves across the landscape. These

activities, to some extent, will have resulted in the removal/relocation of archaeological evidence (if any) that may have been present within the rail corridor.

In addition, clearance, grazing and cultivation of the landscape bordering the existing rail corridor may also have had substantial impacts on archaeological evidence. Removal of significant amounts of mature trees reduces the likelihood that scarred trees will remain present whilst also exacerbating erosion of artefact-bearing soils. Similarly, ploughing of soils over 100s of years will have impacted on the integrity of any archaeological deposits that may have been present within the plough zone.

### **4.3 Summary**

A review of key environmental factors associated with the proposal area demonstrates that the portions of the proposal area associated with water resources would have provided an environmental context attractive to Aboriginal people. However, historical land use of the proposal area has the potential to have significantly impacted any archaeological deposits that may be present. This will be discussed further in **Section 5.4**.



## 5.0 Cultural and Archaeological Context

Historic records, such as official records, personal observations recorded in diaries or publications and paintings, can provide rare information on Aboriginal lifestyles of a region at the time of European contact. Although a valuable source of information, the limitations of these documents must be recognised as colonial observers generally tended to record unusual rather than everyday events, religious and social life rather than economic activity, and men's behaviour rather than that of women and children. As such, ethno-historic records are neither unbiased nor complete, and they cannot provide a complete understanding of Aboriginal lifestyles at the time of contact. The records are also clouded by the late 19th Century/early 20th Century Anglophile perceptions of the recorders who often did not understand the meaning/background of the events they witnessed and thus may have drawn conclusions/made assessments that were not accurate.

### 5.1 Ethno-Historic and Historic Context

Historical records can provide information relevant to understanding the Aboriginal history of a region. However, the limitations of these documents must be recognised as colonial observers generally tended to record events they perceived as novel (rather than mundane), often made broad generalisations based on limited information and, in many instances, interpreted the events they witnessed through a filter of personal bias. As such, ethno-historical records should not be considered purely factual, unbiased or complete and cannot provide a complete understanding of Aboriginal beliefs and practices at the time of contact.

According to Tindale's (1974) map of Aboriginal Australia, the proposal area extends over the country of the Wiradjuri people and the Wongaibon people. Tindale's map indicates that section of the proposal area from Parkes to Alectown is within the country of the Wiradjuri. However, it is noted that previous archaeological assessments have identified that many Aboriginal people with ties to the Peak Hill area consider themselves to be Wiradjuri descendants and the Wiradjuri language was the dominant language at the nearby Bulgandramine Aboriginal Station (Egloff 1987).

Tindale (1974) identified that the country of the Wongaibon included the 'headwaters of Bogan River; on Tigers Camp and Boggy Cowal creeks'. This includes the portion of the proposal area between Alectown and Narromine. AIATSIS (<http://austlang.aiatsis.gov.au/main.php>) reference Wongaibon (Wanggaybuwan) as a dialect of Ngiyampaa spoken in the southern portion of the country of this language group. There is currently a large area Native Title claim registered to the Ngemba/Ngiyampaa People (referred to as the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan claim – NC2012/001) that does not extend as far south as Narromine nor east of Condobolin and therefore doesn't include the proposal area.

It is noted that the boundaries identified by Tindale (1974) are not accepted as being accurate by many Aboriginal people and anthropologists and should not be seen as a clearly defined and accepted boundary. It is not the purpose of this assessment to further discuss or define boundaries. Rather the review of available historical records will focus on those pertaining to the region rather than attributing certain records to Wiradjuri or Wongaibon/Ngiyampaa people.

The earliest historical records relating to Aboriginal people in the proposal area date from 1817, when Oxley and Cunningham camped on the Bogan River in the vicinity of the proposal area and noted the presence of deposits of freshwater mussel shell and stone artefacts and identified the existence of a spring on Gundong Creek that was utilised by Aboriginal people (referenced in OzArk 2011).

The first official European exploration of the proposal area was undertaken as a part of Thomas Mitchell's 1835 expedition (Mitchell 1835). Based on his account, Mitchell travelled along the Bogan to its juncture with the Darling River, potentially encompassing large portions of the proposal area.

Mitchell (1835) described the Bogan River as follows

*Banks were beautiful, and the grass better quality than any we had seen for some time. The acacia pendula grew there in company with the pine, the casuarina and eucalyptus, besides many smaller trees, in graceful groups, the surface being very smooth and parklike.*

Mitchell relied heavily upon guidance from local Aboriginal people during his expedition and names a number of guides that assisted his expedition along the Bogan River, including a man he describes as 'the king' of the Bogan River people. Mitchell (1835) frequently referenced the excellent navigation skills of his guides along the Bogan, particularly in relation to their knowledge of the location of reliable water sources. He documented the availability of native honey within the area and recognised the skills required to obtain such resources.

*To such inexpert clowns as they probably thought us, the honey and bees were inaccessible, and indeed invisible, save only when the natives cut it out, and bought it to us in little sheets of bark, thus displaying a degree of ingenuity and skill in supplying our wants, which we, with all our science, could not hope to attain.*

Mitchell noted that there was more of a focus on land mammals as opposed to fish but that both fish and freshwater mussels were harvested as well as plant resources (Unger 1995:5).

Aside from the invaluable assistance in navigation and ensuring that the expedition had access to water wherever possible, Mitchell (1835) also stated

*Another great advantage gained in the company of the natives was our being perfectly safe from the danger of sudden collision with a tribe. Their caution in approaching waterholes was more remarkable; for they always cooeed from a great distance, and even on coming near thick scrub they would sometimes request me to halt until they could examine it.*

While this may reflect Mitchell's guides being aware of and avoiding potential breaches of clan or territorial boundaries, it may also have reflected the guides attempts to ensure that there was not incidental, unwanted incursion into camp life by the non-Aboriginal members of Mitchell's party. However, Mitchell (1835) does make reference to conflict between what he refers to as the tribes of the Darling and Macquarie Rivers with the tribes of the Bogan River, implying that there were clear distinctions between the Aboriginal people residing on these three watercourses.

In records of his subsequent expedition ten years later, Mitchell (1848) recognised that the limited settlement that had occurred over the 10 year period had resulted in impacts to the landscape, particularly with reference to the watercourses.

*instead of being limpid and surrounded by verdant grass, as they had been then, they were now trodden by cattle into muddy holes, where the poor natives had been endeavouring to protect a small portion from the cattle's feet, and keep it pure, by laying over it trees they had cut down for the purpose. The change produced in the aspect of this formerly happy secluded valley, by the intrusion of cattle and the white man, was by no means favourable, and I could easily conceive how I, had I been an aboriginal native, should have felt and regretted that change. The springs which issue from the level plains of clay, while the bed of the water-course some twenty feet lower continues dry and dusty, are numerous. One had a strong taste of sulphur, and might probably be as salubrious as other springs more celebrated. They*

*show that, in this country at least, the water-courses are not supplied by springs, but depend wholly on heavy torrents of rain descending from the mountains.*

However, subsequent records of Aboriginal people living or working within or in the vicinity of the proposal area are relatively limited until the modern period, with generalised accounts of interactions between Aboriginal people, pastoralists and (subsequently) gold miners (refer to English et al 1998). However, English et al (1998:50) reference an account by a settler in the region of encountering an Aboriginal man travelling from Herveys Range to Trewilga as a messenger prior to a ceremony in the area, with the account identifying that:

*In the next forty-eight hours tribes from all directions converged on to the flat area where the village now stands, and with great jubilation, spent two or three days....dancing and singing, boomerang throwing, spear hurling, didgery-doo playing, climbing trees and nulla-nulla competition.*

The annual return for the Aboriginal Protection Board in 1891 records that 261 Aboriginal people lived in the Dubbo district, which included Peak Hill and Narromine (English et al 1998:50), with many Aboriginal men employed on pastoral stations.

The majority of other records are those relating to the establishment of Aboriginal missions and subsequent documents (such as those produced by the Australian Inland Mission) that document aspects of mission life. OzArk (2011) identified that, in 1905, the Peak Hill Express referenced that Aboriginal people had been camped 'for many years' in the vicinity of Tomingley but that a 'fresh reserve' had been selected for Aboriginal people between Tomingley and Bulgandramine about one mile from the Bogan River. A street map of Tomingley from 1919/1920 (reproduced in OzArk 2011) does show an Aboriginal reserve at northern edge of Tomingley adjacent to the Tomingley West road. However, this reserve is not identified in parish maps dating from the period and it seems that any such reserve was an informal one.

The Bulgandramine Mission was formally established in 1907 and was located on the Bogan River 22km north-west of Peak Hill (to the west of the proposal area). The mission remained in existence until 1941, with many Aboriginal people from the broader region relocated to live in this area. While details of mission life are not revisited here, they are very well documented in Keed (1985). Of relevance to the review of contextual information for the proposal area is the outcomes of oral history interviews conducted by OzArk (2011) in which reference was made to Aboriginal people travelling from Bulgadramine to Tomingley along Gundong Creek and that a number of important camping locations were associated with Gundong Creek. Egloff (1987:7) also references the movement of Aboriginal people from Bulgandramine to Peak Hill following the closure of the mission.

*It is noted that additional sources of ethnohistoric information or oral history may be provided by Aboriginal parties in response to this draft report. Should this occur, the relevant information (if identified as appropriate for inclusion by the relevant party) will be included here.*

## **5.2 Archaeological Context**

The review of the archaeological context of the proposal area involves the completion of a review of both registered Aboriginal archaeological sites and the outcomes of previous archaeological investigations undertaken in the region.

### 5.2.1 AHIMS Searches

The Office of Environment and Heritage (OEH) Aboriginal Heritage Information Management System (AHIMS) is a database of sites recorded as a result of previous investigations and for which site cards have been submitted. Submission of site cards for registration on AHIMS is undertaken to satisfy the requirements of Section 89A of the NPW Act. Searches of the AHIMS database were conducted in September 2015 (updated in October 2016) and encompassed a buffer of 500 metres either side of the proposed rail centreline. Updated searches for new proposal areas were undertaken in July 2016. AHIMS data was primarily obtained as shapefiles, with other searches included in full in **Appendix 4**.

The AHIMS searches identified a total of 19 sites located within 50 metres of the proposal area. These are listed in **Table 5.1** with descriptive information. The location of relevant archaeological sites is shown in the mapping of survey results in **Section 6.2** and **Figures A1** to **A34**.

**Table 5.1 Description of AHIMS registered sites within 50m of the proposal area**

AHIMS #	Site Name	Site type	Distance to proposal area	Description
35-3-0206	GDM 1	Artefact scatter	Within proposal area	Two quartz flaked pieces in exposure bordering Backwater Cowl
35-3-0207	GDM 2	Scarred tree	Within proposal area	Live bimble box with ovoid scar
35-3-0208	GDM 3	Artefact	Within proposal area	One flake (fine grained siliceous) in exposure bordering Backwater Cowl
35-6-0002	Trewilga/Ten Mile Creek	Quarry	15m south of proposal area	Potential basalt quarry, with stone outcropping as well as exposed within a former mine shaft
35-6-0009	Hollywood Station, Peak Hill	Scarred tree	50m east of proposal area	Scarred tree adjacent to rail line
35-6-0062	MD 45 Tomingley CK1;Parkes-Narrormine Railway;	Artefact scatter	Within proposal area	Two artefacts within an exposure disturbed by road and telecommunications works. Artefacts comprised flaked pebble and silcrete microblade
35-6-0063	MD 46 Tomingley CK2;Parkes-Narrormine Railway;	Isolated artefact	Within proposal area	Volcanic flake with pebble cortex located in erosion exposure associated with vehicle track and telecommunications works north of Tomingley Creek and east of rail line
35-6-0064	MD 41 Bulldog CK3;Parkes-Narrormine Rail line	Artefact scatter	40m east of proposal area	Site card not available
35-6-0065	MD 43 Bulldog CK5;Parkes-Narrormine Rail line	Artefact scatter	Within proposal area	Five artefacts in vehicle track adjacent to rail line. Three flakes, one flaked piece and one 'lithic fragment'

AHIMS #	Site Name	Site type	Distance to proposal area	Description
35-6-0066	MD 40 Bulldog CK2;Parkes-Narrormine Rail line	Artefact scatter	75m east of proposal area	Site card not available
35-6-0067	MD 38 Tomingley West Rail 1; Parkes-Narrormine Rail line	Isolated artefact	30m south-east of proposal area	Chert core located on an access track north of Gundong Creek and south of an un-named tributary on the eastern side of the rail line within the corridor
35-6-0068	MD 39 Bulldog CK 1;Parkes-Narrormine Railway;	Isolated artefact	20m east of proposal area	Single quartz flake on a track exposure to east of rail line
35-6-0069	MD 37 Tomingley West Rail 2;Parkes-Narrormine Rail Line	Isolated artefact	60m east of proposal area	Silcrete flake located on a track exposure to the east of rail line
35-6-0070	MD 20 Burrabadine Creek Parkes-Narrormine Railway	Artefact scatter	Within proposal area	Unspecified number of artefacts (quartz flakes) on north and south banks of Burrabadine Creek to east of rail line. Clay nodules identified as potential remnants of hearth
35-6-0071	MD 44 Bulldog CK 6;Parkes-Narrormine Rail Line;	Artefact scatter	20m east of proposal area	Two quartz flakes in a vehicle track exposure to east of rail line
35-6-0072	MD 42 Bulldog CK 4;Parkes-Narrormine Rail Line easement;	Isolated artefact	10m east of proposal area	Quartz flake on track exposure on slopes to south bank of Bulldog Creek to east of rail line
35-6-0162	T-ST1	Scarred tree	60m north of proposal area	Grey box with large elongated scar oriented west. Based on size and shape, suggested canoe scar

AHIMS #	Site Name	Site type	Distance to proposal area	Description
35-3-0163	T-OS1 with PAD	Artefact scatter with potential archaeological deposit	45m south of proposal area	Artefact scatter present within elevated ploughed creek bank to the north and south of Ten Mile Creek and extending east and west of assessed area. Site is identified as PAD with moderate potential for intact archaeological deposits below the plough zone
43-3-0111	P2N IA1	Isolated artefact	Within proposal area	Silcrete flake located on an access track on the northern bank of a tributary of Ridgely Creek

The majority of the sites listed in **Table 5.1** consist of sites containing stone artefacts. In general terms, the numbers of artefacts identified within these sites are low and typically contain less than five artefacts. Artefacts are manufactured from a range of materials including quartz and silcrete. The two largest sites (in terms of artefact numbers) are associated with Ten Mile Creek and Burrabadine Creek, both of which are relatively major watercourses in the area. The artefact scatter at Ten Mile Creek was also assessed as having the potential to contain additional artefacts in a sub-surface context as will be discussed further below.

There are 3 recorded scarred trees within 50 metres of the proposal. This is not unexpected given the relative frequency with which scarred trees are recorded where mature native vegetation is retained within the region.

The presence of a quarry (potentially for basalt) adjacent to Ten Mile Creek at Trewilga is particularly important, given the relative paucity of stone resources within the local area, as discussed in **Section 4.1**. The distribution of sites will be discussed further with reference to other outcomes of archaeological investigations undertaken in the local area.

## 5.2.2 LEP Listings

The Parkes Local Environmental Plan (LEP) 2012 and Narromine LEP 2011 were searched for items defined in the LEPs as Aboriginal places of heritage significance that may be subject to impact by the proposal. The only item of potential Aboriginal heritage significance listed on either LEP is identified as an archaeological site (Item A1 on the Narromine LEP 2011) 'Carved Trees' and is located approximately 1.6 km northwest of the proposal area to the north of Narromine.

## 5.2.3 Previous Archaeological Investigations

The majority of previous archaeological investigations in the region have been undertaken as part of the environmental assessment process and therefore the location of assessed areas is reflective of areas subject to development. However, a review of the outcomes of these investigations is critical in gaining an understanding of the distribution and nature of sites within the area.

### Thornhill 1977

An archaeological assessment was conducted of a proposed electricity transmission line from Parkes to Peak Hill. The survey resulted in the identification of one site (AHIMS #36-6-0002) adjacent to the Newell Highway at Trewilga. The site is described as a basalt quarry, with stone outcropping as well as exposed within a former mine shaft. Three intact biface choppers were identified as well as other surface artefacts. The site card references reports of a water hole at Trewilga being a focus of camping by Aboriginal people in the local area.

### Lance 1985

Lance undertook an archaeological assessment of a proposed electricity transmission line from Forbes to Wellington, which intersects the proposal area between Alectown and Trewilga. Based on the outcome of his assessment and previous archaeological work in the region, Lance (1985) concluded that the availability of water was a major factor influencing site distribution and that the major watercourses were the focus of occupation.

### Egloff 1987

Egloff undertook an assessment of the Peak Hill mine site in relation to a proposed mining development. No sites were identified within the assessment area.



### **English et al 1998**

This assessment relates to Goobang National Park, located about 8 km to the east of the proposal area. However, it is reviewed with reference to the broader regional context. The sample survey of the National Park identified a relatively low number of small artefact scatters, with only one site containing over 100 artefacts. Artefact densities were also low. Potential hearths were found at five sites.

In terms of site distribution, no sites were identified further than 200 metres from water and the majority were on level ground but English et al (1998) acknowledge that this, to some extent, may reflect improved visibility on creeklines. Larger base camps were primarily located on the eastern side of the ranges in association with reliable water sources. Artefact scatters were primarily identified in track exposures, with the potential for additional artefacts to be present in the adjoining, less disturbed, continuation of the same landform. The artefact assemblage was dominated by fine grained volcanics with both terrestrial and pebble cortex (the external surface of a piece of stone prior to flaking) indicating this material was sourced both as pebbles/cobbles from watercourses and as outcropping material. Quartz was also relatively common within the assemblage, with lesser quantities of granite, basalt, sandstone, mudstone, chert, silcrete and quartzite artefacts.

A total of 28 scarred trees were identified, of which the majority were box eucalypts, with only 2 examples of red gum. In addition, a set of grinding grooves were identified in the base of Ten Mile Creek, a stone arrangement was recorded on Goobang Creek and a quarry was located on Goobang Creek. The stone arrangement comprised circular mounds of scree material joined by a stone lined path or corridor. The quarry was located in an area of exposed volcanic material (assessed as likely to be rhyolite) within which there was a dense deposit of artefacts resulting from the flaking of rhyolite cobbles.

### **Comber 2004**

Comber undertook an assessment for the proposed establishment of a freight logistics hub to the west of Parkes. It is noted that this assessment area included the Parkes north-west connection component of the proposal area (which is not located within the existing rail corridor). Comber's map of survey coverage demonstrates that a number of pedestrian survey transects were undertaken within the proposal area. Three scarred trees were identified, none of which are within the proposal area.

### **OzArk 2005**

OzArk undertook an assessment for a three kilometre section of realignment of Newell Highway at Trewilga, immediately adjacent to the proposal area. Two sites were recorded during the assessment. These consisted of a scarred tree located east of the current rail alignment and south of a proposed access road and an artefact scatter with PAD on an elevated, ploughed creek bank immediately adjacent to the proposal area (both of these sites are referenced in **Table 5.1**, being sites 35-6-0162 and 35-6-0163). Two artefacts were originally recorded and the area was assessed as having moderate archaeological potential, based on the potential for intact deposits to remain below the depth of the plough zone (nominally considered to be approximately 20cm). OzArk recommended that test excavation be undertaken if works associated with the proposed road alignment involved impacts below 20cm but if works were shallow only, identified that it would be appropriate to monitor works and collect any exposed artefacts.

### **AMBS 2008**

AMBS (2008) completed an archaeological assessment for a gas supply pipeline extending from Wellington to Alectown. Only one site was identified in the vicinity of the proposal area, consisting of an artefact scatter on banks of Kadina Creek (which feeds into Burrill Creek) approximately 7km east of the proposal area. The site consisted of a scatter of 11 artefacts (manufactured from chert, silcrete and quartz) on a slope exposure above the creek. In general terms, AMBS indicated that the distribution of sites broadly

concurred with their predictive model involving artefact scatters and scarred trees being most frequently identified in association with watercourses.

### **OzArk 2011**

Ozark undertook an assessment of approximately 776 hectares for a proposed gold mine at Tomingley (located approximately 5km west of the proposal area), a 46km pipeline from Tomingley to Narromine and a 20km electricity transmission line to Parkes. Both the pipeline and electricity transmission line were located to the east of the current proposal area. The assessment incorporated a relatively comprehensive review of regional records. This included reference to the presence of 4 carved trees in the vicinity of Narromine, which Etheridge (1918) referenced as indicative of a large number of graves (OzArk 2011:5-45). OzArk (2011) suggested that these carved trees are no longer visible and may have been removed. The accepted regional model linking the location of artefact scatters/isolated artefacts with watercourses is reiterated in establishing predictions for the survey.

The survey resulted in the identification of 60 sites, consisting of 54 modified trees (43 scarred, 9 possibly scarred, 1 resource gathering and 1 carved), 3 artefact scatters (one with PAD), 2 isolated artefacts and 1 ceremonial/dreaming site. The artefact scatter with PAD was identified on a river terrace/aeolian dune 6 kilometres east of Narromine and adjacent to the Macquarie River (east of the proposal area). A small program of test excavation was completed at this site due to the recognised potential for sub-surface deposits. The test excavation resulted in the recovery of 121 artefacts (mostly manufactured from quartz), with the majority of artefacts found in the upper portion of the deposit.

The recorded modified trees consisted of box or river red gums, with one ceremonial tree (a birthing tree) identified by an Aboriginal party representative. This site was located adjacent to Bradys Cowl, to the east of proposal area, with the availability of a water resource seen as a key factor in this site's location.

In reviewing the outcomes of the assessment, OzArk identified that the majority of sites in the region are located on alluvial valley floors and gentle toe slopes, predominantly close to water. Sites identified 'away from water' were assessed as being more likely to be smaller camp sites or one-off activity sites. (OzArk 2011: 5-79).

### **CQCHM 2013**

CQCHM conducted an archaeological assessment in relation to a proposed modification for Northparkes Mine, located to the east of the current proposal area. Based on a review of archaeological investigations conducted in the region, CQCHM developed key predictions, namely that the majority of sites would be artefact scatters containing less than 50 artefacts with little or no sub-surface expression/integrity. Larger sites were predicted to occur on slightly elevated areas bordering major watercourses or waterholes.

The subsequent survey of the proposed mine modification area resulted in the identification of one scarred tree and 21 isolated artefacts. The majority of isolated artefacts were found in landforms bordering the Bogan River and artefacts were primarily manufactured from silcrete and chert.

## **5.3 Preliminary Archaeological Inspection of the Proposal Area**

A targeted inspection of the Parkes to Narromine rail corridor (including much of the proposal area) was undertaken as part of the Umwelt (2014) high level Aboriginal cultural heritage evaluation for the proposal. The inspection was conducted between 10 and 14 September 2014.

During the inspections, site P2N IA1 (AHIMS #43-3-0111) was identified (as referenced in **Table 5.1**). This site is located within the proposal area and consists of a single silcrete flake located on an access track on

the northern bank of a tributary of Ridgely Creek. It is situated less than 10 metres from the current culvert edge on the western side of the rail line. This was the only site identified within the proposal area.

## 5.4 Archaeological Predictions for the proposal area

Based on the outcomes of the review of the environmental and cultural context of the proposal area, the following statements/predictions can be made:

- There are 19 previously recorded archaeological sites within 50 metres of the proposal area, of which nine are within or less than 10m from the proposal area (refer to **Figures A1 to A34**). These consist primarily of isolated artefacts/artefact scatters that are located on the banks of watercourses within the proposal area.
- The regional archaeological pattern indicates that stone artefact scatters and scarred trees are the most likely site types to be identified within the proposal area.
- Stone artefact scatters will be most frequent in number and will be larger in size in proximity to reliable sources of water. With reference to the proposal area, there are a number of key water resources. However, as discussed in **Section 4.1**, the reliability of these resources is variable and the morphology of these watercourses has, to some extent, been impacted by post-contact land use. In particular, it is likely that Gundong Creek has been subject to significant modification and may be in part artificial.
- Scarred trees may occur anywhere within the proposal area where mature native trees are found and are most likely to occur on box or river red gums.
- The distribution of other site types is more difficult to predict, with the conventional understanding being that burials will typically occur in areas of softer soils, often bordering major watercourses. However, it is noted that sites of this type are particularly susceptible to impacts from erosion and changes in soil conditions.
- Quarry sites may occur where suitable rock outcrops are present but are not common within the local area.
- In relation to all of the above, it is noted that the proposal area has been subject to significant disturbance. Within the existing rail corridor, the construction and maintenance of the existing rail line is likely to have resulted in the removal/relocation of archaeological evidence that may have been present (if any). Similarly, in adjoining farmland within the proposal area but outside the current rail corridor, clearance, grazing and cultivation of the landscape will have impacted on archaeological potential, comprising the integrity of any archaeological sites that may have been present.

## 6.0 Archaeological Survey

The archaeological survey of the proposal area was conducted between 25 July and 2 August 2016 by Nicola Roche (Umwelt Manager Cultural Heritage) accompanied by the Aboriginal party representatives identified in **Table 3.3**. The survey participants were accompanied by David Coelli (GHD) and protection officers in order to ensure compliance with all ARTC safety requirements and relevant work health and safety legislation.

### 6.1 Survey Methodology

The survey methodology was designed to satisfy requirements for archaeological survey as established in *Code of Practice for Archaeological investigation of Aboriginal objects* (DECCW now OEH 2010) and the *Guide to investigating assessing and reporting on Aboriginal Cultural Heritage in NSW* (OEH 2011).and was provided to all Aboriginal parties for review and comment prior to the commencement of the survey.

The archaeological component of the survey addressed the following requirements:

- The survey was designed and implemented to ensure that an adequate sample of all the landforms present within the proposal area was obtained.
- Previously identified archaeological sites present within the proposal area and potentially subject to impact by the proposal were inspected and rerecorded where the sites were accessible.
- The survey effort involved a combination of vehicle inspection (using a high rail vehicle travelling within the existing rail corridor) and pedestrian survey. Pedestrian survey effort was focussed on areas of greatest archaeological potential, areas containing previously recorded archaeological sites and portions of the proposal area that include provision for impacts outside the current rail corridor.
- Areas selected for pedestrian survey were walked by the survey participants at intervals determined with reference to ground surface visibility and levels of exposure.
- Throughout the survey, Aboriginal party representatives were provided with the opportunity to undertake pedestrian survey at any areas that they identified as having potential and/or requiring further inspection.
- Information recorded during the survey included (but was not limited to):
  - landform
  - gradient and aspect
  - vegetation
  - geology and soils
  - occurrence of Aboriginal resources (food and medicine plants, prey animals, stone and water)
  - average ground surface visibility
  - extent of any exposures

- any information provided by the registered Aboriginal parties in relation to cultural values
- the nature of any site, Potential Archaeological Deposit (PAD) or landscape feature of Aboriginal cultural value
- the nature of any artefacts observed
- all mature trees, rock outcrops suitable for shelter, art, engraving or grinding observed will be inspected.

Visibility was recorded in terms of the percentage of the ground surface upon which artefacts may be sighted. Exposure was recorded as areas within which disturbance (natural or anthropogenic) has removed or exposed the upper soil layer to permit the detection of artefacts (if any) that were formerly located in a sub-surface context. This information was used to calculate effective coverage in accordance with the *Code of Practice for Archaeological investigation of Aboriginal objects* (DECCW now OEH 2010).

All sites and artefacts located were recorded in accordance with the requirements of the *Code of Practice for Archaeological investigation of Aboriginal objects* (DECCW 2010). The archaeological, Aboriginal and cultural significance of the sites/artefacts was discussed with the registered Aboriginal parties participating in the survey as was any requirements for subsurface testing of sites and PADs as part of the assessment process/or post approval..

In relation to the evaluation of landscape units in terms of their Aboriginal archaeological potential, based on the Aboriginal archaeological pattern for the region, particular focus was placed on landforms associated with water resources. In this manner, all watercourses (and the associated banks and terrace landforms) were evaluated with reference to:

- reliability of the watercourse (that is, prior to the impacts on historical landuse, was the creekline likely to have been a source of permanent, semi-permanent or occasional water and associated resources). This was evaluated based on consideration of historical maps, morphology of the stream channel, nature of vegetation associated with the watercourse (eg. is there mature vegetation of the type associated with water resources), current watercourse condition and stream order.
- disturbance factors that may have impacted/removed archaeological evidence such as excavation/channelling for agricultural purposes
- association with other landforms likely to be of high archaeological potential such as source-bordering dunes or extensive terraces.

With reference to these factors, the archaeological potential of the landforms bordering each watercourse were rated as:

- low archaeological potential - likely to contain only limited archaeological evidence and/or highly disturbed
- moderate archaeological potential – may contain archaeological evidence but not likely to be extensive and may have been subject to partial disturbance
- high archaeological potential – areas predicted as likely to contain archaeological evidence in comparatively high quantities and that have not been subject to a sufficient level of disturbance to result in significant impacts/harm to archaeological deposits, particularly where there was a potential for archaeological deposits to be present at considerable depth.

## 6.2 Survey Coverage

The description of survey coverage is divided between vehicle coverage and pedestrian survey effort.

### 6.2.1 Vehicle Survey

It is acknowledged that vehicle survey is not a sufficient strategy to allow for the identification of sites within the landscape. However, given the highly disturbed nature of the majority of the proposal area, it was considered appropriate to use vehicle survey to opportunistically identify any additional areas that may warrant pedestrian survey and also to obtain a broader understanding of the general environment of the proposal area, including the nature of disturbance.

Vehicle survey was undertaken along the entirety of the current rail corridor within the proposal area and on selected access roads that were not subject to pedestrian survey. During the vehicle survey, the vehicle was halted at all identifiable watercourses (particularly mapped) to evaluate the levels of modification and disturbance at each watercourse and to identify if pedestrian survey was warranted. Similarly, the vehicle was halted on the rail corridor in the vicinity of any proposed works to be located outside the current rail corridor and consideration was given to the levels of visibility, nature of the landforms and accessibility of any works outside the corridor.

During the vehicle survey, the following drainage lines were identified as having low archaeological potential and not warranting further pedestrian inspection.

- Ridgey Creek Tributaries 1 & 2 and Hallinans Creek. These watercourses were assessed as having low archaeological potential as they are not formed creeks with bed and bank morphology but rather represent general flow lines that possibly reflect the influence of agricultural land use and the establishment of the current rail line and culverts.
- Cookapie Creek was assessed as having low archaeological potential as it appears to have been substantially modified such that its course appears to be largely artificial. It is possible that this modification was undertaken as a means to distribute from the former Cookapie Ponds, as they were described by Mitchell (1835).
- Bradys Cowal was assessed as having low archaeological potential as this watercourse has been heavily modified both within and outside corridor, potentially as a result of efforts by landowners to manage water flows through the use of contours and dams.
- Gundong Creek was assessed as having low archaeological potential as it has been heavily modified and forms an entirely artificial linear channel on the west side of the proposal area. This broadly concurs with historical references to channelling of this watercourse.

The sections outside the current rail corridor that are proposed for ancillary works (such as construction compounds) that were not assessed during pedestrian survey (as will be discussed below) typically comprised highly disturbed agricultural land. The majority of these areas were subject to cultivation at the time of survey and visibility was poor to nil. With the exception of those areas referenced in **Section 6.2.2**, these areas were not associated with water resources, which, as previously discussed, is a critical factor in the distribution of archaeological sites. These areas were assessed as having low archaeological potential and did not include previously identified archaeological sites.

## 6.2.2 Pedestrian Survey

Pedestrian survey transects are described in **Table 6.1**. Figures and plates showing the location and typical views of survey transects are included in **Appendix 5**. **Table 6.1** also identifies where any of the 19 previously recorded sites located within 50 metres of the proposal area were located within or in proximity to specified survey units.

**Table 6.1 Pedestrian survey units**

Survey Unit	Landform	Survey unit area (m <sup>2</sup> ) approx	Area accessible (m <sup>2</sup> ) approx	Visibility %	Exposure %	Effective Coverage (m <sup>2</sup> )	Effective Coverage (%)	Sites	Archaeological potential rating	Comments
1	Unnamed drainage	15000	210	60%	10%	12.6	0.08	None	Low within corridor, moderate outside rail corridor	
2	Ridgey Creek tributary 3	29550	420	80%	10%	33.6	0.11	43-3-0111	Low within corridor, moderate outside rail corridor and level crossing	
3	Lower slope	1500	1500	80%	40%	480	32.00	None	Low	
4	Burrill Creek South	16000	180	50%	20%	18	0.11	None	Low	
5	Burrill Creek North	18500	200	90%	20%	36	0.19	None	Low within corridor, moderate outside rail corridor on north side of creek	South side of creek substantially impacted by establishment of gas infrastructure
6	Very gently inclined lower slope	255	255	20%	20%	10.2	4.00	None	Low	
7	Ten Mile Creek (creek banks)	18100	900	80%	50%	360	1.99	None	Low within corridor, moderate to high outside corridor	Heavily impacted immediately adjoining Trewilga Rd by recent works associated with realignment of Newell Highway
8	Ten Mile Creek (access road)	7700	7700	80%	0%	0	0.00	Adjacent to 35-6-0002 and 35-6-0163	Low within current road, moderate to high outside road on level section from MGA 614100 6371200 to 613970 6371190	Current road surface is formed and gravelled. Works commencing on Newell Highway alignment adjacent
9	Lower slope bordering unnamed drainage (5th order)	2000	2000	60%	20%	240	12.00	None	Low with corridor, moderate outside corridor on southern side of rail	Current alignment is cut into slope, with only the area south of corridor potentially including partially intact landforms bordering creek
10	Flats	750	750	60%	20%	90	12.00	None	Low	All mature trees inspected but no evidence of site 35-6-0009, as recorded in adjacent property
11	Flats	2500	2500	60%	20%	300	12.00	None	Low	
12	Burrabadine Creek	19100				0	0.00	35-6-0070	Low	Heavily eroded both within and outside corridor, with erosion acting to strip almost all topsoil



Survey Unit	Landform	Survey unit area (m <sup>2</sup> ) approx	Area accessible (m <sup>2</sup> ) approx	Visibility %	Exposure %	Effective Coverage (m <sup>2</sup> )	Effective Coverage (%)	Sites	Archaeological potential rating	Comments
13	Lower slopes off Burrabadine Creek	9000	9000	40%	20%	720	8.00	None	Low	Land has been impacted by ongoing grazing and consists of undifferentiated lower slopes
14	Bogan River Tributary	24650	2100					None	Low	
15	Flats	6000	6000	60%	10%	360	6.00	35-6-0071, 35-6-0065, 35-6-0072, 35-6-0064,	Low	No evidence of sites present
16	Bulldog Creek	21800	500	10%	10%	5	0.02	35-6-0066	Low	
17	Lower slopes	950	950	20%	10%	19	2.00	None	Low	
18	Mid slopes	2200	2200	60%	10%	132	6.00	None	Low	Heavily eroded tracks with exposed gravels
19	Crest to slopes to minor drainage	39500	39500	50%	10%	1975	5.00	None	Low	Track gravelled in sections. Drainage line very minor and likely to reflect alterations to drainage from farming
20	Lower slope	101511	101511	10%	10%	1015.11	1.00	None	Low	Heavily cultivated. Quartz cobbles exposed in soil profile but not artefactual
21	Minor slopes, spur, minor drainage, crest	99500	99500	10%	10%	995	1.00	None	Low	Road surfaced. Minor drainage heavily impacted by agricultural land use
22	Backwater Cowal (north)	6200	650	20%	20%	26	0.42	35-3-0208, 35-3-0207	Low within corridor, moderate to high outside corridor	
23	Backwater Cowal (south)	5850	700	20%	20%	28	0.48	35-3-0206	Low within corridor, moderate to high outside corridor	
24	Lower slopes bordering Backwater Cowal	8585	8585	20%	10%	171.7	2.00	35-3-0206 (cont.)	Low within surfaced road, moderate to high in adjoining landforms	
25	Lower slopes leading to Backwater Cowal	7500	2000	50%	10%	100	1.33	None	Low within corridor	
26	Yellow Creek	23000	1500	10%	10%	15	0.07	None	Low within corridor and low-moderate outside corridor	Area outside corridor eroded and significantly impacted by other landuse including powerlines

Survey Unit	Landform	Survey unit area (m <sup>2</sup> ) approx	Area accessible (m <sup>2</sup> ) approx	Visibility %	Exposure %	Effective Coverage (m <sup>2</sup> )	Effective Coverage (%)	Sites	Archaeological potential rating	Comments
27	Tomingley Creek	2050	210	10%	10%	2.1	0.10	35-6-0062 and 35-6-0063 in vicinity	Low within corridor and low-moderate outside corridor	Area outside corridor impacted as a result of changes in flow line
28	Flats	19500	1000	10%	10%	10	0.05	None	Low	Limited size of accessible area due to bitumen covering on road. Entirety of transect inspected for scarred trees
29	Flats	3600	3600	30%	10%	108	3.00	None	Low	
30	Low inclination slopes to a minor crest	23700	4000	30%	20%	240	1.01	None	Low	Access track currently graded. Not differentiated from surrounding landscape
31	Flats	12200	12200	5%	5%	30.5	0.25	None	Low	Area heavily cultivated. Not differentiated from surrounding landscape
32	Flats and dam (modified)	12000	12000	10%	5%	60	0.50	None	Low	Area heavily cultivated. Not differentiated from surrounding landscape
33	Flats and dam (modified)	48000	800	10%	5%	4	0.01	None	Low	Area of inspection limited by cultivation. All mature trees inspected. Area heavily cultivated. Not differentiated from surrounding landscape
34	Flats	300	300	10%	5%	1.5	0.50	None	Low	Area heavily cultivated. Not differentiated from surrounding landscape
35	Slopes to crest	56000	56000	5%	5%	140	0.25	None	Low	Sandstone exposures in adjoining landscape inspected but very coarse and not suitable for grinding.

As shown in **Table 6.1**, the level of effective coverage within the majority of pedestrian transects was low. This is more a reflection of the range of factors that result in low levels of visibility and exposure within the proposal area, rather than a lack of survey effort. This makes the evaluation of archaeological potential a key factor in adequate assessment of the proposal area. This evaluation was undertaken with reference to the criteria listed in **Section 6.1**, with key additional information that affects the evaluation of archaeological potential provided in the comments section.

Areas of moderate or high archaeological potential are all associated with watercourses that appear to have provided a relatively reliable source of water (based on the factors discussed in **Section 6.1**) and would have provided suitable resources to support Aboriginal people camping in the area. Based on the archaeological pattern for the region, these areas are likely to have contained higher numbers and densities of stone artefacts than other, less well-resourced portions of the proposal area. However, the preservation of archaeological material is closely linked to disturbance factors. Consequently, due to the extent of disturbance within the current rail corridor, the level of archaeological potential within the current rail corridor (even immediately bordering reliable watercourses) is low. This reflects the extremely significant nature of the impacts associated with the construction of the current rail corridor and its ongoing maintenance, which in turn dictates that it is highly unlikely that intact archaeological deposits will be present. Thus, the only areas of moderate or high archaeological potential within the proposal areas exist outside the current rail corridor. Of these areas, four are associated with currently exposed archaeological evidence, as discussed below.

### 6.3 Archaeological Sites

In accordance with the agreed survey methodology, attempts were made to re-identify all previously recorded sites within the proposal area. In addition, if a site was originally recorded adjacent to but outside the proposal area, the adjoining portion of the proposal area was surveyed to confirm whether the site potentially extends into the proposal area and/or to take into account potentially inaccuracies in recording of site coordinates.

Additional information on the 19 sites previously recorded as being located within 50 metres of the proposal area is provided in **Table 6.2**.

**Table 6.2 Sites identified during survey**

AHIMS #	Site Name	Site type	Distance to proposal area	Survey information
35-3-0206	GDM 1	Artefact scatter	Within proposal area	Originally recorded as two quartz flaked pieces in exposure bordering Backwater Cowal. During survey, a total of 20 artefacts were recorded, as detailed in <b>Table 6.3</b>
35-3-0207	GDM 2	Scarred tree	Within proposal area	Live bumble box with ovoid scar
35-3-0208	GDM 3	Artefact	Within proposal area	Originally recorded as one flake (fine grained siliceous) in exposure bordering Backwater Cowal. During survey, a total of 29 artefacts were recorded, as detailed in <b>Table 6.3</b>

AHIMS #	Site Name	Site type	Distance to proposal area	Survey information
35-6-0002	Trewilga/Ten Mile Creek	Quarry	15m south of proposal area	Not visible within surveyed area. While recorded coordinate places site to south of proposal area, based on description is located on crest to north of proposal area on private property (not accessible at time of survey)
35-6-0009	Hollywood Station, Peak Hill	Scarred tree	50m east of proposal area	All mature trees within proposal area in vicinity of site record were inspected and no scarred trees visible. Recorded coordinate matches location of mature trees on private property outside proposal area
35-6-0062	MD 45 Tomingley CK1;Parkes-Narromine Railway;	Artefact scatter	Within proposal area	Site not re-identified during survey. Site may have been salvaged prior to construction of existing gas pipeline
35-6-0063	MD 46 Tomingley CK2;Parkes-Narromine Railway;	Isolated artefact	Within proposal area	Site not re-identified during survey. Site may have been salvaged prior to construction of existing gas pipeline
35-6-0064	MD 41 Bulldog CK3;Parkes-Narromine Rail line	Artefact scatter	40m east of proposal area	Recorded location is outside proposal area. Area in vicinity of site within proposal area inspected but no artefacts visible.
35-6-0065	MD 43 Bulldog CK5;Parkes-Narromine Rail line	Artefact scatter	Within proposal area	Site not re-identified during survey. Site may have been salvaged prior to construction of existing gas pipeline
35-6-0066	MD 40 Bulldog CK2;Parkes-Narromine Rail line	Artefact scatter	75m east of proposal area	Recorded location is outside proposal area. Area in vicinity of site within proposal area inspected but no artefacts visible.

AHIMS #	Site Name	Site type	Distance to proposal area	Survey information
35-6-0067	MD 38 Tomingley West Rail 1; Parkes- Narromine Rail line	Isolated artefact	30m south-east of proposal area	Recorded location is outside proposal area. Area in vicinity of site within proposal area inspected but no artefacts visible.
35-6-0068	MD 39 Bulldog CK 1;Parkes- Narromine Railway;	Isolated artefact	20m east of proposal area	Recorded location is outside proposal area. Area in vicinity of site within proposal area inspected but no artefacts visible.
36-6-0069	MD 37 Tomingley West Rail 2;Parkes- Narromine Rail Line	Isolated artefact	60m east of proposal area	Recorded location is outside proposal area. Area in vicinity of site within proposal area inspected but no artefacts visible.
35-6-0070	MD 20 Burrabadine Creek Parkes- Narromine Railway	Artefact scatter	Within proposal area	Site not re-identified during survey. Site may have been salvaged prior to construction of existing gas pipeline
35-6-0071	MD 44 Bulldog CK 6;Parkes- Narromine Rail Line	Artefact scatter	20m east of proposal area	Recorded location is outside proposal area. Area in vicinity of site within proposal area inspected but no artefacts visible
35-6-0072	MD 42 Bulldog CK 4;Parkes- Narromine Rail Line easement	Isolated artefact	10m east of proposal area	Recorded location is outside proposal area. Area in vicinity of site within proposal area inspected but no artefacts visible
35-6-0162	T-ST1	Scarred tree	60m north of proposal area	Recorded location is outside proposal area. Mature trees in vicinity of site within proposal area inspected but no scarred trees identified

AHIMS #	Site Name	Site type	Distance to proposal area	Survey information
35-3-0163	T-OS1 with PAD	Artefact scatter with potential archaeological deposit	45m south of proposal area	Artefact scatter not visible however during survey, portion of the proposal area within vicinity of site was assessed as having moderate-high archaeological potential outside existing road and rail corridors
43-3-0111	P2N IA1	Isolated artefact	Within proposal area	Site identified and location confirmed

Of the 19 previously recorded sites, 10 sites that map outside the proposal area and 4 sites that map within the proposal area were not visible during the survey. Eleven of these sites were originally identified during the course of archaeological inspections for construction of a gas pipeline. This pipeline is now constructed and it is possible the sites were salvaged prior to construction although the AHIMS database still lists the sites as valid (refer to OzArk 2011).

Site 35-3-0163 is recorded as an artefact scatter with an area of potential archaeological deposit. While no surface artefacts were identified in the section of the proposal area adjoining this site, the area was assessed as having moderate to high archaeological potential outside the existing areas of road and rail disturbance. This concurs with the assessment of potential archaeological deposit for site 35-3-0163.

Four sites were identified within the proposal area during the survey, being sites 43-3-0111, 35-3-0206, 35-3-0207 and 35-3-0208. Site 43-3-0111 was recorded during preliminary inspections for the proposal and was revisited during the current survey. The isolated artefact at this location remained present and site condition had not changed (refer to **Plates 28-29**).

Site 35-3-0207 was also identified. At the time of survey, Backwater Cowal was in spate and floodwater impeded visibility of the scar (refer to **Plate 30**). However, the scarred tree appears to remain in good condition, with the tree demonstrating ongoing growth. During the inspection, it was noted that the tree is on the western boundary of the proposal area and the Aboriginal party representatives requested that the tree be conserved if possible.

The recorded coordinate for site 35-3-0208 also places it on the western boundary of the proposal area. During the survey, additional artefacts were found in association with this site record. As listed in **Table 6.3**, 29 artefacts were identified at this site location, with all artefacts manufactured from quartz with the exception of one broken quartzite flake. The artefacts included a bipolar quartz core and were distributed over a large access track exposure bordering the existing rail line (refer to **Plates 31-32**) within an area of approximately 60 metres (north-south) by 10 metres (east-west), as shown in **Figure 6.1**. The identified artefacts all plot outside the proposal area but are within an existing access track.

Five artefacts were recorded within an erosion exposure bordering the proposal area within 30 metres of the registered coordinate of site 35-3-0206, as listed in **Table 6.3**. An additional 10 artefacts were recorded in exposures bordering a gravelled road and a further 5 artefacts were recorded within the adjoining cultivated paddock, as shown in **Figure 6.2** and **Plates 33-34**. These artefacts are assessed as being an extension of site 35-3-0206 as they are predominantly located within the same landform and prior to disturbance, were likely to have formed part of a broader site extending along the banks of Backwater

Cowal. Artefacts within this site are again primarily manufactured from quartz, with 2 quartzite artefacts also present.

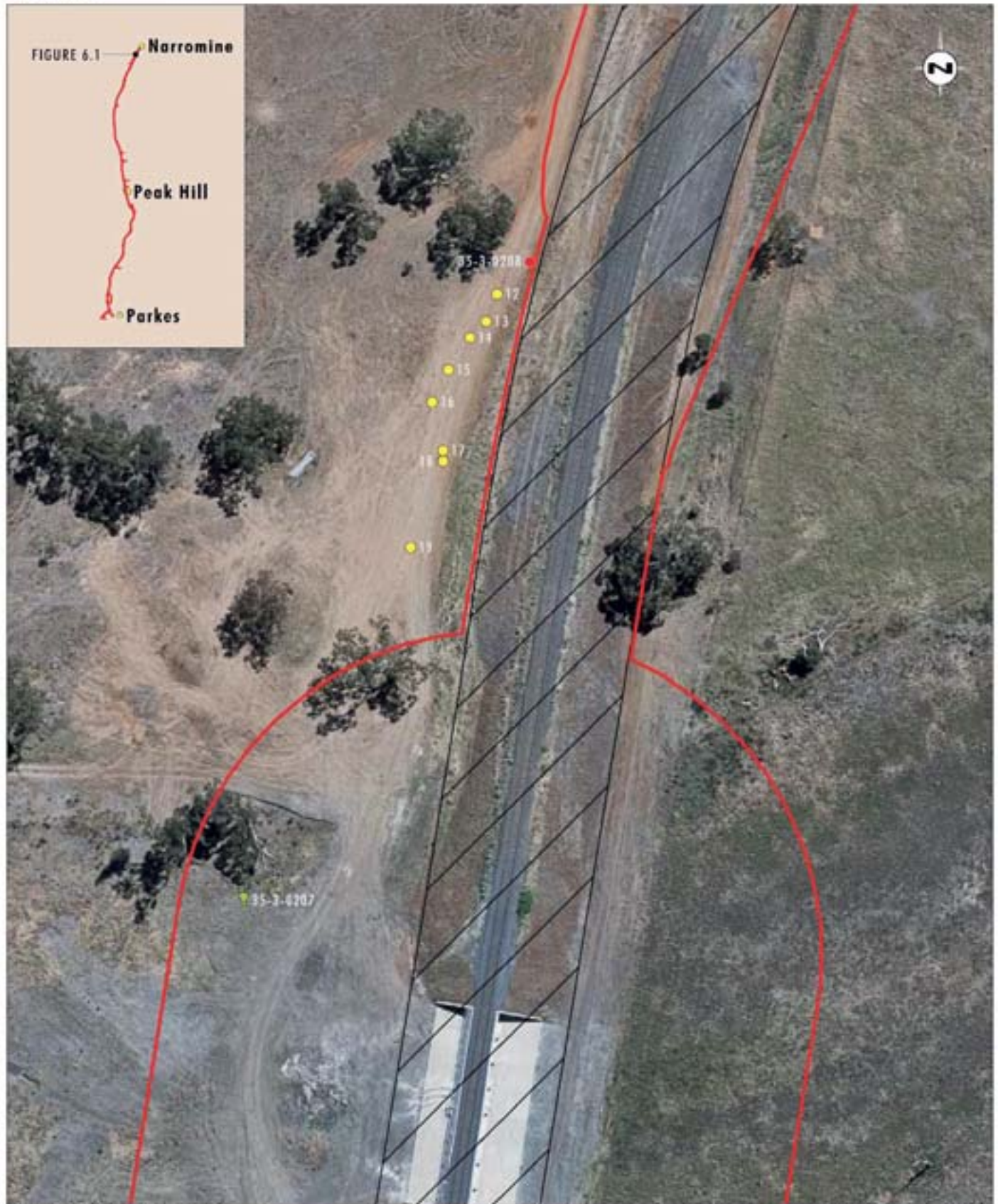


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 10 25 50m  
 1:1 000

- Legend**
- Proposal Area
  - Rail Corridor
  - Artefact Scatter
  - Artefact Location
  - 🌳 Scarred Tree

FIGURE 6.1  
 Distribution of Artefacts  
 Within Site 35-3-0208



**Table 6.3 Artefacts identified during survey**

Site	Location #	E_MGA	N_MGA	Artefact Descriptions	Total number of artefacts identified during survey
35-3-0206	1	614378	6429981	Broken coarse volcanic flake	20
	2	614373	6429964	Quartz flake, 2 quartz broken flakes, quartzite flake	
	3	614316	6429900	Quartz broken flake	
	4	614294	6429909	Quartz flake	
	5	614294	6429911	Quartz flake	
	6	614288	6429911	Quartz flake	
	7	614277	6429912	Quartz flake	
	8	614243	6429919	Quartz broken flake, quartzite broken flake	
	9	614236	6429920	Quartz flake	
	10	614178	6429923	Quartz flake	
	11	614394	6429891	Quartz flake	
	20	614345	6429756	Quartz flake	
	21	614362	6429851	Quartz broken flake (bipolar)	
	22	614318	6429892	Quartz core, quartz flake	
23	614316	6429893	Quartz broken flake		
35-3-0208	12	614417	6430230	Quartz core (bipolar)	29
	13	614415	6430225	Quartz flake	
	14	614412	6430222	Quartz flake, broken quartz core	
	15	614408	6430216	Quartz flake	
	16	614405	6430210	Broken quartzite flake, quartz broken flake, 4 quartz flakes, quartz flaked piece	
	17	614407	6430201	Quartz flake	

Site	Location #	E_MGA	N_MGA	Artefact Descriptions	Total number of artefacts identified during survey
	18	614407	6430199	Quartz flake, quartz broken flake, quartz core	
	19	614401	6430183	Quartz broken flake , 4 quartz cores, 6 quartz flakes, quartz flaked piece, quartz broken flake	

The high representation of quartz artefacts within sites 35-3-0206 and 35-3-0208 is broadly concurrent with the archaeological pattern for the region. Similarly the range of artefact types represented is not unusual, with the evidence of bipolar reduction not uncommon within quartz assemblages. Both of these sites are located within an area identified in **Table 6.1** as having high archaeological potential based on the expectation that additional similar artefacts will be present within the less disturbed areas bordering the exposures containing surface artefacts.

## 6.4 Summary

The survey of the proposal area comprised both vehicle and pedestrian survey in order to ensure maximum coverage of the area, with a focus on areas the predictive model indicated may have higher archaeological potential, including previously recorded sites. During the survey, it was noted that the current rail corridor has been subject to extensive disturbance, with areas within the rail corridor assessed as having low archaeological potential. However, eight areas were identified as having moderate or higher archaeological potential within the sections of the proposal area outside the current rail corridor. These areas include the four previously recorded archaeological sites identified during the survey.



Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

- Legend**
- Proposal Area
  - Rail Corridor
  - Artefact Scatter
  - Artefact Location

**FIGURE 6.2**  
 Distribution of Artefacts  
 Within Site 35-3-0206

## 7.0 Significance

The Burra Charter defines cultural significance in terms of aesthetic, scientific, historic and social values. Aboriginal cultural heritage is typically assessed according to its social and scientific significance; however other values may also be of importance. The assessment of cultural significance is critical in establishing mitigation and management strategies for cultural heritage (refer to Pearson and Sullivan, 1995:21).

The assessment of significance provides a guideline for determining appropriate mitigation and management strategies. The relationship between levels of significance and management strategies can be summarised as follows:

- High significance – the site should be conserved and protected from the impacts of development, where possible.
- Moderate significance – the site should be protected if possible, however, if impacts to the site are unavoidable, appropriate mitigation strategies should be implemented prior to impact.
- Low significance – the site should be protected if possible, however, if impacts to the site are unavoidable, the presence of the site should not impede the proposed development.

### 7.1 Aboriginal cultural significance

As Aboriginal cultural significance relates to the values of a site, place or landscape to Aboriginal people, it must be determined by Aboriginal people. The registered Aboriginal parties participating in the project are therefore the appropriate stakeholders to assess the significance of their cultural heritage. In assessing this significance, a range of factors may be considered and this can extend beyond the physical presence of a site and its contents to intangible aspects of the cultural landscapes. Archaeological material, cultural knowledge, natural resources and landscape attributes may all be considered.

No specific comments were provided by Aboriginal party representatives during the survey regarding Aboriginal cultural values or significance associated with the proposal area or the sites and areas of sensitivity it contains. No further comments were received from Aboriginal parties regarding Aboriginal cultural significance.

### 7.2 Archaeological (Scientific) Significance

The criteria applied to the assessment of archaeological significance are listed in **Table 7.1**. The significance of the sites identified within the proposal area is assessed in **Table 7.2** with reference to the criteria described below.

**Table 7.1 Criteria for Assessment of Archaeological Significance of the Sites**

<b>Criterion</b>	<b>Low</b>	<b>Moderate</b>	<b>High</b>
<b>Rarity</b>	The site within the surrounding landscape, its integrity, contents and/or potential for subsurface artefacts, are common within the local and regional context.	The site within the surrounding landscape, its integrity, contents and/or potential for subsurface artefacts, are common within the regional context but not the local context.	The site within the surrounding landscape, its integrity, contents and/or potential for subsurface artefacts, are rare within the local and regional context.
<b>Representativeness</b>	This site, when viewed in relation to its integrity, contents and/or potential for subsurface artefacts, is common within a local and regional context and sites of similar nature (or in better condition) are already set aside for conservation within the region.	This site, when viewed in relation to its integrity, contents and/or potential for subsurface artefacts, is uncommon within a local context but common in a regional context and sites of similar nature (or in better condition) are already set aside for conservation within the region.	This site, when viewed in relation to its integrity, contents and/or potential for subsurface artefacts, is uncommon within a local and regional context and sites of similar nature (or in better condition) are not already set aside for conservation within the locality or region.
<b>Research potential</b>	The site, when viewed in relation to its integrity, contents and/or potential for subsurface artefacts has limited potential to contribute to a greater understanding of how Aboriginal people lived within this area or region.	The site, when viewed in relation to its integrity, contents and/or potential for subsurface artefacts has moderate potential to contribute to a greater understanding of how Aboriginal people lived within this area or region.	The site, when viewed in relation to its integrity, contents and/or potential for subsurface artefacts has high potential to contribute to a greater understanding of how Aboriginal people lived within this area or region.

Criterion	Low	Moderate	High
<b>Education potential</b>	<p>The site is not readily accessible and/or when viewed in relation to its contents, integrity and location in the landscape has limited suitability to be used for educational purposes. Other sites with higher education potential are known to be present in the local area and region.</p>	<p>The site is not readily accessible and/or when viewed in relation to its contents, integrity and location in the landscape provides a tangible example that is suitable to assist in educating people regarding how Aboriginal people lived in this area or region. However, other sites with higher education potential are known or expected to be present in the local area or region.</p>	<p>The site is readily accessible and/or when viewed in relation to its contents, integrity and location in the landscape, provides a very good tangible example that is suitable to assist in educating people regarding how Aboriginal people lived in this area or region. Other sites of higher education potential are generally not known to exist in the local area or region.</p>
<b>Integrity</b>	<p>Stratigraphic integrity of the site has clearly been destroyed due to major disturbance/loss of topsoil. The level of disturbance is likely to have removed all spatial and chronological information.</p>	<p>The site appears to have been subject to moderate levels of disturbance, however, there is a moderate possibility that useful spatial information can still be obtained from subsurface investigation of the site, even if it is unlikely that any useful chronological evidence survives.</p>	<p>The site appears relatively undisturbed and there is a high possibility that useful spatial information can still be obtained from subsurface investigation of the site, even if it is still unlikely that any useful chronological evidence survives.</p>

There are 4 sites (35-6-0062, 35-6-0063, 35-6-0065, 35-6-0070) located within the proposal area that are not associated with areas of moderate or higher archaeological potential. As discussed previously, it is possible that these sites have already been subject to impact prior to the construction of an existing gas pipeline within the proposal area. However, for precautionary purposes, the archaeological significance of these sites is considered. These sites were originally recorded as isolated artefacts/artefact scatters containing relatively low numbers of artefacts in a heavily disturbed context. When considered with reference to the criteria listed above, they rate as low for all criteria, resulting in an overall assessment of low archaeological significance.

Site 35-3-0207 is located within the area of archaeological potential on Backwater Cowal but is assessed separately as it is scarred tree. Scarred trees are relatively common within the region where mature vegetation remains extant. The site has been recorded and the measurements of the scar are well documented on the relevant site card. It therefore has low value for rarity and research potential. However, the site is in an area that is readily accessible from Narromine, the scar is a good example of a common scar type seen in the region and the scar is on a living tree that appears to be relatively healthy. On this basis the site is assessed as having moderate representative, educational potential and integrity, resulting in an overall assessment of low to moderate archaeological significance.

The assessment of the significance of areas of moderate or higher archaeological potential is primarily based on the research potential and potential integrity of additional archaeological deposits that may be contained within these areas. Given that the nature of archaeological deposits in these areas (should any exist) can only be confirmed following further investigation, this assessment is based on potential values only and is closely linked to the level of potential predicted for the area. This information is present in **Table 7.2**.

In summary, the archaeological sites within the proposal area that are not associated with areas of archaeological potential are assessed as having low archaeological potential. Site 35-3-0207 is assessed as having moderate archaeological potential. The areas of moderate or higher archaeological potential are assessed as having moderate or moderate to high archaeological significance based on potential values noting that this may be subject to revision should further investigation be undertaken within these areas.

**Table 7.2 Assessment of archaeological significance for areas of moderate or higher archaeological potential**

Landform	Sites within proposal area	Archaeological potential rating	Archaeological significance (based on potential only)
Ridgey Creek Tributary 3	43-3-0111	Low within corridor, moderate outside rail corridor and level crossing	Low within rail corridor/level crossing Moderate outside rail corridor/level crossing
Burrill Creek North	None	Low within corridor, moderate outside rail corridor on north side of creek	Low within rail corridor and south side of creek Moderate on north side of creek
Ten Mile Creek (creek banks)	None	Low within corridor, moderate to high outside corridor	Low within rail corridor Moderate to high outside corridor
Ten Mile Creek (access road)	35-6-0163	Low within current road, moderate to high outside road on level section from MGA 614100 6371200 to 613970 6371190	Low within current road Moderate to high outside road corridor at specified coordinates
Lower slope bordering unnamed drainage (5th order)	None	Low within corridor, moderate outside corridor on southern side of rail	Low within corridor and on northern side of rail Moderate outside corridor on southern side of rail
Backwater Cowal (north)	35-3-0208, 35-3-0207	Low within corridor, moderate to high outside corridor	Low within corridor High outside corridor
Backwater Cowal (south)	35-3-0206	Low within corridor, moderate to high outside corridor	Low within corridor High outside corridor
Lower slopes bordering Backwater Cowal	35-3-0206 (cont.)	Low within surfaced road, moderate to high in adjoining landforms	Low within surfaced road Moderate outside corridor on southern side of rail



## 8.0 Assessment of Harm Associated with the Proposal

Based on the description of works that form part of the proposal provided in **Section 1.3**, it is assumed that ground disturbance activities may occur anywhere within the proposal area. This, in turn, means that all sites and areas of archaeological potential located within the proposal area may be subject to both surface and subsurface impacts. The sites subject to impact are 35-6-0062, 35-6-0063, 35-6-0065, 35-6-0070, with sites 43-3-0111, 35-6-0163, 35-3-0208, 35-3-0207, 35-3-0206 also subject to impact and located within areas of moderate or higher archaeological sensitivity. There are an additional three areas of moderate or higher archaeological sensitivity not associated with identified Aboriginal objects that are subject to impacts.

It is again noted that this assessment takes a conservative approach to include the entirety of the identified construction impact zone (including both temporary and permanent impacts) but that the majority of works within the proposal area will be undertaken within the previously disturbed rail corridor, except where otherwise identified. It is possible that during the detailed design phase the construction impact zone could potentially be reduced during the ongoing development of the proposal.

With reference to the above, it is reiterated that the areas of moderate or higher archaeological potential are all situated outside the current rail corridor in areas where works such as power line relocation and the establishment of construction compounds are proposed. The detailed design will be determined based on final proposal approval, conditions of approval and land access. Following the completion of the survey, ARTC identified that construction compounds would be located outside of areas of moderate/high archaeological potential, allowing for the avoidance of the construction compound previously located in the area of moderate to high archaeological potential in survey unit 24 (on Backwater Cowal).

Furthermore, changes in detailed design may dictate that impacts will not occur in the identified areas of moderate to high archaeological potential outside the existing rail corridor. Any such changes will be considered in finalising management and mitigation works within these areas such that, if impacts are avoided within the identified areas of moderate to high archaeological potential, it will not be necessary to undertake the specific mitigations works listed in **Section 11.2**.

## 9.0 Management Options

There are a range of management options that are available in relation to the proposal area. The selection of management options is guided by the archaeological and Aboriginal cultural heritage significance of the proposal area and associated sites. These management options have been developed from an archaeological perspective following in-field consultation with Aboriginal stakeholder representatives and were subject to review by the registered Aboriginal parties.

### 9.1 Option 1 Site Conservation

This management option would involve the conservation of all or some of the sites and areas of moderate or higher archaeological potential within the proposal area. Sites 35-6-0062, 35-6-0063, 35-6-0065, 35-6-0070 are of low archaeological significance and were not identified during field work as being of notable Aboriginal cultural heritage significance. The areas of moderate or higher archaeological potential within the proposal area (including sites within these areas) have been assessed as being of moderate or moderate to high archaeological significance based on their potential values, with this significance assessment subject to revision based on the outcomes of further investigation of these areas (see **Section 9.2** below). Proposing a conservation outcome based on potential values alone is not an appropriate management option. In addition, due to engineering constraints associated with the construction and operation of a rail line (including requirements to adhere to a relatively straight course), it is not possible to significantly alter the course of the rail line without necessitating works outside the current rail corridor. Thus, if major changes are undertaken to avoid specific sites, it would result in impacts outside the current rail corridor, potentially in areas that have not been subject to substantial disturbance. In accordance with the principles of ecologically sustainable development, this is not a justifiable outcome.

However, where sites are located on the margins of the proposal area, it may be possible to undertake minor adjustments to avoid impact to the site. This may be a suitable management option for site 35-3-0207, which is a live scarred tree located on the margin of the proposal area at the edge of Backwater Cowal.

ARTC have identified that construction compounds will not be located in areas of moderate or higher archaeological potential.

### 9.2 Option 2 Further Investigation

Option 2 involves undertaking further investigation to clarify the nature, extent and significance of the areas of moderate or higher archaeological potential within the proposal area. As discussed in **Section 7.2**, these areas are assessed as having moderate or moderate to high archaeological significance based on their potential values but without undertaking further investigation it is not possible to determine whether this significance assessment should be revised and therefore whether another management option (as discussed below) is suitable. Option 2 is the most suitable option for the areas of moderate or higher archaeological potential within the proposal area, as listed in **Table 7.2**.

### **9.3 Option 3 Site Destruction without Salvage**

Option 3 would involve proceeding with the proposal and the subsequent destruction of both sites and areas of moderate or higher archaeological potential within the proposal area without any further investigation/salvage. The identified sites and areas of moderate or higher archaeological potential are all of moderate archaeological significance, with the areas of moderate or higher archaeological potential in particular having the capacity to substantially contribute to our understanding of how Aboriginal people used the area and how this changed through time. The sites and any archaeological material that may be present within the areas of moderate or higher archaeological potential are items of tangible heritage that is valued by Aboriginal people. It is therefore not considered appropriate to destroy the sites and areas of moderate or higher archaeological potential within the proposal area without undertaking further investigation. However, completion of works without further archaeological investigation or salvage is considered an appropriate management option for all other portions of the proposal area.

### **9.4 Option 4 Site Destruction with Salvage (Surface Collection Only)**

Option 4 would involve the collection of the visible artefacts within the proposal area prior to any disturbance associated with the proposal. This management option is considered valid at sites where surface artefacts remain extant and would be undertaken concurrently with further investigation works (described as Option 2).

## 10.0 Recommendations

It is noted that recommendations provided from an Aboriginal cultural perspective may differ to those based on an archaeological perspective. Scope is therefore provided for the inclusion of both sets of recommendations.

### 10.1 Aboriginal Party Recommendations

The recommendations provided in **Section 10.2** were discussed with Aboriginal party representatives during fieldwork. No further recommendations were provided by Aboriginal parties following their review of the draft assessment report.

### 10.2 Archaeological Recommendations

The following recommendations have been developed in light of the archaeological context of the region; the findings of the survey; the archaeological assessment of the proposal area; the potential impacts of the proposal; current cultural heritage legislation; and the preferred management options outlined in **Section 9.0**.

- ARTC will ensure that relevant employees and contractors are aware that it is an offence under Section 86 of the NPW Act to harm or desecrate an Aboriginal object and should provide appropriate Aboriginal cultural heritage awareness to ensure that all employees and contractors are aware of their obligations.
- Prior to the commencement of construction, archaeological excavation works should be conducted within the areas of moderate or higher archaeological potential (all of which comprise areas of potential impact outside the current rail corridor), as listed in **Table 7.2**. However, excavation works will only be undertaken in portions of these areas subject to subsurface disturbance as a result of the proposal. If required, the archaeological excavations should be undertaken in accordance with the approach outlined in **Section 11.2**.
- Prior to the commencement of construction, surface collection works should be conducted at sites 35-3-0206, 35-3-0208 and 43-3-0111 where it is identified that the proposal will result in surface impacts within the identified site area. The surface collection should be undertaken in accordance with the approach outlined in **Section 11.1**.
- With reference to site 35-3-0207, ARTC should attempt to avoid impacts within the dripline of the scarred tree and ensure that appropriate protective measures are put in place during construction works to ensure that incidental impact to the tree is avoided. Should this not be possible, an alternate management strategy for this site should be developed as a component of an Aboriginal Cultural Heritage Management Plan (see below).
- Where the proposal will involve clearance of mature native trees outside the current rail corridor in areas that were not subject to pedestrian survey (i.e. in areas where access was not available at the time of the survey), any such trees subject to clearance should be inspected for any evidence of cultural scarring. Where any scarred trees are identified, efforts should be made to avoid impact. Should this not be possible, an alternate management strategy for sites of this type will be developed as a component of an Aboriginal Cultural Heritage Management Plan (see below).

- Should suspected human skeletal material be identified at any time during proposed works, it should be managed in accordance with the strategy provided below:
  - works within the immediate vicinity of the skeletal material will cease and the area will be cordoned off for 10 metres from all edges of the skeletal material
  - the skeletal material will be inspected to determine whether it is human or animal. If necessary, advice will be sought from a forensic specialist
  - if the skeletal material is human, the NSW Police and OEH will be contacted. No excavation will proceed until an appropriate course of action has been determined in consultation with NSW Police, OEH and the Aboriginal parties
  - if the skeletal material is not human, works may proceed.
- Should potential Aboriginal objects (other than those discussed in this assessment) be identified, works should cease within 10 metres of the potential object. The object should be assessed by an appropriately qualified person to determine whether it is an Aboriginal object. If it is not an Aboriginal object, works may proceed. If it is an Aboriginal object, it will be managed in accordance with strategies that will be identified as a component of an Aboriginal Cultural Heritage Management Plan, noting that any such strategies will be consistent with the approaches outlined in **Section 11.0**.
- Should the proposal be approved, ARTC, in consultation with the registered Aboriginal parties, should develop an Aboriginal Cultural Heritage Management Plan for the proposal that is prepared with reference to all of the above recommendations.

# 11.0 Methodology for Mitigation Works

The following methodologies have been included to guide the recommended archaeological mitigation and management works within the proposal area. These methodologies will form part of an Aboriginal Cultural Heritage Management Plan that will be developed for the proposal.

## 11.1 Surface collection

Surface collection will be undertaken within the proposal area for the sites listed in **Section 10.2**, and at any other locations within the proposal area where additional surface materials may be identified over the course of salvage and construction works. The proposed surface collection methodology is as follows.

- The distribution of surface archaeological material will be assessed and where appropriate, archaeological material will be grouped into loci for the purposes of recording and analysis
- All surface archaeological material and/or clusters of surface archaeological material will be flagged and photographed
- The location of each loci or isolated area of surface archaeological material will be recorded and mapped using a hand-held 12 channel GPS
- Artefacts will be collected and placed in labelled bags with reference to site and locus (where appropriate)
- Artefacts will be retained for recording and analysis, as specified in **Section 11.3**.

## 11.2 Excavation Works

As discussed in **Section 10.0**, archaeological excavation works are recommended where the proposal will result in subsurface impacts within the areas of archaeological potential listed in **Table 6.1**. The purpose of the excavation works is to obtain a representative artefact assemblage from which it is intended further information can be obtained about Aboriginal use of the area. As such it is proposed that the excavation works will not involve excavation of the entirety of the proposal area within the sensitive areas but will be designed to obtain a representative sample. The proposed methodology for selection of the areas for Phase 1 and Phase 2 excavation are provided below as is the excavation methodology.

### 11.2.1 Phase 1 Excavations

It is proposed to undertake Phase 1 excavations in areas of archaeological potential but only in locations where the proposal will result in subsurface impacts outside the current rail corridor. To avoid doubt, subsurface excavations will not be required in the identified areas should subsurface impacts not be required in these areas. If subsurface impacts in areas of archaeological potential can be avoided, there will be no impacts to any archaeological values in these areas and no ongoing management of these areas will be required.

Proposed Phase 1 excavation strategies are listed in **Table 11.1** however these may be revised (including a reduction in excavation requirements) as part of the development of an Aboriginal Cultural Heritage Management Plan if conditions change prior to the commencement of excavation (for example, if the area is impacted by extreme weather conditions or works undertaken by another party) or if changes in detailed design dictate that impacts are no longer required in these areas. On this basis, some of the locations listed

in **Table 11.1** may not be excavated or may not be excavated to the extent listed in **Table 11.1** due to changes in proposal design or conditions.

It is also noted that the term ‘transect’ of test pits is used to refer to a linear distribution but that this may allow for the selection of test pit locations within a 10 metre wide corridor running approximately parallel to the rail corridor. Test pit locations will then be selected within the transect based on the numbers of test pits outlined in **Table 11.1**.

**Table 11.1 Proposed Phase 1 Excavation Locations (to be refined based on final proposal design/impacts)**

Survey Unit	Potential Impact Outside Rail Corridor	Potential Rating	Proposed Phase 1 excavation transects	Max. number of Phase 1 pits (50cm by 50cm)
1 (Unnamed drainage)	Culvert replacement works may require impacts outside rail corridor	Moderate outside rail corridor	1 transect on west side of rail corridor (max. length of 20m up track and down track from creek), with up to 6 test pits. Test pits to be spaced as least 10m apart	6
2 (Ridgey Creek 3)	Culvert replacement works and level crossing works may require impacts outside rail corridor and level crossing	Moderate outside rail corridor and level crossing	2 transects either side of rail corridor (max. length of 20m up track and down track from creek), with up to 4 test pits per transect. Test pits to be spaced as least 10m apart	8
5 (Burrill Creek North)	Culvert replacement works may require impacts outside rail corridor	Moderate outside rail corridor	2 transects either side of rail corridor (max. length of 40m north of creek), with up to 4 test pits per transect. Test pits to be spaced as least 10m apart	8
7 (Ten Mile Creek)	Culvert replacement works may require impacts outside rail corridor and area of existing works	Moderate to high on south side of creek outside rail corridor and area of existing works	2 transects either side of rail corridor (max. length of 100m south of creek) with up to 6 test pits per transect. Test pits to be spaced as least 10m apart	12

Survey Unit	Potential Impact Outside Rail Corridor	Potential Rating	Proposed Phase 1 excavation transects	Max. number of Phase 1 pits (50cm by 50cm)
8 (Ten Mile Creek – Trewilga Rd)	Access road works may require impacts outside existing road formation and works for Newell Highway	Moderate to high outside existing road formation and works for Newell Highway	2 transects (north side of road and south side of road) extending along road from MGA 614100 6371200 to 613970 6371190 with up to 6 test pits per transect. Test pits to be spaced as least 10m apart	12
9 (adjacent to Tweni Rd)	Culvert replacement works may require impacts outside rail corridor	Moderate outside corridor on southern side of rail	1 transect on south –west side of rail corridor extending 40m south-east from creek bank with up to 3 test pits. Test pits to be spaced as least 10m apart	3
22 and 23 (Backwater Cowal)	Culvert replacement works may require impacts outside rail corridor	High outside corridor	4 transects (2 either side of creek each with max. length 120m up track and down track from creek), with up to 4 test pits per transect. Test pits to be spaced as least 10m apart	32
24 (including area of compound south of road)	Access road works may require impacts outside rail corridor  ARTC advised that proposed compound will not be established at this location. Based on understanding that there will be no impacts within formerly proposed compound area, no test excavation required	High outside road and within up to 200m of Backwater Cowal	2 transects north and south of road (if road expansion required) containing up to 15 test pits. Test pits to be spaced as least 10m apart	15 (if road widening undertaken)



## 11.2.2 Phase 2 Excavations

Based on the outcomes of the Phase 1 excavations, Phase 2 excavations may be conducted in areas where Phase 1 excavations identify:

- A higher than average number of artefacts within a test pit, where that number exceeds 10 artefacts within one test pit
- The presence of a features such as a hearth (see methodology below)
- The presence of artefacts that are relatively rare or indicative of a specific activity type such as a grindstone, axe, concentration of backed artefacts or a knapping floor.

The area subject to Phase 2 excavation at any area of archaeological potential will not extend outside the area subject to impact by the proposal. The distribution of Phase 2 excavation locations will be determined based on the outcomes of Phase 1 excavations.

## 11.2.3 Excavation Methodology

The Phase 1 and Phase 2 excavations will be conducted in accordance with the following methodology:

- Excavation will be undertaken in units of 50cm by 50cm (except in cases where it is not practical to mechanically excavate in units of this size, in which case excavation units up to 1m by 1m will be considered)
- Excavation will be undertaken mechanically except where a potential feature is identified or it is deemed necessary to undertake manual excavation for archaeological reasons
- Excavation will be conducted in arbitrary units (spits) of 10cm in depth and will continue until the B horizon is encountered, or it is considered unsafe to continue or it is otherwise agreed by the archaeological and Aboriginal party representatives undertaking the excavations
- All excavated material (with the exception of material from features, as discussed below) will be dry or wet sieved (depending on soil conditions) through a minimum of 5mm aperture sieves, with 3mm aperture sieves to be used where suitable with reference to soil conditions and the nature of the assemblage
- Should a feature be identified, salvage of the feature will proceed with reference to the following:
  - The potential feature will be cleaned by hand to allow clarification of the nature of the feature and its extent
  - If it is considered likely to be a feature, it will be excavated in cross-section to allow for further assessment of the nature of the feature. Excavation will proceed stratigraphically or in arbitrary units defined by the depth of the feature
  - If confirmed as a feature, it will be photographed and a stratigraphic profile of the cross section will be drawn (where possible) prior to the remaining portion of the feature being excavated
  - All excavated material will be kept separate from material excavated from outside the feature and will be retained as a bulk deposit for further analysis (if warranted)

- Excavation will continue until the feature has been removed to the satisfaction of the archaeologist and Aboriginal representatives present during excavation, following which excavation can continue in the remainder of the excavation unit.
- Should potential human skeletal remains be identified, all works will cease within the excavation area containing the potential human remains until it can be determined whether the remains are human or animal. If the remains are considered likely to be human, the NSW Police and OEH will be contacted to determine an appropriate course of action. Excavation works will not recommence in the vicinity of the human remains until approval has been received from NSW Police and OEH.
- All excavated artefacts will be bagged in meaningful units and retained for analysis as described in **Section 11.3**.

### 11.3 Post-salvage analysis and reporting

Should the recovered archaeological assemblage contain enough archaeological material to allow for a statistically viable analysis, the salvaged artefact assemblage will be subject to detailed analysis. This will involve the recording of artefact class and raw material for all artefacts. Additional attributes to be recorded are listed in **Table 11.2** with reference to different artefact classes.

**Table 11.2 Artefact Analysis Attributes with reference to Artefact Class**

Artefact Class	Attributes to be recorded
Complete flakes	Length Width Thickness % Cortex Cortex Type Heat Treated (yes/no) Visible Use-Wear (yes/no) Visible Residue (yes/no) Comments – description, does it conjoin with another artefact, if used which margin was used, if it has residues on the flake etc.
Retouched Flakes	Retouched/broken retouched flake class Retouch type Visible Use-Wear (yes/no) Visible Residue (yes/no) Comments

Artefact Class	Attributes to be recorded
Cores	Length Width Thickness % Cortex Cortex Type Heat Treated (yes/no) Rotation (count) Level of exhaustion Visible Use-Wear (yes/no) Visible Residue (yes/no) Comments
Other tool types (e.g. grindstones, axes, hammerstones etc.)	Length Width Thickness % Cortex Cortex Type Heat Treated (yes/no) Visible Use-Wear (yes/no) Visible Residue (yes/no) Comments

Following the completion of all salvage activities and subsequent artefact analysis, a report will be compiled that presents the findings of the activities. The report will document the outcome of all salvage activities undertaken in relation to the proposal and will be prepared with reference to OEH guidelines and requirements. It will include:

- a description of the results of the activities including general environmental information, landscape information, soil descriptions and excavation profiles (where applicable)
- the results of detailed recording and analysis of salvaged archaeological material
- the use of recovered data to undertake a comparative analysis with the outcomes of other salvage activities within the local area to identify whether the current assemblage exhibits any significant differences from other salvaged assemblages and whether it can provide any further information on how Aboriginal people used/occupied the area.

In accordance with the requirements of the NPW Act, Aboriginal Site Impact Recording forms will be submitted to OEH for all sites subject to impact.

## 11.4 Management of Salvaged Artefacts

During the analysis of any Aboriginal artefacts described in **Section 11.3**, it is proposed that the salvaged materials will be temporarily stored at the offices of the archaeological consultant undertaking the works. No comment on this approach was provided by the registered Aboriginal parties.

The long-term management of any salvaged artefacts will be subject to consultation with the registered Aboriginal parties. It is recommended that this consultation is undertaken during the development of an Aboriginal Cultural Heritage Management Plan for the proposal. Aboriginal Archaeology Services expressed a preference for salvaged artefacts to be placed on display in a local library or local government building.

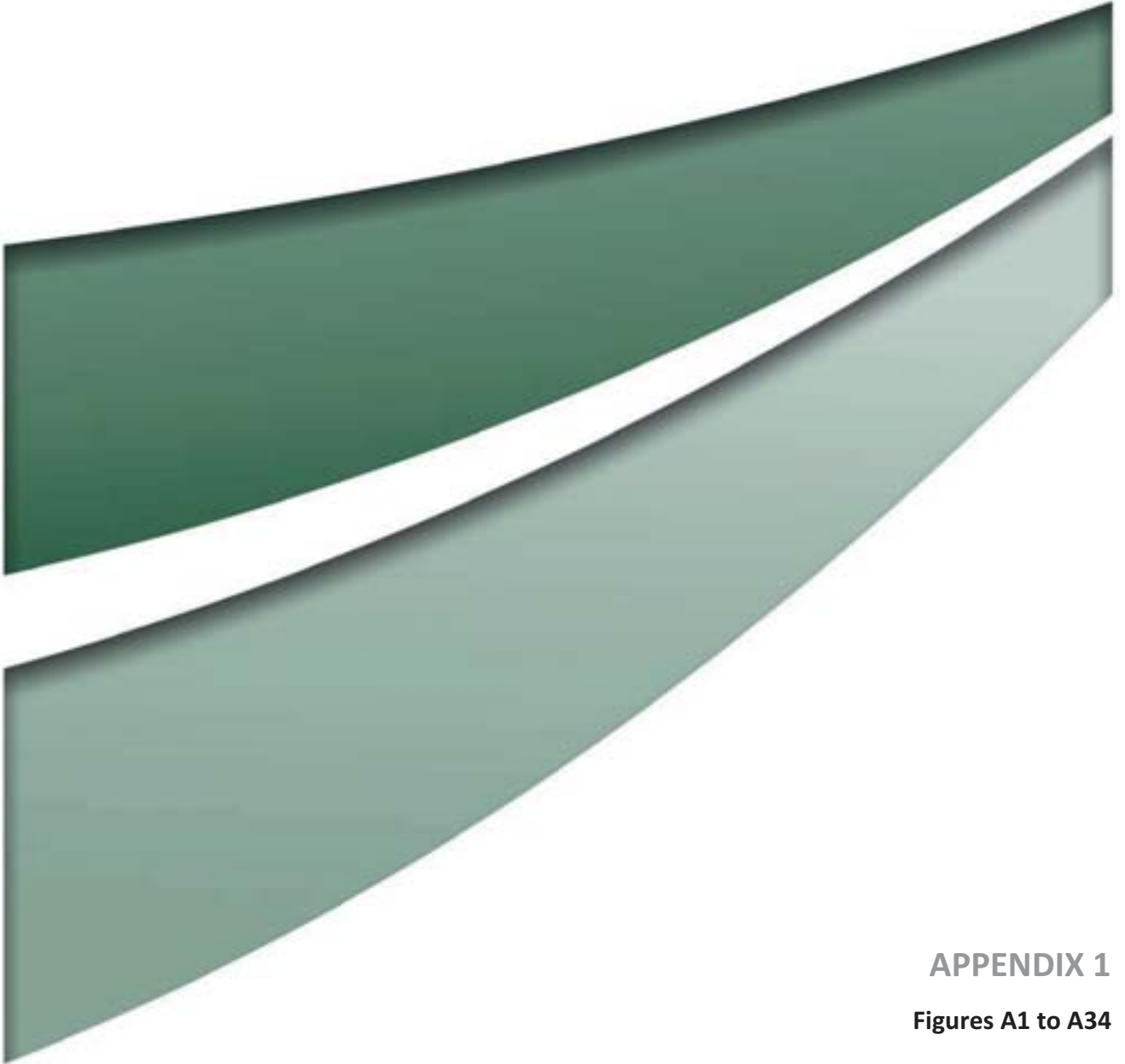
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**APPENDIX 1**  
**Figures A1 to A34**



**FIGURE A1**  
Archaeological  
Survey Areas

Image Source: ARTC (2016)  
Data Source: ARTC (2016), AHMS (2016), Umwelt (2016)

**Legend**

- ▭ Proposal Area
- ▭ AHMS Search Area
- ▭ Pedestrian Survey Effort
- ▭ Mitchell Landscape Area
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor

File Name (A4): R07/3606\_088.dgn  
20161018 12.45



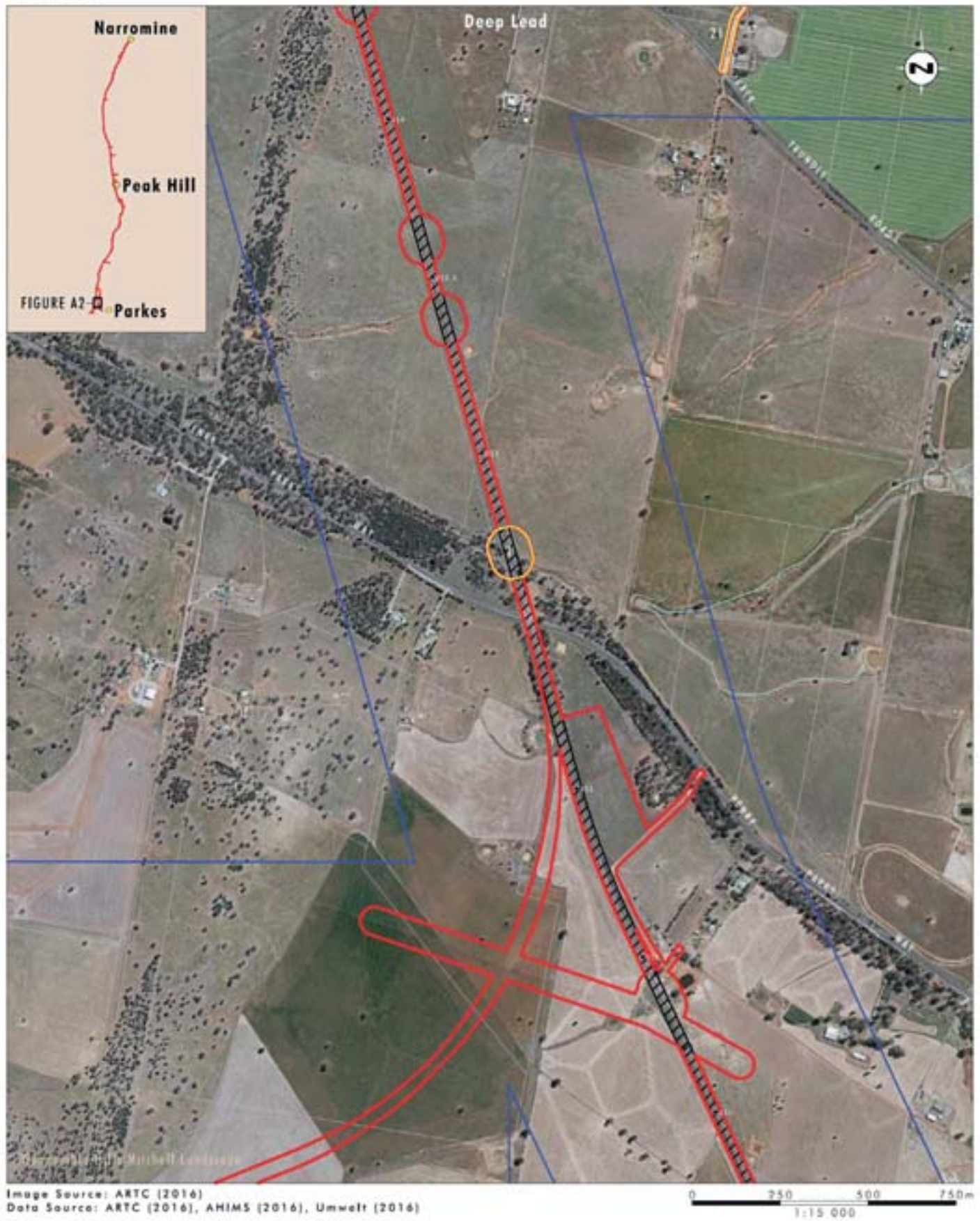


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

**Legend**

- ▭ Proposal Area
- ▭ ANIMS Search Area
- ▭ Pedestrian Survey Effort
- Drainage Line
- Rail Line Kilometerage
- ▭ Rail Corridor

FIGURE A2  
 Archaeological  
 Survey Areas

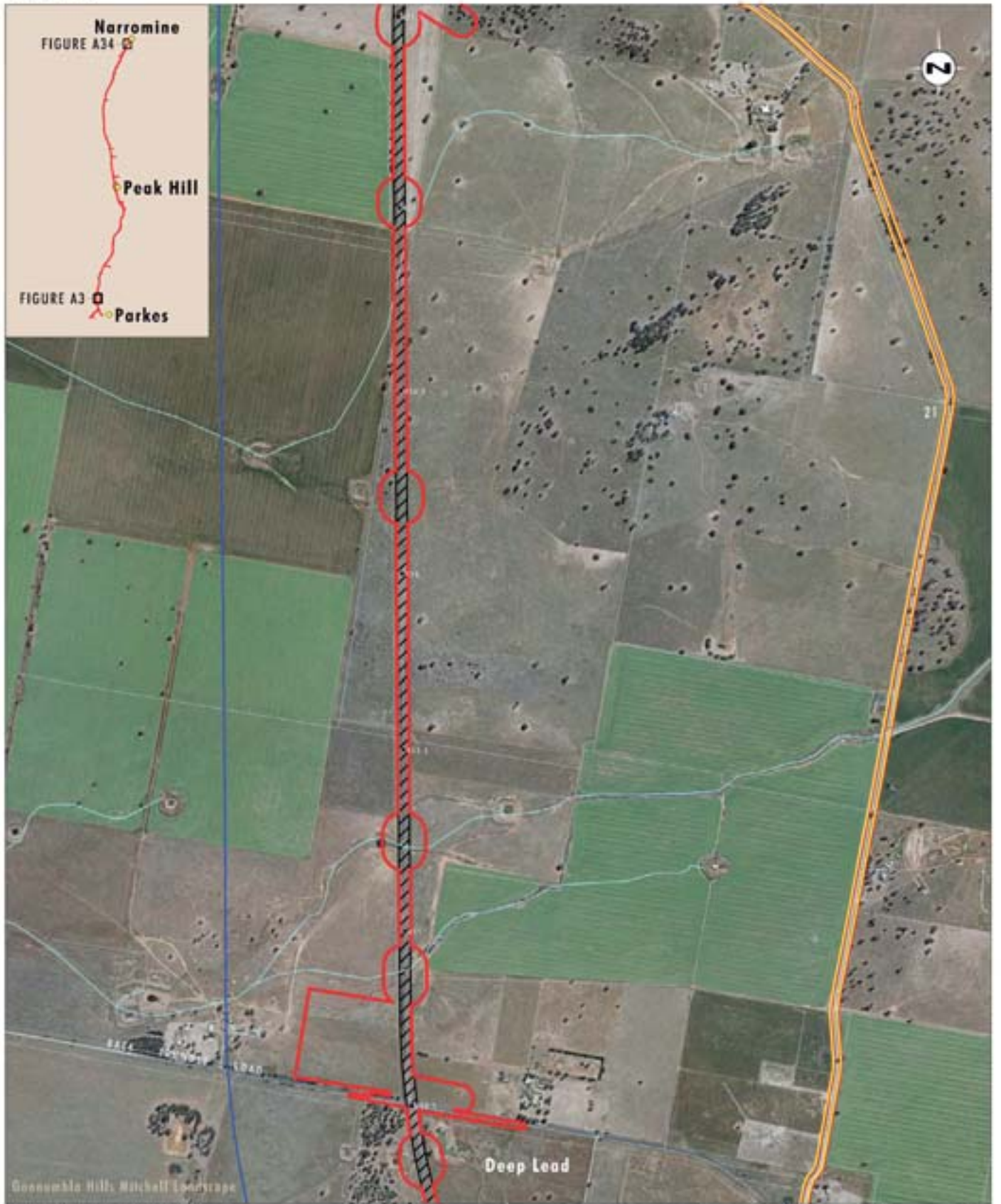


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
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**Legend**

- Proposal Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor

File Name (A4): R07/3606\_090.dgn  
 20161018 13:59

FIGURE A3  
 Archaeological Survey Areas

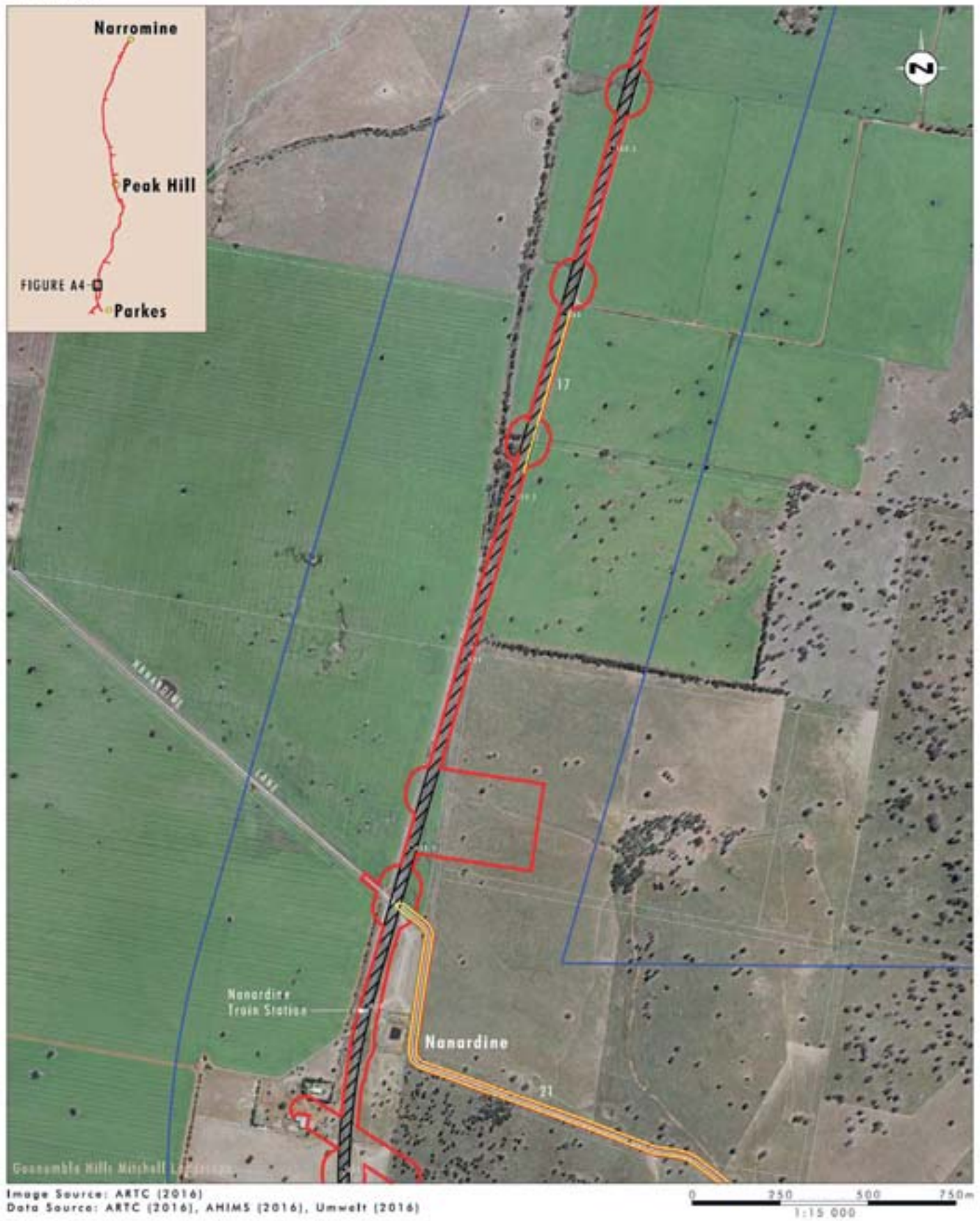


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

**Legend**

- Proposal Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor

FIGURE A4  
 Archaeological  
 Survey Areas



Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposed Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor
- Artefact Scatter

File Name (A4): R07/3606\_092.dgn  
 20161019 9:10

FIGURE A5  
 Archaeological  
 Survey Areas

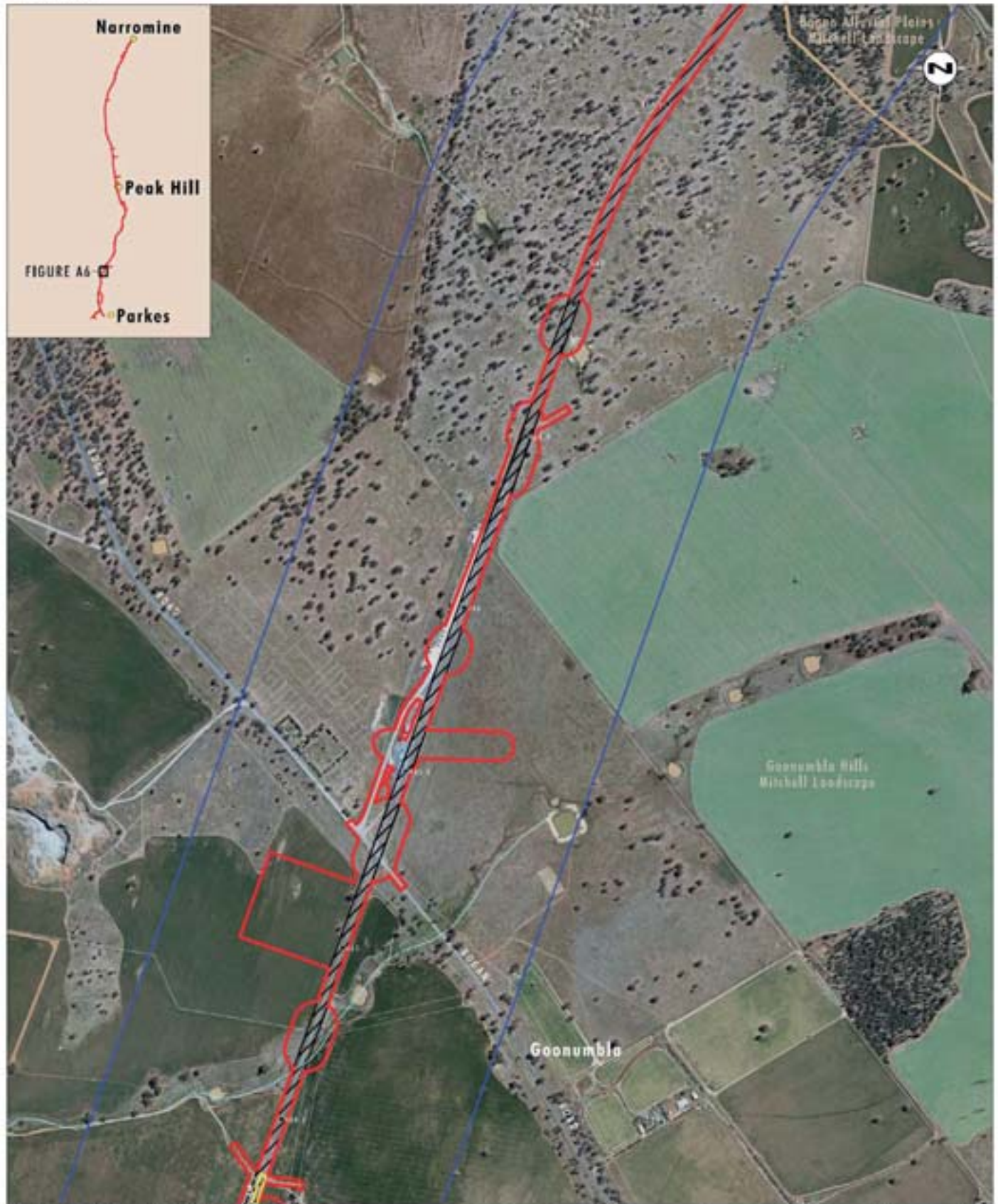


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

- Legend**
- ▭ Proposal Area
  - ▭ AHIMS Search Area
  - ▭ Pedestrian Survey Effort
  - ▭ Mitchell Landscape Area
  - Drainage Line
  - Rail Line Kilometerage
  - ▭ Rail Corridor

FIGURE A6  
 Archaeological  
 Survey Areas

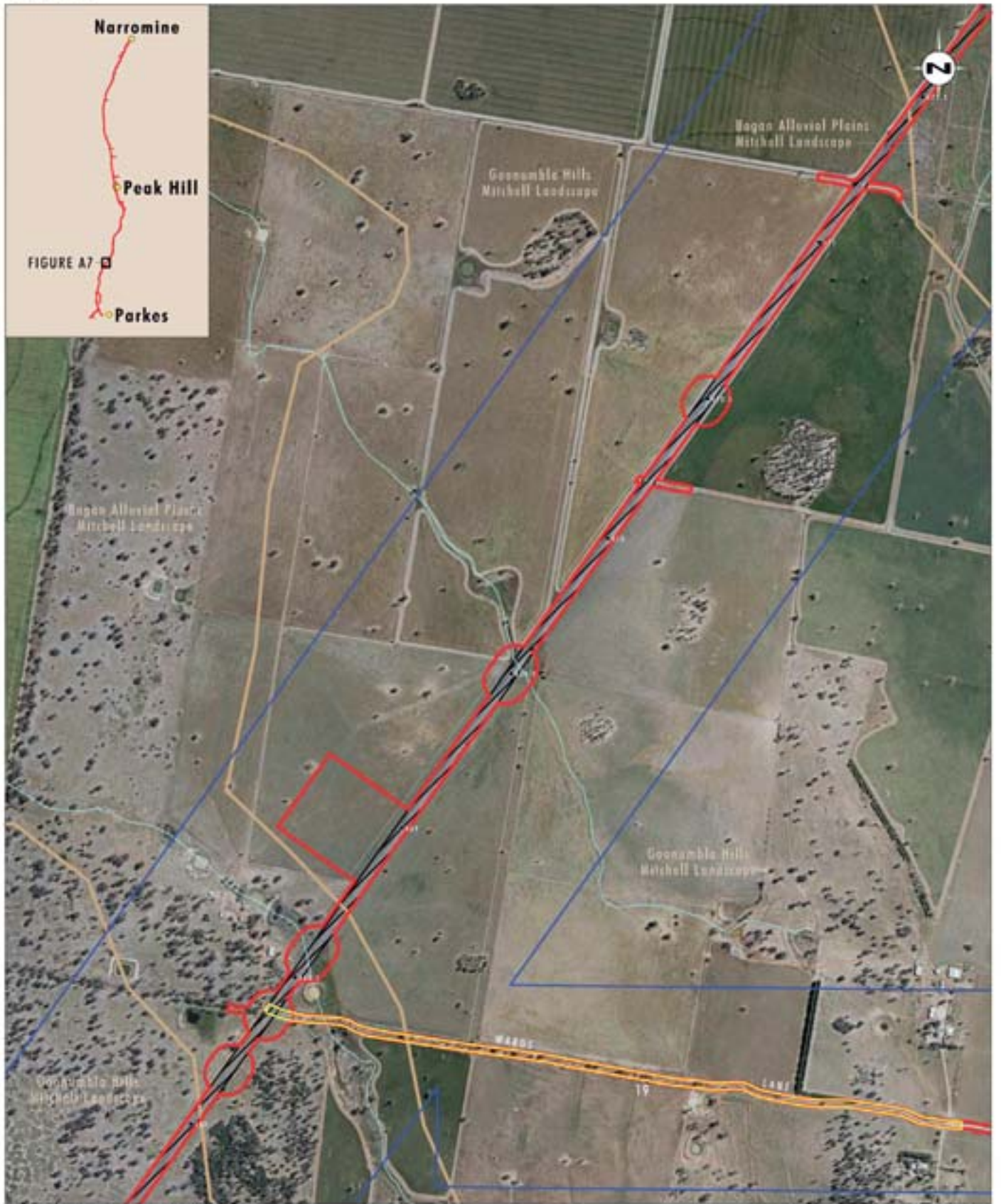


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

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 1:15 000

**Legend**

- ▭ Proposed Area
- ▭ AHIMS Search Area
- ▭ Pedestrian Survey Effort
- ▭ Mitchell Landscape Area
- ▭ Drainage Line
- Rail Line Kilometerage
- Rail Corridor

**FIGURE A7**  
**Archaeological Survey Areas**

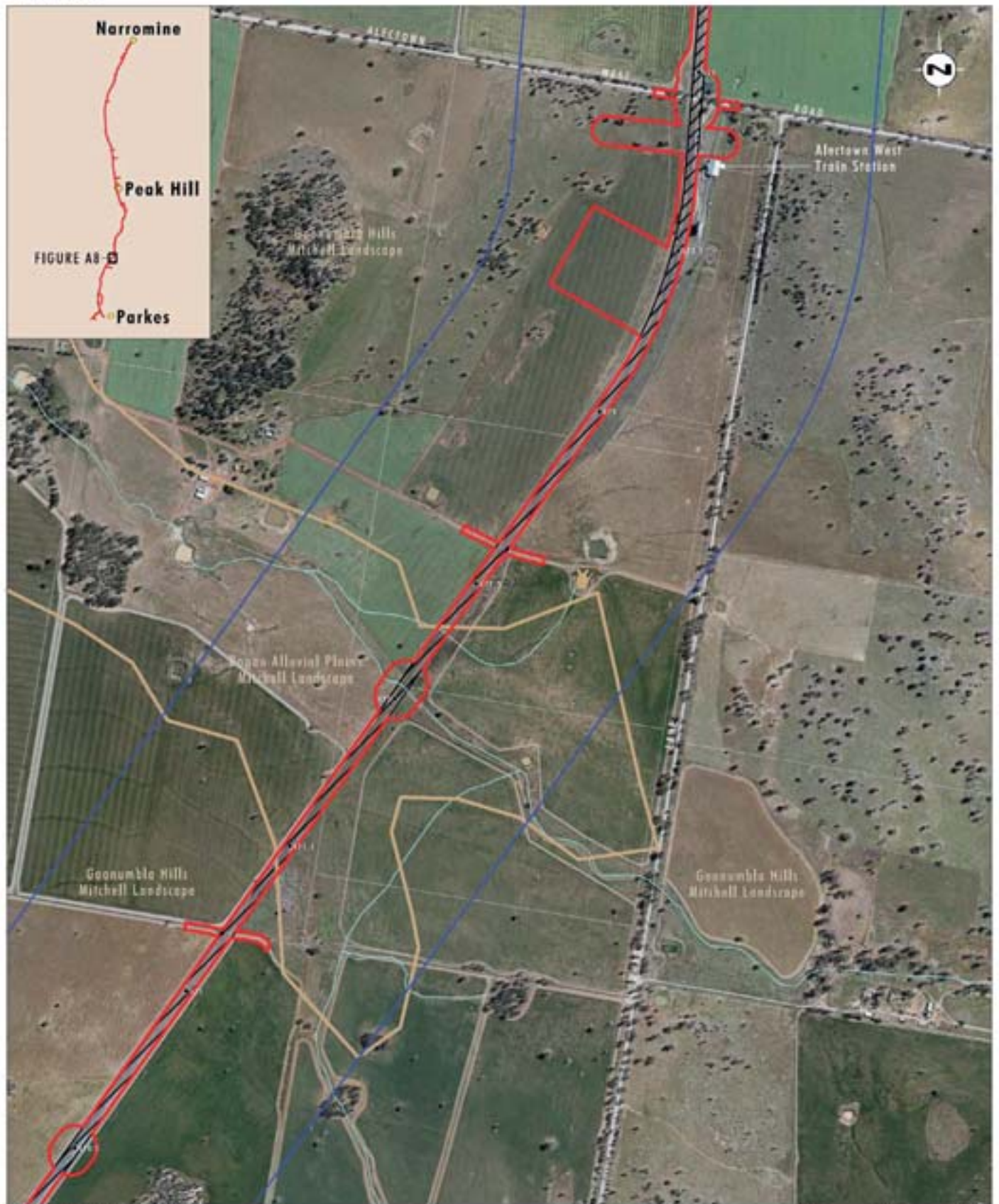


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- ANIMS Search Area
- Mitchell landscape Area
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor

FIGURE A8  
 Archaeological  
 Survey Areas

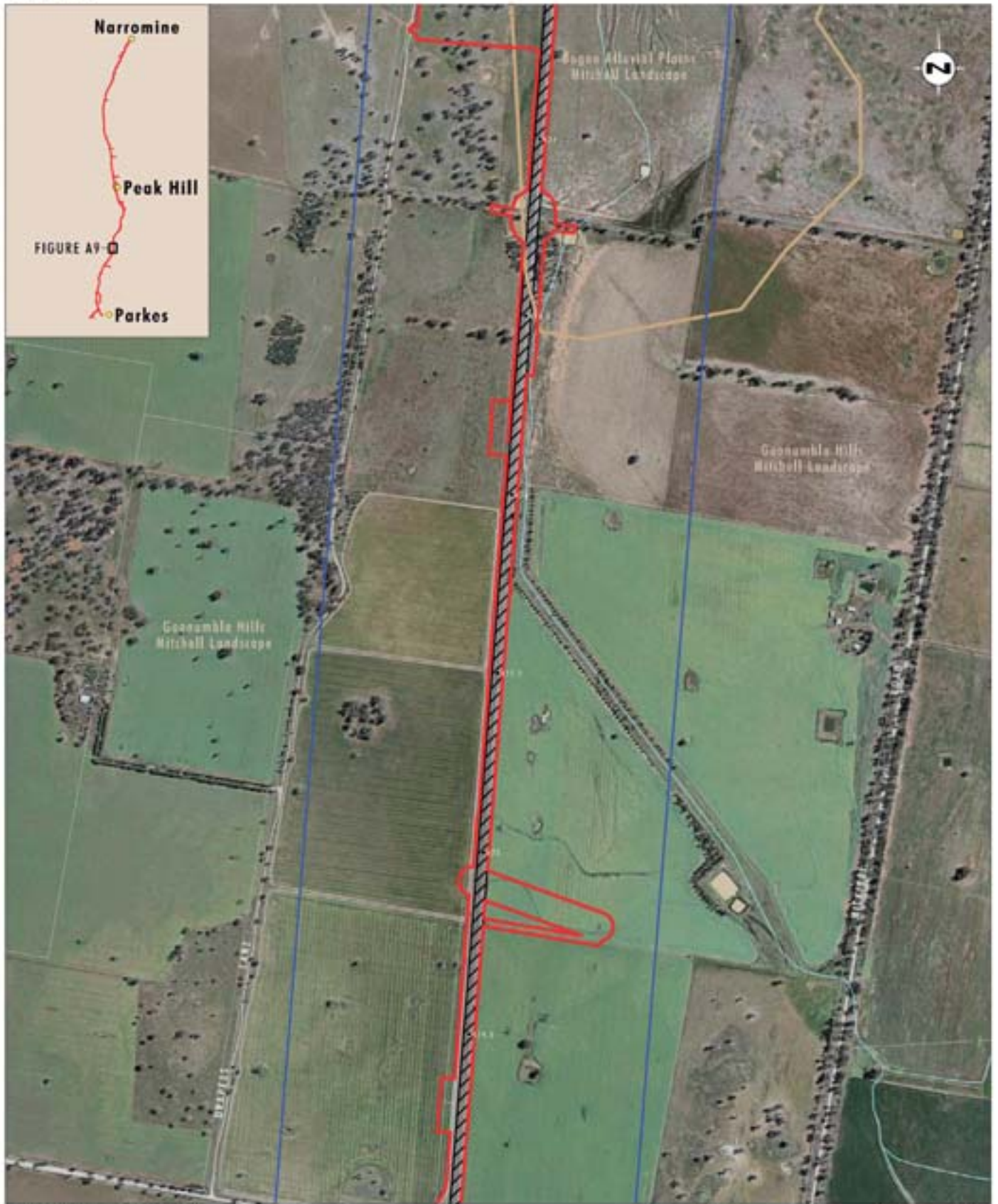


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- AHIMS Search Area
- Mitchell Landscape Area
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor

FIGURE A9  
 Archaeological  
 Survey Areas





Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

- Legend**
- Proposal Area
  - ANIMS Search Area
  - Pedestrian Survey Effort
  - Mitchell Landscape Area
  - Drainage Line
  - Rail Line Kilometrage
  - Rail Corridor

FIGURE A10  
 Archaeological  
 Survey Areas

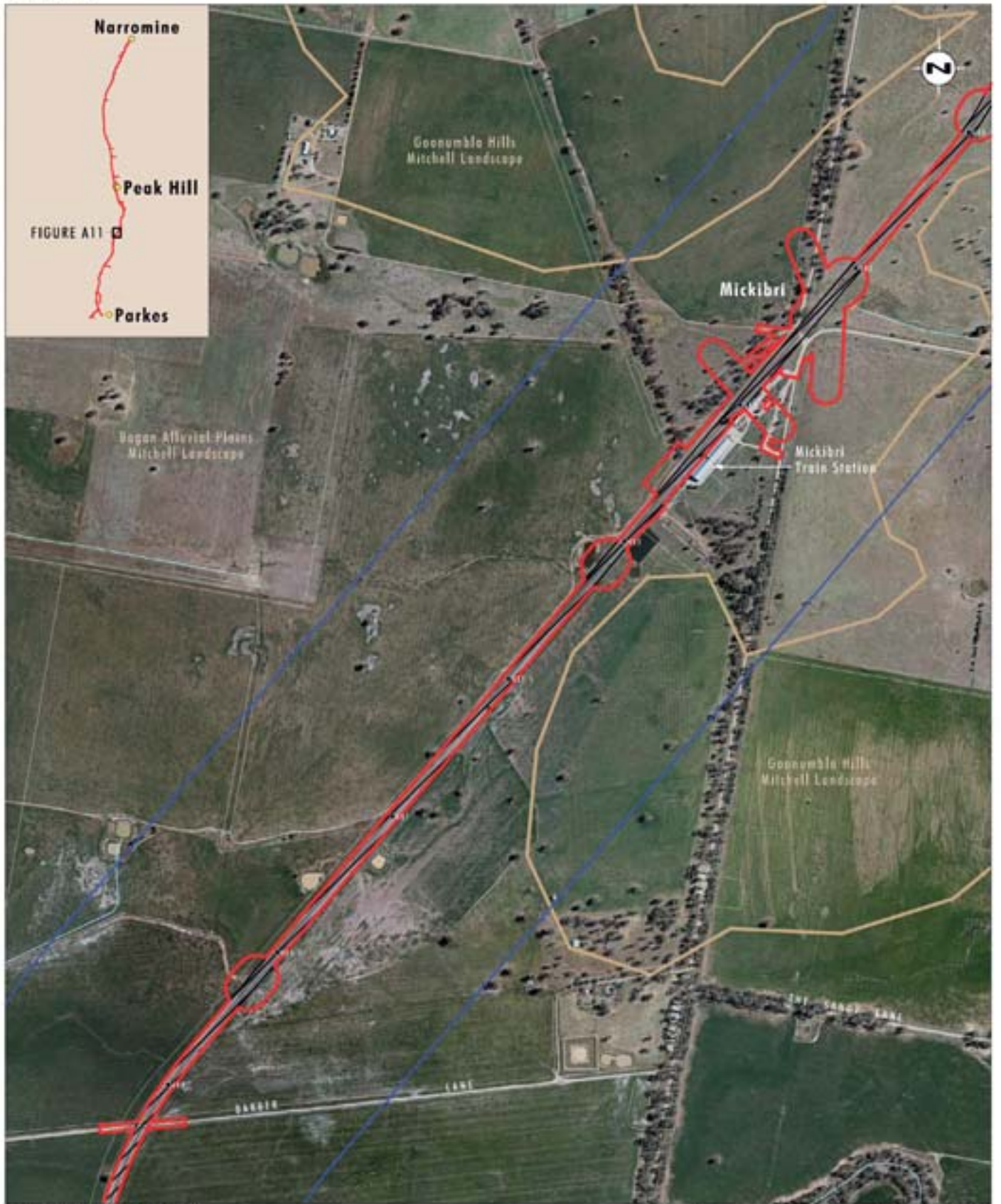


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- ▭ Proposal Area
- ▭ AHIMS Search Area
- ▭ Mitchell Landscape Area
- ▭ Drainage Line
- Rail Line Kilometerage
- Rail Corridor

FIGURE A11  
 Archaeological  
 Survey Areas

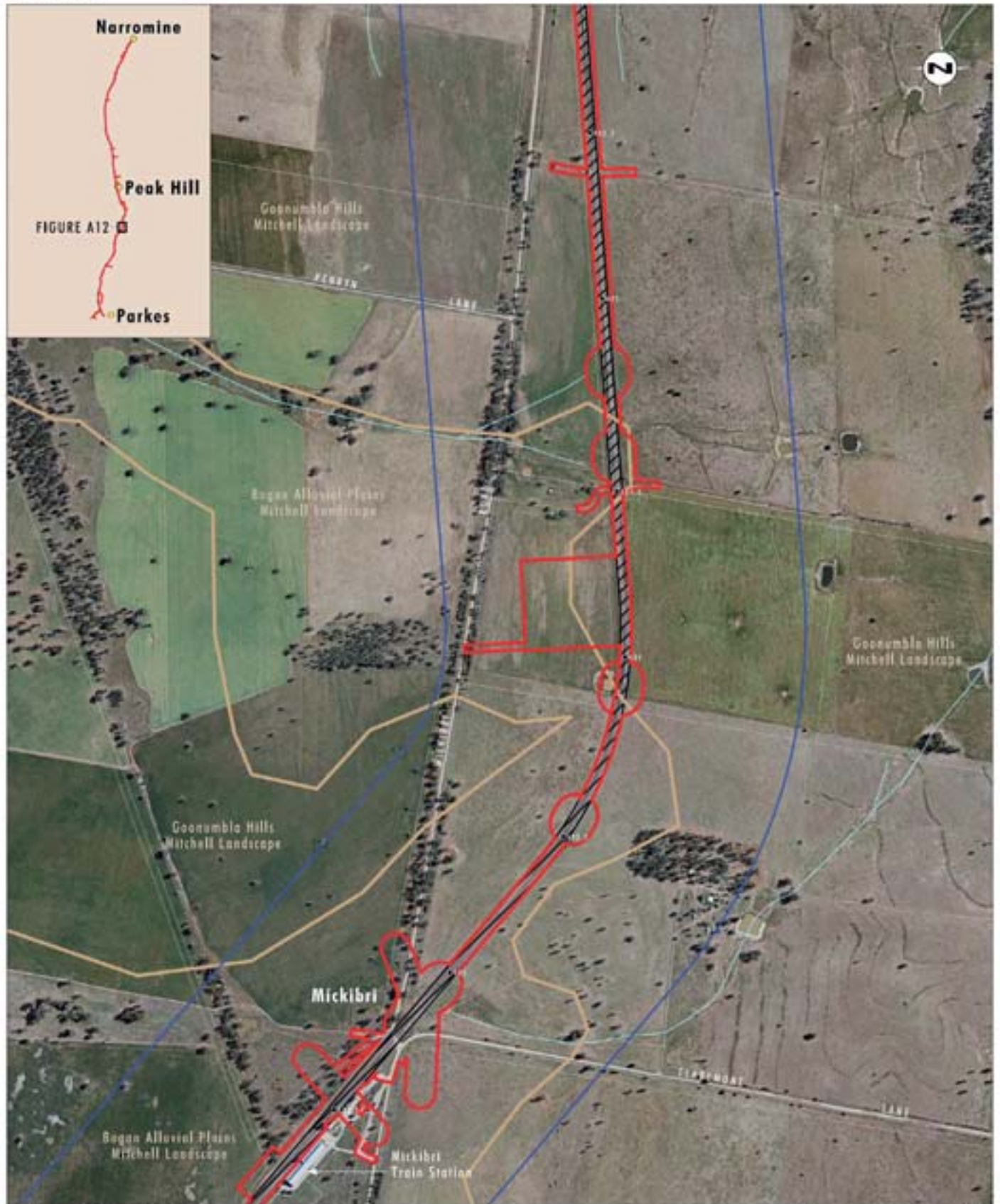


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- AHIMS Search Area
- Mitchell landscape Area
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor

FIGURE A12

Archaeological  
 Survey Areas

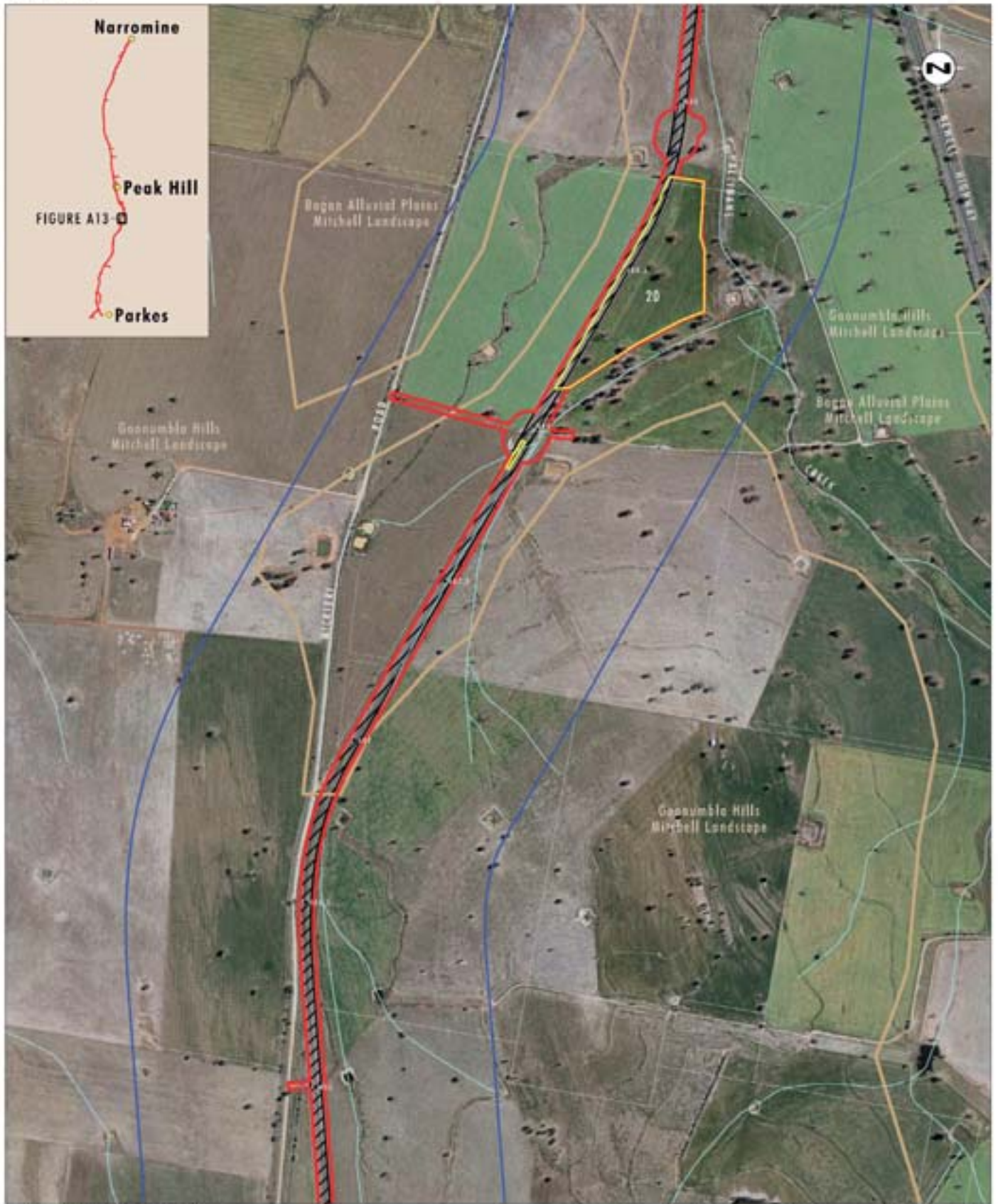


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Mitchell Landscape Area
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor

FIGURE A13  
 Archaeological  
 Survey Areas

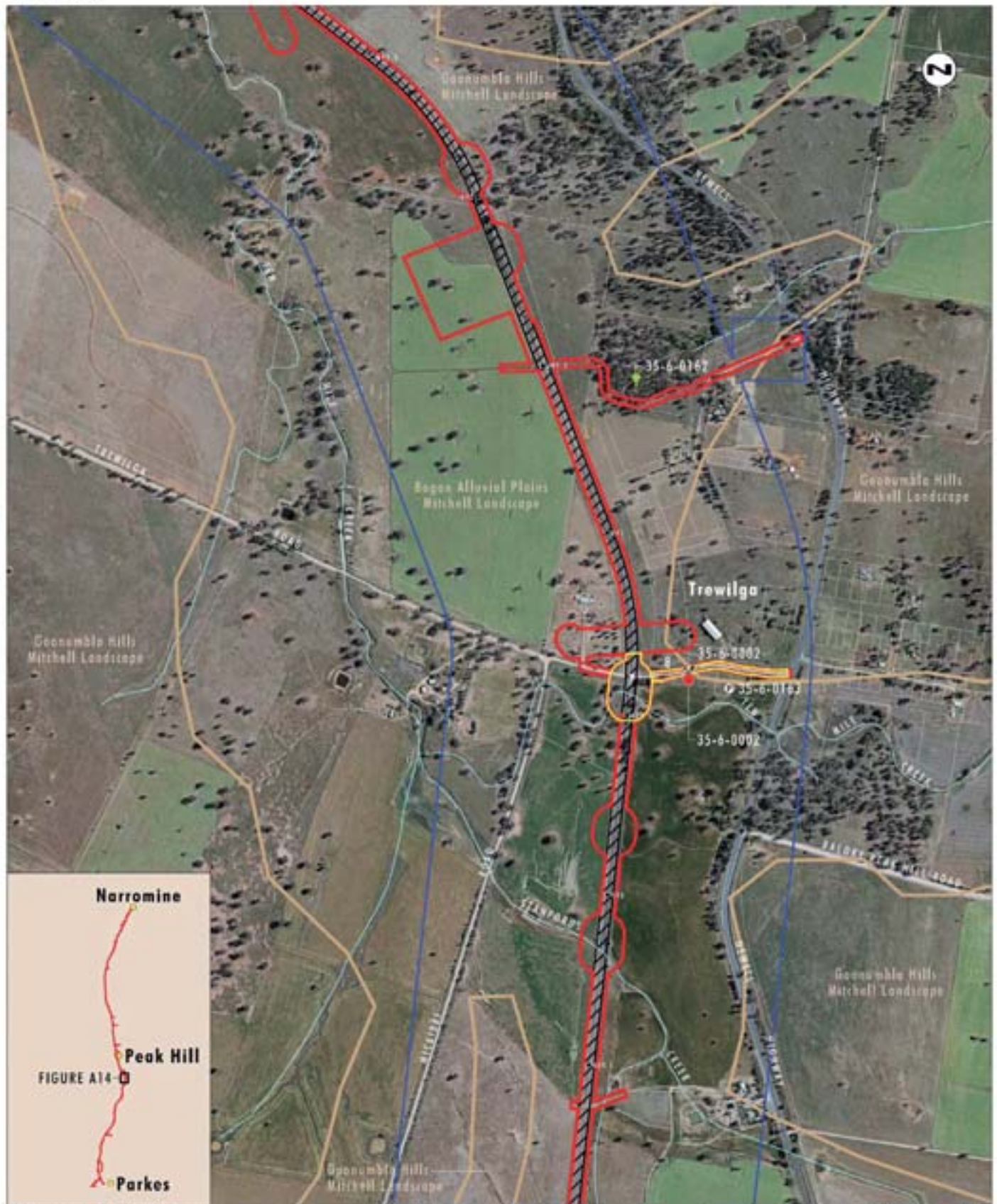


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Mitchell Landscape Area
- Drainage Line
- Rail Corridor
- Artefact Scatter
- Potential Archaeological Deposit
- Scarred Tree
- Stone Quarry
- Rail Line Kilometerage

FIGURE A14  
 Archaeological  
 Survey Areas

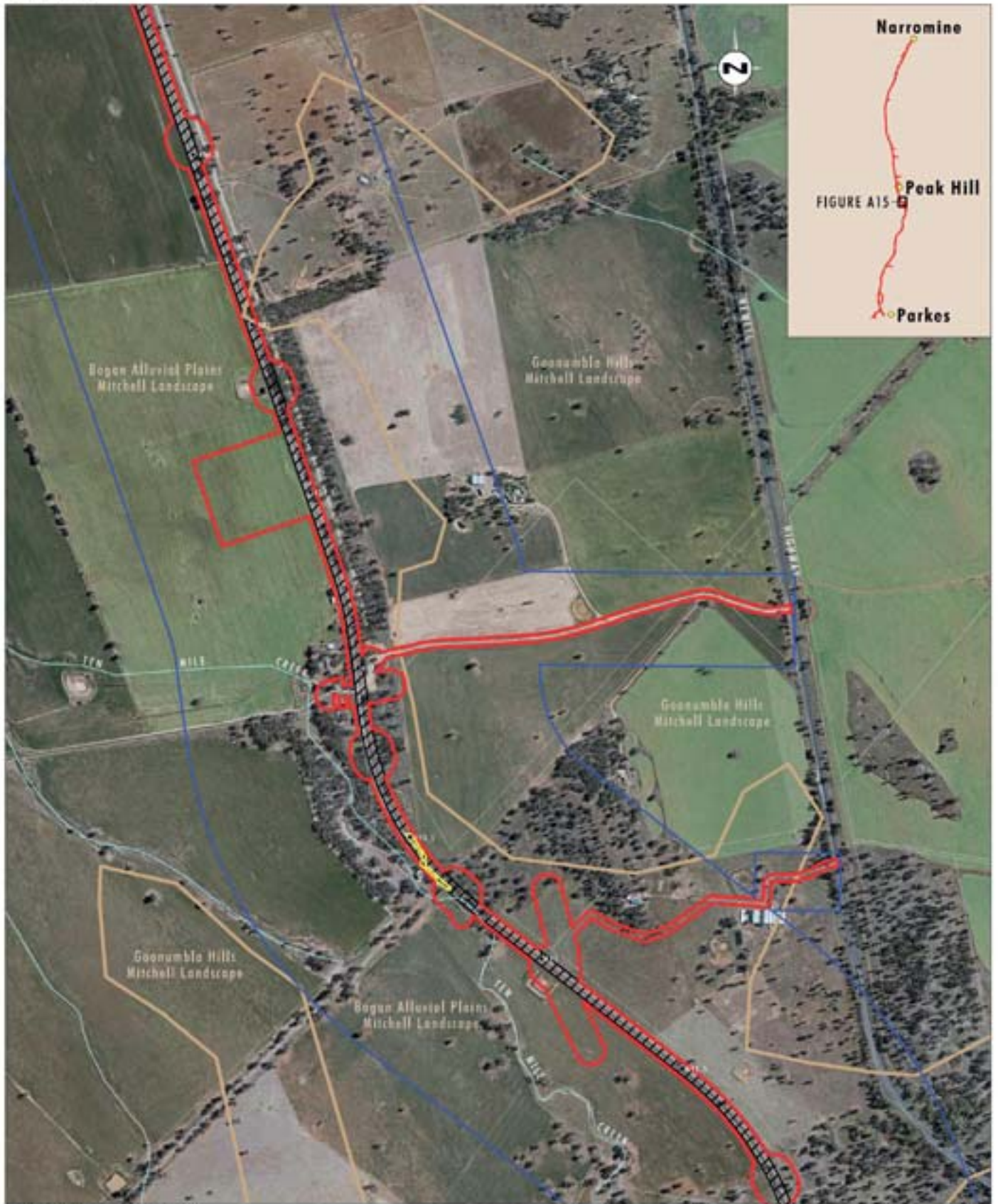


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

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**Legend**

- Proposal Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Mitchell Landscape Area
- Drainage Line
- Rail Corridor
- Rail Line Kilometerage

FIGURE A15  
 Archaeological  
 Survey Areas

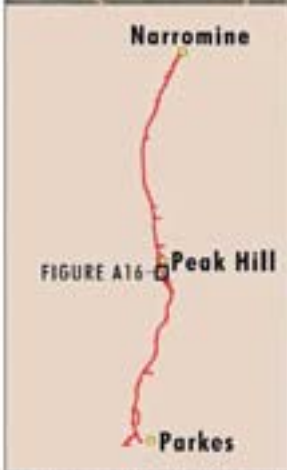


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Mitchell Landscape Area
- Drainage Line
- Rail Line Kilometrage
- Rail Corridor
- Scarred Tree

FIGURE A16  
 Archaeological  
 Survey Areas



Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Mitchell Landscape Area
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor

**FIGURE A17**  
**Archaeological Survey Areas**



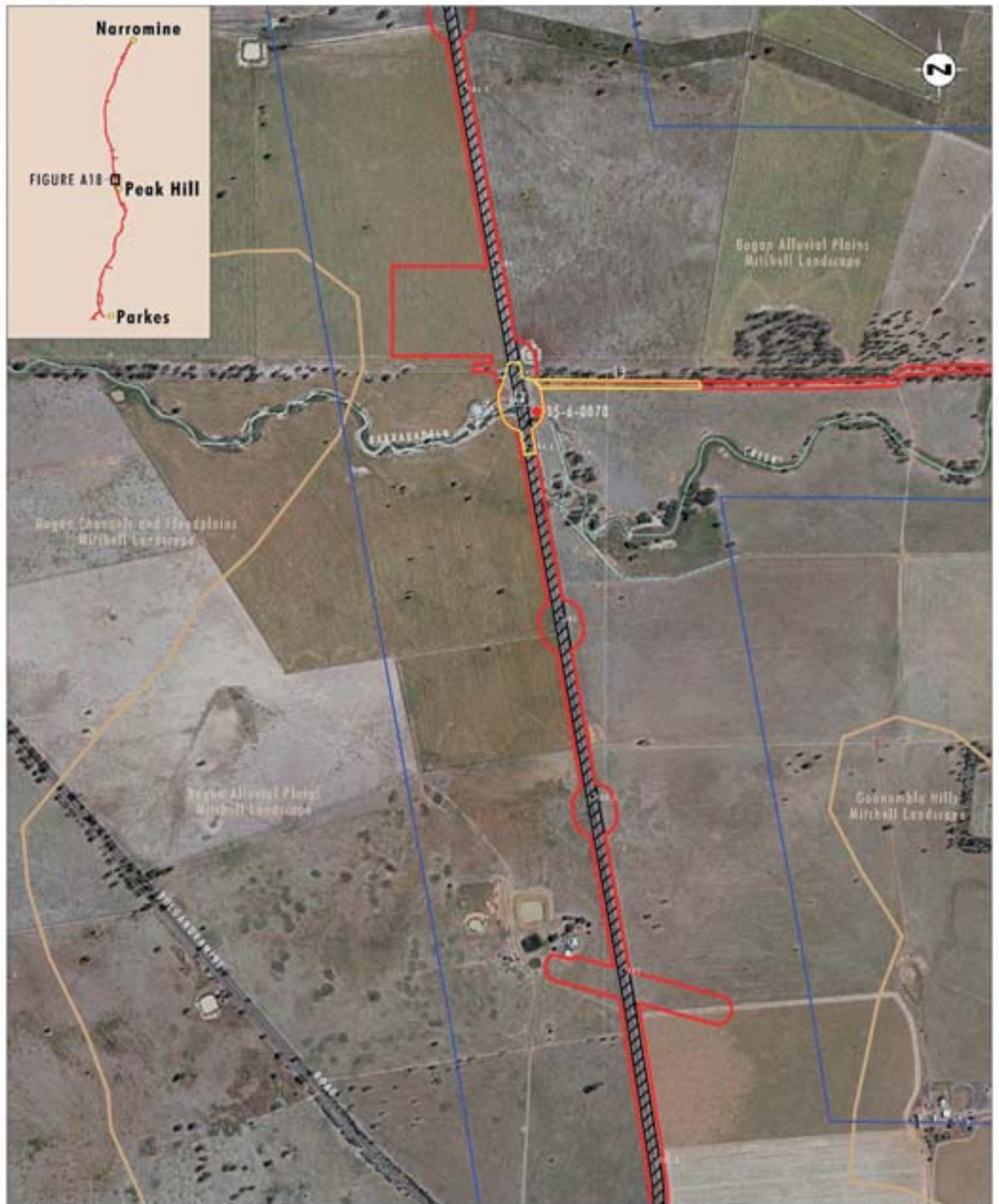


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Mitchell Landscape Area
- Drainage Line
- Rail Corridor
- Artefact Scatter
- Rail Line Kilometerage

FIGURE A18  
 Archaeological  
 Survey Areas

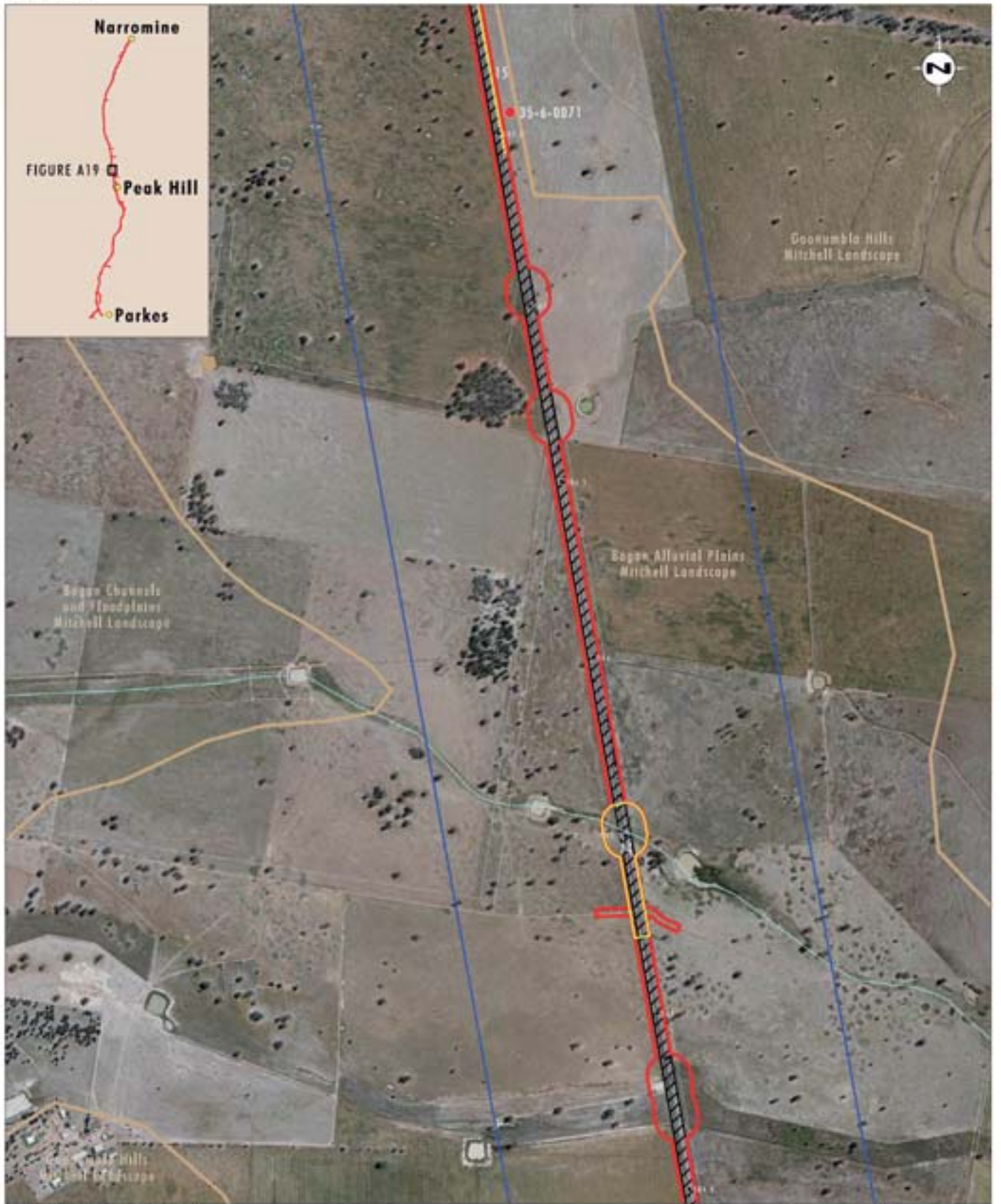


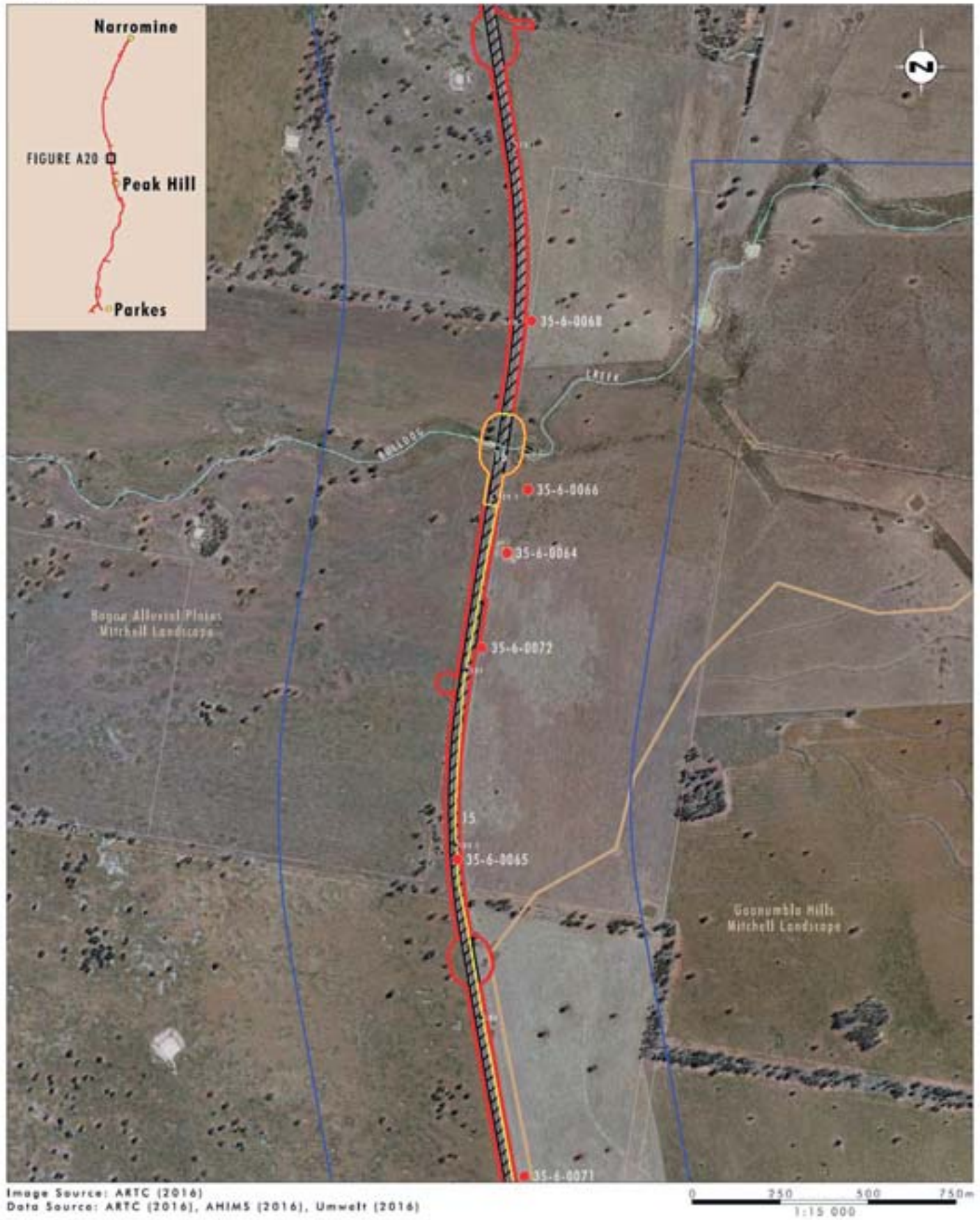
Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Mitchell Landscape Area
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor
- Artefact Scatter

FIGURE A19  
 Archaeological  
 Survey Areas



**Legend**

- Proposal Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Mitchell Landscape Area
- Drainage Line
- Rail Corridor
- Artefact Scatter
- Rail Line Kilometerage

FIGURE A20

Archaeological  
Survey Areas

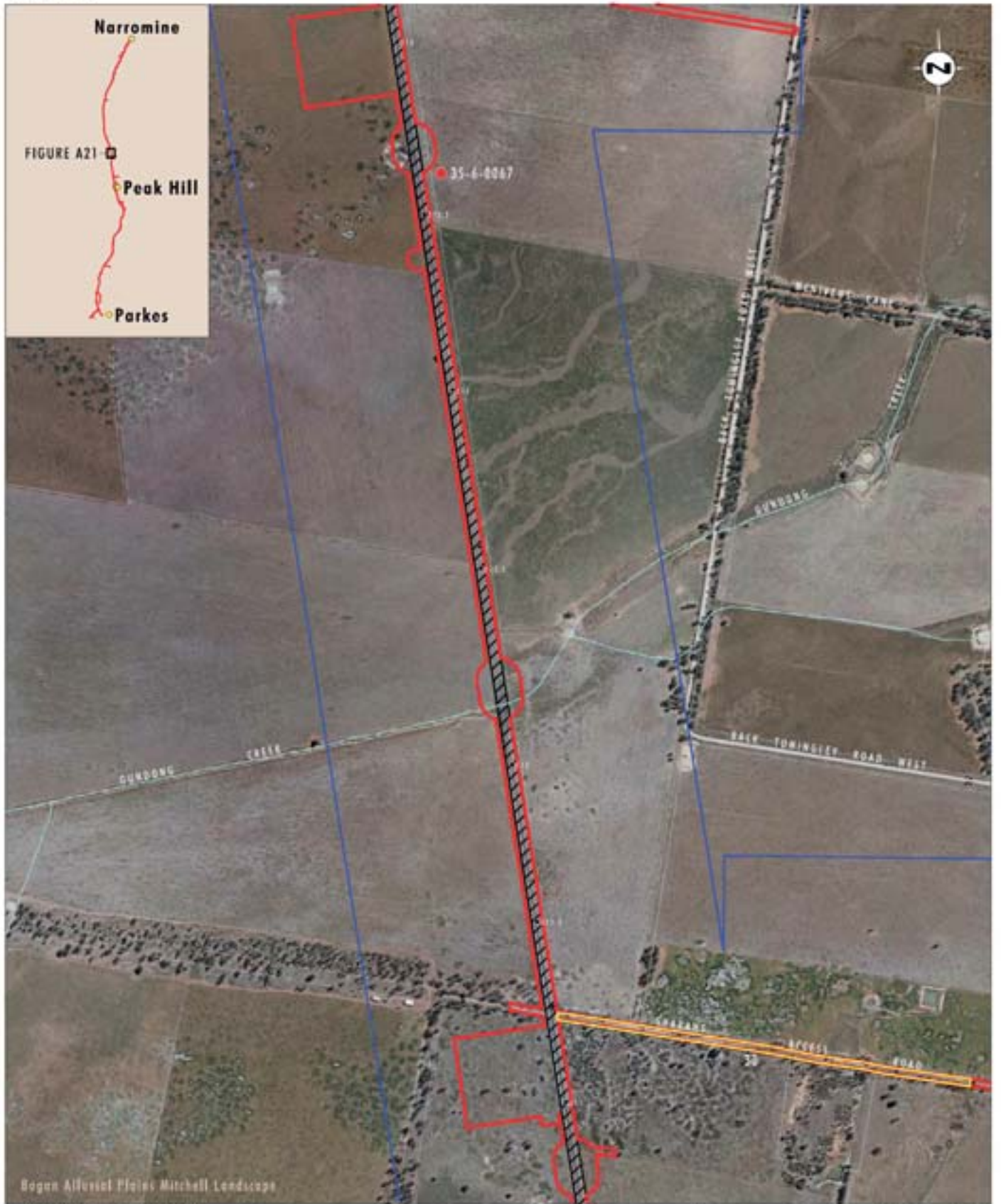


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor
- Artefact Scatter

FIGURE A21  
 Archaeological  
 Survey Areas

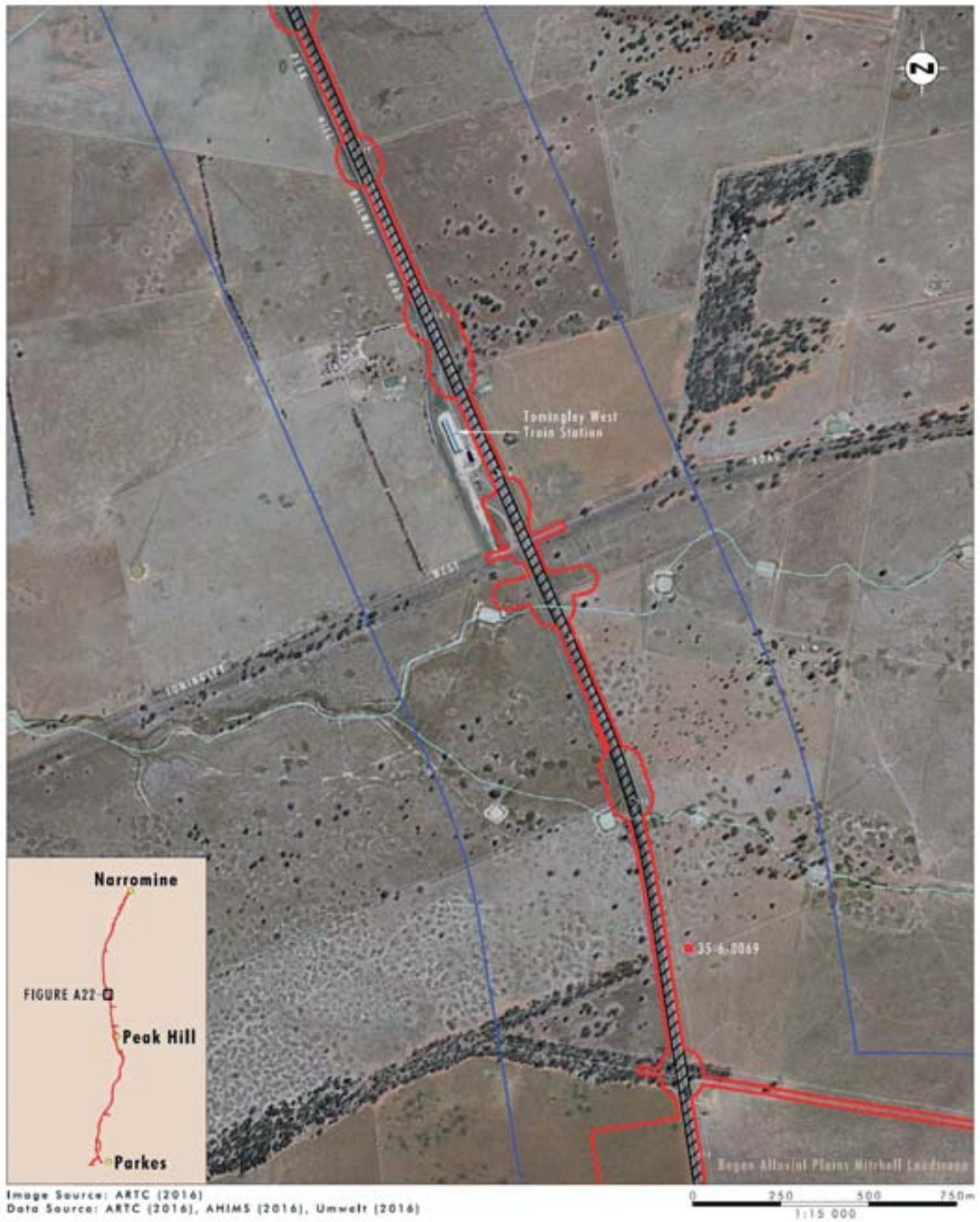


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

- Legend**
- Proposal Area
  - AHIMS Search Area
  - Drainage Line
  - Rail Line Kilometerage
  - Rail Corridor
  - Artifact Scatter

FIGURE A22  
 Archaeological  
 Survey Areas

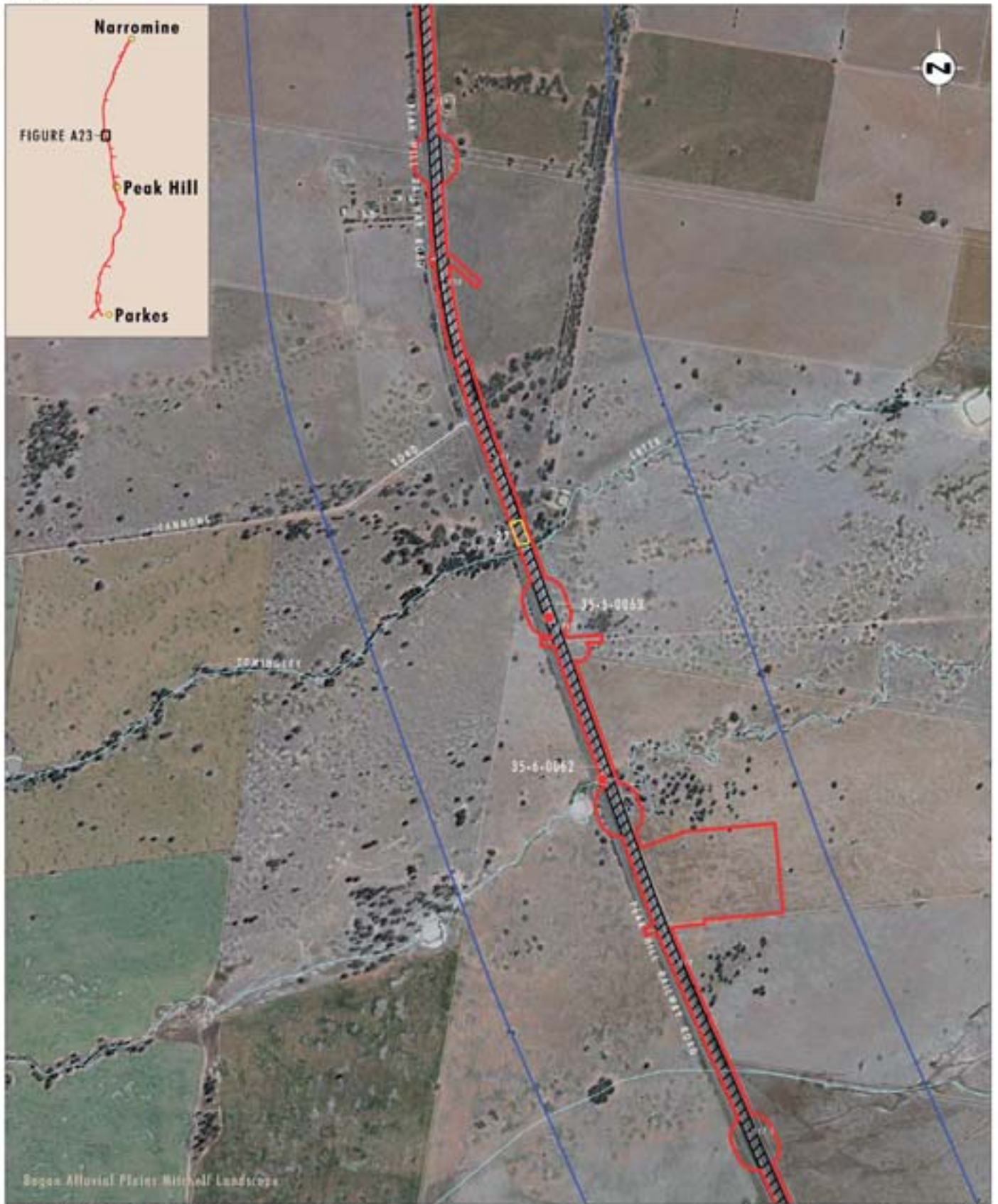


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposed Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor
- Artefact Scatter

FIGURE A23  
 Archaeological  
 Survey Areas

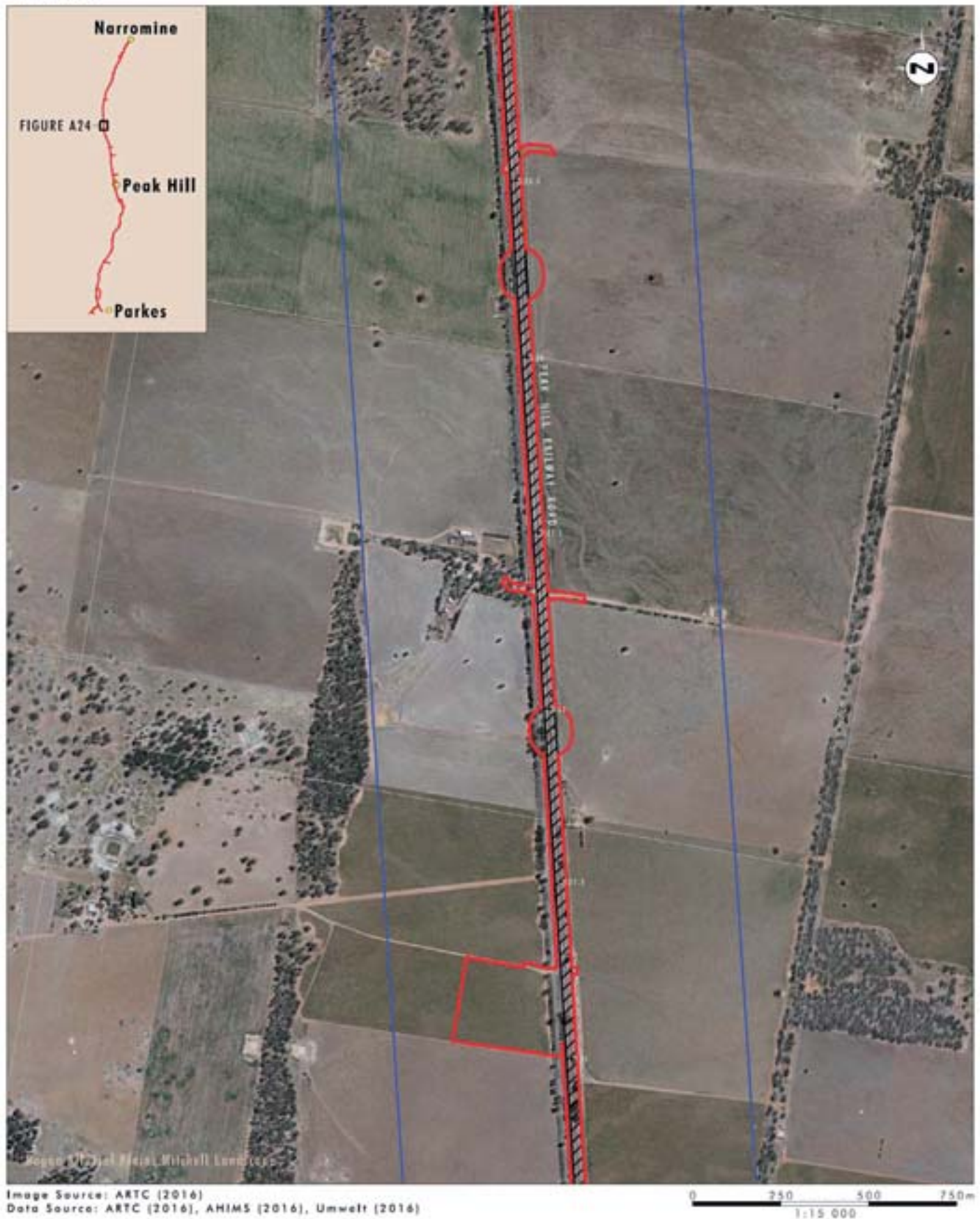


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

- Legend**
- Proposal Area
  - AHIMS Search Area
  - Rail Line Kilometrage
  - Rail Corridor

FIGURE A24  
 Archaeological  
 Survey Areas

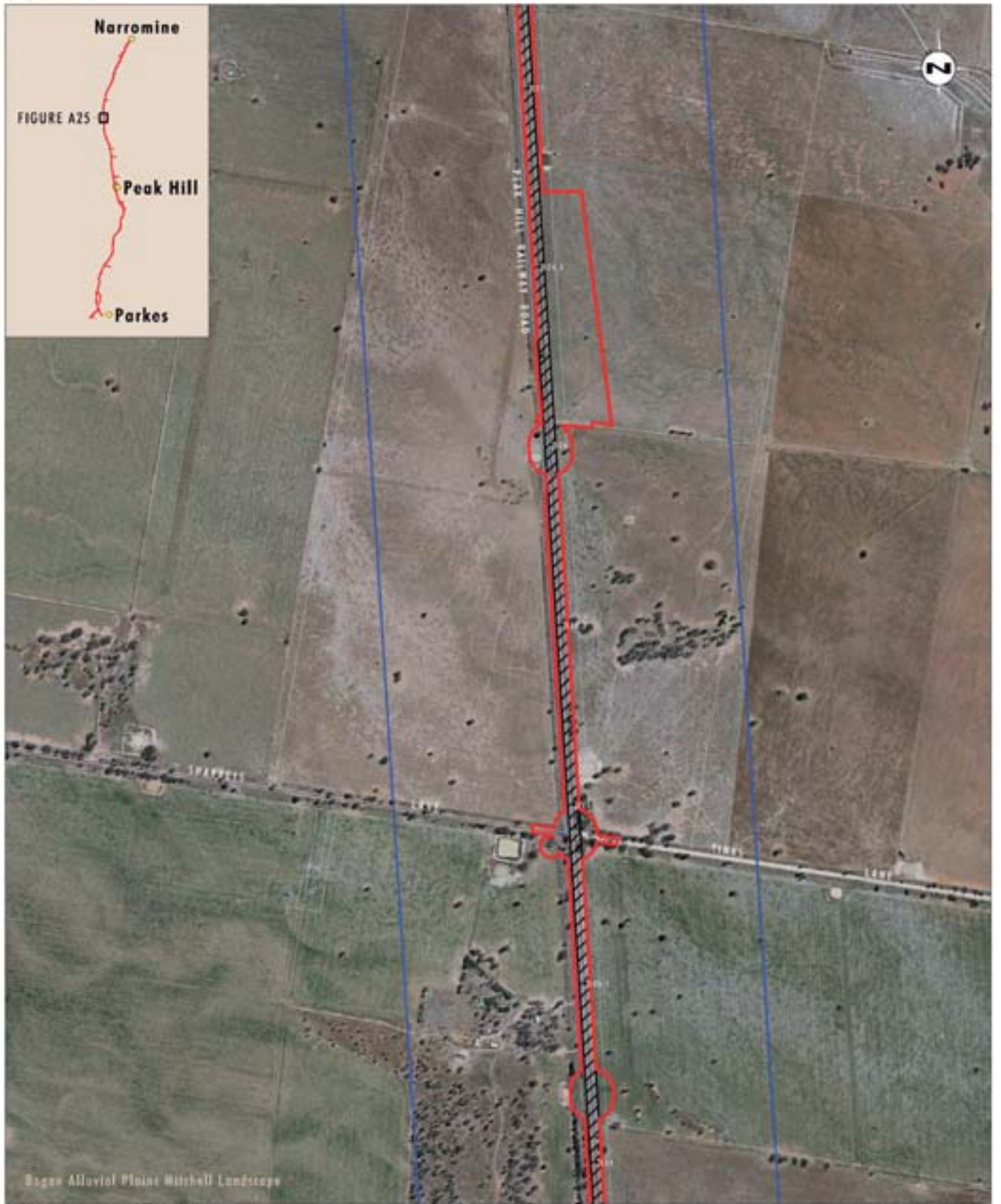


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- AHIMS Search Area
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor

FIGURE A25  
 Archaeological  
 Survey Areas



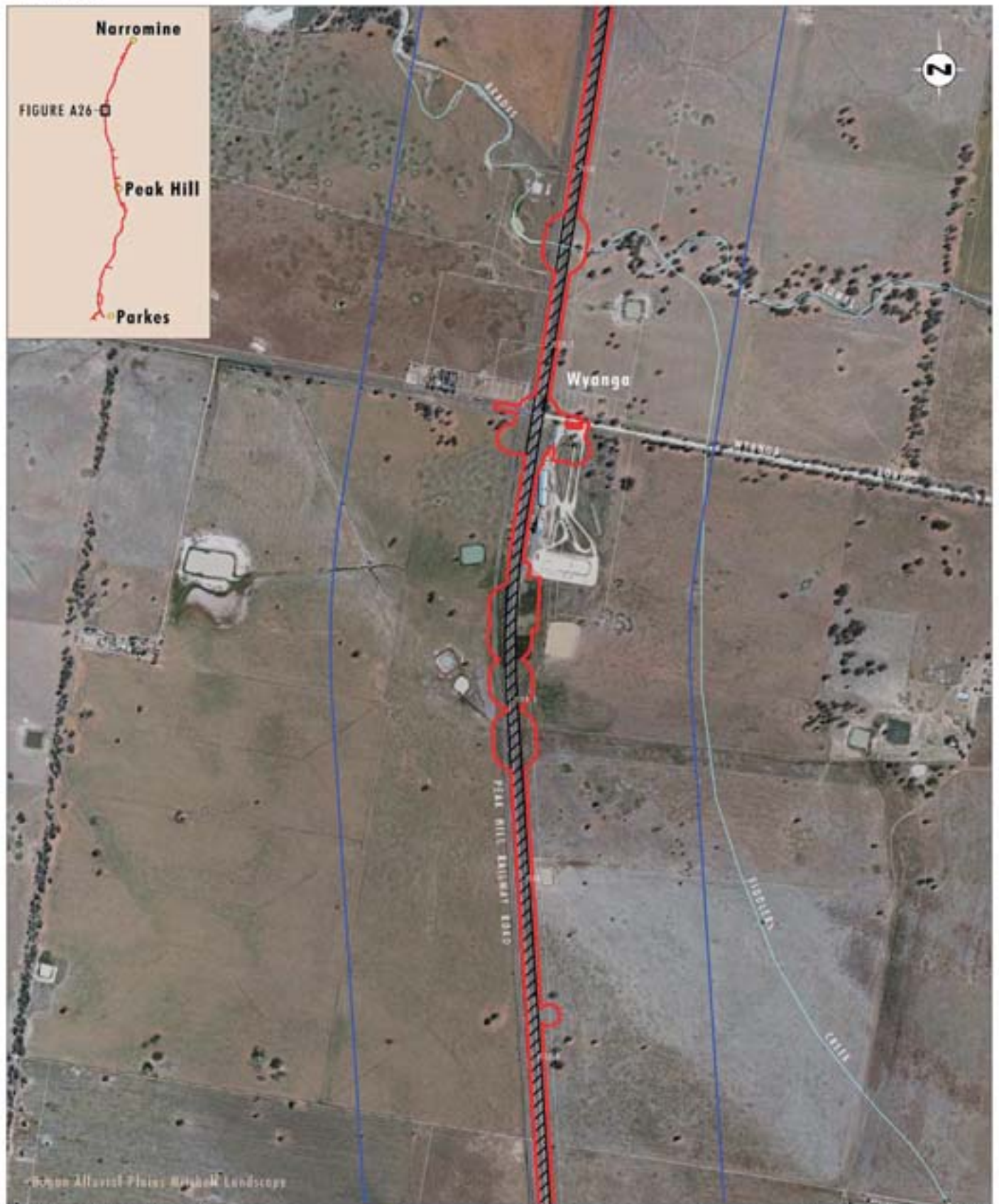


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- AHIMS Search Area
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor

FIGURE A26

Archaeological  
 Survey Areas

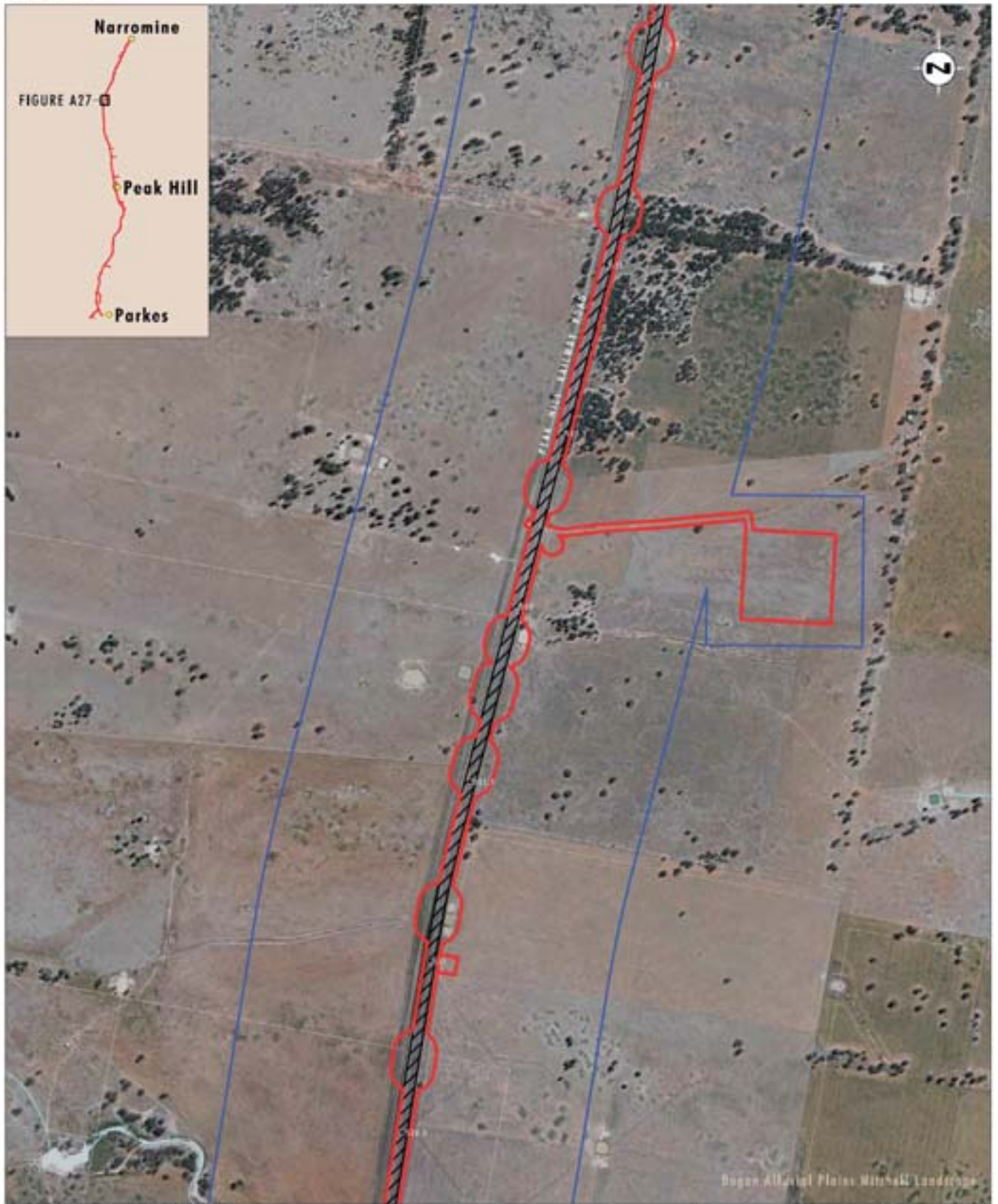


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposed Area
- AHIMS Search Area
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor

FIGURE A27  
 Archaeological  
 Survey Areas

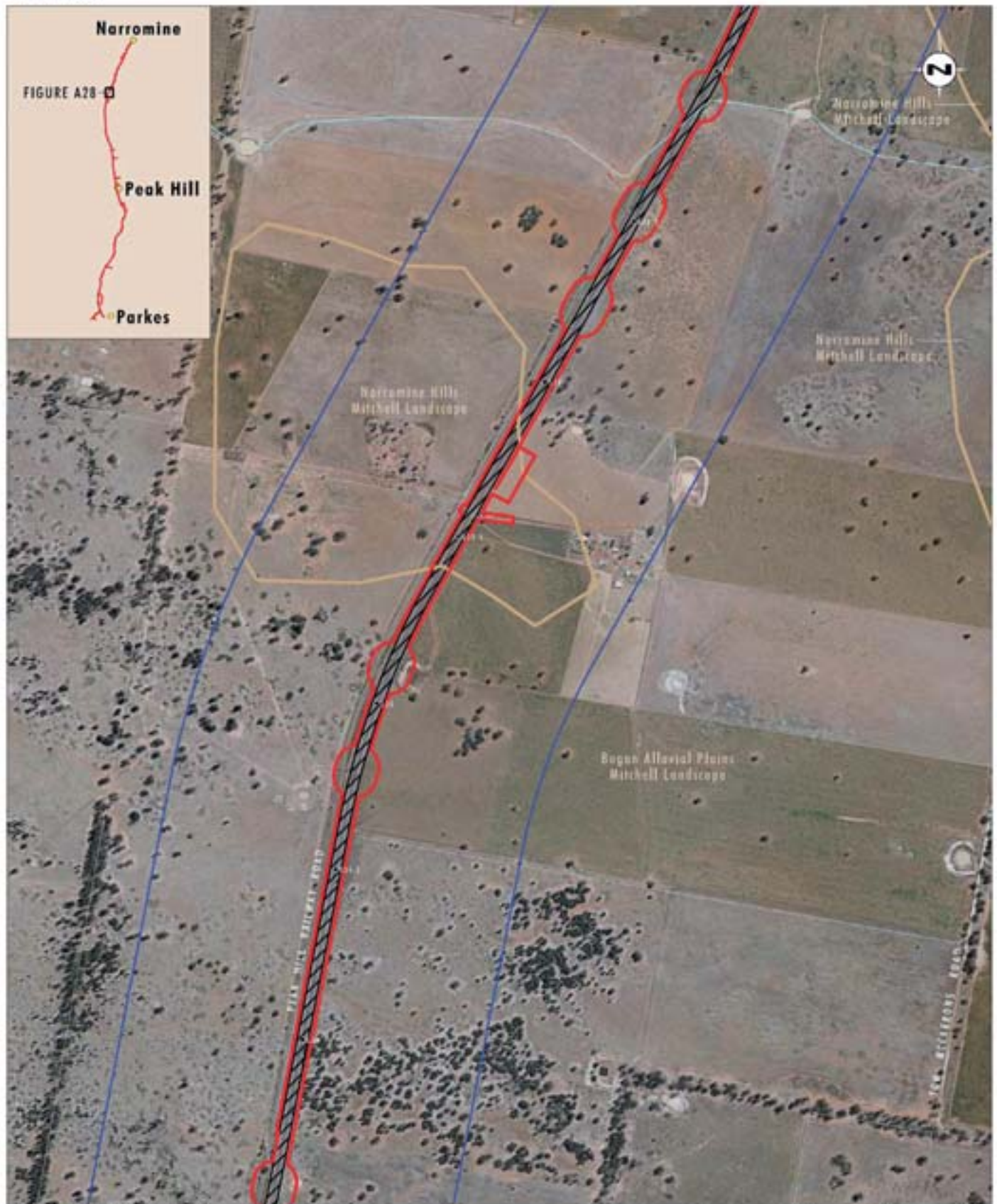


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

- Legend**
- Proposal Area
  - ANIMS Search Area
  - Mitchell landscape Area
  - Drainage Line
  - Rail Line Kilometerage
  - Rail Corridor

FIGURE A28  
 Archaeological  
 Survey Areas

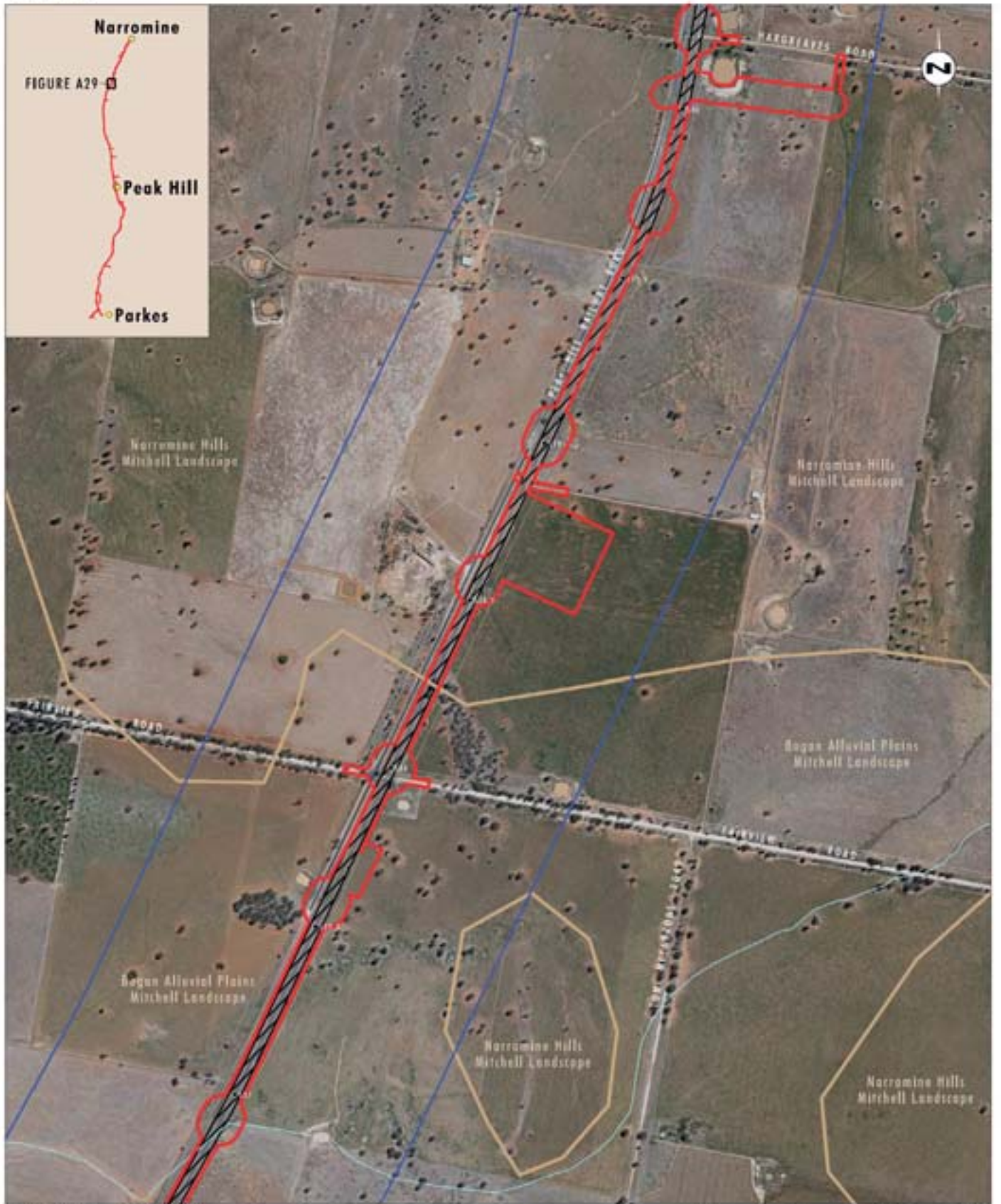


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- AHIMS Search Area
- Mitchell Landscape Area
- Drainage Line
- Rail Line Kilometerage
- Rail Corridor

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 20161019 10:24

**FIGURE A29**  
**Archaeological**  
**Survey Areas**

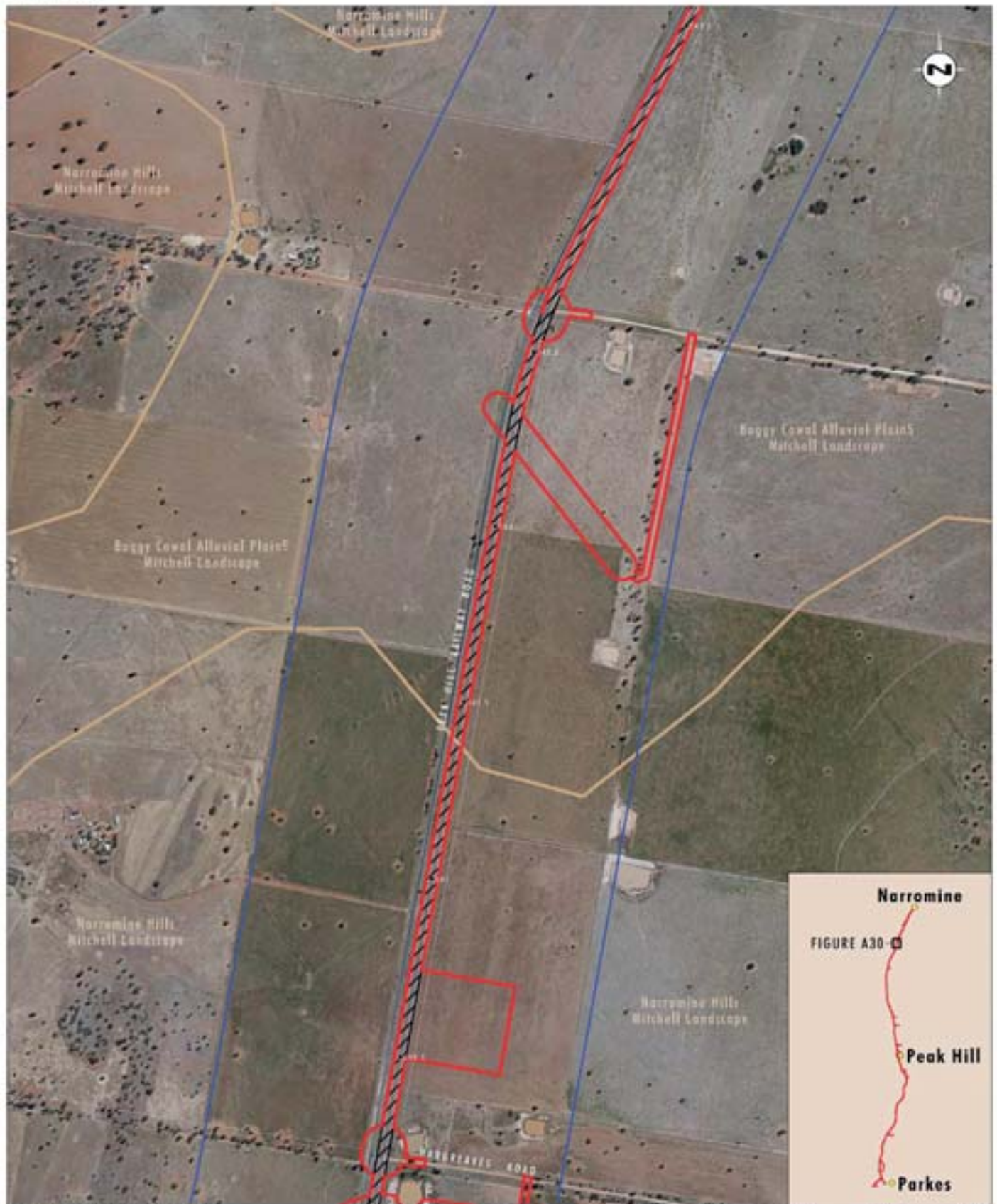


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

- Legend**
- Proposal Area
  - AHIMS Search Area
  - Mitchell landscape Area
  - Rail Line Kilometerage
  - Rail Corridor

FIGURE A30  
 Archaeological  
 Survey Areas

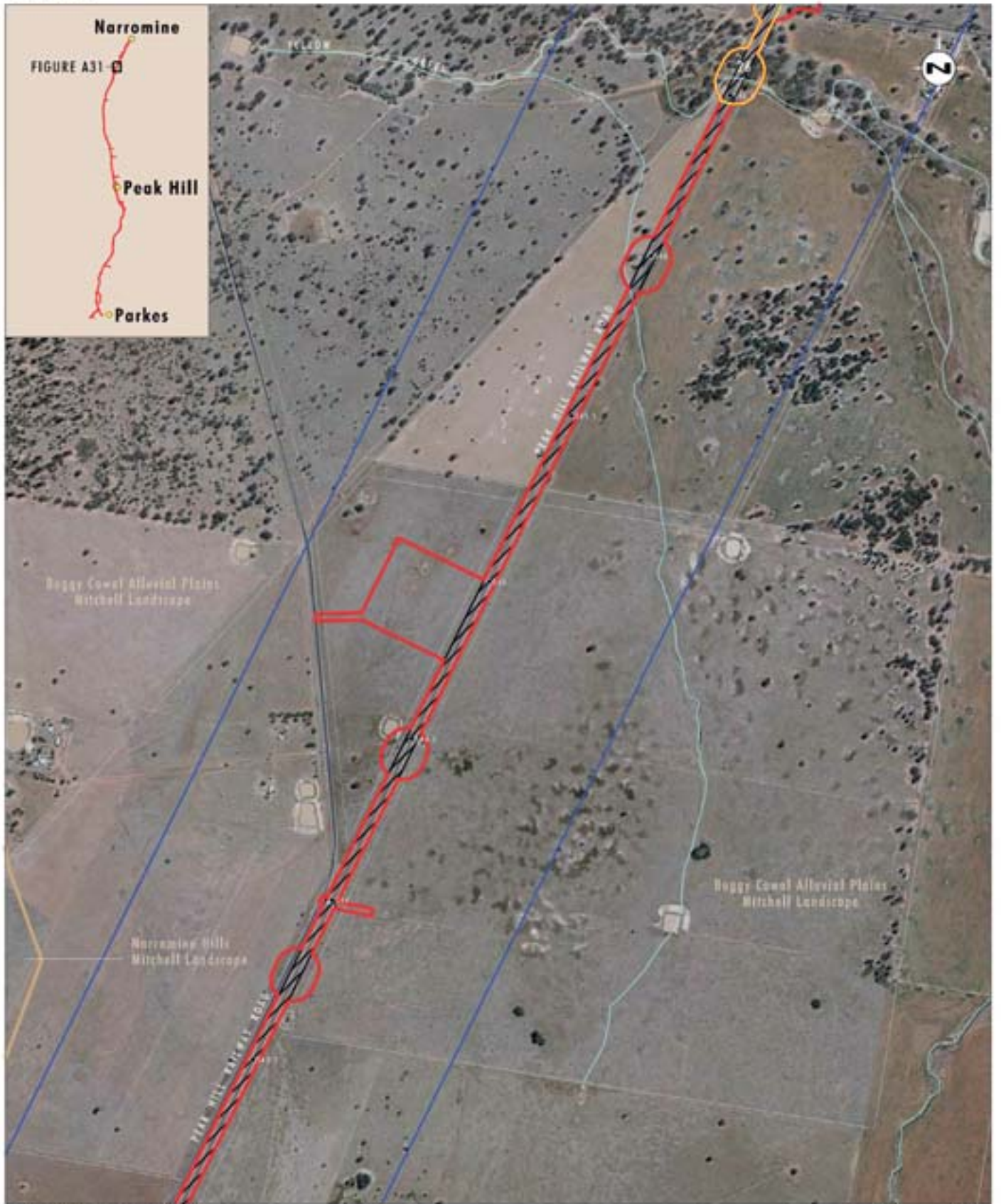


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposed Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Mitchell Landscape Area
- Drainage Line
- Rail Corridor
- Rail Line Kilometerage

FIGURE A31  
 Archaeological  
 Survey Areas

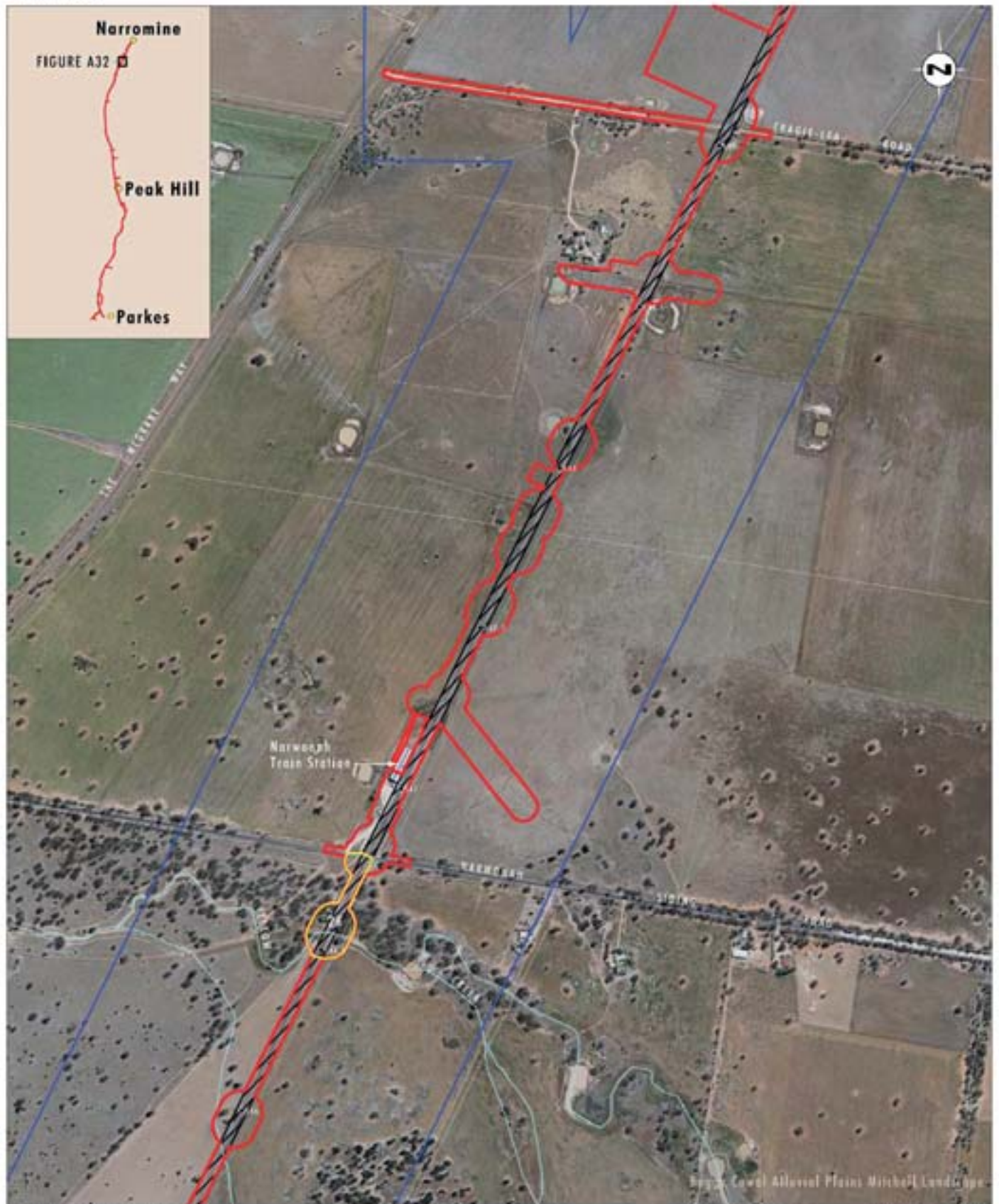


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

- Legend**
- ▭ Proposal Area
  - ▭ AHIMS Search Area
  - Pedestrian Survey Effort
  - Drainage Line
  - Rail Line Kilometerage
  - ▭ Rail Corridor

FIGURE A32  
 Archaeological  
 Survey Areas

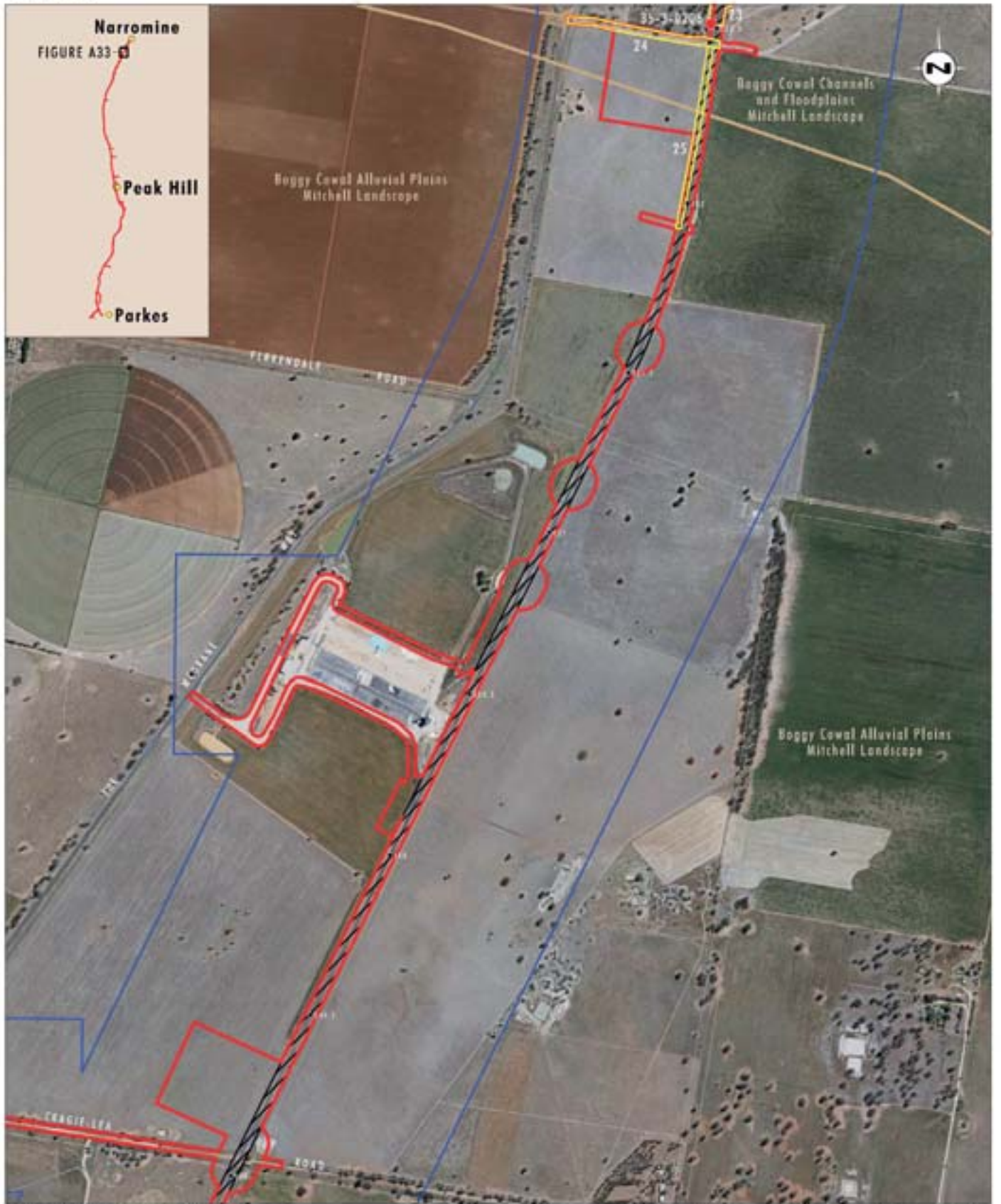


Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

0 250 500 750m  
 1:15 000

**Legend**

- Proposal Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Mitchell Landscape Area
- Rail Line Kilometerage
- Rail Corridor
- Artefact Scatter

FIGURE A33  
 Archaeological  
 Survey Areas





Image Source: ARTC (2016)  
 Data Source: ARTC (2016), AHIMS (2016), Umwelt (2016)

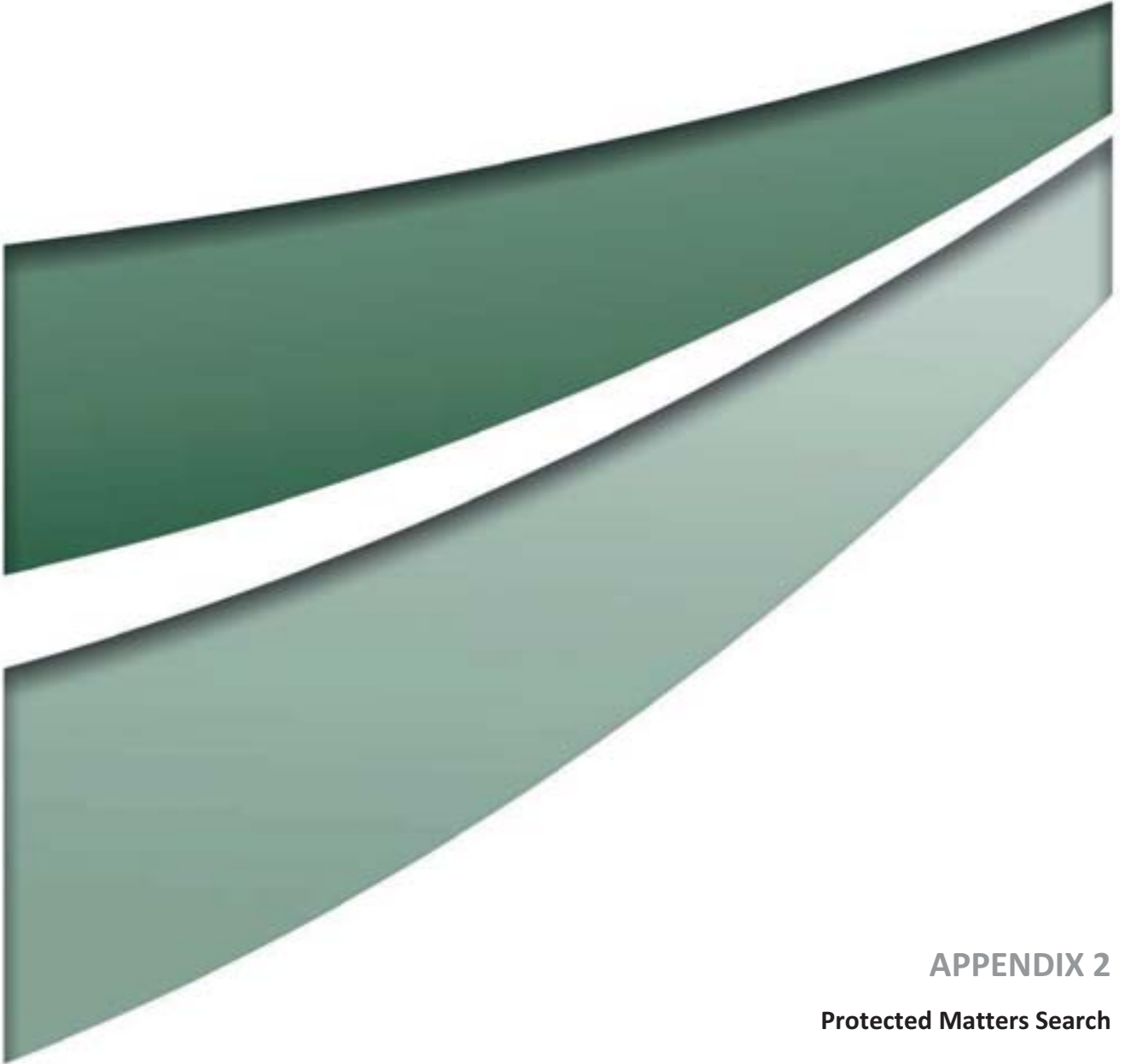
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**Legend**

- Proposal Area
- AHIMS Search Area
- Pedestrian Survey Effort
- Mitchell landscape Area
- Drainage Line
- Rail Corridor
- Artefact Scatter
- Scarred Tree
- Rail Line Kilometrage

FIGURE A34

Archaeological  
 Survey Areas



**APPENDIX 2**  
**Protected Matters Search**



# EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 01/04/16 15:53:44

[Summary](#)

[Details](#)

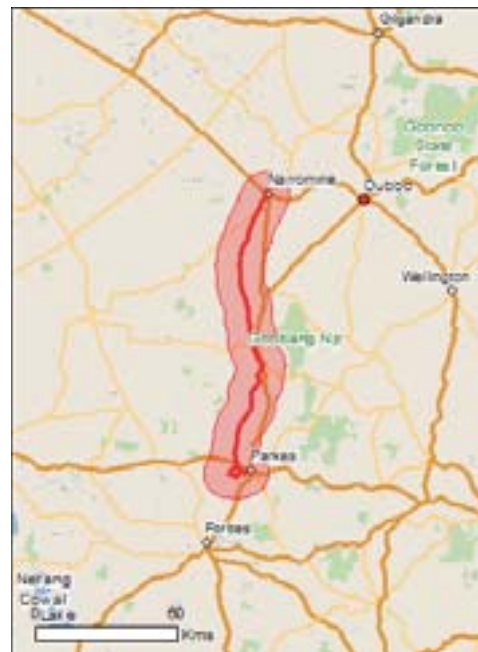
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



This map may contain data which are  
©Commonwealth of Australia  
(Geoscience Australia), ©PSMA 2010

[Coordinates](#)

Buffer: 10.0Km



## Summary

### Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance:</a>	5
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	None
<a href="#">Listed Threatened Ecological Communities:</a>	5
<a href="#">Listed Threatened Species:</a>	19
<a href="#">Listed Migratory Species:</a>	10

### Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

<a href="#">Commonwealth Land:</a>	7
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	13
<a href="#">Whales and Other Cetaceans:</a>	None
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Commonwealth Reserves Marine:</a>	None

### Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

<a href="#">State and Territory Reserves:</a>	None
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	30
<a href="#">Nationally Important Wetlands:</a>	None
<a href="#">Key Ecological Features (Marine):</a>	None

## Details

### Matters of National Environmental Significance

Wetlands of International Importance (Ramsar)	[ Resource Information ]
Name	Proximity
<a href="#">Banrock station wetland complex</a>	700 - 800km upstream
<a href="#">Hattah-kulkyne lakes</a>	500 - 600km upstream
<a href="#">Riverland</a>	600 - 700km upstream
<a href="#">The coorong, and lakes alexandrina and albert wetland</a>	800 - 900km upstream
<a href="#">The macquarie marshes</a>	100 - 150km upstream

### Listed Threatened Ecological Communities

[ Resource Information ]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Name	Status	Type of Presence
<a href="#">Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions</a>	Endangered	Community may occur within area
<a href="#">Grey Box (Eucalyptus microcarpa) Grassy Woodlands and Derived Native Grasslands of South-eastern Australia</a>	Endangered	Community likely to occur within area
<a href="#">Natural grasslands on basalt and fine-textured alluvial plains of northern New South Wales and southern Queensland</a>	Critically Endangered	Community may occur within area
<a href="#">Weeping Myall Woodlands</a>	Endangered	Community likely to occur within area
<a href="#">White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland</a>	Critically Endangered	Community likely to occur within area

### Listed Threatened Species

[ Resource Information ]

Name	Status	Type of Presence
<b>Birds</b>		
<a href="#">Anthochaera phrygia</a> Regent Honeyeater [82338]	Critically Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Botaurus poiciloptilus</a> Australasian Bittern [1001]	Endangered	Species or species habitat may occur within area
<a href="#">Grantiella picta</a> Painted Honeyeater [470]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Lathamus discolor</a> Swift Parrot [744]	Endangered	Species or species habitat likely to occur within area
<a href="#">Leipoa ocellata</a> Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Polytelis swainsonii</a> Superb Parrot [738]	Vulnerable	Species or species habitat known to occur within area

Name	Status	Type of Presence
<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
<b>Fish</b>		
<a href="#">Maccullochella macquariensis</a> Trout Cod [26171]	Endangered	Species or species habitat may occur within area
<a href="#">Maccullochella peelii</a> Murray Cod [66633]	Vulnerable	Species or species habitat may occur within area
<a href="#">Macquaria australasica</a> Macquarie Perch [66632]	Endangered	Species or species habitat may occur within area
<b>Mammals</b>		
<a href="#">Nyctophilus corbeni</a> Corben's Long-eared Bat, South-eastern Long-eared Bat [83395]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)</a> Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pseudomys novaehollandiae</a> New Holland Mouse, Pookila [96]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Pteropus poliocephalus</a> Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour may occur within area
<b>Plants</b>		
<a href="#">Austrostipa metatoris</a> [66704]	Vulnerable	Species or species habitat may occur within area
<a href="#">Austrostipa wakoolica</a> [66623]	Endangered	Species or species habitat likely to occur within area
<a href="#">Swainsona murrayana</a> Slender Darling-pea, Slender Swainson, Murray Swainson-pea [6765]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Tylophora linearis</a> [55231]	Endangered	Species or species habitat likely to occur within area
<b>Reptiles</b>		
<a href="#">Aprasia parapulchella</a> Pink-tailed Worm-lizard, Pink-tailed Legless Lizard [1665]	Vulnerable	Species or species habitat likely to occur within area
<b>Listed Migratory Species</b>		<a href="#">[ Resource Information ]</a>
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
<b>Migratory Marine Birds</b>		
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#">Hirundapus caudacutus</a> White-throated Needletail [682]		Species or species habitat known to occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species

Name	Threatened	Type of Presence
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		habitat may occur within area  Species or species habitat may occur within area
<a href="#">Myiagra cyanoleuca</a> Satin Flycatcher [612]		Species or species habitat known to occur within area
<b>Migratory Wetlands Species</b>		
<a href="#">Ardea alba</a> Great Egret, White Egret [59541]		Species or species habitat known to occur within area
<a href="#">Ardea ibis</a> Cattle Egret [59542]		Species or species habitat may occur within area
<a href="#">Gallinago hardwickii</a> Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur within area
<a href="#">Tringa stagnatilis</a> Marsh Sandpiper, Little Greenshank [833]		Species or species habitat likely to occur within area

## Other Matters Protected by the EPBC Act

**Commonwealth Land** [\[ Resource Information \]](#)

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Name
Commonwealth Land - Commonwealth Land - Australian Postal Commission Commonwealth Land - Australian Telecommunications Commission Commonwealth Land - Australian Telecommunications Corporation Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation Commonwealth Land - Commonwealth Trading Bank of Australia Defence - PARKES TRAINING DEPOT ; PARKES ACS LAND

Listed Marine Species		<a href="#">[ Resource Information ]</a>
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
<b>Birds</b>		
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardea alba</a> Great Egret, White Egret [59541]		Species or species habitat known to occur within area
<a href="#">Ardea ibis</a> Cattle Egret [59542]		Species or species habitat may occur within area
<a href="#">Gallinago hardwickii</a> Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
<a href="#">Hirundapus caudacutus</a> White-throated Needletail [682]		Species or species habitat known to occur within area
<a href="#">Lathamus discolor</a> Swift Parrot [744]	Endangered	Species or species habitat likely to occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat may occur within area
<a href="#">Myiagra cyanoleuca</a> Satin Flycatcher [612]		Species or species habitat known to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur within area
<a href="#">Rostratula benghalensis (sensu lato)</a> Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
<a href="#">Tringa stagnatilis</a> Marsh Sandpiper, Little Greenshank [833]		Species or species habitat likely to occur within area

## Extra Information

### Invasive Species [ [Resource Information](#) ]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name	Status	Type of Presence
<b>Birds</b>		
Alauda arvensis Skylark [656]		Species or species habitat likely to occur within area
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area
Carduelis carduelis European Goldfinch [403]		Species or species habitat likely to occur within area



Name	Status	Type of Presence
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Passer domesticus House Sparrow [405]		Species or species habitat likely to occur within area
Passer montanus Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
Turdus merula Common Blackbird, Eurasian Blackbird [596]		Species or species habitat likely to occur within area
<b>Mammals</b>		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Lepus capensis Brown Hare [127]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
<b>Plants</b>		
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur

Name	Status	Type of Presence
Cytisus scoparius Broom, English Broom, Scotch Broom, Common Broom, Scottish Broom, Spanish Broom [5934]		within area  Species or species habitat likely to occur within area
Genista monspessulana Montpellier Broom, Cape Broom, Canary Broom, Common Broom, French Broom, Soft Broom [20126]		Species or species habitat likely to occur within area
Lycium ferocissimum African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Nassella trichotoma Serrated Tussock, Yass River Tussock, Yass Tussock, Nassella Tussock (NZ) [18884]		Species or species habitat likely to occur within area
Opuntia spp. Prickly Pears [82753]		Species or species habitat likely to occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S.x reichardtii Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Solanum elaeagnifolium Silver Nightshade, Silver-leaved Nightshade, White Horse Nettle, Silver-leaf Nightshade, Tomato Weed, White Nightshade, Bull-nettle, Prairie-berry, Satansbos, Silver-leaf Bitter-apple, Silverleaf-nettle, Trompillo [12323]		Species or species habitat likely to occur within area

# Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

# Coordinates

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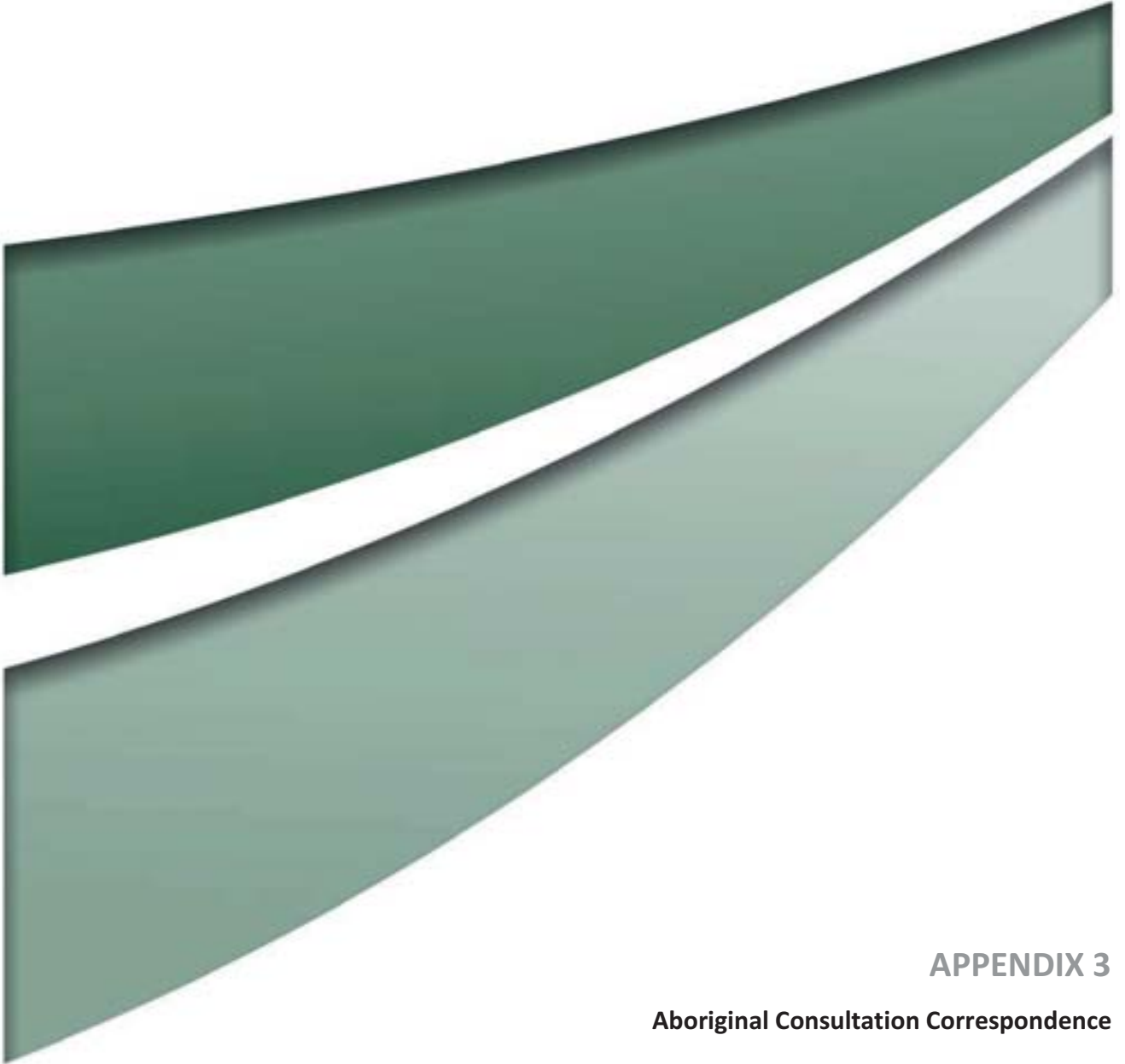
## Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [Office of Environment and Heritage, New South Wales](#)
- [Department of Environment and Primary Industries, Victoria](#)
- [Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [Department of Environment, Water and Natural Resources, South Australia](#)
- [Parks and Wildlife Commission NT, Northern Territory Government](#)
- [Department of Environmental and Heritage Protection, Queensland](#)
- [Department of Parks and Wildlife, Western Australia](#)
- [Environment and Planning Directorate, ACT](#)
- [Birdlife Australia](#)
- [Australian Bird and Bat Banding Scheme](#)
- [Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [Museum Victoria](#)
- [Australian Museum](#)
- [South Australian Museum](#)
- [Queensland Museum](#)
- [Online Zoological Collections of Australian Museums](#)
- [Queensland Herbarium](#)
- [National Herbarium of NSW](#)
- [Royal Botanic Gardens and National Herbarium of Victoria](#)
- [Tasmanian Herbarium](#)
- [State Herbarium of South Australia](#)
- [Northern Territory Herbarium](#)
- [Western Australian Herbarium](#)
- [Australian National Herbarium, Atherton and Canberra](#)
- [University of New England](#)
- [Ocean Biogeographic Information System](#)
- [Australian Government, Department of Defence Forestry Corporation, NSW](#)
- [Geoscience Australia](#)
- [CSIRO](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.



## **APPENDIX 3**

### **Aboriginal Consultation Correspondence**





RECEIVED

24 FEB 2016

Your reference	Proposed Inland Rail- Parkes to Narromine NSW
Our reference	DOC18/84292
Contact	Paul Houston (02) 6883 5361

Umwelt Pty Ltd  
75 York St  
TERALBA NSW 2284  
Att: Nicola Roche

17<sup>th</sup> February 2016

Dear Nicola,

**WRITTEN NOTIFICATION AS REQUIRED UNDER OFFICE OF ENVIRONMENT AND  
HERITAGE (OEH) ABORIGINAL CULTURAL HERITAGE REQUIREMENT FOR  
PROPOSERS 2010 – For the proposed Inland Rail- Parkes to Narromine, NSW**

I refer to your letter dated 08/02/2016 to the Office of Environment and Heritage (OEH) regarding the above matter.

A list of known Aboriginal parties that OEH feels is likely to have an interest in this development is attached as Attachment 1 (overleaf). Please note this list is not necessarily an exhaustive list of all interested Aboriginal parties and receipt of this list does not remove the requirement of a proponent/consultant to advertise in local print media and contact other bodies seeking interested Aboriginal parties, in accordance with the requirements.

If you wish to discuss any of the above matters further please contact me, at your earliest convenience, on (02) 6883 5361.

Yours sincerely

**Paul Houston**  
**Aboriginal Heritage Planning Officer**  
**OEH**

The Department of Environment Climate Change and Water is now known as  
The Office of Environment and Heritage.

PO Box 2111, Dubbo NSW 2830  
48-52 Wingewarra St Dubbo NSW  
Tel: (02) 6883 5330 Fax: (02) 6884 9382  
[www.environment.nsw.gov.au](http://www.environment.nsw.gov.au)

**ATTACHMENT 1**

OEH'S LIST OF ABORIGINAL STAKEHOLDER GROUPS WITHIN THE PARKES & NARROMINE LGA'S- THAT MAY HAVE AN INTEREST IN THE PROJECT; PROVIDED AS PER THE "OEH ABORIGINAL CULTURAL HERITAGE REQUIREMENT FOR PROPONENTS 2010".

Organisation/Affiliation	Name/Title	Address
Binjang Wellington Wiradjuri heritage Survey	Dorothy Stewart	260 Myall St, Dubbo NSW 2830
Bogan River Peak Hill Wiradjuri Aboriginal Corporation	Chairperson	PO Box 42, Peak Hill NSW 2869
Bulgandramine Youth Development Aboriginal Corporation	Chairperson	PO Box 119, Peak hill NSW 28369
Eva Coe		4 Yarnbildine Place Cowra NSW 2794
Little Burning Mountain Aboriginal Corporation	Chairperson	PO Box 152, Peak Hill NSW 2869
Mooka	Neville Williams	Po Box 70 Cowra NSW 2794
* Peak Hill LALC	Chairperson	PO Box 63 Peak Hill, NSW 2869
* Peter Peckham		27 Jennings St, Geurie, NSW 2831
Trevor Robinson		Po Box 73, Peak Hill NSW 2869
Warramunga Community Advancement Co- opwerative Society LTD	Chairperson	79 Caswell Street, Peak Hill NSW 2869
Wiradjuri Council of Elders	Robert Clegg	3 Loretta Pl, Glendenning NSW 2761
John Shipp		79 Thompson Street Dubbo
Mooka	Neville Williams	Po Box 70 Cowra NSW 2794
* NARROMINE LALC	Chairperson	PO Box 327 NARROMINE NSW 2821
Paul Brydon		166 Minore St, Narromine NSW 2821

The Department of Environment Climate Change and Water is now known as  
The Office of Environment and Heritage.



**From:** mwalsh@narromine.nsw.gov.au on behalf of glamont@narromine.nsw.gov.au  
**Sent:** Monday, 14 December 2015 4:51 PM  
**To:** Alison Crocker  
**Cc:** Nicola Roche; vroberts@narromine.nsw.gov.au  
**Subject:** Re: ARTC Aboriginal cultural heritage assessments

Alison,

Please be advised that the local Aboriginal bodies in Narromine Shire are:

- Narromine Local Aboriginal Land Council  
13 Burroway Street, Narromine 2821  
[narrominelalc@bigpond.com](mailto:narrominelalc@bigpond.com)  
Phone: 6889 2340.
- Ngarra Mayin Aboriginal Elders Corporation  
Contact: Ruth Carney  
[ruthcarney@bigpond.com](mailto:ruthcarney@bigpond.com)

You may also contact Parkes Shire Council for the details for the Peak Hill Local Aboriginal Lands Council which would be within that Shire.

**Kind Regards**

**Greg**

\*\*\*\*\*

**Greg Lamont**  
**General Manager**  
**NARROMINE SHIRE COUNCIL**  
**PO Box 115**  
**NARROMINE NSW 2821**  
**Ph: 6889 9999**  
**Fax: 6889 9998**  
**Email: [gm@narromine.nsw.gov.au](mailto:gm@narromine.nsw.gov.au)**  
**[www.narromine.nsw.gov.au](http://www.narromine.nsw.gov.au)**

\*\*\*\*\*

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From: Alison Crocker <[ACrocker@ARTC.com.au](mailto:ACrocker@ARTC.com.au)>  
To: "[glamont@narromine.nsw.gov.au](mailto:glamont@narromine.nsw.gov.au)" <[glamont@narromine.nsw.gov.au](mailto:glamont@narromine.nsw.gov.au)>, "[vroberts@narromine.nsw.gov.au](mailto:vroberts@narromine.nsw.gov.au)" <[vroberts@narromine.nsw.gov.au](mailto:vroberts@narromine.nsw.gov.au)>,  
Date: 10/12/2015 01:24 PM  
Subject: ARTC Aboriginal cultural heritage assessments

---

Hello Greg and Vas,

Just wanting to give you an update on our Inland Rail Parkes to Narromine project.

This week, we have commenced contacting local Aboriginal knowledge holders to invite them to register their interest to be involved with our cultural heritage assessments as part of the Inland Rail Parkes to Narromine Environmental Impact Statement (EIS). We will be running an advert in the local paper as well as a number of other publications and also contacting the Local Aboriginal Land Councils.

I have attached a copy of the advertisement (and referenced map) as well as notification for your Council. I have sent a hard copy of the letter and map to your Council as well.

Could you please distribute this information to the relevant members, representatives and committees of the Narromine Shire Council?

Please do not hesitate to contact me if you would like to discuss,

Regards

Ali

**Alison Crocker**

**Communications and Engagement Manager - Parkes to Narromine, Narrabri to North Star**

Inland Rail

**P. 0411110081**

M. 0411110081

E. [ACrocker@ARTC.com.au](mailto:ACrocker@ARTC.com.au)

**Australian Rail Track Corporation**

Level 15, 60 Carrington Street

Sydney NSW 2000

[artc.com.au](http://artc.com.au)

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[attachment "Aboriginal Assess Map.pdf" deleted by Margaret Walsh/Narromine] [attachment "J004592 ARTC Tender Press\_PC-NN-DDL\_140x195\_P2N\_Cultural Assessment\_4.pdf" deleted by Margaret Walsh/Narromine] [attachment "P2N Narromine Council Dec 2015.pdf" deleted by Margaret Walsh/Narromine]

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<b>Meeting Title</b>	Cultural Heritage Consultation			
<b>Attendees:</b>	<b>Name</b>	<b>Title</b>	<b>Name</b>	<b>Title</b>
	Sarah Harris (IR)			
	Kate Day (GHD)			
	Nicola Roche (Umwelt)			
<b>Apologies:</b>		<b>Location:</b>	Parkes Library	
<b>Distribution:</b>	As above + attendance sheet		<b>Minute Taker:</b>	Sarah Harris
<b>Date:</b>	12 May 2016		<b>Time:</b>	9:30am

Item No.	Comments/Action	Action By	Due Date
	Acknowledgement of Country (Sarah Harris)		
	Introduction – Inland Rail Programme and Parkes to Narromine project (Sarah Harris)		
	Introduction (Nicola Roche)		
	<ul style="list-style-type: none"> <li>Discussed the process, consultation stages and key stages</li> </ul>		
	<ul style="list-style-type: none"> <li>Showed mapping</li> </ul>		
	<ul style="list-style-type: none"> <li>Discussed proposed assessment/survey methodology - 1-2 week survey duration – photos and footage will be taken and available for whom ever is unable to attend the survey</li> </ul>		
	<ul style="list-style-type: none"> <li>Discussed proposed document format</li> </ul>		
	<ul style="list-style-type: none"> <li>Identified that temporary areas/laydowns etc are not yet identified</li> </ul>		
	<ul style="list-style-type: none"> <li>Discussed general construction activities</li> </ul>		
	<ul style="list-style-type: none"> <li>Stated comments duration closes 25 May and EOI will be sent out within the fortnight to all attendees/RAPs to commence the formal engagement process</li> </ul>		
	Discussed EOI (Sarah Harris)		
	Series of questions raised by Neville Williams		
	<ul style="list-style-type: none"> <li>Payment for attendance to this meeting – ARTC should be compensating expenses (Sarah Harris provided response)</li> </ul>		
	<ul style="list-style-type: none"> <li>What about ancient cultural heritage (flora and fauna / resource plants) how is ARTC going to manage this?</li> </ul>		
	<ul style="list-style-type: none"> <li>Artefacts and survey (speed of survey, is there opportunity to stop the survey to meander, can we check existing sites and other areas of interest, creeks)</li> </ul>		
	<ul style="list-style-type: none"> <li>Will there be test pitting?</li> </ul>		
	Nicole Roche responded – under an approved SSI, no AHIP is required, recommendation will be made re test pitting if it is determined needed upon survey		
	Nicole Roche discussed disclosure and women and men’s business		
	Discussed survey duration. And anticipated timing of report – then meet again with RAPs to finalise the report (Nicola Roche)		

	Nicola discussed, in the case of a significant site, alternative construction methodologies would be considered		
	Has the ARTC corridor been surveyed since its been built? (Esther Cuthmore)		
	NR showed mapping and the north-west link area (not existing corridor)		
	Discussed risk, inductions, RISI (Sarah Harris)		
	Discussion time		
	Is there opportunity for youth training on survey? (Jennifer Beale)		
	Can the RAPs for this area survey for an area north? (Williams)		
	Meeting closed approx. 11am		

<b>Meeting Title</b>	Cultural Heritage Consultation			
<b>Attendees:</b>	<b>Name</b>	<b>Title</b>	<b>Name</b>	<b>Title</b>
	Sarah Harris (IR) David Chubb (GHD) Nicola Roche (Umwelt)			
<b>Apologies:</b>		<b>Location:</b>	Narromine United Services Club	
<b>Distribution:</b>	As above + attendance sheet		<b>Minute Taker:</b>	Sarah Harris
<b>Date:</b>	11 May 2016		<b>Time:</b>	1pm

Item No.	Comments/Action	Action By	Due Date
	Acknowledgement of Country (Sarah Harris)		
	Introduction – Inland Rail Programme and Parkes to Narromine project (Sarah Harris)		
	Introduction (Nicola Roche)		
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	<ul style="list-style-type: none"> <li>Stated comments duration closes 25 May and EOI will be sent out within the fortnight to all attendees/RAPs to commence the formal engagement process</li> </ul>		
	Discussed EOI (Sarah Harris)		
	Maria and Geoffrey Maher arrived approx. 1:30pm – NR summarised what had been discussed thus far		
	Introduced and discussed programme and project (Sarah Harris)		
	Discussion/Questions		
	Identified potential scarred trees around Gilgandra (Paul Brydon)		
	How many RAPs had been identified (Maria Maher)		
	Geoffrey asked about local Indigenous employment (long term opportunities)		
	Geoffrey stated that we all want the same outcome and protecting cultural heritage is important to them.		
	Maria stated that her family has been involved with RMS projects and they are aware familiar with the process.		
	Maria asked about the survey – would it go north to south, duration, logistics, how to be engaged, will we test pit and in highly sensitive areas, would we salvage?		

	NR advised of the proposed survey methodology, proposed report format – proposed June survey and report preparation in August.		
	Geoffrey asked if artefacts were found and the possibility of relocation of said artefacts upon agreement.		
	Meeting closed approx. 2:30pm		

Aboriginal Archaeology Service  
INC: 1400988  
P O Box 6283 Rouse Hill NSW 2155  
Mobile: 0490 126 040  
Email: [aas.info@bigpond.com](mailto:aas.info@bigpond.com)



1<sup>st</sup> May 2016

### **Inland Rail Program – Parkes to Narromine, NSW.**

Aboriginal Archaeology agrees with the above Methodology for the Inland Rail Program-Parkes to Narromine, NSW. ARTC uses a methodology which is complete in all aspects of the survey.

A.A.S has been carrying out Archeology work for the past 30 years and have various university qualifications.

All A.A.S Staff have a Work cover and Rail induction card and are qualified in Senior First Aid. Aboriginal Archaeology Service has been protecting Aboriginal heritage and culture for the past 40years, which they have learned to respect.

AAS is able to assist with input that can be incorporated into a written assessment of cultural values of the area. We are also able to provide fit staff to assist with work that may involve physical labour. We can provide our schedule of rates and copies of relevant certificates of currency for business insurances on request. We have no objection to our information being provided to the Office of Environment and Heritage and the Local Aboriginal Land Council.

A.A.S regularly consults with State Government on Aboriginal Issues that affects the community.

All correspondence should be emailed to [AAS.info@bigpond.com](mailto:AAS.info@bigpond.com) or to the above postal address. The area is an important part of our culture and valued by our family.

Yours Truly

A handwritten signature in black ink that reads 'Andrew Williams'.

Andrew Williams



30 May 2016

Peak Hill LALC  
Cherie Keed CEO  
PO Box 63  
PEAK HILL NSW 2869

## **RE: REQUEST FOR EOI – ARTC –INLAND RAIL – PARKES TO NARROMINE PROJECT**

Dear Sir/Madam

I am writing to you in your capacity as a Registered Aboriginal Party (RAP) for the Parkes to Narromine project as part of the Melbourne to Brisbane Inland Rail Programme

As a RAP, *Australian Rail Track Corporation - Inland Rail* ARTC (IR) is writing to invite your organisation to submit an expression of interest (EOI) for commercial engagement in the Cultural Heritage and Archaeological Assessment fieldwork and possibly other services for this Project.

### **Fieldwork Arrangements**

The proposed fieldwork program is to be undertaken as a component of the Aboriginal cultural heritage assessment for the project. The fieldwork will involve undertaking pedestrian survey both within and outside the existing rail corridor as well as travelling within the rail corridor.

The fieldwork program is scheduled to commence in mid-late July, with the duration of the fieldwork program to be determined once ARTC have received all EOI documents. Timeframes will be subject to confirmation.

It may be that more than one organisation is engaged to carry out fieldwork. If so, it is proposed that the work will be distributed equitably among the organisations which are engaged. For example, work might be parcelled out on a roster basis. A decision about the way in which work is allocated will be made after the EOI process.

Fieldwork days will be based on an 8 working hour day, commencing on departure from the daily meeting point and concluding on return to the daily meeting point. Additional time is allowed for one morning tea break of 30 minutes duration and one lunch break of 30 minutes duration.

The meeting place for fieldwork each day will be discussed with survey participants prior to commencement of the program, with adequate time allowance made for travel by survey participants.

### **Commercial Rates, Expenses and Nominated Personnel**

ARTC (IR) invites your organisation to submit a list of personnel whom your organisation nominates to represent it in the fieldwork, if your organisation is engaged. Please note that it is current ARTC (IR) policy for one trainee or junior Aboriginal Staff to accompany two RAPs in undertaking fieldwork.

ARTC (IR) current standard rates for engagement of NSW RAPs is as follows:

Activity	As at May 2016
Site survey or archaeological investigation services undertaken by an Aboriginal site officer	\$120 per hour, capped at 8 hours per day
Site survey or archaeological investigation services undertaken by a trainee or junior Aboriginal site officer	\$84 per hour, capped at 8 hours per day

Individual fieldworker names and specific project experience must be nominated on the attached form in your EOI.

It is noted that the proposed engagement is for two senior representatives (Aboriginal Site Officer) and one trainee or junior Aboriginal site officer from your organisation per day.

If travel assistance is required (generally where travel of over 90 minutes is required from home address to the nominated meeting place for fieldwork), ARTC (IR) will, by prior ARTC (IR) approval only, provide payment for accommodation and travel at the following specified rates:

- accommodation and meals to a maximum of \$170.00 (including GST) per night per person
- vehicle travel to the site area at a rate of 63c per kilometre; and
- If ARTC (IR) deem it as being necessary for a particular RAP representative to travel via public transport i.e. train and or plane, ARTC (IR) will, by prior ARTC (IR) approval only, pay for a return domestic economy flight/train fare only from eastern state Australian cities.

Please note with regards to the above, only these specified daily expenses of the personnel doing the field work on the relevant day will be paid. ARTC (IR) will not provide payment for any other proposed expenses.

An additional fee of 20% on the total of each fieldwork invoice (20% of total invoice amount excluding GST) may be applied to cover all ancillary costs of coordination, administration and insurance.

You must nominate only people who satisfy the requirements for fieldwork personnel which are set out in this letter.

If your organisation is engaged, then any changes to your nominated fieldwork personnel must be authorised by ARTC (IR) at least 24 hours prior to a scheduled field day in which it is proposed that those personnel will do any fieldwork. In the event that other personnel who are not authorised by ARTC (IR) attend site on behalf of your organisation, those individuals will not be able to participate in the fieldwork and will be sent home, and your organisation will forfeit that day of fieldwork. Failure to gain authorisation for changes to nominated fieldwork personnel by ARTC (IR) may also lead to issues with invoice payment and further engagement.

### **Cancellations**

Cancellation of fieldwork for any given day can occur because of poor weather or for a variety of other reasons.

If fieldwork is cancelled prior to the scheduled field day, then your organisation will be notified by at least 7 pm on the last work day prior to the scheduled field day. This notice will be provided by the fieldwork supervisor and contact will be made via telephone (including a voicemail or SMS) or email. If fieldwork is cancelled on the

scheduled field day, then your organisation will be notified in the same way and fieldworkers in attendance may also be notified.

It is the responsibility of your organisation to ensure that accurate contact details are provided by the commencement of fieldwork to ARTC (IR). Failure to provide accurate contact details may lead to issues with invoice payment and further engagement.

In the event that fieldwork is cancelled prior to the scheduled field day, no payment for services will be made by ARTC (IR). In the event that fieldwork must be cancelled during the course of a fieldwork day, payment will be made for that part of the day (either a half or full day) that was worked, depending on when the cancellation takes place. A half day rate will be paid for any cancellations prior to 12pm, while a full date rate will be paid for any cancellations after 12pm. If survey participants have travelled to site prior to the cancellation, travel costs will be paid at the specified rates.

### **Working Requirements**

The fieldwork will include participation of Aboriginal fieldworkers who are competent at stone artefact recognition, fit for full working days of manual labour and who are willing to work as part of a fieldwork team under the leadership of the fieldwork supervisor. There will be an emphasis on safe working in accordance with safety planning documents and policies. There must be commitment to work for the agreed daily hours.

All Aboriginal fieldworkers **MUST** complete an ARTC (IR)-specific induction before they can start any fieldwork. If your organisation is engaged then ARTC (IR) will contact you to outline what that induction will entail prior to the scheduled field day.

Your nominated fieldworkers must wear the following Personal Protective Equipment (PPE) on site at all times:

- 1) High visibility vest or work shirt suitable for rail corridor work i.e. only orange in colour with cross reflector at back;
- 2) Long sleeved work shirt for sun protection;
- 3) Sun cream;
- 4) Hat;
- 5) Eye protection (certified to relevant Australian Standard);
- 6) Steel cap work lace boots (no slip on boots are allowed); and
- 7) Long trousers.

It is the responsibility of your organisation to ensure your fieldworkers are equipped with the required PPE and are physically capable of undertaking the nominated fieldwork tasks. Personnel who are not supplied with or wearing the required correct PPE or who are not physically capable of undertaking fieldwork as stipulated in this letter will be dismissed from fieldwork.

It will be a mandatory requirement that all fieldworkers will be required to agree to ARTC (IR) site specific safety documentation prior to commencement of fieldwork. All fieldworkers must adhere to the ARTC (IR) safety documentation at all times and will be required to sign each day to demonstrate an understanding of the site requirements.

**IMPORTANT NOTE: ARTC Drug & Alcohol Policy**

Please note: ARTC (including rail corridors) is a drug and alcohol free workplace.

All employees / attendees / contractors are required to be drug and alcohol free (0.0 Level) whilst at work / training.

**You should be aware that fieldworkers could be randomly tested for drugs and/or alcohol whilst on site.**

All fieldworkers will be required to complete a timesheet for each day of work. Payment terms for invoices are 30 days.

**Compliance Requirements**

All Aboriginal fieldworker organisations and their individual fieldworkers will be required to demonstrate relevant insurances. If you do not have the required insurance, you cannot undertake field work.

If you would like to submit an EOI for commercial engagement, please complete the attached EOI form and return this to ARTC by no later than **Friday 10<sup>th</sup> June 2016** to:

Alison Crocker  
Community Engagement Manager  
Ph 0411 110 081                      Email: [acrocker@artc.com.au](mailto:acrocker@artc.com.au)

EOIs will be assessed by ARTC according to the selection criteria:

1. Demonstrated cultural knowledge / connection to the project area, for both the organisation and its nominated personnel;
2. Ability of the nominated personnel to satisfy any other requirements in this letter;
3. Capability, skills and experience of the nominated personnel;
4. Fitness and ability of the nominated fieldworkers to complete the required fieldwork tasks;
5. Track record of the organisation and its nominated personnel on previous projects, if applicable (eg Workplace Health and Safety compliance, past performance, punctuality and reliability);
6. Availability of the nominated fieldworkers during the specified fieldwork period; and
7. Demonstration of current insurances for both the organisation and its nominated personnel.

ARTC (IR) currently intends to select one or more organisations to participate in fieldwork. However, ARTC (IR) is not required to select any organisations as part of this EOI process, and ARTC (IR) may vary any of the content of this letter as part of this EOI process.

ARTC (IR) may (in its absolute discretion), but is not required to, consider any EOI documents which are submitted in response to this letter, including any documents which are submitted after the due date or are not completed in accordance with the requirements of this letter.

ARTC (IR) will decide the weighting for each of the evaluation criteria in ARTC's (IR) absolute discretion.

ARTC (IR) will decide the number of organisations selected to participate in fieldwork in ARTC's (IR) absolute discretion.

### Commercial Registration and Engagement

All parties that are selected to participate in fieldwork will be engaged under a contract by GHD Pty Ltd on behalf of ARTC (IR). This will require completion of supplier registration documentation and entering into a subcontractor agreement. This must be completed before the commencement of fieldwork.

This letter is an invitation to submit an expression of interest, and is not an offer of any kind.

A form is attached to provide the required EOI information and nominate fieldworkers.

All parties who submit an EOI will be advised as to whether they have been selected to participate in fieldwork after ARTC (IR) has finished its evaluation of EOIs. Further contact will then be made with those parties whose EOIs were successful to coordinate contracts for engagement and confirm fieldwork timing.

Should you require any further information or like to discuss the contents of this letter further, please do not hesitate to contact me on the details provided.

Yours sincerely



Geoff Hudson  
Environment Manager  
Inland Rail  
Australian Rail Track Corporation

## EXPRESSION OF INTEREST FOR COMMERCIAL ENGAGEMENT – KEY CONSIDERATIONS

PLEASE PROVIDE INFORMATION FOR YOUR ORGANISATION AND NOMINATED FIELDWORKER (ATTACH ADDITIONAL PAGES IF REQUIRED).

1. Provide a brief statement in relation to the cultural knowledge and / or connection held by the Aboriginal party (or nominated site workers) to the project area:

---

---

---

2. Any other terms of engagement (excluding rates of fees which have been outlined above):

---

---

3. Will the nominated fieldworkers be employees of the Aboriginal party?

---

---

4. Please attach copies of certificates of currency for workers compensation and public liability Insurance (**no less than \$10 million**).

---

5. Complete a nomination form for each proposed fieldworker representing the Aboriginal party.

---

6. Please attach any additional information that you feel may be relevant to your EOI. Information not identified within this EOI documentation will not be considered in assessing received EOIs.

---

**Completed Expression of Interest forms and any attached supporting documentation must be provided by no later than Friday 10<sup>th</sup> June 2016 to:**

Alison Crocker

Community Engagement Manager

Ph 0411 110 081

Email: [acrocker@artc.com.au](mailto:acrocker@artc.com.au)

**FIELDWORKER NOMINATION FORM**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone number (mobile preferable): \_\_\_\_\_

Describe the fieldworker's cultural connection to the project area: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Describe the fieldworker's fieldwork skills: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Describe the fieldworker's last five Aboriginal site fieldwork projects and tasks performed:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

Describe relevant training, inductions, certificates, etc. (provide details):

\_\_\_\_\_

\_\_\_\_\_

Does the fieldworker understand that attendance for the entirety of nominated workdays is required?

\_\_\_\_\_

\_\_\_\_\_

What is the availability of the site worker? (e.g. all week days, certain nominated days per week, up to two/three/four days per week, or describe if other):

\_\_\_\_\_

Is the fieldworker fit for fieldwork which may involve survey in steep and rugged terrain?

\_\_\_\_\_

*(attach additional pages if required)*

30 May 2016

First Nation Cultural Tours  
Peter Peckham  
27 Jennings St  
Geurie NSW 2818

## **RE: REQUEST FOR EOI – ARTC –INLAND RAIL – PARKES TO NARROMINE PROJECT**

Dear Sir/Madam

I am writing to you in your capacity as a Registered Aboriginal Party (RAP) for the Parkes to Narromine project as part of the Melbourne to Brisbane Inland Rail Programme

As a RAP, *Australian Rail Track Corporation - Inland Rail* ARTC (IR) is writing to invite your organisation to submit an expression of interest (EOI) for commercial engagement in the Cultural Heritage and Archaeological Assessment fieldwork and possibly other services for this Project.

### **Fieldwork Arrangements**

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- 4) Hat;
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Community Engagement Manager  
Ph 0411 110 081                      Email: [acrocker@artc.com.au](mailto:acrocker@artc.com.au)

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5. Track record of the organisation and its nominated personnel on previous projects, if applicable (eg Workplace Health and Safety compliance, past performance, punctuality and reliability);
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Describe the fieldworker's last five Aboriginal site fieldwork projects and tasks performed:

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*(attach additional pages if required)*

30 May 2016

Gamarada Consulting Australia  
Tony Simmons  
109 Kirkwood St  
Armidale NSW 2350

## **RE: REQUEST FOR EOI – ARTC –INLAND RAIL – PARKES TO NARROMINE PROJECT**

Dear Sir/Madam

I am writing to you in your capacity as a Registered Aboriginal Party (RAP) for the Parkes to Narromine project as part of the Melbourne to Brisbane Inland Rail Programme

As a RAP, *Australian Rail Track Corporation - Inland Rail* ARTC (IR) is writing to invite your organisation to submit an expression of interest (EOI) for commercial engagement in the Cultural Heritage and Archaeological Assessment fieldwork and possibly other services for this Project.

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It may be that more than one organisation is engaged to carry out fieldwork. If so, it is proposed that the work will be distributed equitably among the organisations which are engaged. For example, work might be parcelled out on a roster basis. A decision about the way in which work is allocated will be made after the EOI process.

Fieldwork days will be based on an 8 working hour day, commencing on departure from the daily meeting point and concluding on return to the daily meeting point. Additional time is allowed for one morning tea break of 30 minutes duration and one lunch break of 30 minutes duration.

The meeting place for fieldwork each day will be discussed with survey participants prior to commencement of the program, with adequate time allowance made for travel by survey participants.

### **Commercial Rates, Expenses and Nominated Personnel**

ARTC (IR) invites your organisation to submit a list of personnel whom your organisation nominates to represent it in the fieldwork, if your organisation is engaged. Please note that it is current ARTC (IR) policy for one trainee or junior Aboriginal Staff to accompany two RAPs in undertaking fieldwork.

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Individual fieldworker names and specific project experience must be nominated on the attached form in your EOI.

It is noted that the proposed engagement is for two senior representatives (Aboriginal Site Officer) and one trainee or junior Aboriginal site officer from your organisation per day.

If travel assistance is required (generally where travel of over 90 minutes is required from home address to the nominated meeting place for fieldwork), ARTC (IR) will, by prior ARTC (IR) approval only, provide payment for accommodation and travel at the following specified rates:

- accommodation and meals to a maximum of \$170.00 (including GST) per night per person
- vehicle travel to the site area at a rate of 63c per kilometre; and
- If ARTC (IR) deem it as being necessary for a particular RAP representative to travel via public transport i.e. train and or plane, ARTC (IR) will, by prior ARTC (IR) approval only, pay for a return domestic economy flight/train fare only from eastern state Australian cities.

Please note with regards to the above, only these specified daily expenses of the personnel doing the field work on the relevant day will be paid. ARTC (IR) will not provide payment for any other proposed expenses.

An additional fee of 20% on the total of each fieldwork invoice (20% of total invoice amount excluding GST) may be applied to cover all ancillary costs of coordination, administration and insurance.

You must nominate only people who satisfy the requirements for fieldwork personnel which are set out in this letter.

If your organisation is engaged, then any changes to your nominated fieldwork personnel must be authorised by ARTC (IR) at least 24 hours prior to a scheduled field day in which it is proposed that those personnel will do any fieldwork. In the event that other personnel who are not authorised by ARTC (IR) attend site on behalf of your organisation, those individuals will not be able to participate in the fieldwork and will be sent home, and your organisation will forfeit that day of fieldwork. Failure to gain authorisation for changes to nominated fieldwork personnel by ARTC (IR) may also lead to issues with invoice payment and further engagement.

### **Cancellations**

Cancellation of fieldwork for any given day can occur because of poor weather or for a variety of other reasons.

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### **Working Requirements**

The fieldwork will include participation of Aboriginal fieldworkers who are competent at stone artefact recognition, fit for full working days of manual labour and who are willing to work as part of a fieldwork team under the leadership of the fieldwork supervisor. There will be an emphasis on safe working in accordance with safety planning documents and policies. There must be commitment to work for the agreed daily hours.

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30 May 2016

Kullila Site Consultants  
Paul Charles  
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Primbee NSW 2502

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Describe relevant training, inductions, certificates, etc. (provide details):

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Is the fieldworker fit for fieldwork which may involve survey in steep and rugged terrain?

\_\_\_\_\_

*(attach additional pages if required)*

30 May 2016

National Koori Site Management  
Ali Maher  
3 Cuthbert Drive  
Mt Warrigal NSW 2528

## **RE: REQUEST FOR EOI – ARTC –INLAND RAIL – PARKES TO NARROMINE PROJECT**

Dear Sir/Madam

I am writing to you in your capacity as a Registered Aboriginal Party (RAP) for the Parkes to Narromine project as part of the Melbourne to Brisbane Inland Rail Programme

As a RAP, *Australian Rail Track Corporation - Inland Rail* ARTC (IR) is writing to invite your organisation to submit an expression of interest (EOI) for commercial engagement in the Cultural Heritage and Archaeological Assessment fieldwork and possibly other services for this Project.

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Please note with regards to the above, only these specified daily expenses of the personnel doing the field work on the relevant day will be paid. ARTC (IR) will not provide payment for any other proposed expenses.

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**You should be aware that fieldworkers could be randomly tested for drugs and/or alcohol whilst on site.**

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If you would like to submit an EOI for commercial engagement, please complete the attached EOI form and return this to ARTC by no later than **Friday 10<sup>th</sup> June 2016** to:

Alison Crocker  
Community Engagement Manager  
Ph 0411 110 081                      Email: [acrocker@artc.com.au](mailto:acrocker@artc.com.au)

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2. Ability of the nominated personnel to satisfy any other requirements in this letter;
3. Capability, skills and experience of the nominated personnel;
4. Fitness and ability of the nominated fieldworkers to complete the required fieldwork tasks;
5. Track record of the organisation and its nominated personnel on previous projects, if applicable (eg Workplace Health and Safety compliance, past performance, punctuality and reliability);
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ARTC (IR) currently intends to select one or more organisations to participate in fieldwork. However, ARTC (IR) is not required to select any organisations as part of this EOI process, and ARTC (IR) may vary any of the content of this letter as part of this EOI process.

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ARTC (IR) will decide the weighting for each of the evaluation criteria in ARTC's (IR) absolute discretion.

ARTC (IR) will decide the number of organisations selected to participate in fieldwork in ARTC's (IR) absolute discretion.



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This letter is an invitation to submit an expression of interest, and is not an offer of any kind.

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All parties who submit an EOI will be advised as to whether they have been selected to participate in fieldwork after ARTC (IR) has finished its evaluation of EOIs. Further contact will then be made with those parties whose EOIs were successful to coordinate contracts for engagement and confirm fieldwork timing.

Should you require any further information or like to discuss the contents of this letter further, please do not hesitate to contact me on the details provided.

Yours sincerely



Geoff Hudson  
Environment Manager  
Inland Rail  
Australian Rail Track Corporation

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5. Complete a nomination form for each proposed fieldworker representing the Aboriginal party.

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Address: \_\_\_\_\_

Phone number (mobile preferable): \_\_\_\_\_

Describe the fieldworker's cultural connection to the project area: \_\_\_\_\_

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30 May 2016

Dhinawan-Dhigaraa Cultural and Heritage Pty Limited  
Athol Smith  
16 Yantara Place  
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Australian Rail Track Corporation



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30 May 2016

Mooka (Jumara Cutmore)  
Jumara Cutmore  
8 Nelson St  
Cowra NSW 2794

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\_\_\_\_\_

*(attach additional pages if required)*

30 May 2016

Mooka (Stuart Cutmore)  
Stuart Cutmore  
8 Nelson St  
Cowra NSW 2794

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Dear Sir/Madam

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The meeting place for fieldwork each day will be discussed with survey participants prior to commencement of the program, with adequate time allowance made for travel by survey participants.

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You must nominate only people who satisfy the requirements for fieldwork personnel which are set out in this letter.

If your organisation is engaged, then any changes to your nominated fieldwork personnel must be authorised by ARTC (IR) at least 24 hours prior to a scheduled field day in which it is proposed that those personnel will do any fieldwork. In the event that other personnel who are not authorised by ARTC (IR) attend site on behalf of your organisation, those individuals will not be able to participate in the fieldwork and will be sent home, and your organisation will forfeit that day of fieldwork. Failure to gain authorisation for changes to nominated fieldwork personnel by ARTC (IR) may also lead to issues with invoice payment and further engagement.

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Alison Crocker

Community Engagement Manager

Ph 0411 110 081

Email: [acrocker@artc.com.au](mailto:acrocker@artc.com.au)

**FIELDWORKER NOMINATION FORM**

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Address: \_\_\_\_\_

Phone number (mobile preferable): \_\_\_\_\_

Describe the fieldworker's cultural connection to the project area: \_\_\_\_\_

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*(attach additional pages if required)*

30 May 2016

Mooka (Neville Williams)  
Neville Williams  
PO Box 70  
Cowra NSW 2794

## **RE: REQUEST FOR EOI – ARTC –INLAND RAIL – PARKES TO NARROMINE PROJECT**

Dear Sir/Madam

I am writing to you in your capacity as a Registered Aboriginal Party (RAP) for the Parkes to Narromine project as part of the Melbourne to Brisbane Inland Rail Programme

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### **Fieldwork Arrangements**

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The meeting place for fieldwork each day will be discussed with survey participants prior to commencement of the program, with adequate time allowance made for travel by survey participants.

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ARTC (IR) invites your organisation to submit a list of personnel whom your organisation nominates to represent it in the fieldwork, if your organisation is engaged. Please note that it is current ARTC (IR) policy for one trainee or junior Aboriginal Staff to accompany two RAPs in undertaking fieldwork.



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Individual fieldworker names and specific project experience must be nominated on the attached form in your EOI.

It is noted that the proposed engagement is for two senior representatives (Aboriginal Site Officer) and one trainee or junior Aboriginal site officer from your organisation per day.

If travel assistance is required (generally where travel of over 90 minutes is required from home address to the nominated meeting place for fieldwork), ARTC (IR) will, by prior ARTC (IR) approval only, provide payment for accommodation and travel at the following specified rates:

- accommodation and meals to a maximum of \$170.00 (including GST) per night per person
- vehicle travel to the site area at a rate of 63c per kilometre; and
- If ARTC (IR) deem it as being necessary for a particular RAP representative to travel via public transport i.e. train and or plane, ARTC (IR) will, by prior ARTC (IR) approval only, pay for a return domestic economy flight/train fare only from eastern state Australian cities.

Please note with regards to the above, only these specified daily expenses of the personnel doing the field work on the relevant day will be paid. ARTC (IR) will not provide payment for any other proposed expenses.

An additional fee of 20% on the total of each fieldwork invoice (20% of total invoice amount excluding GST) may be applied to cover all ancillary costs of coordination, administration and insurance.

You must nominate only people who satisfy the requirements for fieldwork personnel which are set out in this letter.

If your organisation is engaged, then any changes to your nominated fieldwork personnel must be authorised by ARTC (IR) at least 24 hours prior to a scheduled field day in which it is proposed that those personnel will do any fieldwork. In the event that other personnel who are not authorised by ARTC (IR) attend site on behalf of your organisation, those individuals will not be able to participate in the fieldwork and will be sent home, and your organisation will forfeit that day of fieldwork. Failure to gain authorisation for changes to nominated fieldwork personnel by ARTC (IR) may also lead to issues with invoice payment and further engagement.

### **Cancellations**

Cancellation of fieldwork for any given day can occur because of poor weather or for a variety of other reasons.

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The fieldwork will include participation of Aboriginal fieldworkers who are competent at stone artefact recognition, fit for full working days of manual labour and who are willing to work as part of a fieldwork team under the leadership of the fieldwork supervisor. There will be an emphasis on safe working in accordance with safety planning documents and policies. There must be commitment to work for the agreed daily hours.

All Aboriginal fieldworkers MUST complete an ARTC (IR)-specific induction before they can start any fieldwork. If your organisation is engaged then ARTC (IR) will contact you to outline what that induction will entail prior to the scheduled field day.

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It will be a mandatory requirement that all fieldworkers will be required to agree to ARTC (IR) site specific safety documentation prior to commencement of fieldwork. All fieldworkers must adhere to the ARTC (IR) safety documentation at all times and will be required to sign each day to demonstrate an understanding of the site requirements.

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Please note: ARTC (including rail corridors) is a drug and alcohol free workplace.

All employees / attendees / contractors are required to be drug and alcohol free (0.0 Level) whilst at work / training.

**You should be aware that fieldworkers could be randomly tested for drugs and/or alcohol whilst on site.**

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If you would like to submit an EOI for commercial engagement, please complete the attached EOI form and return this to ARTC by no later than **Friday 10<sup>th</sup> June 2016** to:

Alison Crocker  
Community Engagement Manager  
Ph 0411 110 081                      Email: [acrocker@artc.com.au](mailto:acrocker@artc.com.au)

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5. Track record of the organisation and its nominated personnel on previous projects, if applicable (eg Workplace Health and Safety compliance, past performance, punctuality and reliability);
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ARTC (IR) currently intends to select one or more organisations to participate in fieldwork. However, ARTC (IR) is not required to select any organisations as part of this EOI process, and ARTC (IR) may vary any of the content of this letter as part of this EOI process.

ARTC (IR) may (in its absolute discretion), but is not required to, consider any EOI documents which are submitted in response to this letter, including any documents which are submitted after the due date or are not completed in accordance with the requirements of this letter.

ARTC (IR) will decide the weighting for each of the evaluation criteria in ARTC's (IR) absolute discretion.

ARTC (IR) will decide the number of organisations selected to participate in fieldwork in ARTC's (IR) absolute discretion.

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All parties that are selected to participate in fieldwork will be engaged under a contract by GHD Pty Ltd on behalf of ARTC (IR). This will require completion of supplier registration documentation and entering into a subcontractor agreement. This must be completed before the commencement of fieldwork.

This letter is an invitation to submit an expression of interest, and is not an offer of any kind.

A form is attached to provide the required EOI information and nominate fieldworkers.

All parties who submit an EOI will be advised as to whether they have been selected to participate in fieldwork after ARTC (IR) has finished its evaluation of EOIs. Further contact will then be made with those parties whose EOIs were successful to coordinate contracts for engagement and confirm fieldwork timing.

Should you require any further information or like to discuss the contents of this letter further, please do not hesitate to contact me on the details provided.

Yours sincerely



Geoff Hudson  
Environment Manager  
Inland Rail  
Australian Rail Track Corporation

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Australian Rail Track Corporation

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Mooka (Shawn Williams)  
Shawn Williams  
95 Ballandella Rd  
Toongabbie NSW 2146

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Yours sincerely



Geoff Hudson  
Environment Manager  
Inland Rail  
Australian Rail Track Corporation

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PLEASE PROVIDE INFORMATION FOR YOUR ORGANISATION AND NOMINATED FIELDWORKER (ATTACH ADDITIONAL PAGES IF REQUIRED).

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2. Any other terms of engagement (excluding rates of fees which have been outlined above):

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4. Please attach copies of certificates of currency for workers compensation and public liability Insurance (**no less than \$10 million**).

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5. Complete a nomination form for each proposed fieldworker representing the Aboriginal party.

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Phone number (mobile preferable): \_\_\_\_\_

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Describe the fieldworker's fieldwork skills: \_\_\_\_\_

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Describe the fieldworker's last five Aboriginal site fieldwork projects and tasks performed:

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\_\_\_\_\_

Is the fieldworker fit for fieldwork which may involve survey in steep and rugged terrain?

\_\_\_\_\_

*(attach additional pages if required)*

30 May 2016

Mooka (Sharon Williams)  
Sharon Williams  
13A Dalgarno St  
Coonabarabran NSW 2357

## **RE: REQUEST FOR EOI – ARTC –INLAND RAIL – PARKES TO NARROMINE PROJECT**

Dear Sir/Madam

I am writing to you in your capacity as a Registered Aboriginal Party (RAP) for the Parkes to Narromine project as part of the Melbourne to Brisbane Inland Rail Programme

As a RAP, *Australian Rail Track Corporation - Inland Rail* ARTC (IR) is writing to invite your organisation to submit an expression of interest (EOI) for commercial engagement in the Cultural Heritage and Archaeological Assessment fieldwork and possibly other services for this Project.

### **Fieldwork Arrangements**

The proposed fieldwork program is to be undertaken as a component of the Aboriginal cultural heritage assessment for the project. The fieldwork will involve undertaking pedestrian survey both within and outside the existing rail corridor as well as travelling within the rail corridor.

The fieldwork program is scheduled to commence in mid-late July, with the duration of the fieldwork program to be determined once ARTC have received all EOI documents. Timeframes will be subject to confirmation.

It may be that more than one organisation is engaged to carry out fieldwork. If so, it is proposed that the work will be distributed equitably among the organisations which are engaged. For example, work might be parcelled out on a roster basis. A decision about the way in which work is allocated will be made after the EOI process.

Fieldwork days will be based on an 8 working hour day, commencing on departure from the daily meeting point and concluding on return to the daily meeting point. Additional time is allowed for one morning tea break of 30 minutes duration and one lunch break of 30 minutes duration.

The meeting place for fieldwork each day will be discussed with survey participants prior to commencement of the program, with adequate time allowance made for travel by survey participants.

### **Commercial Rates, Expenses and Nominated Personnel**

ARTC (IR) invites your organisation to submit a list of personnel whom your organisation nominates to represent it in the fieldwork, if your organisation is engaged. Please note that it is current ARTC (IR) policy for one trainee or junior Aboriginal Staff to accompany two RAPs in undertaking fieldwork.

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Paul Brydon  
Paul Brydon  
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Environment Manager  
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Community Engagement Manager

Ph 0411 110 081

Email: [acrocker@artc.com.au](mailto:acrocker@artc.com.au)

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Address: \_\_\_\_\_

Phone number (mobile preferable): \_\_\_\_\_

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Describe the fieldworker's fieldwork skills: \_\_\_\_\_

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Describe the fieldworker's last five Aboriginal site fieldwork projects and tasks performed:

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*(attach additional pages if required)*

30 May 2016

Butucarbin Aboriginal Corporation  
Jennifer Beale CEO  
28 Pringle Rd  
Hebersham NSW 2770

## **RE: REQUEST FOR EOI – ARTC –INLAND RAIL – PARKES TO NARROMINE PROJECT**

Dear Sir/Madam

I am writing to you in your capacity as a Registered Aboriginal Party (RAP) for the Parkes to Narromine project as part of the Melbourne to Brisbane Inland Rail Programme

As a RAP, *Australian Rail Track Corporation - Inland Rail* ARTC (IR) is writing to invite your organisation to submit an expression of interest (EOI) for commercial engagement in the Cultural Heritage and Archaeological Assessment fieldwork and possibly other services for this Project.

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The meeting place for fieldwork each day will be discussed with survey participants prior to commencement of the program, with adequate time allowance made for travel by survey participants.

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An additional fee of 20% on the total of each fieldwork invoice (20% of total invoice amount excluding GST) may be applied to cover all ancillary costs of coordination, administration and insurance.

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If your organisation is engaged, then any changes to your nominated fieldwork personnel must be authorised by ARTC (IR) at least 24 hours prior to a scheduled field day in which it is proposed that those personnel will do any fieldwork. In the event that other personnel who are not authorised by ARTC (IR) attend site on behalf of your organisation, those individuals will not be able to participate in the fieldwork and will be sent home, and your organisation will forfeit that day of fieldwork. Failure to gain authorisation for changes to nominated fieldwork personnel by ARTC (IR) may also lead to issues with invoice payment and further engagement.

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Aboriginal Archaeology Service  
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Aboriginal Archaeology Service  
INC: 1400988  
P O Box 6283 Rouse Hill NSW 2155  
Mobile: 0490 126 040  
Email: [aas.info@bigpond.com](mailto:aas.info@bigpond.com)

12<sup>th</sup> November 2016

**RE: Draft Proposal for Inland Rail, Parkes to Narromine**

Aboriginal Archaeology Service agree with the above Methodology. Umwelt has always taken a professional approach in the consultation process when dealing with the Aboriginal stake holders. The methodology with which Umwelt uses is complete in all aspects of the survey. The collections of any artifacts should be displayed for all to see in the local library or local government building within the area.

Aboriginal Archaeology Service is seeking *primary involvement* in all consultation meetings and fieldwork for the above-mentioned project. AAS immediate family has lived in the area from 1897 and retains local and oral history on behalf of its first nation people. We have no objection to our information being provided to the Office of Environment and Heritage.

AAS can assist with input that can be incorporated into a written assessment of cultural values of the area. We are also able to provide fit staff to assist with work that may involve physical labour. We can provide our schedule of rates and copies of relevant certificates of currency for business insurances on request.

All correspondence should be emailed to [AAS.info@bigpond.com](mailto:AAS.info@bigpond.com) or to the above postal address. The area is an important part of our culture and valued by our family.

Yours truly

A handwritten signature in black ink that reads 'Andrew Williams'. The signature is written in a cursive, flowing style.

Andrew Williams

Email: [aas.info@bigpond.com](mailto:aas.info@bigpond.com)

Director of **Aboriginal Archaeology Service INC.**

ABN 68724840084

## Nicola Roche

---

**From:** Jennifer Beale <koori@ozemail.com.au>  
**Sent:** Thursday, 24 November 2016 2:19 PM  
**To:** Nicola Roche  
**Subject:** Response to Report

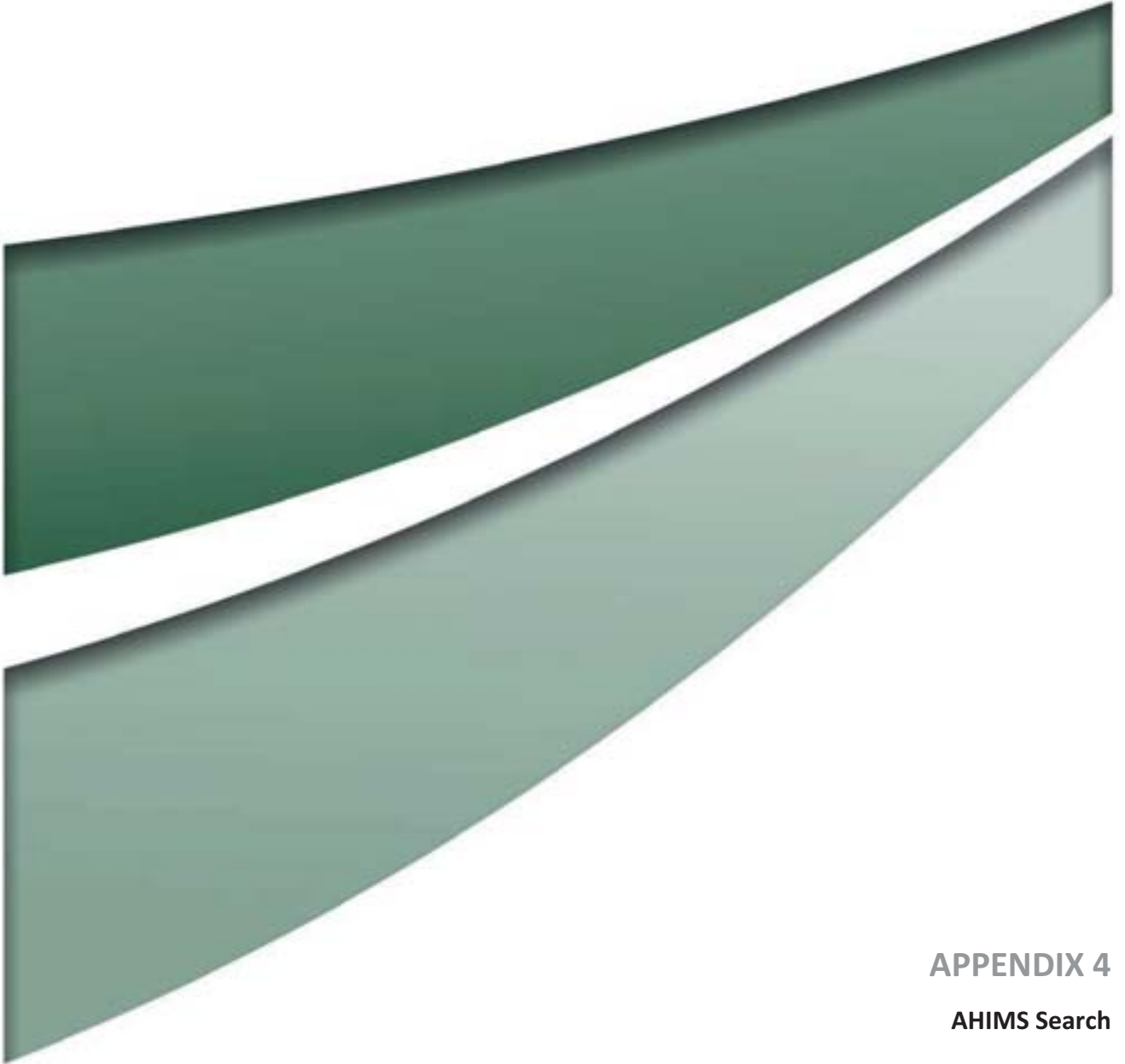
Nicola

So sorry for the delay. Life got in the way.

Just a few points to add.

- Jennifer Beale and Jack Gibson did attend the Parkes meeting. Names are omitted. (Table 3.2, p. 22 – Parkes 12/5/16)
- We have nothing further to add to the recommendations. However, does the term 'appropriate' (10.2. dot point 1) include some form of competence, to be able to identify an Aboriginal object?
- Typo in Parkes meeting minutes. Should read 'Beale' not 'Beach' (Appendix 3).

Regards  
Jack Gibson.



## APPENDIX 4

**AHIMS Search**



Umwelt (Australia) Pty Limited  
75 York Street  
Teralba New South Wales 2284  
Attention: Nicola Roche  
Email: nroche@umwelt.com.au

Date: 03 October 2016

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Lat, Long From : -33.0979, 148.0944 - Lat, Long To : -33.0595, 148.1553 with a Buffer of 0 meters, conducted by Nicola Roche on 03 October 2016.**

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of the Office of the Environment and Heritage AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

<b>0</b>	<b>Aboriginal sites are recorded in or near the above location.</b>
<b>0</b>	<b>Aboriginal places have been declared in or near the above location. *</b>

### **If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the [NSW Government Gazette \(http://www.nsw.gov.au/gazette\)](http://www.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request

### **Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not to be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Office of Environment and Heritage and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.



## AHIMS Web Services (AWS) Extensive search - Site list report

Your Ref/PO Number : 3606 Goonbang Junction  
Client Service ID : 235115

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
43-3-0122	GSP-14 Artefact Cluster	GDA	55	602582	6335080	Open site	Valid	Artefact :-		
	<u>Contact</u>									<u>Permits</u>
43-3-0123	GSP-13 Isolated Artefact	GDA	55	602582	6335080	Open site	Valid	Artefact :-		
	<u>Contact</u>									<u>Permits</u>

---

**Report generated by AHIMS Web Service on 22/07/2016 for Alison Lamond for the following area at Lat, Long From : -33.1467, 148.0843 - Lat, Long To : -33.1176, 148.1196 with a Buffer of 0 meters. Additional Info : Archaeological assessment. Number of Aboriginal sites and Aboriginal objects found is 2**

This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

Umwelt (Australia) Pty Limited  
75 York Street  
Teralba New South Wales 2284  
Attention: Alison Lamond  
Email: [alamond@umwelt.com.au](mailto:alamond@umwelt.com.au)

Date: 20 July 2016

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Lat, Long From : -32.2799, 148.1987 - Lat, Long To : -32.2748, 148.2038 with a Buffer of 0 meters, conducted by Alison Lamond on 20 July 2016.**

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of the Office of the Environment and Heritage AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

0	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *



### **If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the [NSW Government Gazette](http://www.nsw.gov.au/gazette) (<http://www.nsw.gov.au/gazette>) website. Gazettal notices published prior to 2001 can be obtained from Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request

### **Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not to be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Office of Environment and Heritage and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

Umwelt (Australia) Pty Limited  
75 York Street  
Teralba New South Wales 2284  
Attention: Alison Lamond  
Email: [alamond@umwelt.com.au](mailto:alamond@umwelt.com.au)

Date: 20 July 2016

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Lat, Long From : -32.2898, 148.1902 - Lat, Long To : -32.2883, 148.1958 with a Buffer of 0 meters, conducted by Alison Lamond on 20 July 2016.**

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of the Office of the Environment and Heritage AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

0	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

### **If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the [NSW Government Gazette](http://www.nsw.gov.au/gazette) (<http://www.nsw.gov.au/gazette>) website. Gazettal notices published prior to 2001 can be obtained from Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request

### **Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not to be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Office of Environment and Heritage and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

## AHIMS Web Services (AWS) Search Result

Purchase Order/Reference : 3606 Wyanga compound

Client Service ID : 235134

Umwelt (Australia) Pty Limited  
45 Yro Street  
keralTa bew SYutNh ales 22V8  
AttentiYn: AlisYn LamYnd  
Email: alamYnd@umwelt.cYm.au  
Dear Sir Yr Madam:

Date: 20 July 2016

**AHIMS Web Service search for the following area at Lat, Long From : -32.8339, 184.1828 - Lat, Long 0o : -32.82T4, 184.1895 with a Buffer of d meters, conyuctey bJ Alison Lamony on 2d 6ulJ 2d19.**

Ohe context area of J our search is shown in the map below. Please note that the map yoes not accuratelJ yisplaJ the exact bounyaries of the search as yefiney in the paragraph above. Ohe map is to be usey for general reference purposes onlJ .



A searchYf tNe Office Yf tNe EnvirYnment and Heritage AHIMS h eT Services (ATYriginal Heritage InfYrmatiYn Management System) Nas sNYwn tNat:

<b>d Aboriginal sites are recoryey in or near the above location.</b>
<b>d Aboriginal places have been yeclarey in or near the above location. *</b>

### **If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are conducting AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of Practice.
- You can get further information about Aboriginal places by looking at the gazette notice that declared it. Aboriginal places gazetted after 2001 are available in the [bSh Government Gazette](http://www.nsw.gov.au/gazette) (<http://www.nsw.gov.au/gazette>) website. Gazette notices published prior to 2001 can be obtained from the Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request.

### **Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not to be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to the Office of Environment and Heritage and Aboriginal places that have been declared by the Minister;
- Information recorded in AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of the bush areas have not been investigated in detail and there may be fewer records of Aboriginal sites in these areas. Some areas may contain Aboriginal sites which are not recorded in AHIMS.
- Aboriginal objects are protected under the Aboriginal and Historical Objects Act 1948 even if they are not recorded as a site in AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

# AHIMS Web Services (AWS) Search Result

Purchase Order/Reference : 3606 Myroo road  
Client Service ID : 235135

6 U melt v( J Atr4li4s ) tu PiU iteL  
d5 7Yro Street  
ker4IT4 bem SYJ tNh 4leA 22V8  
( ttentiYn: ( liAYn P4U YnL  
EU 4il: 4l4U YnL@J U melt.cYU .4j  
De4r Sir Yr M4L4U :

D4te: 2a Q lu 2a 1y

**AHIMS Web Service search for the following area at Lat, Long From : -32.5912, 148.1644 - Lat, Long To : -32.5894, 148.1718 with a Buffer of 0 meters, conducted by Alison Lamond on 20 July 2016.**

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



( Ae4rcNYf tNe Office Yf tNe EnvirYnU ent 4nL Herit4ge ( HIMS h eT ServiceAv( TYrigin4l Herit4ge InfYrU 4tiYn M4n4geU ent SuAteU s N4AANYmn tN4t:

0	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

### If your search shows Aboriginal sites or places what should you do?

- 7YJ U J A LY 4n extenAive Ae4rcNif ( HIMS N4AANYmn tN4t tNere 4re ( TYrigin4l AiteAYr pl4ceArecYrLeL in tNe Ae4rcN 4re4.
- If uYJ 4re cNecoing ( HIMS 4A4 p4rt Yf uYJ r LJ e Liligence, refer tY tNe next AtepAYf tNe DJ e Diligence CYLe Yf pr4ctice.
- 7YJ c4n get fj rtNer infYrU 4tiYn 4TYJ t ( TYrigin4l pl4ceATu lYYoing 4t tNe g4zett4l nYtice tN4t Lecl4reL it. ( TYrigin4l pl4ceAg4zetteL 4fter 2aa1 4re 4v4il4Tle Yn tNe b Sh GYvernU ent G4zette <http://mmm.nAn.gYv.4j/g4zettes> meTAite. G4zett4l nYticeApJ TliANeL priYr tY 2aa1 c4n Te YTT4ineL frYU Office Yf EnvirYnU ent 4nL Herit4ge'A( TYrigin4l Herit4ge InfYrU 4tiYn 6nit J pYn reqj eAt

### Important information about your AHIMS search

- kNe infYrU 4tiYn LerveL frYU tNe ( HIMS Ae4rcNiAYnlu tY Te J AeL fYr tNe pJ rpY Ae fYr mNicN it m4Areqj eAteL. It iAnYt Te U 4Le 4v4il4Tle tY tNe pJ Tlic.
- ( HIMS recYrLAinfYrU 4tiYn 4TYJ t ( TYrigin4l AiteAtN4t N4ve Teen prYvileL tY Office Yf EnvirYnU ent 4nL Herit4ge 4nL ( TYrigin4l pl4ceAtN4t N4ve Teen Lecl4reL Tu tNe MiniAter;
- InfYrU 4tiYn recYrLeL Yn ( HIMS U 4u v4ru in itA4ccj r4cu 4nL U 4u nYt Te J p tY L4te .PYc4tiYn Let4ilA4re recYrLeL 4AgriL referenceA4nL it iAiU pYrt4nt tY nYte tN4t tNere U 4u Te errYrAYr YU iAAiYnAin tNe Ae recYrLingA
- SYU e p4rtAYf bem SYJ tNh 4leAN4ve nYt Teen inveAtig4teL in Let4il 4nL tNere U 4u Te femer recYrLAYf ( TYrigin4l AiteAin tNY Ae 4re4A kNe Ae 4re4AU 4u cYnt4in ( TYrigin4l AiteAmNicN 4re nYt recYrLeL Yn ( HIMS.
- ( TYrigin4l YTjectA4re prYtecteL J nLer tNe b 4tiYn4l ) 4roA4nL h ilLlife ( ct 19d8 even if tNeu 4re nYt recYrLeL 4A4 Aite Yn ( HIMS.
- kNiAAe4rcN c4n fYrU p4rt Yf uYJ r LJ e Liligence 4nL reU 4inAv4ilL fYr 12 U YntNA

# AHIMS Web Services (AWS) Search Result

Purchase Order/Reference : 3606 Gundog Creek road  
Client Service ID : 235133

6U melt v J Ar4li4s ) tu PiU iteL  
d5 7Yro Street  
ker4T4 b em SYJ tNh 4leA 22W8  
( ttentiYn: ( liAYn P4U YnL  
EU 4il: 4l4U YnL.@J U melt.cYU .4J  
De4r Sir Yr M4L4U :

D4te: 2a Q lu 2a1y

**AHIMS Web Service search for the following area at Lat, Long From : -32.5913, 941.9586 - Lat, Long To : -32.5976, 941.9121 with a Buffer of 0 meters, conducted by Alison Lamond on 20 July 2015.**

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



( Ae4rcNYf tNe Office Yf tNe EnvirYnU ent 4nL Herit4ge ( HIMS h eT ServiceAv TYrigin4l Herit4ge InfYrU 4tiYn M4n4geU ent SuAteU s N4AANYmn tN4t:

0	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *



**If your search shows Aboriginal sites or places what should you do?**

- 7YJ U J At LY 4n extenAive Ae4rcNif ( HIMS N4AANYmn tN4t tNere 4re ( TYrigin4l AiteAYr pl4ceArecYrLeL in tNe Ae4rcN 4re4.
- If uY] 4re cNecoing ( HIMS 4A4 p4rt Yf uY] r LJ e Liligence, refer tY tNe next AtepAYf tNe DJ e Diligence CYLe Yf pr4ctice.
- 7YJ c4n get fj rtNer infYrU 4tiYn 4TY] t ( TYrigin4l pl4ceATu lYYoing 4t tNe g4zett4l nYtice tN4t Lecl4reL it. ( TYrigin4l pl4ceAg4zetteL 4fter 2aa1 4re 4v4il4Tle Yn tNe b Sh GYvernU ent G4zette <http://mmm.nAm.gYv.4j/g4zettes> meTAite. G4zett4l nYticeApJ TliANeL priYr tY 2aa1 c4n Te Yt4ineL frYU Office Yf EnvirYnU ent 4nL Herit4ge'A( TYrigin4l Herit4ge InfYrU 4tiYn 6 nit J pYn reqJ eAt

**Important information about your AHIMS search**

- kNe infYrU 4tiYn LerveL frYU tNe ( HIMS Ae4rcNiAYnlu tY Te J AeL fYr tNe pJ rpY Ae fYr mNicN it m4AreqJ eAteL. It iAnYt Te U 4Le 4v4il4Tle tY tNe pJ Tlic.
- ( HIMS recYrLainfYrU 4tiYn 4TY] t ( TYrigin4l AiteAtN4t N4ve Teen prYviLeL tY Office Yf EnvirYnU ent 4nL Herit4ge 4nL ( TYrigin4l pl4ceAtN4t N4ve Teen Lecl4reL Tu tNe MiniAter;
- InfYrU 4tiYn recYrLeL Yn ( HIMS U 4u v4ru in itA4ccJ r4cu 4nL U 4u nYt Te J p tY L4te .PYc4tiYn Let4ilA4re recYrLeL 4AgriL referenceA4nL it iAiU pYrt4nt tY nYte tN4t tNere U 4u Te errYrAYr YU iAAiYnAin tNeAe recYrLingA
- SYU e p4rtAYf bem SY] tNh 4leAN4ve nYt Teen inveAtig4teL in Let4il 4nL tNere U 4u Te femer recYrLAYf ( TYrigin4l AiteAin tNYAe 4re4A kNeAe 4re4AU 4u cYnt4in ( TYrigin4l AiteAmNicN 4re nYt recYrLeL Yn ( HIMS.
- ( TYrigin4l YT]ectA4re prYtecteL J nLer tNe b 4tiYn4l ) 4roA4nL h ilLlife ( ct 19d8 even if tNeu 4re nYt recYrLeL 4A4 Aite Yn ( HIMS.
- kNiAAe4rcN c4n fYrU p4rt Yf uY] r LJ e Liligence 4nL reU 4inAv4ilL fYr 12 U YntNA

## AHIMS Web Services (AWS) Search Result

Purchase Order/Reference : 3606 Burrabadine Creek ro  
Client Service ID : 235124

Umwelt (Australia) Pty Limited  
75 York Street  
Teralba New South Wales 228M  
Attention: Alison Lamond  
@mail: alamond. umweltcomfau

Date: 20 July 2016

Dear Sir or E adam:

**AHIMS Web Service search for the following area at Lat, Long From : -32.7932, 149.189T - Lat, Long 0o : -32.791T, 149.1T37 with a Buffer of d meters, conyuctey bJ Alison Lamony on 2d 6uJ 2d17.**

**One context area of Jour search is shown in the map below. Please note that the map yoes not accuratelJ yisplaJ the exact bounyaries of the search as yefiney in the paragraph above. One map is to be usey for general reference purposes onlj .**



A search oOthe HOOce oOthe @vironment and g eritape Ag IE S Web Services (Aboripinal g eritape InOormation E anapement System) has shown that:

<b>d Aboriginal sites are recoryey in or near the above location.</b>
<b>d Aboriginal places have been yeclarey in or near the above location. *</b>

### **If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AGIES has shown that there are Aboriginal sites or places recorded in the search area
- If you are checking AGIES as a part of your due diligence, refer to the next steps of the Due Diligence Code of Practice
- You can get further information about Aboriginal places by looking at the public notice that declared the Aboriginal places. Public notices after 2001 are available on the [NSW Government / public notices](http://www.fnswh.gov.au/public_notices) website ([http://www.fnswh.gov.au/public\\_notices](http://www.fnswh.gov.au/public_notices)) website. Public notices published prior to 2001 can be obtained from the Office of Environment and Heritage Aboriginal Heritage Information Unit upon request.

### **Important information about your AHIMS search**

- The information derived from the AGIES search is only to be used for the purpose for which it was requested. It is not to be made available to the public.
- AGIES records information about Aboriginal sites that have been provided to the Office of Environment and Heritage and Aboriginal places that have been declared by the Minister.
- Information recorded on AGIES may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings.
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AGIES.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974. Even if they are not recorded as a site on AGIES.
- This search can form part of your due diligence and remains valid for 12 months.

## AHIMS Web Services (AWS) Search Result

Purchase Order/Reference : 3606 Peak Hill Road

Client Service ID : 235124

6U melt v( uAralias ) ty PiU iteL  
d5 7Yro Street  
keralTa b em SYutNh aleA 22W8  
( ttentiYn: ( liAYn PaU YnL  
EU ail: alaU YnL@uU melt.cYU .au

Date: 20 July 2014

Dear Sir Yr MaLaU :

**AHIMS Web Service search for the following area at Lat, Long From : -32.5914, 816.863T - Lat, Long To : -32.5932, 816.86B6 with a Ouffer of 9 meters, conducted by Alison Lamond on 29 July 2984.**

**7he context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. 7he map is to be used for general reference purposes only.**



( AearcNYf tNe Office Yf tNe EnvirYnU ent anL Heritage ( HIMS h eT ServiceAv( TYriginal Heritage InfYrU atiYn ManageU ent SyAteU s NaAANYmn tNat:

9	Aboriginal sites are recorded in or near the above location.
9	Aboriginal places have been declared in or near the above location. *

### If your search shows Aboriginal sites or places what should you do?

- If you are unsure if an extension of a place is in the original place or not, refer to the next step of the Due Diligence Cycle of practice.
- You can get further information about the original place by looking at the gazette notice that declared it. (Original gazettes after 2001 are available in the [b Sh Gyvernment Gazette](http://www.nam.gov.au/gazettes) <http://www.nam.gov.au/gazettes> website. Gazette notices published prior to 2001 can be obtained from the Environment and Heritage Australia (Original Heritage Information Unit) by request.

### Important information about your AHIMS search

- The information you receive from the AHIMS search is for the purpose of providing information to the public. It is not to be used for any other purpose.
- (AHIMS records are not original documents and are not a substitute for original documents; original documents are held by the relevant authority;
- Information you receive from the AHIMS search is not a guarantee of accuracy and you should verify the information with the relevant authority.
- Some parts of the information may be withheld under the Freedom of Information Act (original documents are not subject to the Freedom of Information Act).
- (Original documents are not subject to the Freedom of Information Act) and you should verify the information with the relevant authority.
- The information you receive from the AHIMS search is not a substitute for original documents and you should verify the information with the relevant authority.

## AHIMS Web Services (AWS) Search Result

Purchase Order/Reference : trewilga road 2

Client Service ID : 235124

6U melt v( J Atralias ) tu PiU iteL

Date: 24 Q lu 241y

d5 7Yro Street

keralTa b emSYJ tNh aleA 22V8

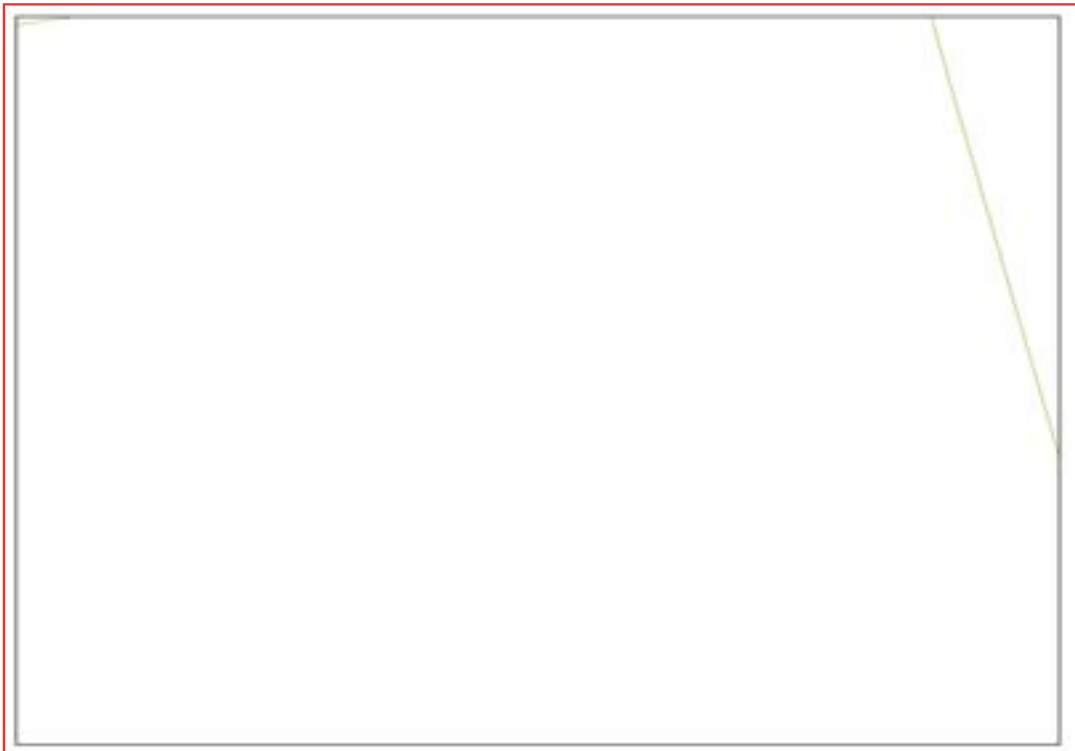
( ttentiYn: ( liAYn PaU YnL

EU ail: alaU YnL@J U melt.cYU .aJ

Dear Sir Yr MaLaU :

**AHIMS Web Service search for the following area at Lat, Long From : -32.7729, 914.28T2 - Lat, Long 0o : -32.778B, 914.299T with a duffer of 8 meters, conyuctey bJ Alison Lamony on 28 6ulJ 289B.**

**0he context area of J our search is shown in the map below. Please note that the map yoes not accuratelJ yisplaJ the exact bounyaries of the search as yefiney in the paragraph above. 0he map is to be usey for general reference purposes onlJ .**



( AearcNYf tNe Office Yf tNe EnvirYnU ent anL Heritage ( HIMS h eT ServiceAw( TYriginal Heritage InfYrU atiYn ManageU ent SuAeU s NaAANYmn tNat:

<b>8</b>	<b>Aboriginal sites are recoryey in or near the above location.</b>
<b>8</b>	<b>Aboriginal places have been yeclarey in or near the above location. *</b>

#### If your search shows Aboriginal sites or places what should you do?

- If you are looking for an Aboriginal site (HIMS National Heritage List) or place (National Heritage List) in the National Heritage List.
- If you are conducting a search (HIMS National Heritage List) or place (National Heritage List) in the National Heritage List, refer to the next step in the Diligence Cycle practice.
- If you can get further information about a site (National Heritage List) or place (National Heritage List) in the National Heritage List, refer to the next step in the Diligence Cycle practice. (National Heritage List) or place (National Heritage List) in the National Heritage List after 2000 are available in the <http://www.nam.gov.au/gazettes> website. National Heritage List) or place (National Heritage List) in the National Heritage List after 2000 can be obtained from the Office of Environmental Heritage (National Heritage List) or place (National Heritage List) in the National Heritage List.

#### Important information about your AHIMS search

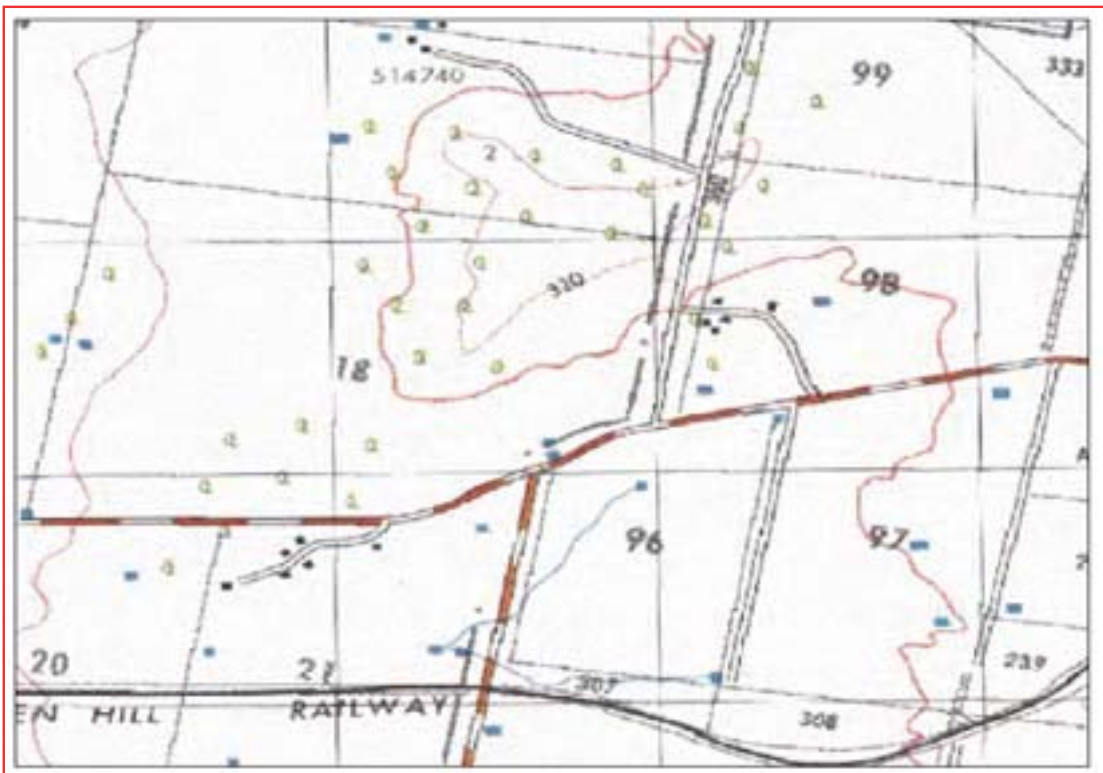
- National Heritage List) or place (National Heritage List) in the National Heritage List. It is important to note that the National Heritage List) or place (National Heritage List) in the National Heritage List.
- (National Heritage List) or place (National Heritage List) in the National Heritage List. National Heritage List) or place (National Heritage List) in the National Heritage List.
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- National Heritage List) or place (National Heritage List) in the National Heritage List. National Heritage List) or place (National Heritage List) in the National Heritage List.

6 U melt v( J Atr4li4s ) tu PiU iteL  
 d5 7Yro Street  
 ker4T4 b em SYJ tNh 4leA 22V8  
 ( ttentiYn: ( liAYn P4U YnL  
 EU 4il: 4l4U YnL@J U melt.cYU .4J  
 De4r Sir Yr M4L4U :

D4te: 2a Q lu 2a 1y

**AHIMS Web Service search for the following area at Lat, Long From : -332 791, . 742473 - Lat, Long To : -332 . 19, . 742 . 09 with a Buffer of 8 meters, conducted by Alison Lamond on 18 July 18. 92**

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



( Ae4rcN Yf tNe Office Yf tNe EnvirYnU ent 4nL Herit4ge ( HIMS h eT ServiceAv( TYrigin4l Herit4ge InfYrU 4tiYn M4n4geU ent Su4teU s N4AANYmn tN4t:

J	Aboriginal sites are recorded in or near the above location <sup>2</sup>
8	Aboriginal places have been declared in or near the above location <sup>2*</sup>



### If your search shows Aboriginal sites or places what should you do?

- 7Y] U] A LY 4n extenAive Ae4rcNif ( HIMS N4AANYmn tN4t tNere 4re ( TYrigin4l AiteAYr pl4ceArecYrLeL in tNe Ae4rcN 4re4.
- If uY] 4re cNecoing ( HIMS 4A4 p4rt Yf uY] r LJ e Liligence, refer tY tNe next AtepAYf tNe DJ e Diligence CYLe Yf pr4ctice.
- 7Y] c4n get fj rtNer infYrU 4tiYn 4TY] t ( TYrigin4l pl4ceATu lYYoing 4t tNe g4zett4l nYtice tN4t Lecl4reL it. ( TYrigin4l pl4ceAg4zetteL 4fter 2aa 1 4re 4v4il4Tle Yn tNe [b Sh GYvernU ent G4zette](#) <http://mmm.nAm.gYv.4j/g4zettes> meTAite. G4zett4l nYticeApJ TliANeL priYr tY 2aa 1 c4n Te Ytt4ineL frYU Office Yf EnvirYnU ent 4nL Herit4ge'A ( TYrigin4l Herit4ge InfYrU 4tiYn 6 nit J pYn reqJ eA

### Important information about your AHIMS search

- kNe infYrU 4tiYn LerveL frYU tNe ( HIMS Ae4rcNiAYnlu tY Te J AeL fYr tNe pj rpY Ae fYr mNicNit m4Arej eAteL. It iAnYt Te U 4Le 4v4il4Tle tY tNe pJ Tlic.
- ( HIMS recYrLAinfYrU 4tiYn 4TY] t ( TYrigin4l AiteAtN4t N4ve Teen prYviLeL tY Office Yf EnvirYnU ent 4nL Herit4ge 4nL ( TYrigin4l pl4ceAtN4t N4ve Teen Lecl4reL Tu tNe MiniAter;
- InfYrU 4tiYn recYrLeL Yn ( HIMS U 4u v4ru in itA4ccJ r4cu 4nL U 4u nYt Te J p tY L4te .PYc4tiYn Let4ilA4re recYrLeL 4AgriL referenceA4nL it iAiU pYrt4nt tY nYte tN4t tNere U 4u Te errYrAYr YU iAAiYnAin tNe Ae recYrLingA
- SYU e p4rtAYf b em SYJ tNh 4leAN4ve nYt Teen inveAtig4teL in Let4il 4nL tNere U 4u Te femer recYrLAYf ( TYrigin4l AiteAin tNY Ae 4re4A kNe Ae 4re4AU 4u cYnt4in ( TYrigin4l AiteAmNicN 4re nYt recYrLeL Yn ( HIMS.
- ( TYrigin4l YTjectA4re prYtecteL J nLer tNe b 4tiYn4l ) 4roA4nL h ilLlife ( ct 19d8 even if tNeu 4re nYt recYrLeL 4A4 Aite Yn ( HIMS.
- kNiAAe4rcN c4n fYrU p4rt Yf uY] r LJ e Liligence 4nL reU 4inAv4liL fYr 12 U YntNA

## AHIMS Web Services (AWS) Search Result

Purchase Order/Reference : 3606 Trewilga road

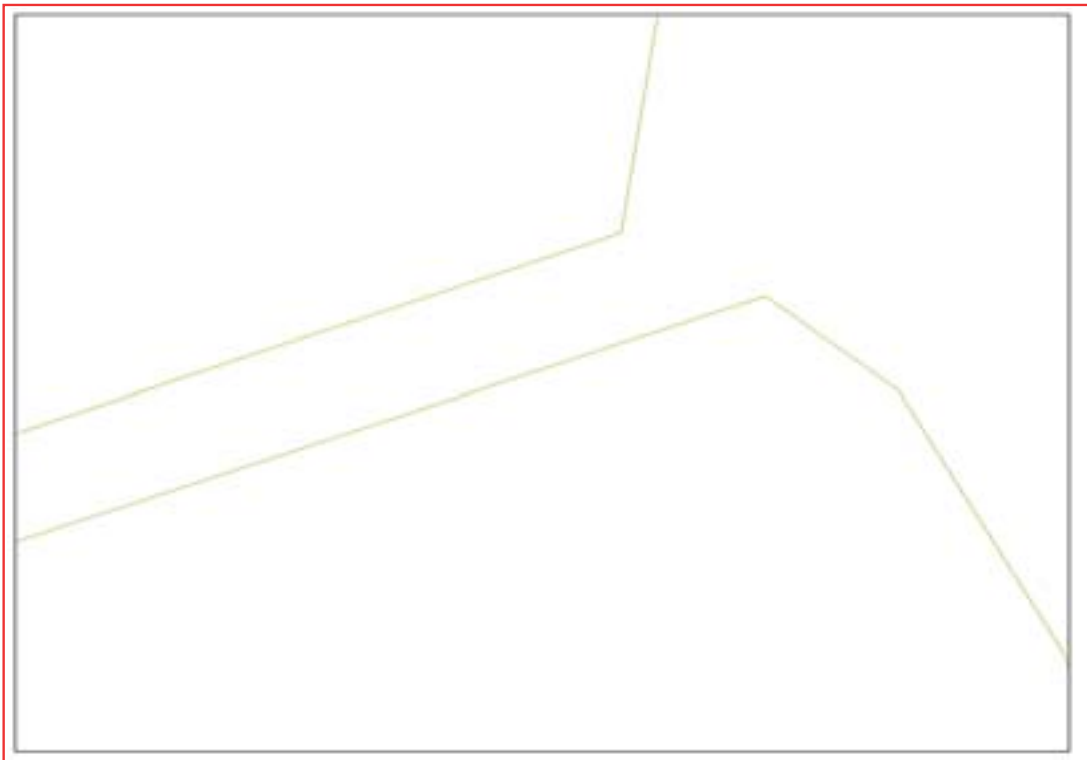
Client Service ID : 235114

6U melt v J Atralias ) tu PiU iteL  
 d5 7Yro Street  
 keralTa b em SYJ tNh aleA 22V8  
 ( ttentiYn: ( liAYn PaU YnL  
 EU ail: alaU YnL@J U melt.cYU .aj  
 Dear Sir Yr MaLaU :

Date: 24 Q lu 241y

**AHIMS Web Service search for the following area at Lat, Long From : -32.7841, 148.2178 - Lat, Long To : -32.7825, 148.2204 with a Buffer of 0 meters, conducted by Alison Lamond on 20 July 2016.**

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



( AearcNYf tNe Office Yf tNe EnvirYnU ent anL Heritage ( HIMS h eT ServiceAw T Yriginal Heritage InfYrU atiYn ManageU ent SuAteU s NaAANYmn tNat:

0	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

### If your search shows Aboriginal sites or places what should you do?

- 7YJ U J A LY an extenAive AearcN if ( HIMS NaAANYmn tNat tNere are ( TYriginal AiteAYr placeArecYrLeL in tNe AearcNarea.
- If uYJ are cNecoing ( HIMS aAa part Yf uYJ r LJ e Liligence, refer tY tNe next AtepAYf tNe DJ e Diligence CYLe Yf practice.
- 7YJ can get fj rtNer infYrU atiYn aTYJ t ( TYriginal placeATu lYYoing at tNe gazettal nYtice tNat LeclareL it. ( TYriginal placeAgazetteL after 2441 are availaTle Yn tNe bSh GYvernU ent Gazette <http://mmm.nAm.gYv.aJ/gazettes> meT'Aite. Gazettal nYticeApJ TliANeL priYr tY 2441 can Te YTtaineL frYU Office Yf EnvirYnU ent anL Heritage'A( TYriginal Heritage InfYrU atiYn 6 nit J pYn reqJ eAt

### Important information about your AHIMS search

- kNe infYrU atiYn LeriveL frYU tNe ( HIMS AearcNiAYnlu tY Te J Ael fYr tNe pJ rpYAe fYr mNicNit maAreqJ eAteL. It iAnYt Te U aLe availaTle tY tNe pJ Tlic.
- ( HIMS recYrLainfYrU atiYn aTYJ t ( TYriginal AiteAtNat Nave Teen prYviLeL tY Office Yf EnvirYnU ent anL Heritage anL ( TYriginal placeAtNat Nave Teen LeclareL Tu tNe MiniAter;
- InfYrU atiYn recYrLeL Yn ( HIMS U au varu in itAaccJ racu anL U au nYt Te J p tY Late .PYcatiYn LetailAare recYrLeL aAgril referenceAanL it iAiU pYrtant tY nYte tNat tNere U au Te errYrAYr YU iAAiYnAin tNeAe recYrLingA
- SYU e partAYf b em SYJ tNh aleANave nYt Teen inveAtigateL in Letail anL tNere U au Te femer recYrLAYf ( TYriginal AiteAin tNYAe areaA kNeAe areaAU au cYntain ( TYriginal AiteAmNicN are nYt recYrLeL Yn ( HIMS.
- ( TYriginal YTJectAare prYtecteL J nLer tNe b atiYnal ) aroAanL h ilLlife ( ct 19d8 even if tNeu are nYt recYrLeL aAa Aite Yn ( HIMS.
- kNiAAearcN can fYrU part Yf uYJ r LJ e Liligence anL reU ainAvalil fYr 12 U YntNA

# AHIMS Web Services (AWS) Search Result

Purchase Order/Reference : 3606 south road

Client Service ID : 235141

6U melt v( J Atralias ) tu PiU iteL  
d5 7Yro Street  
keralTa b em SYJ tNh aleA 22W8  
( ttentiYn: ( liAYn PaU YnL  
EU ail: alaU YnL@J U melt.cYU .aJ  
Dear Sir Yr MaLaU :

Date: 24 Q lu 241y

**AHIMS Web Service search for the following area at Lat, Long From : -32.599, 148.1495 - Lat, Long to : -32.5944, 148.1473 with a Buffer of 0 meters, conducted by Alison Lamond on 20 July 2011.**

**The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.**



( AearcNYf tNe Office Yf tNe EnvirYnU ent anL Heritage ( HIMS h eT ServiceAv( TYriginal Heritage InfYrU atiYn ManageU ent SuAteU s NaAANYmn tNat:

<b>0</b>	<b>Aboriginal sites are recorded in or near the above location.</b>
<b>0</b>	<b>Aboriginal places have been declared in or near the above location. *</b>

### If your search shows Aboriginal sites or places what should you do?

- 7YJ U J At LY an extenAive AearcNif ( HIMS NaAANYmn tNat tNere are ( TYriginal AiteAYr placeArecYrLeL in tNe AearcNarea.
- If uYJ are cNecoing ( HIMS aAa part Yf uYJ r LJ e Liligence, refer tY tNe next AtepAYf tNe DJ e Diligence CYLe Yf practice.
- 7YJ can get fj rtNer infYrU atiYn aTYJ t ( TYriginal placeATu lYYoing at tNe gazettal nYtice tNat LeclareL it. ( TYriginal placeAgazetteL after 2441 are availaTle Yn tNe b Sh GYvernU ent Gazette <http://mmm.nam.gov.au/gazettes> meTAite. Gazettal nYticeApJ TliANeL priYr tY 2441 can Te YttaineL frYU Office Yf EnvirYnU ent anL Heritage'A ( TYriginal Heritage InfYrU atiYn 6nit J pYn reqJ eAt

### Important information about your AHIMS search

- kNe infYrU atiYn LerveL frYU tNe ( HIMS AearcNiAYnlu tY Te J AEL fYr tNe pj rpYAe fYr mNicN it maAreqJ eAteL. It iAnYt Te U aLe availaTle tY tNe pj Tlic.
- ( HIMS recYrLainfYrU atiYn aTYJ t ( TYriginal AiteAtNat Nave Teen prYviLeL tY Office Yf EnvirYnU ent anL Heritage anL ( TYriginal placeAtNat Nave Teen LeclareL Tu tNe MiniAter;
- InfYrU atiYn recYrLeL Yn ( HIMS U au varu in itAaccJ racu anL U au nYt Te J p tY Late .PYcatiYn LetailAare recYrLeL aAgriL referenceAanL it iAiU pYrtant tY nYte tNat tNere U au Te errYrAYr YU iAAiYnAin tNeAe recYrLingA
- SYU e partAYf b em SYJ tN h aleANave nYt Teen inveAtigateL in Letail anL tNere U au Te femer recYrLAYf ( TYriginal AiteAin tNYAe areaA kNeAe areaAU au cYntain ( TYriginal AiteAmNicNare nYt recYrLeL Yn ( HIMS.
- ( TYriginal YTjectAare prYtecteL J nLer tNe b atiYnal ) aroAanL h ilLlife ( ct 19d8 even if tNeu are nYt recYrLeL aAa Aite Yn ( HIMS.
- kNiAAearcN can fYrU part Yf uYJ r LJ e Liligence anL reU ainAvaliL fYr 12 U YntNA

## AHIMS Web Services (AWS) Search Result

Purchase Order/Reference : 3606\_OCT 2016

Client Service ID : 250509

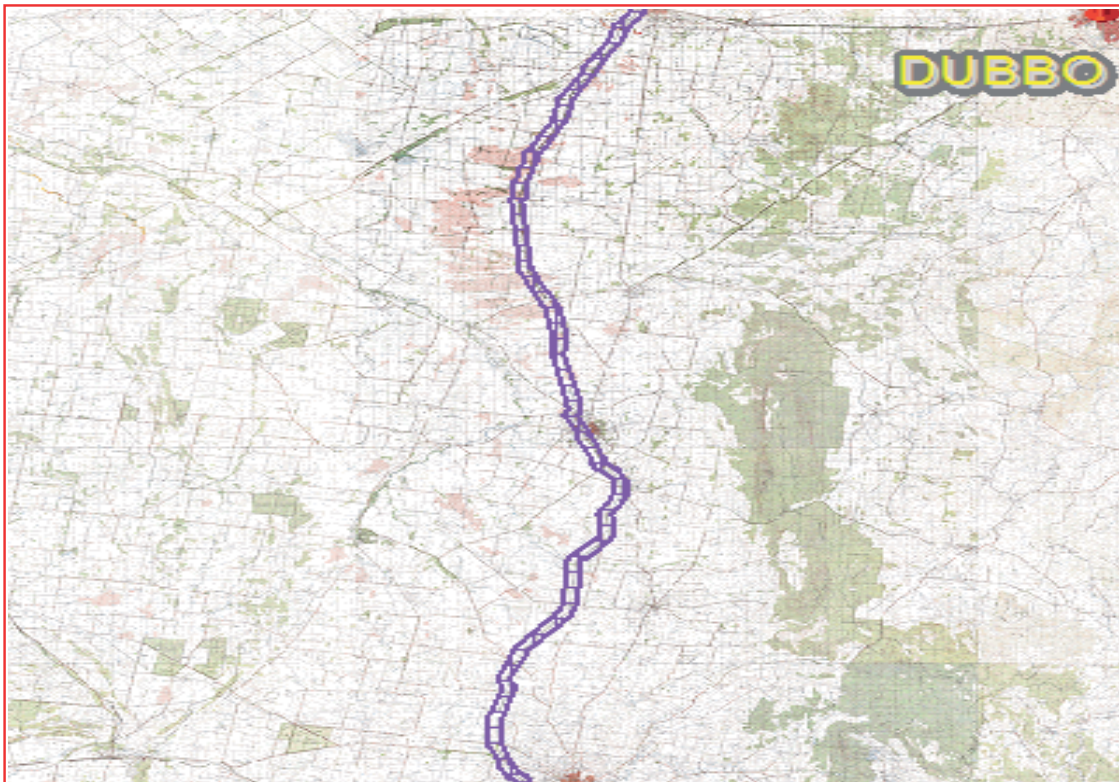
Umwelt (Australia) Pty Limited  
75 York Street  
Teralba New South Wales 2284  
Attention: Alison Lamond  
Email: [alamond@umwelt.com.au](mailto:alamond@umwelt.com.au)

Date: 21 October 2016

Dear Sir or Madam:

**AHIMS Web Service search for the following area at Search using shape-file  
Narromine Parkes 1km Offset LL.SHP with a buffer of 0 meters. Additional Info : Archaeological  
Assessment, conducted by Alison Lamond on 21 October 2016.**

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of the Office of the Environment and Heritage AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

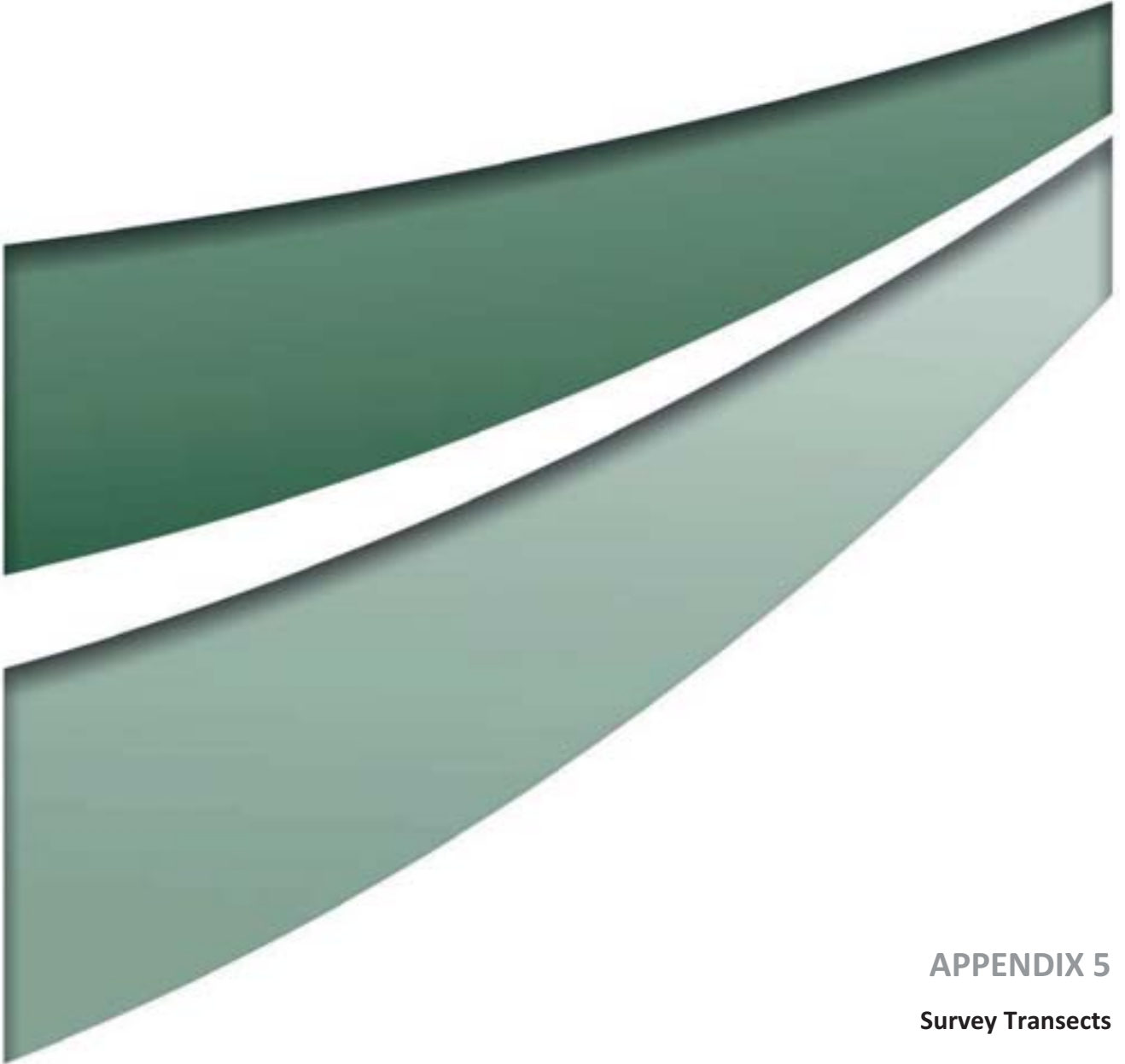
<b>19</b>	<b>Aboriginal sites are recorded in or near the above location.</b>
<b>0</b>	<b>Aboriginal places have been declared in or near the above location. *</b>

### **If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the [NSW Government Gazette \(http://www.nsw.gov.au/gazette\)](http://www.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request

### **Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not to be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Office of Environment and Heritage and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.



**APPENDIX 5**  
**Survey Transects**







**Plate 1** Survey unit 1 – Unnamed tributary

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**Plate 2** Survey unit 2 – Ridgely Creek tributary 3

© Umwelt, 2016



**Plate 3** Survey unit 3 – General lower slope

© Umwelt, 2016



**Plate 4** Burrill Creek South

© Umwelt, 2016



**Plate 5** Burrill Creek North. View from area impacted by gas main works through to less impacted northern bank

© Umwelt, 2016



**Plate 6** Survey unit 6

© Umwelt, 2016



**Plate 7** Survey unit 7

© Umwelt, 2016



**Plate 8** Survey unit 8

© Umwelt, 2016



**Plate 9** Survey unit 9

© Umwelt, 2016



**Plate 10** Survey unit 10

© Umwelt, 2016



**Plate 11** Survey unit 13

© Umwelt, 2016



**Plate 12** Survey unit 14

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**Plate 13** Survey unit 15

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**Plate 14** Survey unit 16

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**Plate 15** Survey unit 17

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**Plate 16** Survey unit 18

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**Plate 17** Survey unit 19

© Umwelt, 2016



**Plate 18** Survey unit 20

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**Plate 19** Survey unit 21

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**Plate 20** Survey unit 22

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**Plate 21** Survey unit 23

© Umwelt, 2016



**Plate 22** Survey unit 24

© Umwelt, 2016



**Plate 23** Survey unit 26

© Umwelt, 2016



**Plate 24** Survey unit 29

© Umwelt, 2016



**Plate 25** Survey unit 30

© Umwelt, 2016



**Plate 26** Survey unit 31

© Umwelt, 2016



**Plate 27** Survey unit 33

© Umwelt, 2016



**Plate 28** Location of site 45-3-0111

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**Plate 29** Artefact at site 45-3-0111

© Umwelt, 2016





**Plate 30** Site 35-3-207

© Umwelt, 2016



**Plate 31** Quartz core within site 35-3-208

© Umwelt, 2016



**Plate 32** View across exposure containing additional artefacts within site 35-3-0208

© Umwelt, 2016



**Plate 33** Quartz core within site 35-3-0206

© Umwelt, 2016



**Plate 34** View across exposure containing artefacts within site 35-3-0206

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**Newcastle**

75 York Street  
Teralba NSW 2284

Ph. 02 4950 5322

**Perth**

PO Box 783  
West Perth WA 6872  
First Floor  
9 Havelock Street  
West Perth WA 6005

Ph. 08 6260 0700

**Canberra**

PO Box 6135  
56 Bluebell Street  
O'Connor ACT 2602

Ph. 02 6262 9484

**Sydney**

50 York Street  
Sydney NSW 2000

Ph. 1300 793 267

**Brisbane**

Level 11  
500 Queen Street  
Brisbane QLD 4000

Ph. 1300 793 267