



View north of site location of Evans Plains Creek Tributary IF-01 (AHIMS 44-5-0175).

# ADDENDUM ABORIGINAL CULTURAL HERITAGE & HISTORIC HERITAGE ASSESSMENT REPORT

## **MCPHILLAMYS GOLD PROJECT**

MINE ACCESS ROAD AND PIPELINE OPTIONS

BLAYNEY AND BATHURST LGAS

DECEMBER 2020

Report prepared by OzArk Environment & Heritage for EMM Consulting on behalf of LFB Resources NL (Regis)

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Date of Report	December 2020
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Proponent	LFB Resources	Resources NL (Regis)		
Client	EMM Consulting			
Document Description	Addendum Aboriginal Cultural Heritage & Historic Heritage Assessment Report: McPhillamys Gold Project, Mine Access Road and Pipeline options.			
File Location	OzArk Job No.	OzArk Job No.		
	2612			
Document Status: V3.6 FINAL		Date: 7 December 2020		
Draft V1.1 Author to Editor OzArk 1 <sup>st</sup> V1 = OzArk internal edits)	Internal (Series	V1.0–1.2 AC author / BC edit 25/7/20–27/7/20		
Draft V2.0 Report Draft for release to	client	V2.0 AC to client 27/7/20		
(Series V2 = OzArk and Client edit	s)	V2.1 AC client edits 3/8/20		
FINAL V3once latest version of dra	aft approved by	V3.0 AC finalise 3/8/20		
client		V3.1 AC edit figures 4/8/20		
		V3.2 AC edit & finalise for Stage 4 25/8/20		
		V3.3 AC minor client edit 31/8/20		
		V3.4 AC incorporates Stage 4 comments 30/10/20		
		V3.5 BC edit 3/11/20		
		V3.6 AC edit and to client 3/11/20		
		V2.7 AC finalise 7/12/20		
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#### Acknowledgement

OzArk acknowledge Traditional Owners of the area on which this assessment took place and pay respect to their beliefs, cultural heritage and continuing connection with the land. We also acknowledge and pay respect to the post-contact experiences of Aboriginal people with attachment to the area and to the elders, past and present, as the next generation of role models and vessels for memories, traditions, culture and hopes of local Aboriginal people.

## **ABBREVIATIONS AND GLOSSARY**

ACHAR	Aboriginal Cultural Heritage Assessment Report. As set out in the <i>Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales</i> , all developments where harm to Aboriginal objects is likely must be assessed in an ACHAR.
ACHCRs	Aboriginal Cultural Heritage Consultation Requirements for Proponents. Guidelines for conducting Aboriginal community consultation for developments where harm to Aboriginal objects is likely.
AHIMS	Aboriginal Heritage Information Management System. Administered by Department of Premier and Cabinet, AHIMS is the central register of all Aboriginal sites within NSW.
Code of Practice	Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales under Part 6 NPW Act. Issued by DECCW in 2010, the Code of Practice is a set of guidelines that allows limited test excavation without the need to apply for an AHIP.
DPIE	NSW Department of Planning, Industry and Environment
EARs	Environmental Assessment Requirements issued by the NSW Department of Planning, Industry and Environment.
EIS	Environmental Impact Statement. A required document for major projects documenting all potential impacts to the environment, including heritage, that may arise due to the development.
Heritage Act	<i>Heritage Act 1977.</i> Provides for the protection and conservation of historical places and objects of cultural heritage significance and the registration of such places and objects.
Heritage Council	The Heritage Council makes decisions about the care and protection of heritage places and items that have been identified as being significant to the people of NSW.
Heritage NSW	Government department tasked with ensuring compliance with the NPW and Heritage Acts. Heritage NSW is advised by the Aboriginal Cultural Heritage Advisory Committee (ACHAC) and is part of the Department of Premier and Cabinet. Heritage NSW is preceded by the Biodiversity and Conservation Division (BCD) and the Office of Environment and Heritage (OEH).
NPW Act	<i>National Parks and Wildlife Act 1974</i> . Primary legislation governing Aboriginal cultural heritage within NSW.

- PAD Potential archaeological deposit. Indicates that a particular location has potential to contain subsurface archaeological deposits, although no Aboriginal objects are visible.
- RAP Registered Aboriginal Party. An individual or group who have indicated through the ACHCR process that they wish to be consulted regarding the project.
- SEARs Secretary's Environmental Assessment Requirements issued by the NSW Department of Planning and Environment.
- SHRState Heritage Register. A heritage list of places in NSW that are protected by<br/>NSW legislation, generally covered by the Heritage Act.

### **EXECUTIVE SUMMARY**

LFB Resources NL, a 100% owned subsidiary of Regis Resources Limited (Regis) is seeking state significant development (SSD) consent under Division 4.7 of Part 4 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) to develop and operate a greenfield open cut gold mine, associated mine infrastructure and a water supply pipeline in Central West NSW.

OzArk Environment and Heritage (OzArk) has been engaged by EMM Consultants (the client), on behalf of Regis (the proponent) to complete an *Aboriginal Cultural Heritage Assessment Report* (ACHAR) and *Historic Heritage Assessment* (HHA) for the McPhillamys Gold Project Amendment Report. The study areas for this addendum ACHAR which will form part of the Amendment Report include a mine access road within the mine development project area (outside of the area assessed in Appendix P of the EIS), and two revised pipeline route options to replace a section of the previous route between Bathurst and the mine development. This report serves as an addendum to the existing McPhillamys Gold Project heritage assessments (Landskape 2019 and OzArk 2019) (Appendix P and Appendix Z of the McPhillamys Gold Project EIS). A separate Addendum to the mine development heritage assessment (Appendix P of the EIS) is being prepared to assess changes to the disturbance footprint within the mining lease (ML application area).

The assessment of the addendum study areas was undertaken by OzArk archaeological Dr Alyce Cameron on Tuesday 23 June to Thursday 25 June 2020. A representative from a Registered Aboriginal Party (RAP) attended the survey of the mine access road on Tuesday 23 June 2020. No RAP representatives attended the pipeline options on Wednesday 24 June or Thursday 25 June 2020 due to difficulties in accessing the pipeline options and following social distancing restrictions associated with Covid-19.

During the pedestrian survey, one Aboriginal site (AHIMS #44-5-0175) and two historic sites (HS-01 and HS-02) were recorded. In addition, detailed cultural values associated with an ochre procurement site, the Belubula headwaters landscape, and the cultural landscape associated with the Bathurst Wars were provided by the Aboriginal community. As is set out in this document, none of these cultural values will be impacted by the proposal.

#### Aboriginal Cultural Heritage

Recommendations concerning Aboriginal cultural values within the study area are as follows:

 This report should be read in conjunction with Landskape 2019 and OzArk 2019 (Appendix P and Appendix Z of the McPhillamys Gold Project EIS and Appendix O of the Amendment Report (Addendum Aboriginal and Historic Heritage Assessment for the mine development (Landskape 2020)). Recommendations in these reports remain applicable.

- Should development consent for the project be granted, archaeological management strategies to manage and mitigate the impact of the proposed works are set out in Section 9.2. All sites within the impact footprint for the pipeline development should be salvaged by a surface collection of all visible artefacts (see OzArk 2019; Section 9.2.2.1).
- 3. The salvage works will include the mapping, analysis and collection of all surface artefacts at the affected sites. Results will be included in a report to preserve the data in a useable form and the relevant AHIMS site cards will be updated accordingly.
- 4. All land-disturbing activities must be confined to within the assessed study area. Should the parameters of the proposed work extend beyond this, then further archaeological assessment may be required.
- 5. Following development consent of the project, an Aboriginal Heritage Impact Permit (AHIP) will not be required for impacts to cultural heritage, so long as the impact accords with the terms and conditions of the consent. Instead, impacts on Aboriginal heritage would be managed through an *Aboriginal Cultural Heritage Management Plan* (ACHMP) which is to be agreed to by the proponent, RAPs and the Department of Planning, Industry and Environment (DPIE). The archaeological management recommendations within this report would normally be incorporated into the ACHMP that is usually formulated following development consent. The ACHMP will also include an unanticipated finds protocol, unanticipated skeletal remains protocol and long-term management of any artefacts. The ACHMP should also include a protocol should tangible evidence associated with the Bathurst Wars be noted during construction to ensure that any such evidence be appropriately managed.

#### Historic Heritage

Recommendations concerning the historic values within the addendum study area are as follows.

- This report should be read in conjunction with Landskape 2019 and OzArk 2019 (Appendix P and Appendix Z of the McPhillamys Gold Project EIS and Appendix O of the Amendment Report). Recommendations in these reports remain applicable.
- To avoid inadvertent impacts, the curtilages of Bathampton Homestead and Binalong should be marked as 'no-go zones' on the construction management plans and all contractors made aware of the two locations (see Figure 13-5).
- 8. Should development consent for the project be granted, archaeological management strategies to manage and mitigate the impact of the pipeline development component

the project and construction of the mine access road within the mine development project area are set out in **Section 13.2**.

- 9. To avoid the potential for harm to historic objects on unassessed adjacent landforms, all ground surface disturbing activities must be confined to the assessed study area.
- 10. Following development consent of the project, impacts on historical heritage would be managed through a *Historic Heritage Management Plan* (HHMP) which is to be agreed to by the proponent, local councils and DPIE. The archaeological management recommendations within this report would normally be incorporated into the HHMP that is usually formulated following development consent. The HHMP will also include an unanticipated finds protocol.

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### **1** INTRODUCTION

#### 1.1 BACKGROUND

LFB Resources NL is seeking state significant development (SSD) consent under Division 4.7 of Part 4 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) to develop and operate a greenfield open cut gold mine, associated mine infrastructure and a water supply pipeline in Central West NSW. The project application area is illustrated at a regional scale on **Figure 1-1**. LFB Resources NL is a 100% owned subsidiary of Regis Resources Limited (herein referred to as Regis).

As shown on **Figure 1-1**, the McPhillamys Gold Project (the project) is comprised of two key components; the mine site where the ore will be extracted and processed with the resultant gold produced for distribution to the market (the mine development), and an associated water pipeline which will enable the supply of water from approximately 90 kilometres (km) away near Lithgow to the mine site (the pipeline development). The mine development is around 8 km northeast of Blayney, within the Blayney and Cabonne Local Government Areas (LGAs), and the pipeline development is within the Blayney, Bathurst and Lithgow LGAs.

Up to 8.5 Million tonnes per annum (Mtpa) of ore will be extracted from the McPhillamys gold deposit over a total project life of 15 years. The mine development will include a conventional carbon-in-leach processing facility, waste rock emplacement, an engineered tailings storage facility (TSF) and associated mine infrastructure including workshops, administration buildings, roads, water management infrastructure, laydown and hardstand areas, and soil stockpiles.

In accordance with the requirements of the EP&A Act, the NSW *Environmental Planning & Assessment Regulation 2000* (EP&A Regulation) and the Secretary's *Environmental Assessment Requirements* (SEARs) for the project, an Environmental Impact Statement (EIS) was prepared to assess the potential environmental, economic and social impacts of the project. The development application and accompanying EIS was submitted to the NSW Department of Planning, Industry and Environment (DPIE) and subsequently publicly exhibited for six weeks, from 12 September 2019 to 24 October 2019. During this exhibition period Regis received submissions from government agencies, the community, businesses and other organisations regarding varying aspects of the project.

In response to issues raised in submissions received, as well as a result of further detailed mine planning and design, Regis has made a number of refinements to the project. Accordingly, an Amendment Report has been prepared by EMM Consulting Pty Ltd (EMM 2020a) to outline the changes to the project that have been made since the public exhibition of the EIS and to assess the potential impacts of the amended project, compared to those that were presented in the EIS. This report forms part of the Amendment Report and presents an assessment of the heritage

impacts of the amended project impacts relevant to the pipeline development and mine access road components of the project.

## **1.2 PROJECT AMENDMENT OVERVIEW**

A summary of the key amendments to the project since the exhibition of the EIS are summarised below and described in detail in Chapter 2 of the Amendment Report (EMM 2020a):

- **Site access** a new location for the site access intersection off the Mid Western Highway is proposed, approximately 1 km east of the original location assessed in the EIS, in response to feedback from Transport for NSW (TfNSW, former Roads and Maritime Services) and the community. A new alignment is subsequently proposed for the site access road to the mine administration and infrastructure area.
- Mine and waste rock emplacement schedule revision of the mine schedule and the subsequent construction sequence of the waste rock emplacement has been undertaken, in particular consideration of predicted noise levels in Kings Plains. This achieved a reduction in predicted noise levels at nearby residences while extending the construction timeframe for the southern amenity bund.
- **Pit amenity bund** the size of the pit amenity bund has been reduced as a result of optimisation of the open cut pit design and the improved location of exit ramps for haul trucks.
- **Tailings Storage Facility (TSF)** amendments to the design include changes to the embankment design and construction timing, the TSF footprint, and the TSF post closure landform.
- Water management system the secondary water management facility (WMF) has been removed from the water management system, resulting in an avoidance of impacts to a potential item of historic heritage significance (MGP 23 Hallwood Farm Complex (Hallwood)).
- **Mine administration and infrastructure area** the layout of this area has been revised and optimised.
- **Mine development project area** a very small change has been made to the mine development project area along the eastern boundary (an additional 1 ha, or 0.04% change), to accommodate the required clean water management system. The change takes the project area from 2,513 hectares (ha) to 2,514 ha.

Some amendments to the pipeline development have also been made, as follows:

- Pipeline route The pipeline route has been amended for a section of the corridor west of Bathurst, primarily in consideration of land access. Two options for the amended pipeline route have been included and assessed in the amended project; the northern option and the southern option. As shown in Figure 1.3, the pipeline alignment changes approximately 3 km west of pumping station facility No. 4. The new alignment continues for around 3 km, where it then splits into two options before re-joining the original route. The northern option is approximately 11 km long from where the two options split and the southern option is approximately 6 km long, before re-joining the original alignment. The amended section of the pipeline route is therefore around 14 km long if the northern option is adopted, and approximately 9 km if the southern option is constructed.
- **Pipeline corridor/disturbance footprint** the pipeline corridor has been differentiated from the pipeline disturbance footprint, with small changes made to both the pipeline

corridor and the disturbance footprint in consideration of biodiversity impacts. While the alignment of pipeline sections outside the realigned northern and southern options has not changed, there have been minor variations in the width of the corridor to provide flexibility in the detailed design and subsequent construction phases of the project. See also the definition of pipeline corridor in Section 1.5.

 Pumping station facilities – pumping station facility No.3 has been relocated from the vicinity of Energy Australia's Mount Piper Power Station (MPPS), to approximately 4.3 km to the west and adjacent to Pipers Flat Road.

No amendments have been made to other key aspects of the project as presented in the EIS for which approval is sought, such as the proposed mining method, operating hours, annual ore extraction of up to 8.5 Mtpa, annual ore processing rate up to 7 Mtpa, employee numbers, and rehabilitation methods and outcomes.

The amended mine development project layout, compared to that assessed in the EIS, is shown in **Figure 1-2**, while the revised section of the pipeline development route is shown in **Figure 1-3**.

## 1.3 PURPOSE OF THIS REPORT

This report has been prepared to assess the potential impacts of the amended project on Aboriginal cultural heritage and historic heritage, namely amendments to the pipeline development and the amended site access of the mine development. The assessment considers and outlines the differences in impacts compared to the original project as presented in the EIS. In this way, it serves as an update to the McPhillamys Gold Project Heritage Assessments (Landskape 2019 and OzArk 2019) (Appendix P and Appendix Z of the McPhillamys Gold Project EIS).

This report presents the findings of the additional archaeological investigations carried out for the revised mine access road and pipeline route options. It also considers:

- the change of the location of pumping station facility No.3 and,
- amendments to the pipeline disturbance footprint and,
- pipeline corridor which are defined separately in the amended project, are also considered.

However, as the new location of pumping station facility No.3 is within the original pipeline alignment, further assessment at this location was not undertaken as it is in a low potential location for Aboriginal or historical archaeological deposits as assessed in OzArk 2019. Similarly, minor changes to the pipeline corridor and disturbance footprint, while considered in this assessment were not surveyed further in the field as these changes are within the original study area assessed by OzArk 2019.

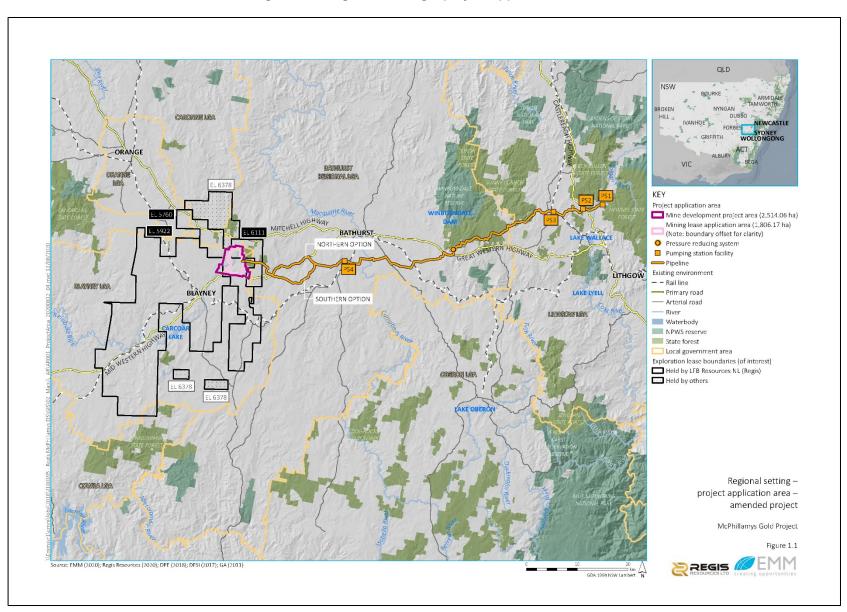
### 1.4 **TERMINOLOGY**

The following terms were used throughout the EIS to describe the McPhillamys Gold Project, and remain relevant for this assessment:

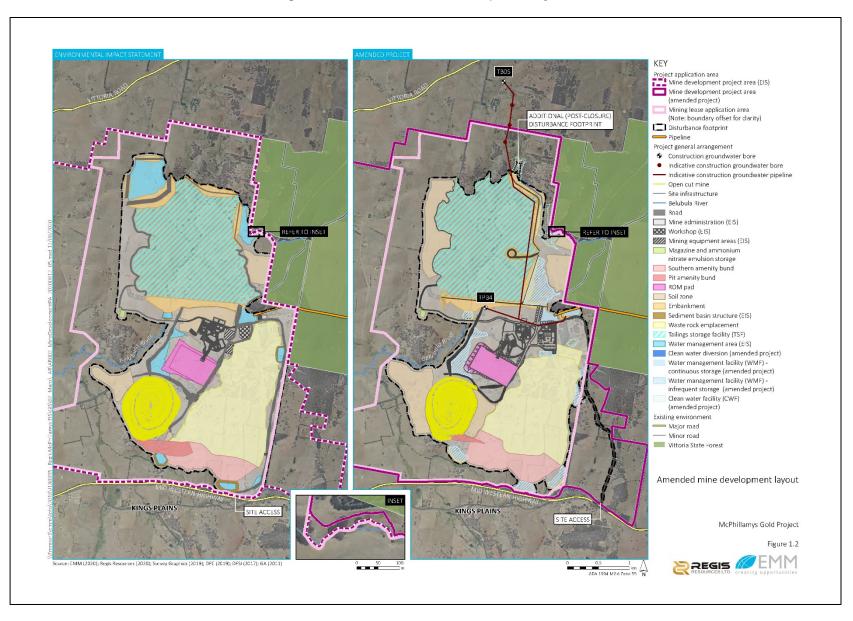
- **the project** the project in its entirety; encompassing the mine development and the pipeline development. In this report, the term 'the project' refers to the amended project for which approval is now sought. Where the original project design as presented in the EIS is being discussed, this will be clarified
- project application area the area in its entirety to which the development application (SSD 9505) relates; comprising the mine development project area and the pipeline corridor as illustrated in Figure 1-1. In this report, the term 'the project application area' refers to the amended area that relates to the development for which approval is now sought. Where the original project application area, as presented in the EIS, is being discussed, this will be clarified
- mine project area refers to the mine development project area as illustrated in Figure 1-1
- pipeline corridor an approximate 20 m wide, 90 km long pipeline alignment to which the development application (SSD 9505) relates; from Centennial's Angus Place Colliery (Angus Place) and Springvale Coal Services Operations (SCSO); and Energy Australia's MPPS near Lithgow to the mine development project area, as illustrated in Figure 1-1. Direct disturbance is not proposed across the entire 20 m corridor for construction of the pipeline; the anticipated disturbance footprint is generally 6 10 m wide and has been delineated based on the nature of the vegetation or existing disturbance the pipeline travels through.
- **mine development** construction and operation of the mine and associated mine infrastructure within the mine project area
- **pipeline development** construction and operation of the pipeline and associated infrastructure to transfer water to the mine development within the pipeline corridor.

### **1.5 REPORT FRAMEWORK**

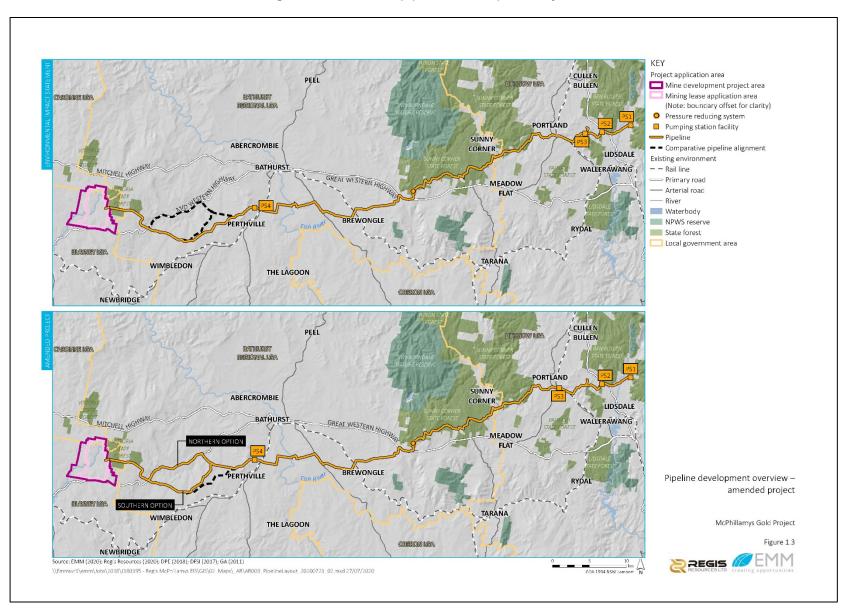
The ACHAR is presented in **Sections 3** to **10** of this report while the historic heritage assessment is presented in **Sections 11** to **14** of this report. The project background and environmental context of the study area presented in **Sections 1** and **2** are also applicable to both the Aboriginal and historic heritage assessments. Recommendations regarding Aboriginal cultural heritage and historic heritage are provided in **Section 15**.













## 2 LANDSCAPE CONTEXT

An understanding of the environmental contexts of a study area is requisite in any archaeological investigation (DECCW 2010). It is a particularly important consideration in the development and implementation of survey strategies for the detection of archaeological sites. In addition, natural geomorphic processes of erosion and/or deposition, as well as humanly activated landscape processes, influence the degree to which these material culture remains are retained in the landscape as archaeological sites; and the degree to which they are preserved, revealed and/or conserved in present environmental settings.

This section of the report only relates to the addendum study areas requiring additional heritage assessment: the mine access road and the two pipeline alignment options. The remainder of the pipeline alignment is covered in OzArk 2019 and mine development project area in Landskape 2019.

## 2.1 TOPOGRAPHY

The mine access road is situated within two different landscape units: the Mullion Slopes; and the Rockley Plains. The Mullion Slopes are characterised by steep hills and ridges with a general elevation of 500–830 metres (m). The Rockly Plains are characterised by low rolling hills (Mitchell 2002). The mine access road primarily consists of gently rolling hills with gentle to moderate slopes, though there is one elevated flat area near where existing stockyards are located. where proposed wash bays are currently proposed. **Figure 2-1** provides representative photographs of the predominate landforms of the mine access road.

The northern and southern pipeline options are both situated wholly within the Bathurst Granites landscape unit (Mitchell 2002). The Bathurst Granites are characterised by undulating to steep hills with rock outcrops being common. Both pipeline options consist mostly of moderate slopes, though there are several creek or drainage line crossings. **Figure 2-2** provides representative photographs of the predominate landforms across the northern and the southern pipeline option.

**Table 2-1** quantifies the extent of each landform within each of the study areas.



Figure 2-1: Topography of the mine access road.

Figure 2-2: Topography of the two pipeline options.



Location	Total study area	Gentle/moderate slope	Moderate/steep slope	Flat creek plains	Elevated flats
Mine access road	10 hectares (ha)	9 ha	Not applicable, none present.	Not applicable, none present.	1 ha
Alternative pipeline alignment	62 ha	21 ha	32 ha	7 ha	2 ha

Table 2-1: Summary of key terrain features within the addendum study areas.

## 2.2 GEOLOGY AND SOILS

The soil within the mine access road study area tended to be colluvial soil, with a brown silty topsoil present over a light to mid brown clay subsoil and ranges from being moderately to very highly erodible (SSM 2019).

There is a variety of soil types throughout the two pipeline options. On the rounded and steep hills with scarps the soils are hard neutral and acidic red soils with some hard neutral and acidic yellow mottled soils. Sometimes there are also siliceous sands and leached sands on or adjacent to the steeper portions of the areas. The rolling and hilly country have hard neutral red soils, sometimes in association with hard neutral yellow mottled soils. The river terraces and flood plains tend to be dark porous loamy soils with terrace remnants (ASRIS 2003).

## 2.3 HYDROLOGY

The closest named watercourse to the mine access road is McLeans Creek, located approximately 500 m east of Pounds Lane. There are several minor drainage lines surrounding the access road (**Figure 2-3**).

The two pipeline options cross several named watercourses. The northern option intersects with Evans Plains Creek, Dicks Creek and McLeans Creek. The southern option intersects with a tributary of Evans Plains Creek. The eastern half of the northern option intersects with Spring Creek and two of its tributaries. **Figure 2-4** shows the location of the watercourses in relation to the pipeline options.



Figure 2-3: Watercourses in relation to the mine access road.

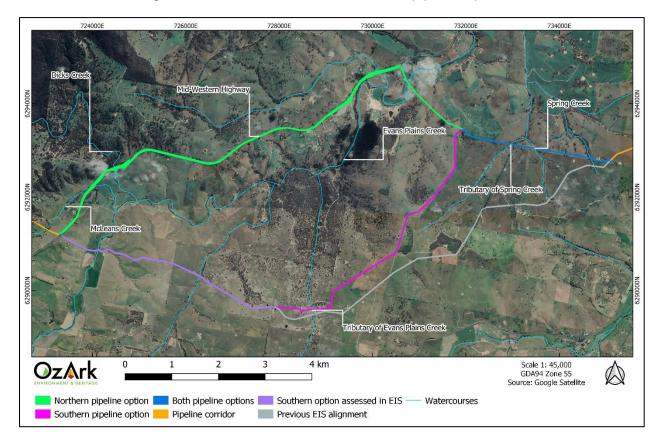


Figure 2-4: Watercourses in relation to the pipeline options.

## 2.4 VEGETATION

The study areas have a variety of vegetation types present. The mine access road is mostly cleared, with only scattered remnant trees or tree lines which have been deliberately planted to act as wind breaks. Of the vegetation along the two pipeline options, most is remnant stands of isolated trees as the majority of the two options have been previously cleared for agricultural cropping, as well as sheep and cattle grazing.

## 2.5 CLIMATE

The study areas are characterised by temperate summer months (mean maximum temperature in January for the area is around 28°C) and cool winter months (mean minimum temperature in July is around 0.4°C). Average monthly rainfall tends to be highest in December and January (average of around 79 millimetres [mm]) and lowest in April and May (average around 41 mm).

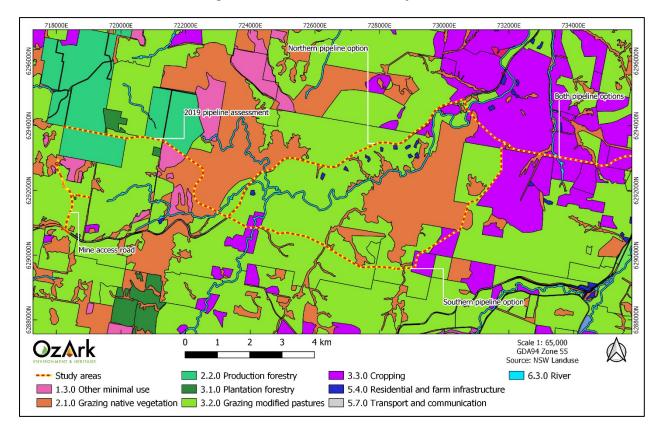
## 2.6 LAND-USE HISTORY AND EXISTING LEVELS OF DISTURBANCE

Disturbance, historical or natural, potentially alters the archaeological record. It can do this in a variety of ways, directly or indirectly. For example, land clearing directly moves a particular site type: usually scarred trees or stone arrangements. Indirectly, land clearing accelerates soil erosion, potentially resulting in previously buried occupation and activity sites being exposed and altered or damaged.

The study area has moderate to high levels of disturbance mostly consisting of impacts related to the various types of land use (**Figure 2-5**). Disturbances across the study area are summarised below:

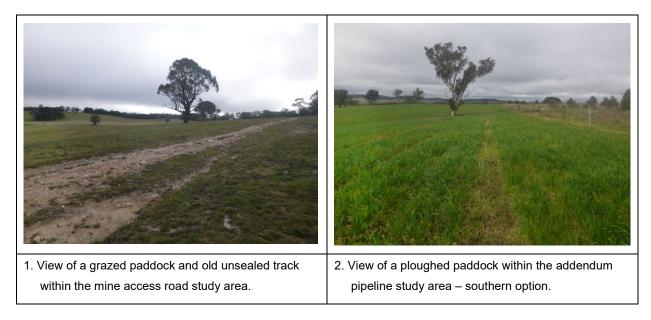
- Agriculture and pastoralism. Farming and grazing are fundamental to the local economy and dominate land-use throughout the area. The study area traverses through many paddocks which are or have been used for farming and grazing which has had the following impacts:
  - Vegetation removal. The study area has been subject to significant levels of vegetation removal. Culturally modified trees may have been removed during the land clearance phase across the area, thereby distorting the archaeological landscape by removing this site type
  - Cultivation. Sections of the study area has been subjected to cultivation. Repeated cultivation since the commencement of European settlement will have altered soil profiles and potentially disturbed subsurface archaeological deposits
  - Grazing. Large section of the study area has and is being used for low-intensity livestock grazing. The presence of hoofed livestock is likely to have resulted in trampling and compaction of the ground surface which accelerates soil loss
  - Farm infrastructure and remediation works. The study area has a moderate level of disturbance generated by the construction of dams, contour banks, agricultural buildings, and fencing. Earthworks associated with contour banking and dams can reveal lithic artefacts which may have been other concealed by low ground surface visibility (GSV).
- Transport. Several unsealed roads and tracks intersect the study area:
  - Unsealed tracks. This disturbance tends to provide exposures, thus enabling the identification of otherwise obscured artefacts
  - Sealed roads. The high disturbance to the ground surface within the road corridor due to earthworks during construction generally obscures and destroys any archaeological material which may have been present.
- Erosion. Erosion includes sometimes severe gully erosion and widespread sheet wash erosion, primarily adjacent to waterways. Varying scales of erosion on the archaeological landscape as the capacity to completely remove archaeological sites. However, in the process of erosion, many archaeological sites can become freshly exposed.

**Figure 2-6** shows examples of the varying types of land-use and levels of disturbance along the addendum pipeline corridor and the mine access road.



#### Figure 2-5: Land use of the study areas.

Figure 2-6: Land-use and levels of disturbance of the study area.



## 2.7 CONCLUSION

Across the addendum study area, the pipeline passes through a wide range of landforms which have undergone differing types of past and current land use applications and disturbances. It is likely these prior disturbances would have impacted any potential archaeological deposits (PADs). Erosion of the topsoil, partly due to vast land clearing, agricultural and gazing practices, especially around creek banks, suggests objects are likely to be revealed by erosional processes.

The mine access road has less variation of landforms present, consisting primarily of gentle to moderate gradient slopes with a small area of high elevated flats present.

The topographic features which would be conductive to retention of archaeological deposits within the study area are terraces overlooking sources of permanent or semi-permanent water, and to a lesser degree, the elevated flats.

# ABORIGINAL CULTURAL HERITAGE ASSESSMENT

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## **3** ASSESSMENT INTRODUCTION

## 3.1 DATE OF ARCHAEOLOGICAL ASSESSMENT

The fieldwork component of this assessment was undertaken by OzArk on Tuesday 23 June to Thursday 25 June 2020.

## 3.2 OZARK INVOLVEMENT

#### 3.2.1 Field assessment

The fieldwork component of the heritage assessment was undertaken by:

• Fieldwork Director: Dr Alyce Cameron (OzArk Senior Archaeologist, BA [Hons] and PhD [Archaeology & palaeoanthropology] Australian National University).

### 3.2.2 Reporting

The reporting component of the heritage assessment was undertaken by:

- Report Author: Dr Alyce Cameron
- Reviewer: Ben Churcher (OzArk Principal Archaeologist; BA [Hons], Dip Ed).

### 3.3 RELEVANT LEGISLATION

Cultural heritage is managed by several state and national Acts. Baseline principles for the conservation of heritage places and relics can be found in the *Burra Charter* (Burra Charter 2013). The *Burra Charter* has become the standard of best practice in the conservation of heritage places in Australia, and heritage organisations and local government authorities have incorporated the inherent principles and logic into guidelines and other conservation planning documents. The *Burra Charter* generally advocates a cautious approach to changing places of heritage significance. This conservative notion embodies the basic premise behind legislation designed to protect our heritage, which operates primarily at a state level.

Several Acts of parliament provide for the protection of heritage at various levels of government.

## 3.3.1 State legislation

### Environmental Planning and Assessment Act 1979 (EP&A Act)

This Act established requirements relating to land use and planning. The framework governing environmental and heritage assessment in NSW is contained within the following parts of the EP&A Act:

- Part 4: Local government development assessments, including heritage. May include schedules of heritage items
  - Division 4.7: Approvals process for SSD

- Part 5: Environmental impact assessment on any heritage items which may be impacted by activities undertaken by a state government authority or a local government acting as a self-determining authority
  - Division 5.2: Approvals process for state significant infrastructure.

In accordance with section 4.41 of the EP&A Act an Aboriginal heritage impact permit (under section 90 of the *National Parks and Wildlife Act 1974*) is not required for an SSD that has received development consent.

#### National Parks and Wildlife Act 1974 (NPW Act)

Amended during 2010, the NPW Act provides for the protection of Aboriginal objects (sites, objects, and cultural material) and Aboriginal places. Under the Act (Part 6), an Aboriginal object is defined as: any deposit, object or material evidence (not being a handicraft for sale) relating to indigenous and non-European habitation of the area that comprises NSW, being habitation both prior to and concurrent with the occupation of that area by persons of European extraction, and includes Aboriginal remains.

An Aboriginal place is defined under the NPW Act as an area which has been declared by the Minister administering the Act as a place of special significance for Aboriginal culture. It may or may not contain physical Aboriginal objects.

As of 1 October 2010, it is an offence under Section 86 of the NPW Act to 'harm or desecrate an object the person knows is an Aboriginal object'. It is also a strict liability offence to 'harm an Aboriginal object' or to 'harm or desecrate an Aboriginal place', whether knowingly or unknowingly. Section 87 of the Act provides a series of defences against the offences listed in Section 86, such as:

- The harm was authorised by and conducted in accordance with the requirements of an *Aboriginal Heritage Impact Permit* (AHIP) under Section 90 of the Act
- The defendant exercised 'due diligence' to determine whether the action would harm an Aboriginal object; or
- The harm to the Aboriginal object occurred during the undertaking of a 'low impact activity' (as defined in the regulations).

Under Section 89A of the Act, it is a requirement to notify the Secretary of the Department of Premier and Cabinet of the location of an Aboriginal object. Identified Aboriginal items and sites are registered on Aboriginal Heritage Information Management System (AHIMS) that is administered by Heritage NSW.

## 3.3.2 Commonwealth legislation

## Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)

The EPBC Act, administered by the Commonwealth Department of Agriculture, Water and the Environment, provides a framework to protect nationally significant flora, fauna, ecological communities, and heritage places. The EPBC Act establishes both a National Heritage List and Commonwealth Heritage List of protected places. These lists may include Aboriginal cultural sites or sites in which Aboriginal people have interests. The assessment and permitting processes of the EPBC Act are triggered when a proposed activity or development could potentially have an impact on one of the matters of national environment significance listed by the Act. Ministerial approval is required under the EPBC Act for proposals involving significant impacts to National/Commonwealth heritage places.

## Other

The *Aboriginal and Torres Strait Islander Heritage Protection Act 1984* is aimed at the protection from injury and desecration of areas and objects that are of significance to Aboriginal Australians. This legislation has usually been invoked in emergency and conflicted situations.

The *Protection of Movable Cultural Heritage Act 1986* includes legislation that prevents objects of cultural heritage significance, such as those that are sacred to Aboriginal peoples' heritage, from being exported out of Australia.

## 3.3.3 Applicability to the proposal

The current project will be assessed as an SSD under Division 4.7 of the EP&A Act.

In accordance with section 4.41 of the EP&A Act, an Aboriginal heritage impact permit (under section 90 of the NPW Act) is not required for an SSD that has received development consent.

It is noted there are no Commonwealth or National Aboriginal heritage listed places within the study area, and as such, the heritage provisions of the EPBC Act and other commonwealth Acts do not apply.

## 3.4 PURPOSE AND OBJECTIVES

The purpose of the current study is to identify and assess heritage constraints relevant to the proposed works.

## 3.4.1 Aboriginal archaeological assessment objectives

The current assessment will apply the Code of Practice in the completion of an Aboriginal archaeological assessment to meet the following objectives:

# <u>**Objective One</u>**: Undertake background research on the study area to formulate a predicative model for site location within the study area</u>

<u>Objective Two</u>: Identify and record objects or sites of Aboriginal heritage significance within the study area, as well as any landforms likely to contain further archaeological deposits

<u>**Objective Three**</u>: Assess the likely impacts of the proposed work to Aboriginal cultural heritage and provide management recommendations.

## 3.5 **REPORT COMPLIANCE WITH THE CODE OF PRACTICE**

The Code of Practice establishes requirements that should be followed by all archaeological investigations where harm to Aboriginal objects may be possible. **Table 3-1** tabulates the compliance of this report with the requirements established by the Code of Practice.

Code of Practice Requirement	Context of the Requirement	Concordance in this report	
Requirement 1	Review previous archaeological work	See subheadings below	
Requirement 1a	Previous archaeological work	Section 5.3	
Requirement 1b	AHIMS searches	Section 5.3.1	
Requirement 2	Review the landscape context	Section 2	
Requirement 3	Summarise and discuss the local and regional character of Aboriginal land use and its material traces	Section 5.4	
Requirement 4	Predict the nature and distribution of evidence	See subheadings below	
Requirement 4a	Predictive model	Section 5.4	
Requirement 4b	Predictive model results	Section 5.4.6	
Requirement 5	Archaeological survey	See subheadings below	
Requirement 5a	Survey sampling strategy	Section 6.1	
Requirement 5b	Survey requirements	This Requirement was fulfilled during the undertaking of the survey	
Requirement 5c	Survey units	Section 6.1	
Requirement 6	Site definition	Section 5.4.6	
Requirement 7	Site recording	See subheadings below	
Requirement 7a	Information to be recorded	Not applicable to this report as no new sites were recorded.	
Requirement 7b	Scales for photography	All artefact photographs employed a centimetre scale bar.	
Requirement 8	Location information and geographic reporting	See subheadings below	
Requirement 8a	Geospatial information	All artefact locations were logged using a non-differential handheld GPS.	
Requirement 8b	Datum and grid coordinates	All coordinates are provided in GDA94 Zone 55.	
Requirement 9	Record survey coverage data	Section 6.3	
Requirement 10	Analyse survey coverage	Section 6.3	
Requirement 11	Archaeological Report content and format This report adheres to this Re		
Requirement 12	Records OzArk undertakes to maintain all records for at least five years.		
Requirement 13	Notifying OEH and reporting	See subheadings below	

#### Table 3-1: Report compliance with the Code of Practice.

Code of Practice Requirement	Context of the Requirement	Concordance in this report	
Requirement 13a	Notification of breaches	Not applicable	
Requirement 13b	Provision of information	Not applicable	
Requirement 14	Test excavation which is not excluded from the definition of harm	Not applicable	
Requirement 15	Pre-conditions to carrying out test excavation	See subheadings below	
Requirement 15a	Consultation	Consultation has included the ACHCRs, see <b>Section 4</b> .	
Requirement 15b	Test excavation sampling strategy	Not applicable	
Requirement 15c	Notification	Not applicable	
Requirement 16	Test excavation that can be carried out in accordance with this Code	See subheadings below	
Requirement 16a	Test excavations	Not applicable	
Requirement 16b	Objects recovered during test Not applicable excavations		
Requirement 17	When to stop test excavations	Not applicable	

## **3.6 ASSESSMENT APPROACH**

This Aboriginal cultural assessment has been prepared following the appropriate guidelines, policies, and industry requirements, and following consultation with stakeholders including community members and relevant government agencies.

Guidelines and policies referenced are as follows:

- Code of Practice for the Investigation of Aboriginal Objects in New South Wales (Code of Practice; DECCW 2010).
- Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (OEH 2011).
- Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW 2010b)

This assessment has been prepared in accordance with DPIE's (then the Department of Planning and Environment) Secretary's Environmental Assessment Requirements (SEARs) for the project, issued on 24 July 2018 and revised on 19 December 2018. The SEARs identify matters which must be addressed in the EIS and essentially form its terms of reference. **Table 3-2** lists individual requirements relevant to this Aboriginal cultural heritage and historic heritage assessment and where they are addressed in this report.

Requirement	Section addressed
Aboriginal cultural heritage and archaeological assessment	Section 2 to Section 9
Historical heritage and archaeological assessment	Section 10 to Section 13
Consultation with Aboriginal stakeholders having regard to the Aboriginal Cultural Heritage Consultation Requirements for Proponents	Section 4

#### Table 3-2: Technical assessment (heritage) related SEARs.

Requirement	Section addressed
Assessment of the impact on Environmental heritage in accordance with the <i>NSW</i> <i>Heritage Manual</i> , including heritage conservation areas and State and local heritage items within and near the site, and detailed mitigation measures to offset potential impacts on Heritage values.	Section 12 to 13

To inform the preparation of the SEARs, DPIE invited other government agencies to recommend matters to be address in the EIS. These matters were considered by the Secretary for DPIE when preparing the SEARs. Copies of the government agencies' advice to DPIE were attached to the SEARs.

Heritage Council of New South Wales and Heritage NSW (then the Office of Environment and Heritage) raised matters relevant to the Aboriginal cultural heritage and historical heritage assessment. The matters raised concerning Aboriginal cultural heritage are listed in **Table 3-3** and have been considered in preparing this assessment, as indicated in the table. Specific assessment recommendations for historic heritage are covered in **Section 9**.

#### Table 3-3: Agency project specific assessment recommendations.

Requirement	Section addressed
Aboriginal cultural heritage	
The EIS must identify and describe the Aboriginal cultural heritage values that exist across the whole area that will be affected by the McPhillamys Gold Project and document these in the EIS. The identification of cultural heritage values should be guided by the <i>Guide to investigation, assessing and reporting on Aboriginal Cultural Heritage in NSW</i> and consultation with OEH regional officers.	Section 2 to Section 9
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> The significance of cultural heritage values for Aboriginal people who have a cultural association with the land must be documented in the EIS.	Section 4
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.	Section 2 to Section 9

# 4 ABORIGINAL COMMUNITY CONSULTATION

## 4.1 ABORIGINAL COMMUNITY CONSULTATION

The Aboriginal cultural heritage assessment of the proposal has followed the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (ACHCRs) (DECCW 2010b). For the details regarding the ACHCRs for the overall project, please see OzArk (2019), Landskape (2019) and Landskape (2020). The details presented in this section only relate to the addendum study areas.

A log and copies of correspondence with Aboriginal community stakeholders is presented in **Appendix 1**.

## 4.1.1 ACHCRs Stages 2 & 3

The aim of Stages 2 and 3 is provide information about the proposal to the RAPs and to acquire information regarding Aboriginal cultural values associated with the proposal either through consultation and/or field work. Often these two stages are run together, and the detailed project information is provided in the assessment methodology that is issued to all RAPs for their consideration.

An addendum survey methodology was sent on 29 April 2020 to all RAPs who had registered for either the mine heritage assessment or the pipeline heritage assessment. Feedback for the addendum survey methodology closed on 13 May 2020.

Feedback was received by Wellington Valley Wiradjuri Aboriginal Corporation (WVWAC) on 8 May 2020 stating:

WVWAC do not have any concerns regards to the proposed survey areas, as long as all surface pedestrian surveys are conducted preferably with RAP's (Registered Aboriginal Party) present especially within 200m of creeks and natural drainage.

## 4.1.2 Aboriginal community involvement in the assessment

Due to social distancing restrictions for Covid-19, including a maximum of two individuals per vehicle, a representative of a RAP was only able to attend the field survey for the mine access road. The social distancing restrictions for Covid-19 in conjunction with land holders' requests regarding vehicle numbers and movements along the two pipeline options resulted in no RAPs being present during the survey of the pipeline options.

Ian Sutherland from Orange Local Aboriginal Land Council (LALC) participated in the survey of the mine access road on Tuesday 23 June 2020.

#### 4.1.2.1 Comments arising from the assessment

During the pedestrian survey of the mine access road, the RAP site officer identified two pieces of raw ochre. The details of these pieces of raw ochre are detailed in **Section 7.5**. The RAP site officer also brought to the attention of the archaeologist a possible culturally modified tree. The features of the scarring on the tree were assessed against the criteria set out by the NPWS as outlined in *Aboriginal Scarred Trees in NSW: Field Manual* (Long 2005). Following assessment of the scar, it was determined to not have any attributes of being culturally scarred which would qualify it for registration on AHIMS.

#### 4.1.3 ACHCRs Stage 4

Stage 4 involves the production of a draft addendum ACHAR that is issued to all RAPs for their consideration. The addendum ACHAR will document the results of the addendum assessment, outline opportunities for the conservation of Aboriginal cultural values, and suggest recommendations for the management of Aboriginal objects should impacts to these objects be unavoidable.

Copies of the ACHAR were distributed to RAPs on 26 August 2020 for Stage 4 review. Feedback for the ACHAR closed on 23 September 2020.

Feedback was received from Murra Bidgee Mullangari Aboriginal Corporation in the form of an email endorsing the recommendations made in the report (see **Appendix 1**). WVWAC also provided feedback (see **Appendix 1**) stating:

WVWAC are supportive of any modification and minor adjustments to follow a greater amount of existing roadway and tracks within the project corridor.

All artefacts that will be impacted must be collected, properly recorded and photographed by archaeologists prior to the construction phase and replaced back onsite post construction in an area not to be disturbed. The reason for returning artefacts to site post construction to mitigate any accidental damage to the artefacts during the construction phase.

All artefacts that are close to the construction but not impacted are to have visible barriers minimum 5 m around them to mitigate any accidental damage to the artefacts during the construction phase.

Sunny Corner IF-3 (#44-3-0224) The crystal quartz core culturally is linked to specific tools made for a Male Initiation Ceremony and Cultural Values for the site and surrounding area are High.

The above recommendations have been previously noted and taken into account for this addendum ACHAR as well as the Pipeline Development ACHAR (OzArk 2019).

Feedback and information regarding cultural values was received from Orange Local Aboriginal Land Council (OLALC) and is provided in full in **Appendix 1**. **Table 4-1** summarises the submission provided by OLALC and where comments and information received have been included in this ACHAR.

OLALC concerns	OzArk Response	Section of ACHAR
Document: Proposed McPhillamys Mine. Received from OLALC via email Tuesday 22 September 2020		
Pg. 1 Dot Point 1 31 out of 39 Aboriginal sites documented on the surface within the proposed project footprint.	This in reference to the mine project area. Please see Landskape 2020.	
Pg. 1 Dot Point 2 1 Aboriginal Ancestral Remains burial site, thought to be located within the mine footprint.	The closest burial to the addendum pipeline and access road recorded on AHIMS is #44-5-0003 located 1.3 km southwest of the pipeline.	Section 6.3.1
Pg. 1 Dot Point 3 1 Ochre quarry site at the edge mine footprint, which Orange Aboriginal Elders continue to use today.	This is outside the addendum study area. Information concerning this site has been included into the background and archaeological context, as well as the discussion of results.	Section 5.2 and Section 8.1
Pg. 1 Dot Point 4 A substantial part of Kings Plains, the general location of significant Frontier War events relating to the Bathurst Wars between 1822-1824.	The Bathurst Wars have been expanded on using historical resources.	Section 6.1
Pg. 1. Inappropriate placement of Mine and tailings dam on the headwaters of the Belubula River	Not applicable to the addendum pipeline and mine access road.	
Pg. 1. Dot point 5 Currently drilling is occurring without any Cultural surveys being conducted in those areas	Not applicable to the addendum pipeline and mine access road.	
Pg. 2 Dot point 6 The Belubula River is one of the major waterways on Orange Country, with important tangible and intangible associations for the Orange Aboriginal community. The Belubula headwaters are located within the proposed mine footprint.	OzArk have included the information provided by OLALC regarding these cultural values.	Section 5.2 and Section 9
Pg. 2 Dot point 7 39 Aboriginal sites were documented on the surface within the proposed project footprint, mostly around the stream bank/channel and drainage lines associated with the Belubula River headwaters. However, the survey coverage was poor, and no excavations have been undertaken to properly establish the nature, extent and significance of these sites.	This in reference to the mine project area. Please see Landskape 2020.	
Pg. 2 Dot Point 8 A Tailings dam is proposed to be constructed on top of the Belubula headwaters, meaning destruction of 30 artefact sites and a landscape of significant Aboriginal cultural values.	Not applicable to the addendum pipeline and mine access road.	

#### Table 4-1: OLALC's Stage 4 submission in relation to addendum study area.

OLALC concerns	OzArk Response	Section of ACHAR
Pg. 2 Dot Point 9 The Belubula River flows into the Lachlan River and onto the Murray Darling Basin. Therefore, there is a major risk of contamination from the proposed tailings dam.	Not applicable to the addendum pipeline and mine access road heritage assessment.	
Pg. 2 Dot Point 10 The Cultural Heritage Assessments have failed to properly investigate and establish the Aboriginal cultural values of the study area. They have repeatedly ignored the concerns of the OLALC.	The concerns raised by OLALC in relation to the 2019 pipeline ACHAR have been addressed previously. OzArk have expanded on the cultural values provided by OLALC as a result of their review of the draft of this document. Many of these values have only become known to OzArk following the OLALC review and have subsequently been included in this document.	Section 5.2, Section 8.1 and Section 9
Pg. 3 Dot Point 11 Archaeologists have been dismissive to the opinion of OLALC site officer Ian Sutherland in relation to artefact identified during surveys for this proposed project, resulting in fewer sites being registered on AHIMS.	OzArk discussed with Ian during fieldwork why certain things would not be recorded as archaeological sites (as the stones were either non-artefactual, or scars on trees did not meet NPWS criteria for scarred trees [Long 2005]). It was OzArk's opinion that these items were discussed and concluded during the fieldwork. At all times OzArk valued Ian's contributions and discussed with him the reasons for the OzArk scientific determination of certain items.	
Pg. 3 Dot Point 12 Archaeologists have misrepresented conversations with OLALC site officer Ian Sutherland, and previous site officers, in relation to this landscape's Aboriginal Cultural significance and the spiritual connection to the landscape felt by Aboriginal people.	OzArk does not believe that conversations with Mr Ian Sutherland held during fieldwork have been misrepresented. The opinions of Ian are included in the ACHAR; along with OzArk's reasons for why certain items would not be registered by OzArk on the AHIMS register. OzArk is not aware of any specific cultural significance or spiritual values that were shared with OzArk during the fieldwork.	Section 4.2.1
Pg. 3 Dot Point 13 Bathurst Local Aboriginal Land Council were incorrectly engaged to survey the pipeline site east of the McLean Creek area within the proposed mine site. This location is within the Orange Local Aboriginal Land Council's footprint, yet the OLALC did not have the opportunity to partake in survey work for this area.	This issue was not raised in the original OLALC submission to the ACHAR (OzArk 2019). The field survey on 29 August 2018 ended at the west bank of Evans Plains Creek, not McLean Creek. The section of the pipeline alignment still in OLALC boundary and west of Evans Plains Creek was not surveyed by Bathurst LALC, but non-LALC RAP site officers. There is no legislative requirement for the proponent to elect to engage representatives from RAPs to assist with fieldwork and there is no reference in the Code of Practice (DECCW 2010) which outlines which RAP site officers can survey where.	
Document: 1. Response to McPhillamy Response_16092020. Rec	eived from OLALC via email Tuesday 22 September 2020	
Pg. 1. Introduction Overall, it is the view of the OLALC that consultation for this proposed project has failed to adhere to the Aboriginal Cultural Heritage Consultation Requirements for Proponents (2010) – in particular 'Stage 3: Gathering information about cultural	OzArk has included further information and the cultural values provided by OLALC into the ACHAR. It is noted that the project discussed in this addendum will not impact the Belubula River headwaters, nor will it impact the Bathurst Wars cultural landscape as the project components are unobtrusive and will not impact the visual or aesthetic	Section 5.2, Section 6.1, Section 8.1 and Section 9

OLALC concerns	OzArk Response	Section of ACHAR
significance'. The proposed project, as it currently stands, will irretrievably destroy a significant Aboriginal cultural landscape with important and rare Aboriginal cultural values. These values relate to the Belubula River headwaters, Bathurst Wars cultural landscape, and tangible activity traces of Wiradjuri people within the study area.	nature of the landscape. The ACHAR notes that tangible activity traces of Wiradjuri people within the study area will be impacted but provides appropriate management mechanisms to mitigate these impacts.	
Pg.1. The CHAs and addendums prepared by Cupper (2019, 2020) and OzArk (2019, 2020) have failed to investigate and establish the Aboriginal cultural values of the study area. They paint an inaccurate and incomplete picture of the study area as a location in the landscape with low scientific/archaeological significance.	The specific sites recorded inside the pipeline alignment are assessed as having low scientific/archaeological due to a variety of factors which are outlined in OzArk 2019: 78 & OzArk 2020 <b>Section 9</b> . As stated in the ACHARs, scientific/archaeological significance is separate to cultural significance, and OzArk has incorporated the additional cultural values shared by OLALC into the ACHAR, including the assessment of significance and impacts.	Section 5.2, Section 6.1, Section 8.1 and Section 9
Pg. 4. Similarly, the same submission by the OLALC also noted the presence of an ochre source used as a source of pigment rock within the study area – an extremely rare and significant site with a deep history of continued use by Elders today (Appendix 1). However, again, these concerns remain unaddressed in the CHA addendums – there has been no investigation or mention of this site in Cupper (2019, 2020) or OzArk (2019, 2020), and no attempt to avoid harm to this site.	There was no ochre procurement location registered on AHIMS inside or adjacent to the study areas covered in the OzArk 2019 or 2020 ACHARs. The information provided by OLALC relating to the ochre quarry has been included in the ACHAR.	Section 6.3
Pg. 4. The study area holds significant intangible Aboriginal cultural values for the Aboriginal community, as the location of the Belubula headwaters, and part of the broader Bathurst Wars cultural landscape. However, these are not investigated adequately in the CHAs and addendums	Further historical information has been included regarding the Bathurst Wars. The cultural values provided by OLALC in response to Stage 4 review have also been incorporated into the ACHAR. This includes in relation to discussion of the survey results and the impact assessment.	Section 5.2, Section 6.1, Section 8.1 and Section 9
Pg. 7. The CHAs and addendums have failed to meet the consultation requirements as per the 'Aboriginal cultural heritage	Any cultural values shared by RAPs prior to Stage 4 review had been incorporated into the ACHAR. This ACHAR has been revised with further cultural values and information provided following Stage 4 review.	
consultation requirements for proponents 2010', particularly 'Stage 3 – Gathering information about cultural significance'. This is reflected through the failure to invite RAP representatives to participate in all stages of fieldwork, failure to incorporate cultural advice provided by RAP representatives during fieldwork, and failure to address concerns about Aboriginal cultural values (raised during face-to-face meetings with the OLALC, and in written submissions by the OLALC in response to different versions of the CHAs).	Requests for cultural values were included in assessment methodologies (sent to RAPs on 4 June 2018 and 29 April 2020). This ACHAR has been revised following feedback provided following the Stage 4 ACHCR consultation on the addendum ACHAR. There is no legislative requirement for the proponent to elect to engage representatives from RAPs to assist with fieldwork and there is no reference in the Code of Practice (DECCW 2010) which outlines which RAP site officers can survey where.	

OzArk Response	Section of ACHAR
The fieldwork was undertaken in June 2020, not August 2020.	
This was also a decision by the proponent and landowners in relation to following COVID-19 restrictions and procedures along the pipeline route.	
There is no legislative requirement for the proponent to elect to engage representatives from RAPs to assist with fieldwork or which outlines which RAP site officers can survey where.	
The risk from the storm was greater than the COVID-19 risk at the time three individuals were in the same vehicle. The length of time the individuals were in the vehicle was also minimal.	
This was not raised in the original OLALC submission to OzArk 2019.	
The field survey on 29 August 2018 ended at the west bank of Evans Plains Creek, not McLean Creek.	
The section of the pipeline alignment still in OLALC boundary and west of Evans Plains Creek was not surveyed by Bathurst LALC, but non-LALC RAP site officers.	
There is no legislative requirement for the proponent to elect to engage representatives from RAPs to assist with fieldwork and there is no reference in the Code of Practice (DECCW 2010) which outlines which RAP site officers can survey where.	
OzArk is unaware of any cultural advice provided during the fieldwork by RAPs which has not been included.	
The first two dot points were not raised in the OLALC submission to OzArk 2019.	Section 4.1.2.1
In relation to the isolated find, this was a piece of volcanic rock with no artefactual features present. It was recorded as a possible artefact while in the field, and during that recording the archaeologist explained that they did not think it was an artefact but would seek the opinion of their colleagues. Upon discussion with colleagues	
piece of quartz was also not clear quartz, but milky quartz.	
The scarred tree referred to during the Mine Access road survey did not meet any of	
,	
the reasoning while in the field and thought that it had been concluded at this time.	
In relation to the pieces of ochre – both were in disturbed contexts and showed no signs of having been utilised. The scope of the mine site access road did not allow for field investigations outside the specific study area of the mine access road. OzArk only reported how they thought the discussion had concluded. This has been	
	<ul> <li>The fieldwork was undertaken in June 2020, not August 2020.</li> <li>This was also a decision by the proponent and landowners in relation to following COVID-19 restrictions and procedures along the pipeline route.</li> <li>There is no legislative requirement for the proponent to elect to engage representatives from RAPs to assist with fieldwork or which outlines which RAP site officers can survey where.</li> <li>The risk from the storm was greater than the COVID-19 risk at the time three individuals were in the same vehicle. The length of time the individuals were in the vehicle was also minimal.</li> <li>This was not raised in the original OLALC submission to OZArk 2019.</li> <li>The field survey on 29 August 2018 ended at the west bank of Evans Plains Creek, not McLean Creek.</li> <li>The section of the pipeline alignment still in OLALC boundary and west of Evans Plains Creek was not surveyed by Bathurst LALC, but non-LALC RAP site officers.</li> <li>There is no legislative requirement for the proponent to elect to engage representatives from RAPs to assist with fieldwork and there is no reference in the Code of Practice (DECCW 2010) which outlines which RAP site officers can survey where.</li> <li>OZArk is unaware of any cultural advice provided during the fieldwork by RAPs which has not been included.</li> <li>The first two dot points were not raised in the OLALC submission to OZArk 2019. In relation to the isolated find, this was a piece of volcanic rock with no artefactual features present. It was recorded as a possible artefact while in the field, and during that recording the archaeologist explained that they did not think it was an artefact but would seek the opinion of their colleagues. Upon discussion with colleagues following the fieldwork, it was determined to not be an artefact.</li> <li>The piece of quartz referred to during the Mine Access road survey did not meet any of the NPWS scarred tree criteria for culturally scarred trees (as defined in The Code of Practice and Long 2005). As su</li></ul>

OLALC concerns	OLALC concerns OzArk Response	
were clearly manuports (i.e. Wiradjuri people deliberately transported them to that location). Ian states that he dug out one of the pieces from the side of the bank. Ian also pointed out the location of the ochre quarry nearby, but OzArk made no attempt to investigate it.		
Ian Sutherland says that the following is a misrepresentation of his conversation with OzArk representative Alice Cameron, and that he did not agree to these finds not being registered as sites on AHIMS (OzArk 2020:page 25)		
Pg. 9 dot point 1 Do not made any serious attempts to acknowledge or address the serious shortcomings in the investigations of the Aboriginal cultural values, and the assessment of archaeological/scientific values, for the study area;	This ACHAR has been revised following feedback received in relation to Stage 4 consultation. A section regarding cultural values which have been provided has been included in the ACHAR. OzArk believes it has sufficiently assessed the archaeological/scientific values of the Aboriginal sites inside the OzArk 2019 and 2020 study areas.	Section 5 and Section 9
Pg. 9 dot point 2 Do not even mention the tangible and intangible values associated with the Belubula headwaters and ochre source;	The cultural values provided by OLALC, including tangible and intangible values associated with the Belubula headwaters and an ochre source have been included in this revised ACHAR.	Section 5 and Section 9
Pg. 9 dot point 3 Do not adequately address the intangible values associated with the Bathurst Wars cultural landscape;	Further information regarding the Bathurst Wars has been included. Information provided by OLALC regarding the intangible values associated with the Bathurst Wars cultural landscape have been included in this revised ACHAR, as well as considering the potential impacts to the overall cultural landscape.	Section 5 and Section 9
Pg. 9 dot point 4 Contain proposed mitigation and management strategies that are based on an inaccurate characterisation of significance, and are therefore entirely inadequate for avoiding harm to Aboriginal objects and places;	OzArk believes that it has adequately assessed the significance of sites recorded during the 2019 and 2020 ACHAR and that the proposed mitigation and management strategies are appropriate.	Section 9 and Section 10
Pg. 9 dot point 5 Contain proposed mitigation and management strategies that propose, in effect, the destruction ('salvage') of 30 out of the total 38 Aboriginal sites documented within the study area (with the remaining 8 Aboriginal sites only preserved inadvertently).	This dot point is in relation to the sites in Landskape (2019 & 2020) ACHARs. In relation to the addendum mine access road and the pipeline, the sites which are proposed to be salvaged following the preparation of an Aboriginal Cultural Heritage Management Plan (ACHMP; required for SSD projects) are all isolated finds or low density artefact scatters in secondary contexts. The recommendations in the ACHAR are for the artefacts to be salvaged and then placed back on site following construction.	Section 10

# 5 ABORIGINAL CULTURAL VALUES

## 5.1 INTRODUCTION TO CULTURAL VALUES

No matter who you are, we all have culture. Each person's culture is important; it's part of what makes us who we are.

Many Aboriginal people in Australia have a unique view of the world that's distinct from the mainstream. Land, family, law, ceremony and language are five key interconnected elements of Aboriginal culture. For example, families are connected to the land through the kinship system, and this connection to land comes with specific roles and responsibilities which are enshrined in the law and observed through ceremony. In this way, the five elements combine to create a way of seeing and being in the world that is distinctly Aboriginal.

Fundamentally, culture is living and is not static:

- Culture is acquired we learn about culture from others in our community, including our parents
- Culture is shared culture does not exist in a vacuum, it is shared amongst a group of people
- Culture defines core values because we have been taught our culture and share it with our cultural group, we tend to form the same core values
- Cultures resist change but are not static culture does and can change, but change is usually slow and gradual.

## 5.1.1 Connection to Country

Aboriginal and Torres Strait Islander peoples are connected to Country through lines of descent (paternal and maternal), as well as clan and language groups.

Although in the past (and sometimes into the present) there have been conflicts between different tribal groups, these were rarely over land. Aboriginal and Torres Strait Islander people have such a strong sense of belonging to country; they have no desire to own the land of others.

Territory is defined by spiritual as well as physical links. Landforms have deep meaning, recorded in art, stories, songs and dance. Songlines or Dreaming Tracks as well as kinship structures link Aboriginal peoples to the territories of other groups. In the past, these links were also used for trade.

"When we say Country we might mean homeland, or tribal or clan area and in saying so we may mean something more than just a place; somewhere on the map. We are not necessarily referring to place in a geographical sense. But we are talking about the whole of the landscape, not just the places on it."

Professor Mick Dodson AM, August 2007

#### 5.1.2 Managing Country

Surviving on this land for more than 60,000 years, Aboriginal and Torres Strait Islanders established effective ways to use and sustain resources. One important aspect is the right of certain people to control the use of resources in a particular area. Aboriginal and Torres Strait Islander people don't see themselves as 'owning' land, animals, plants or nature, but rather belonging with these things as equal parts of creation.

The rights of different groups to live in and manage certain areas of land are clear and recorded through art, stories, songs and dance.

Deep cultural and spiritual values like totemism have also played an important part in Aboriginal and Torres Strait Islander resource management. Totemism is a belief and value system that connects human beings to other animals, plants and aspects of nature. Groups and individuals are assigned a particular animal that they are related to and have to care for. This gives them a profound sense of connection to and responsibility for the natural world.

Aboriginal and Torres Strait Islanders people have a wide range of traditional methods for gathering food including fish traps, subsistence agriculture, hunting and harvesting a wide range of natural fruits and vegetables. Some groups of people would stay in one place, while others moved around the land according to the seasons, to ensure sustainable and rich food supplies, and to fulfil their spiritual and cultural obligations.

Even before 1788 there were complex relationships for long distance trade between Aboriginal and Torres Strait Islander communities especially for coastal shells and stone hatchets. When people from different groups met socially to share resources, for ceremonies or to settle disputes, they brought items to exchange. Items included stones for hatchets, kangaroo skins, timber for spears, ochre or clay for paint and marine shells for decoration.

The exchange of objects was not motivated by a desire for wealth accumulation but a social system to build connection between people and groups.

#### 5.1.3 Recognising lore

In Aboriginal and Torres Strait Islander communities, codes of conduct cover behaviour around:

- Leadership and etiquette
- Property
- Laws around special events like marriage, coming of age and death
- Sacred knowledge.

In much of eastern Australia, Aboriginal communities live their lives like most Australians without resorting to tribal lore. However, in certain crucial areas, particularly associated with family,

leadership roles and caring for Country, Aboriginal lore continues, even in the most urbanised communities.

## 5.2 IDENTIFIED CULTURAL VALUES

Several RAPs identified cultural values associated with the addendum study area and the broader cultural landscape during the ACHCR Stage 4 review of the ACHAR (see **Section 4.2.2** and **Appendix 1**).

Site #44-3-0224, a crystal quartz core, detailed in OzArk 2019, is linked to specific tools made for Male Initiation Ceremonies, and the area surrounding this site has high cultural values to WVWAC (WVWAC 2020, see **Appendix 1**).

OLALC have identified tangible and intangible cultural values related to the overall McPhillamys Mine Project. The cultural information shared has been summarised in this section and taken into consideration regarding the impact assessment in **Section 9**.

Tangible aspects of Aboriginal cultural heritage as identified by OLALC include:

The tangible aspect of Aboriginal cultural heritage, which represents only one part of Aboriginal cultural values, is manifested by physical evidence such as Aboriginal objects and places. Tangible aspects can include artefacts left behind, but also the physical environment itself – that is, waterways, flora and fauna. The study area has important and rare tangible values that relate to past activities by Wiradjuri people (e.g. stone knapping, ochre extraction and use), and the Belubula headwaters themselves (OLALC 2020: 2).

The Belubula River, also known as 'stony river' or 'big lagoon' is the main watercourse in the southern section of the OLALC boundary, and its headwaters are located inside the mine site project boundary, though are outside of the addendum pipeline and mine access road study area. OLALC have identified that the Belubula headwaters have tangible and intangible cultural values, and that the Aboriginal community maintains strong spiritual and cultural connections with the Belubula headwaters.

Traditionally, this waterway is associated with the Billabearra (Belubula tribe) (Pearson 1984: 65), including "Tibaroo – Chief of the Bellubla" who is mentioned on a copper plate presented to him by the New South Wales Government some time during the 19th century (Peak Hill Express 6 September 1907: 6). The headwaters of the Belubula were frequented by the Muc-are (Kings Plain tribe) at the time of contact (Pearson 1984: 65), who likely occupied the study area. Accordingly, the Belubula headwaters are a significant and irreplaceable feature of the Aboriginal cultural landscape on Orange Country, with these waters and

the surrounding environment also holding important tangible values for the Aboriginal community (OLALC 2020: 3).

There is also a source of ochre, located at the intersection of Pounds Lane and the Mid-Western Highway, which has been identified as a rare and significant site by OLALC, which Elders still utilise (OLALC 2020: 4).

OLALC have also provided information regarding a burial location of Aboriginal Ancestral Remains in the property known as 'the Dungeon', and also mentions three other burial locations nearby (OLALC 2020: 4). These locations are discussed further in **Section 6.3.1**.

The location of the overall Project as part of the Bathurst Wars cultural landscape has also been identified by OLALC. A historical summary of the Bathurst Wars has been provided in **Section 6.1**.

The OLALC and renowned scholars such as Stephen Gapps consider Kings Plains to be of state and national significance. This is due to key events that occurred at Kings Plains between 1822-1824, which played a critical role in the subsequent Bathurst Wars and ultimately set a template for future Frontier Wars beyond the settlements in the rapidly expanding pastoral occupation of Australia. The events that occurred at Kings Plains are also of critical importance for Wiradjuri post-contact history, shaping the way that Wiradjuri lives were upheaved and transformed. As a significant part of the broader Bathurst Wars cultural landscape, the study area therefore has important tangible values for the Aboriginal community for its association with these historical events, and with historical Aboriginal figures such as Windradyne/'Saturday' – a Wiradjuri warrior who played a key role in the Bathurst Wars at Kings Plains (OLALC 2020: 5).

## 6 ABORIGINAL ARCHAEOLOGY BACKGROUND

## 6.1 ETHNO-HISTORIC SOURCES OF REGIONAL ABORIGINAL CULTURE

Please see OzArk (2019) and Landskape (2019) for relevant information.

OLALC have identified parts of the addendum study area as being part of the Bathurst Wars Cultural Landscape (see **Section 5.2**). As such, further detail is provided below regarding the Bathurst Plains and the Bathurst Wars.

In the early colonial period, relationships between Europeans and Aboriginal people were relatively amicable while there were few colonists. Pearson analysed observations written by nineteenth century observers from the upper Macquarie region:

the upper Macquarie was inhabited by large localised groups of Aborigines, who in normal conditions of daily life were divided into small groups of up to twenty individuals. These small groups could coalesce relatively quickly into groups of from 80 to 150 people to take advantage of a guaranteed or desirable resource (such as seasonal food resources or the goods offered by the Wellington mission), for ceremonial or social obligations, or for special events (such as a pre-arranged gathering to see an explorer or first settler in an area). There seem to have been no over-riding seasonal factors affecting Aboriginal movements in the well-watered upper Macquarie (Pearson 1984: 64).

Pearson hypothesises that the primary economic resources zones in the general vicinity of the study area were the mixed woodlands and grasslands which were located around the edges of the Bathurst Plains, in the Bell River Walley north of Wellington and the Cudgegong River flat, and the upper Capertee Valley around Mudgee (Pearson 1984: 69).

By 1824, the settler population of the area had increased to 1267 people, with an increase of 1020 ha to 37,085 ha of land cleared and fenced (Elder 2003: 53). The increase of the settler population is directly related to the government policies of Sir Thomas Brisbane, Governor of New South Wales between 1821–1825, who promoted inland settlement by granting large tracts of land around Bathurst and assigning convicts to the settlers in order to work the land (Connor 2005; Roberts 2015). With the increase in the settler population and subsequent increase in land clearing and grazing of cattle and sheep, the Wiradjuri saw their traditional hunting grounds being destroyed, as well as being dispossessed. The Bathurst Wars started with a series of skirmishes, with the first skirmish occurring early in 1822 when a small group of Wiradjuri attacked a station on the Cudgegong River near Mudgee, and at Swallow Creek west of Bathurst (Connor 2005). The Wiradjuri used a variety of guerrilla tactics to attack stockmen and their stock and took advantage of the widespread pastoral frontier, using the mountainous terrain around the edges of Bathurst Plains and around Mudgee to strike from and retreat to. These skirmishes managed

to halt pastoral expansion, and the attack on the government station at Swallow Creek in November 1823 caused it to be abandoned. By January 1824, the settlers demanded that military forces be brought in to control the increasing violence (Elder 2003: 54).

This precipitated open war between the Wiradjuri and the government settlement in Bathurst and surrounding settlements such as Orange, Wellington and Mudgee from early 1824. The most-well known Wiradjuri leader was Windradyne. Windradyne was arrested and imprisoned for one month at Bathurst and it was reported that six men were needed to arrest Windradyne. By the time of Windradyne's release, the settlers had armed themselves and saw the Wiradjuri as the enemy (Elder 2003).

Martial law was declared by Governor Brisbane on 14 August 1824 covering the area west of the Blue Mountains (Connor 2005; Roberts 1995: 618-624). With civil law suspended, violence was officially sanctioned, and Governor Brisbane transmitted a proclamation to London that: "It hath been found that Mutual Bloodshed may be stopped by the Use of Arms against the Natives beyond the ordinary Rule of Law... and for this End resort to summary justice has become necessary" (cited in Roberts 1995: 622). On 14 October 1824 the Sydney Gazette reported that: "Bathurst [and] its surrounding district is engaged in an exterminating war" (cited in Roberts 1995: 623). The proclimation of martial law was only one of three measures introduced to end the escalating violence. In addition, the Bathurst garrison was increased to 75 men at the request of J.T. Morisset, current Commandant at Bathurst, and request was made for a troop of Colonial Cavalry (Connor 2005). By October and November, Wiradjuri attacks ceased, and a peace meeting was held with Wiradjuri leaders in Bathurst. The martial law was revoked on 11 December 1824, and in December a Wiradjuri delegation travelled to the annual governor's feast for the Sydney Aboriginals. Windradyne attended his feast and was introduced to the governor (Connor 2005). Shortly after, relatively friendly relationships were established with the Wiradjuri, although these relationships tended to sway between amenable and violent interactions (Kabaila 1998: 13-17).

Windradyne was given a traditional burial with all his weapons and his grave was marked with carved trees. Windradyne is celebrated as revered warrior by the Wiradjuri people today and is representative of cultural contact and the relationship between Windradyne and the Suttor family settlers of Bathurst. In 1955 the Bathurst Historical society erected a plaque in Windradyne's honour and more recently a Voluntary Conservation Agreement (VCA) has protected the area. The grave of Windradyne is located approximately 11 km north of Bathurst, associated with a carved tree on the property Brucedale. The carved trees are no longer extant, but the remains of two graves are present.

## 6.2 REGIONAL ARCHAEOLOGICAL CONTEXT

Please see OzArk (2019) and Landskape (2019) for relevant information.

## 6.3 LOCAL ARCHAEOLOGICAL CONTEXT

#### 6.3.1 Desktop database searches conducted

A desktop search was conducted on the following databases to identify any potential previously recorded heritage within the addendum study areas (the mine access road and pipeline options). In addition, an updated AHIMS search has been conducted along the entire pipeline alignment. The results of these searches are summarised in **Table 6-1** and presented in detail in **Appendix 2**.

Name of Database Searched	Date of Search	Type of Search	Comment
Mine access road and addendum pipeline alignment options			
Commonwealth Heritage Listings	15 June 2020	Blayney and Bathurst LGAs	No places listed on either the National or Commonwealth heritage lists are located within the study area
National Native Title Claims Search	15 June 2020	NSW	No Native Title Claims cover the study area.
AHIMS	17 June 2020	7 x 7 km centred on the mine access road and the two addendum pipeline options	97 sites within the search area. None within the study areas.
Local Environmental Plan (LEP)	15 June 2020	Bathurst LEP of 2014 Blayney LEP of 2012	None of the Aboriginal places noted occur near the study area.
	Remainder of	the pipeline	
Commonwealth Heritage Listings	24 July 2020	Blayney, Bathurst, and Lithgow LGAs	No places listed on either the National or Commonwealth heritage lists are located within the study area
National Native Title Claims Search	24 July 2020	NSW	The Warrabinga-Wiradjuri #7 (Tribunal No NC2017/001 and NC2018/002) have a claim over part of the pipeline alignment.
AHIMS	24 July 2020	1.5 km centred on remainder of pipeline alignment	27 additional sites than reported in OzArk 2019.
LEP	24 July 2020	Bathurst LEP of 2014 Blayney LEP of 2012 Lithgow LEP of 2014	None of the Aboriginal places noted occur near the study area.

 Table 6-1: Aboriginal cultural heritage: desktop-database search results.

As per **Table 6-1**, it is noted that part of the pipeline alignment includes land currently subject to Native Title Claim (NC2018/002, NSD857/2017, Warrabinga-Wiradjuri #7).

Mine access road and addendum pipeline options

A search of the AHIMS database conducted on 17 June 2020 for the mine access road and addendum pipeline alignments returned 97 records for Aboriginal heritage sites within the designated search area (GDA Zone 55 Eastings: 711542–737644, Northings: 6284663–6299270). **Figure 6-1** shows the location of the AHIMS sites that have been recorded near the study area while **Table 6-2** summarises the number and frequency of site type.

**Figure 6-2** and **Figure 6-3** show a detailed view of AHIMS sites in relation to the mine access road and the pipeline options.

Site Type	Number	% Frequency
Artefact scatters & isolated finds	66	68.0
Modified tree	10	10.3
Stone arrangement	6	6.2
Artefact scatter & PAD	4	4.1
Aboriginal ceremony & dreaming	2	2.1
Aboriginal ceremony & dreaming / ceremonial ring (stone or earth) / stone arrangement	2	2.1
Burial/s	2	2.1
Restricted	2	2.1
Aboriginal ceremony & dreaming / resource and gathering	1	1.0
Grinding groove & artefact scatter	1	1.0
PAD	1	1.0
Total	97	100

Table 6-2: Site types and frequencies of AHIMS sites near the mine access road and addendumpipeline options.

Several burial locations of Aboriginal Ancestral Remains have been mentioned by OLALC (see **Appendix 1** OLALC 2020: 4). As noted in **Table 6-2**, there are two burial locations registered on AHIMS. These are #44-5-0003 (located approximately 1.3 km south west of the addendum pipeline alignment) and #44-3-0155 (located approximately 1.5 km southeast of the addendum pipeline alignment). OLALC referenced two newspaper articles in regards to burial locations in the proximity of the addendum study area (OLALC 2020: 4). These newspaper articles are shown in **Figure 6-4**. The excerpt from the National Advocate details that human bones and teeth had been found three miles along a railway from Blayney. By 1896, there were three railways extending outwards from Blayney: the Main Western Railway going south east towards Newbridge and northwest to Orange, as well as the Blayney Demondrille Railway which went southwest from Blayney towards Carcoar. If the location of the burial mentioned by the National Advocate is plotted using the information provided in the newspaper article, this burial would have been located either 5.4 km south of the mine project area, or 7.5 km east, if the railway mentioned is the Main Western Railway. The excerpt from the Dubbo Liberal and Macquarie Advocate also

mentioned human remains found by Robert Finley at the farm 'The Dungeon'. Landskape (2019 and 2020) have provided details regarding this newspaper article.

Figure 6-1: Excerpt from the National Advocate (12 December 1896) and the Dubbo Liberal and Macquarie Advocate (15 November 1912).

<b>BLAYNEY NEWS.</b> FIND OF A HUMAN BODY. [FROM ADVOCATE COBRESPONDENT.] BLAYNEY, Friday. A quantity of human bones and teeth were brought into town last night by a man working on the railway line about three miles from town. A gang of men were en- gaged in lowering the line at this spot to make the gradients lighter, and while ex- cavating the remains were found. They ap- pear to have been a number of years under- ground. The general opinion is that they are the remains of an aboriginal. Some of the oldest residents state that many years ago a shanty used to be kept at the spot and large numbers of aboriginals used to frequent the locality and camp about there. The bones are very ancient looking, and, judging by their appearance, have nothing to do with the Butler or Harwood case.	HUMAN BONES. Whilst Mr. Robert Finley was sink- ing a post hole in fencing at his farm at "The Dungeon" (Blayney) he came across portion of a human skeleton about 2 feet below the surface. The matter was reported to the Blayney police, and Sergeant Blanchford went out to investigate. An examination showed that the bones, which were judged to be those of an aboriginal by the thickness of the skull, had lain there for many years, probably before white settlement, as the oldest hands have no recollection of an interment at the spot where the bones were un- earthed. No action was taken with respect to the discovery.
1. Excerpt from National Advocate 12 December 1896 pg. 2.	<ol> <li>Excerpt from Dubbo Liberal and Macquarie Advocate</li> <li>15 November 1912 pg. 6.</li> </ol>

OLALC have also mentioned an ochre procurement location at the corner of the Mid-Western Highway and Pounds Lane. This has not been registered on AHIMS, but is outside of the addendum study area.

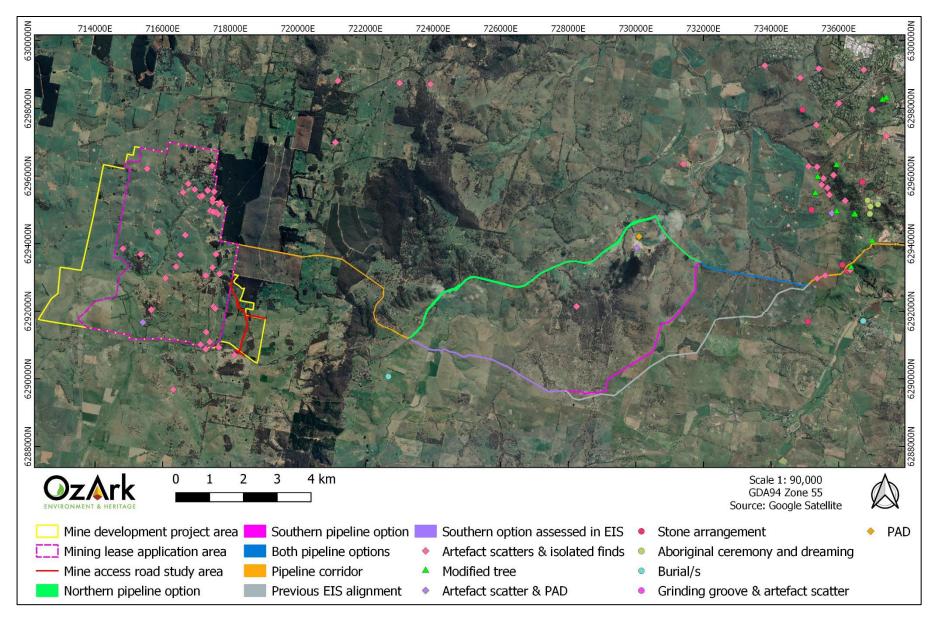
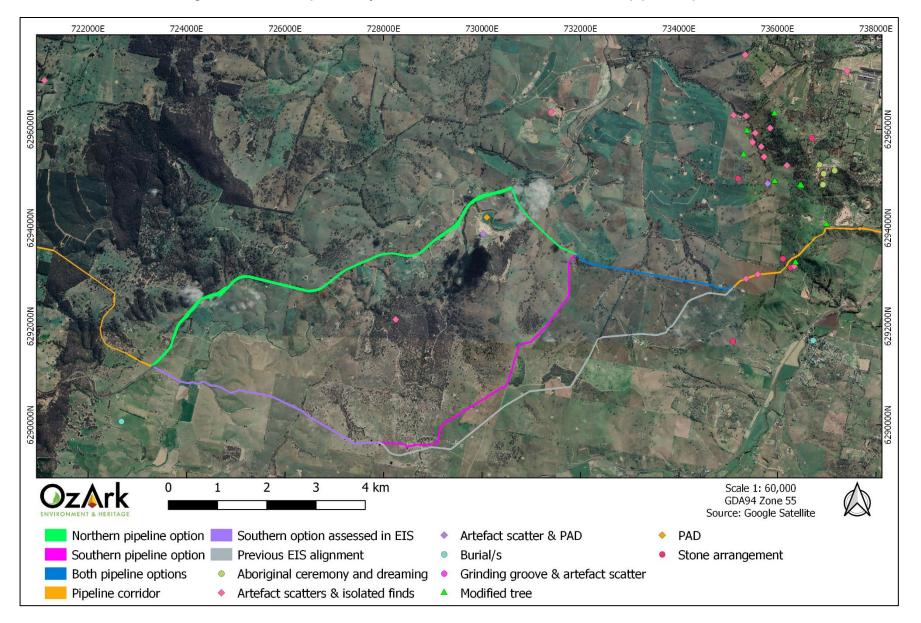






Figure 6-3: Detail of previously recorded AHIMS sites in relation to the mine access road.





#### Remainder of the pipeline alignment

A search of the AHIMS database conducted on 24 July 2020 for the remainder of the pipeline alignment route returned an additional 27 Aboriginal sites within the designated 1.5 km search area around the pipeline corridor. The 27 additional Aboriginal sites include the sites recorded during the assessment and detailed in OzArk 2019.

The purpose of this AHIMS search was to update the findings in OzArk (2019) and ensure any additional sites recorded in the past two years are considered in the impact assessment.

**Figure 6-5** shows the location of the AHIMS sites that have been recorded near the study area while **Table 6-3** summarises the number and frequency of site type.

Table 6-3: Site types and frequencies of AHIMS sites near the remainder of the pipeline alignment.

Site Type	Number	% Frequency
Artefact scatter	53	48
Isolated artefact	26	23
Aboriginal ceremony & dreaming site	6	5
Stone arrangement	4	4
Modified tree	5	5
Restricted site	2	2
Isolated artefact & PAD	2	2
Grinding grooves	1	1
Burial	1	1
Artefact scatter, art & grinding grooves	1	1
Artefact scatter & PAD	2	2
Artefact scatter & grinding grooves	1	1
Artefact scatter & Aboriginal ceremony and dreaming site	1	1
Quarry	1	1
Artefact scatter & modified tree	2	2
Shelter with deposit	3	3
Total	111	100

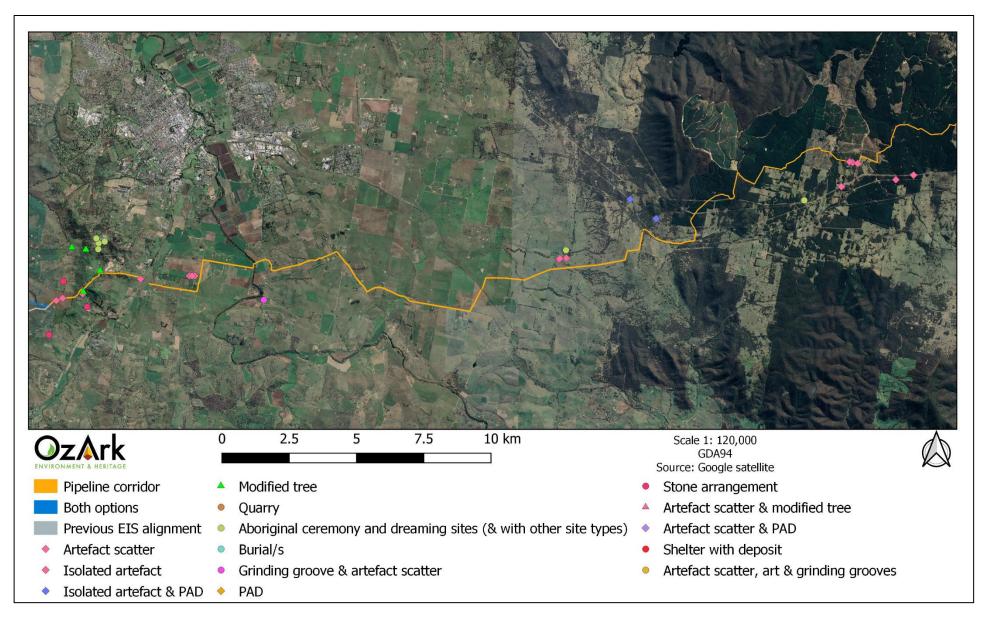


Figure 6-5: Location of previously recorded AHIMS sites in relation to the remainder of the pipeline – western half.

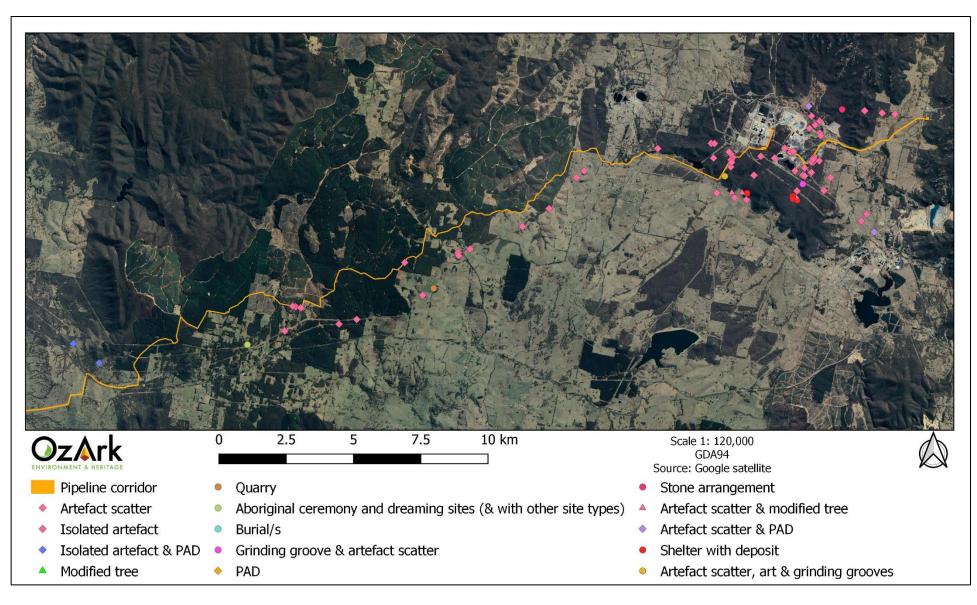


Figure 6-6: Location of previously recorded AHIMS sites in relation to the remainder of the pipeline – eastern half.

#### 6.3.2 Local archaeological studies

There have been a number of development driven assessments conducted in the Blayney and Bathurst areas. Only those assessments which are close or related to the addendum study areas of the mine access road and the two pipeline options have been summarised. For further information regarding local archaeological studies in relation to the entire McPhillamys Gold Project see Landskape (2019) and OzArk (2019).

#### 6.3.2.1 Mine access road

Kelton (2000) undertook a heritage assessment of the proposed Mid-Western Highway realignment near Kings Plains. The area assessed by Kelton is directly south of the mine access road study area. During Kelton's assessment, two Aboriginal sites were recorded (KS-OS-1 [#44-2-0121 and #44-2-0120] and KP-OS-2 [#44-2-0122]). Both sites are artefact scatters. One existing PAD was also noted, and two new PADs identified. Austral Archaeology (2004) completed test excavation at the sites Kelton (2000) recorded. The test excavation at these sites resulted in a small number of artefacts being recorded which are characteristic of the region.

Landskape (2019) conducted the Aboriginal cultural heritage assessment for the mine development component of the McPhillamys Gold Project, located near Blayney. During this assessment nineteen stone artefact scatters and eighteen isolated finds of stone artefacts were recorded in addition to one previously recorded stone artefact scatter (AHIMS #44-2-0122). This assessment concluded that the Aboriginal cultural heritage sites that would be impacted by the mine development are not of high scientific or cultural significance.

## 6.3.2.2 Northern and Southern pipeline options

Navin Officer (2018) completed a heritage assessment for the Swans Ponds Quarry Extension located approximately 700 m south of the northern pipeline option. During the assessment two sites were recorded: #44-2-0296 (artefact scatter and PAD) and #44-2-0295 (PAD). The artefact scatter and PAD (#44-2-0296) was recorded midslope on the south side of Evans Plains Creek. It consisted of at least 12 artefacts made from materials such as quartz, tuff, and volcanic material, though quartz was the most prevalent material type. The PAD (#44-2-0295) was recorded on a terrace adjacent to the south bank of the Evans Plains Creek.

Pickering (1980) surveyed a proposed electricity easement between Bathurst, Raglan and Mount Panorama. Seven sites were recorded including several isolated finds, a lithic scatter, and a possible scarred tree. The artefacts recorded were made from a range of materials: quartzite, quartz, fine grained silcrete and fine-grained basalt. In addition, Pickering attempted to locate five previously identified stone arrangements but found all of them had been destroyed via agricultural activities, or by campers. OzArk (2019) conducted the Aboriginal cultural heritage assessment for the pipeline development component of the McPhillamys Gold Project. During this assessment, seven Aboriginal sites were recorded consisting of six isolated finds and one low-density artefact scatter. One previously recorded site, #45-1-2723, was also located. The assessment concluded that the Aboriginal sites likely to be impacted by the pipeline development are not of high archaeological / scientific significance.

Although there is a limited number of archaeological studies that have been conducted in the vicinity of the addendum study areas, the results indicate that, despite the negative impacts of agricultural practices in these areas, Aboriginal sites are still likely to be located on landforms next to a permanent water source.

## 6.4 **PREDICTIVE MODEL FOR SITE LOCATION**

Across Australia, numerous archaeological studies in widely varying environmental zones and contexts have demonstrated a high correlation between the permanence of a water source and the permanence and/or complexity of Aboriginal occupation. Site location is also affected by the availability of and/or accessibility to a range of other natural resources including plant and animal foods; stone and ochre resources and rock shelters; as well as by their general proximity to other sites/places of cultural/mythological significance. Consequently, sites tend to be found along permanent and ephemeral water sources, along access or trade routes or in areas that have good flora/fauna resources and appropriate shelter.

In formulating a predictive model for Aboriginal archaeological site location within any landscape it is also necessary to consider post-depositional influences on Aboriginal material culture. In all but the best preservation conditions very little of the organic material culture remains of ancestral Aboriginal communities survives to the present. Generally, it is the more durable materials such as stone artefacts, stone hearths, shell, and some bones that remain preserved in the current landscape. Even these, however, may not be found in their original depositional context since these may be subject to either (a) the effects of wind and water erosion/transport—both over short- and long-time scales—or (b) the historical impacts associated with the introduction of European farming practices including grazing and cropping, land degradation, and farm related infrastructure. Scarred trees, due to their nature, may survive for up to several hundred years but rarely beyond.

## 6.4.1 Settlement strategies

The archaeological studies undertaken within the vicinity of the study area and the wider region provide information to obtain a sound understanding of the nature and distribution of archaeological sites within the area. Although there is some conjecture about the relationship between stream order, site numbers and densities, the general pattern is that most sites representing occupation, such as artefact scatters, are present close to permanent water sources.

There are cultural and ritual sites (such as initiation and birthing sites, and bora rings) which do not necessarily correlate to environmental data and a predictive model. These types of sites are determined more due to cultural choice than environmental situation.

#### 6.4.2 Past land use

Crucial for the preservation of archaeological deposits is the history of past land use in an area. The study area has had several different types of land use ranging from mining, agricultural, grazing and transport corridors. Previous archaeological studies conducted at the eastern portion of the study area, predominately due to either mining or energy purposes, have highlighted the disturbed context of these areas and the difficulties in locating previously recorded Aboriginal sites.

The results of past archaeological investigations near the study area indicate that the most common site type will be artefact scatters or isolated artefacts generally located on flat terraces or gentle slopes near higher order watercourses. Aboriginal ceremony and dreaming sites have also been recorded in locations around the pipeline study area, most prominently at Mount Bathurst. Stone arrangements have also been recorded around Bald Hill (to the south of Mount Panorama) and scarred trees have also been recorded in proximity to these Aboriginal ceremony and dreaming sites and stone arrangements.

Based on the previously recorded sites in vicinity to the study area, the most likely site type to be located inside the study area are artefact scatters and isolated artefacts.

## 6.4.3 Previously recorded sites

The results of past archaeological investigations near the study areas, including the remainder of the pipeline development (see OzArk 2019), indicates that the most common site type will be artefact scatters or isolated finds. There is also potential for modified trees where mature native vegetation exists.

## 6.4.4 Landform modelling

A consideration of the landforms within the study area enables a prediction regarding the type and distribution of sites to be made. As the study areas are linear and narrow, they traverse a range of central tablelands landforms from steep hills to flat landforms: all of which are dissected by a variety of waterways.

The highest order waterway intersected by the addendum study areas is the Evans Plains Creek (**Figure 2-4**). Though there is a variety of topographic features within the mine access road and the pipeline option study areas, there are limited locations that would have encouraged past

Aboriginal occupation. These locations are limited to elevated terraces adjacent to water, which is also a landform type recognised in the area as having archaeological sensitivity.

#### 6.4.5 Previous studies

Previous archaeological studies indicate that artefact scatters and isolated finds will possibly be recorded within the study area, especially on well drained landforms adjacent to permanent water sources. The main types of raw materials for artefacts recorded during archaeological assessments are quartz, chert, silcrete, volcanic material and tuff.

#### 6.4.6 Conclusion

Based on knowledge of the environmental contexts of the study area and a desktop review of the known local and regional archaeological record, the following predictions are made concerning the probability of those site types being recorded within the study area:

- <u>Isolated finds</u> may be indicative of random loss or deliberate discard of: a single artefact; the remnant of a now dispersed and disturbed artefact scatter; or an otherwise obscured or sub-surface artefact scatter. They may occur anywhere within the landscape but are more likely to occur in topographies where open artefact scatters typically occur.
  - As isolated finds can occur anywhere, particularly within disturbed contexts, it is predicted that this site type could be recorded within the study area.
- Open artefact scatters are defined as two or more artefacts, not located within a rock shelter, and located no more than 50 m away from any other constituent artefact. This site type may occur almost anywhere that Aboriginal people have travelled and may be associated with hunting and gathering activities, short- or long-term camps, and the manufacture and maintenance of stone tools. Artefact scatters typically consist of surface scatters or sub-surface distributions of flaked stone discarded during the manufacture of tools but may also include other artefactual rock types such as hearth and anvil stones. Less commonly, artefact scatters may include archaeological stratigraphic features such as hearths and artefact concentrations which relate to activity areas. Artefact density can vary considerably between and across individual sites. Small ground exposures revealing low density scatters may be indicative of a background scatter rather than a spatially or temporally distinct artefact assemblage. These sites are classed as 'open', that is, occurring on the land surface unprotected by rock overhangs, and are sometimes referred to as 'open camp sites'.

Artefact scatters are most likely to occur on level or low gradient contexts, along the crests of ridgelines and spurs, and elevated areas fringing watercourses or wetlands. Larger sites may be expected in association with permanent water sources.

Topographies which afford effective through-access across, and relative to, the surrounding landscape, such as the open basal valley slopes and the valleys of creeks, will tend to contain more and larger sites, mostly camp sites evidenced by open artefact scatters.

 As the study area traverses a wide range of landforms, this site type has potential to occur. Artefact scatters are most likely to be located within landforms of a gentle gradient associated with permanent / semi-permanent waterways as these are likely to have been attractive camping areas. Smaller sites containing low density and low complexity assemblages are predicted near less permanent watercourses. Moderate to steeply sloping landforms are unlikely to have been utilised with lower gradient ridges and spurs being more attractive for camping. The lack of water in these elevated landforms would suggest, however, that camping would have been short-term and that sites would be smaller and contain low complexity assemblages. The high degree of impact from past agricultural practices along the creek flats or gentle slopes, i.e. cultivation, will probably mean that surface scatters and archaeological deposits are likely to have become displaced. It would be expected that most sites located would date to the late Holocene (i.e. less than 4,000 years old), the age attributed to the A-Horizon artefact bearing deposits. Although Pleistocene sites contained within B-Horizon sediments may also occur but must be considered a rare eventuality.

- Aboriginal scarred trees contain evidence of the removal of bark (and sometimes wood) in the past by Aboriginal people, in the form of a scar. Bark was removed from trees for a wide range of reasons. It was a raw material used in the manufacture of various tools, vessels, and commodities such as string, water containers, roofing for shelters, shields, and canoes. Bark was also removed because of gathering food, such as collecting wood boring grubs or creating footholds to climb a tree for possum hunting. Due to the multiplicity of uses and the continuous process of occlusion (or healing) following removal, it is difficult to accurately determine the intended purpose for any example of bark removal. Scarred trees may occur anywhere old growth trees survive. The identification of scars as Aboriginal cultural heritage items can be problematical because some forms of natural trauma and European bark extraction create similar scars. Many remaining scarred trees probably date to the historic period when bark was removed by Aboriginal people for both their own purposes and for roofing on early European houses. Consequently, the distinction between European and Aboriginal scarred trees may not be clear.
  - Due to the near-total clearance of trees from within the study area, this site type is predicted to be very rare. It is also noted that this site type is very rare at a regional level.
- <u>Quarry sites and stone procurement sites</u> typically consist of exposures of stone
  material where evidence for human collection, extraction and/or preliminary processing
  has survived. Typically, these involve the extraction of siliceous or fine grained igneous
  and meta-sedimentary rock types for the manufacture of artefacts. The presence of
  quarry/extraction sites is dependent on the availability of suitable rock formations.
  - This site type could be recorded within the study area should suitable rock outcroppings be available.
- <u>Burials</u> are generally found in soft sediments such as aeolian sand, alluvial silts, and rock shelter deposits. In valley floor and plains contexts, burials may occur in locally elevated topographies rather than poorly drained sedimentary contexts. Burials are also known to have occurred on rocky hilltops in some limited areas. Burials are generally only visible where there has been some disturbance of sub-surface sediments or where some erosional process has exposed them.

• Although it is possible that this site type could be found within the study area, it is considered a rare site type especially given the disturbance that has occurred within the study area.

# 7 RESULTS OF ABORIGINAL ARCHAEOLOGICAL ASSESSMENT

## 7.1 SAMPLING STRATEGY AND FIELD METHODS

Standard archaeological field survey and recording methods were employed in this study (Burke & Smith 2004). The Aboriginal cultural heritage assessment of the study area followed the Code of Practice. The field inspection followed standard archaeological field survey and recording methods (Burke & Smith 2004) as well as the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in New South Wales* (OEH 2011).

The methodology is based on the understanding that:

- Some portions have been moderately disturbed, such as those along modified road corridors, transmission line easements etc.
- Some portions have undergone low levels of disturbance, possibly only from land clearing.

Survey effort was apportioned according to the likelihood of Aboriginal sites being present and with regards to disturbance. It should be noted that the aim of any archaeological survey is not to locate every artefact in a landscape but to undertake investigations so that the archaeological potential and archaeological characteristics of all landforms within the study area are known.

When recording a site, the following details were noted:

- GPS location/s of site features (i.e. stone artefact locations, etc.)
- Site type
- Site extent
- Landform and context of site
- Details for each artefact (size, type, raw material, etc.)
- Whether site had potential for PAD
- Notes on discussion from RAPs regarding possible mitigation measures and their views concerning the site.

These details were used to register the site on AHIMS and compile the information in **Section 6.4**.

## 7.2 **PROJECT CONSTRAINTS**

There were no significant constraints in completing the archaeological assessment of the study area. Ground surface visibility (GSV) posed the greatest constraint during field inspection (**Section 6.3**), however, not to the extent that the efficacy of the survey was unduly diminished.

# 7.3 EFFECTIVE SURVEY COVERAGE

Two of the key factors influencing the effectiveness of archaeological survey are GSV and ground surface exposure (GSE). These factors are quantified to ensure that the survey data provides adequate evidence for the evaluation of the archaeological materials across the landscape. For the purposes of the current assessment, these terms are used in accordance with the definitions provided in the Code of Practice.

GSV is defined as:

... the amount of bare ground (or visibility) on the exposures which might reveal artefacts or other archaeological materials. It is important to note that visibility, on its own, is not a reliable indicator of the detectability of buried archaeological material. Things like vegetation, plant or leaf litter, loose sand, stone ground or introduced materials will affect the visibility. Put another way, visibility refers to 'what conceals' (DECCW 2010: 39).

GSE is defined as:

... different to visibility because it estimates the area with a likelihood of revealing buried artefacts or deposits rather than just being an observation of the amount of bare ground. It is the percentage of land for which erosion and exposure was sufficient to reveal archaeological evidence on the surface of the ground. Put another way, exposure refers to 'what reveals' (DECCW 2010: 37).

## 7.3.1 Mine access road

**Table 7-1** calculates the effective survey coverage within the mine access road. In general, **Table 7-1** presents an approximation of the amount of ground surface able to be seen at any location within particular landform units. For example, at any one location within the elevated flat landforms of the mine access road approximately 15% of the ground surface could be seen. Exposures in this landform were generally confined to erosion scalds or existing vehicle and animal tracks. The amount of visible ground decreased across the slopes as these were generally grassed more heavily than the elevated flats. Visibility within these landforms was hampered by grass cover.

Survey Unit	Landform	Survey Unit Area (sq m)	Visibility %	Exposure %	Effective Coverage Area (sq m) (= Survey Unit Area x Visibility % x Exposure %)	Effective Coverage % (= Effective Coverage Area / Survey Unit Area x 100)
1	Gentle to moderate slope	71830	40	30	8620	12
2	Elevated flats	10510	50	30	1576	15

Survey Unit	Landform	Survey Unit Area (sq m)	Visibility %	Exposure %	Effective Coverage Area (sq m) (= Survey Unit Area x Visibility % x Exposure %)	Effective Coverage % (= Effective Coverage Area / Survey Unit Area x 100)
3	Gentle to moderate slope	18146	40	30	2178	12

**Table 7-2** demonstrates that the survey efficacy of both the elevated flats and gentle to moderate

 slopes was relatively consistent at 15 per cent and 12 per cent, respectively.

Table 7-2: Effective survey coverage and incidences of site recording at the mine access road.

Landform	Landform area (sq m)	Area Effectively Surveyed (sq m) (= Effective Coverage Area)	% of Landform Effectively Surveyed (= Area Effectively Surveyed / Landform x 100)	Number of Sites	Number of Artefacts or Features
Elevated flats	10510	1576	15	0	0
Gentle to moderate slope	89976	10797	12	0	0

#### 7.3.2 Pipeline options

**Table 7-3** calculates the effective survey coverage of the two pipeline options. Overall, creek flats and elevated flats were the landforms with the highest amount of ground surface able to be seen. Exposures on the elevated flats consisted of small erosion scalds, vehicle tracks and animal trails. The exposures within the creek flat landforms also consisted of erosion scalds, though on a larger scale than those within the elevated flats, and included areas affected by water wash. Vehicle tracks and animal trails were also present in the creek flats. The amount of visible ground decreased across the gentle to moderate and moderate to steep slopes. Visibility was hampered across all landforms by grass cover, crops and where trees were present, leaf litter and branches.

Survey Unit	Landform	Survey Unit Area (sq m)	Visibility %	Exposure %	Effective Coverage Area (sq m) (= Survey Unit Area x Visibility % x Exposure %)	Effective Coverage % (= Effective Coverage Area / Survey Unit Area x 100)
1	Moderate - steep slopes	15895	30	50	2384	15
2	Elevated flats	2477	40	50	495	20
3	Moderate - steep slopes	12106	30	50	1816	15
4	Creek flats	4596	50	60	1379	30
5	Moderate - steep slopes	7405	20	30	444	6
6	Elevated flats	6530	50	70	2285	35
7	Moderate - steep slopes	9590	40	50	1918	20
8	Creek flats	702	70	60	295	42
9	Moderate - steep slopes	14780	40	50	2956	20

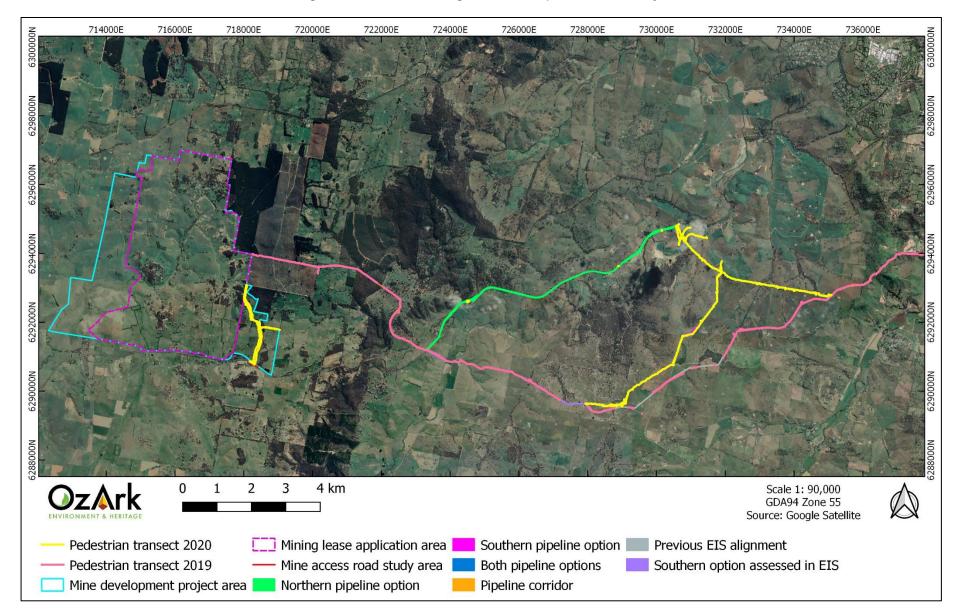
Table 7-3: Effective survey coverage within the pipeline options.

Survey Unit	Landform	Survey Unit Area (sq m)	Visibility %	Exposure %	Effective Coverage Area (sq m) (= Survey Unit Area x Visibility % x Exposure %)	Effective Coverage % (= Effective Coverage Area / Survey Unit Area x 100)
10	Gentle - moderate slopes	76355	40	50	15271	20
11	Elevated flats	15096	20	10	302	2
12	Moderate - steep slopes	28343	30	40	3401	12
13	Creek flats	14421	40	60	3461	24
14	Gentle - moderate slopes	20293	20	30	1218	6
15	Creek flats	10626	40	60	2550	24
16	Highway corridor - gentle/moderate slopes	80974	20	50	8097	10
17	Highway corridor - creek flats	34839	20	50	3484	10
18	Highway corridor - moderate/steep slopes	262823	20	50	26282	10

**Table 7-4** demonstrates that although the survey efficacy within moderate to steep slope landforms was the lowest at 11 per cent, this did hamper the recording of a site. These results conform with the results of the overall survey for the pipeline development (see OzArk 2019: 55– 56). As with the 2019 assessment (OzArk 2019), the most archaeologically sensitive areas (i.e. along the banks of waterways in the 'creek flat landform') are the least represented along the two addendum pipeline options. Furthermore, the locations of the pipeline alignment across the 'creek flat landforms' were all effected by gully erosion, trampling, earthworks or sheet wash that raised the survey efficacy of this survey unit.

Landform	Landform area (sq m)	Area Effectively Surveyed (sq m) (= Effective Coverage Area)	% of Landform Effectively Surveyed (= Area Effectively Surveyed / Landform x 100)	Number of Sites	Number of Artefacts or Features
Gentle to moderate slopes	177621	24586	14	0	0
Moderate to steep slopes	350943	39202	11	1	1
Elevated flats	24103	3083	13	0	0
Creek flats	65184	11169	17	0	0

**Figure 7-1** shows the pedestrian survey effort for the addendum study areas of the mine access road and the pipeline options.



#### Figure 7-1: Aerial showing the areas of pedestrian survey.

# 7.4 ABORIGINAL SITES RECORDED

**Table 7-5** summarises the Aboriginal cultural heritage site recorded during the survey of the study area. Further details on each site follows.

Site Name & Number	Feature(s)	Survey Unit	Landform
Evans Plains Creek Tributary IF-01 #44-5-0175	Isolated find	8	Gentle to moderate slope

# Evans Plains Creek Tributary IF-01 (#44-5-0175)

Site Type: Isolated find

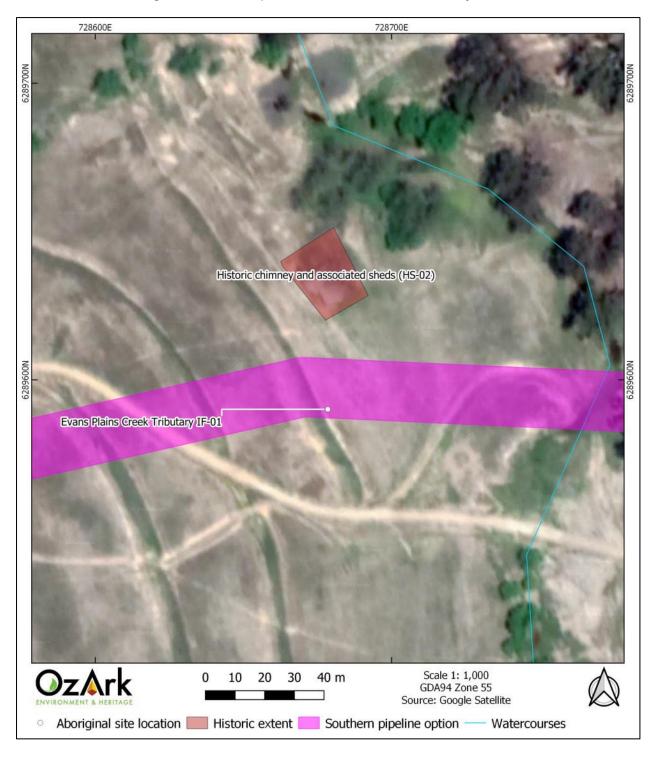
GPS Coordinates: 728678 E / 6289590 N (GDA94 Zone 55)

**Location of Site**: The site is located on private property approximately 3.9 km south of the Mid-Western Highway, 2.1 km north of Wimbledon Road and 1.9 km northwest of the homestead 'Green Creek'. The site is approximately 90 m west of a tributary of the Evans Plains Creek (**Figure 7-4**).

**Description of Site**: The site consists of a single quartz flake (**Figure 7-2**). The flake measures 30 mm in length, 30 mm in width and 7 mm in thickness. It has a simple platform and hinge termination. The flake is located on the top of a contour bank west of a modified terrace next to the tributary. The contour bank is in a lower slope descending west to east towards the tributary. A historical site (HS-01) is located approximately 35 m north (**Figure 7-3**). Soils at the site are mid-brown loamy silt and the vegetation consists of grazed grasses. Due to the disturbances in the area, it is unlikely there are *in situ* subsurface deposits present.

Figure 7-2: Evans Plains Creek Tributary IF-01. View of site and selection of recorded artefacts.





#### Figure 7-3: Site map of Evans Plains Creek Tributary IF-01.

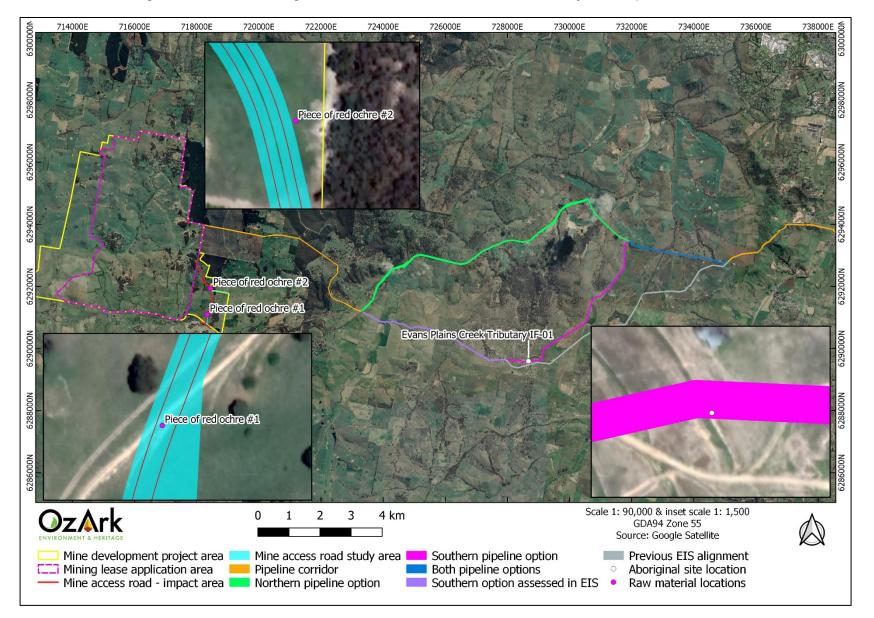
# 7.5 RAW MATERIALS RECORDED

In addition to the Aboriginal site recorded during the survey, two pieces of red ochre were recorded during the survey of the mine access road. **Table 7-6** outlines the location and details of the pieces of red ochre, while **Figure 7-4** shows the location of the red ochre. Neither piece of ochre had evidence of having been utilised. Both pieces were also in secondary contexts and no Aboriginal items or sites were recorded in conjunction with them. As such, these pieces of raw

red ochre have been recorded at the request of the RAP representative but will not be registered as sites on AHIMS.

Name	GPS coordinates (GDA94 Zone 55)	Details	Photographs
Piece of red ochre #1	718341 E 6291098 N	One small piece of hard red ochre. Located on the southeast edge of an old track which led to a former mine. In a secondary context and area is affected by water wash and soil erosion.	
Piece of red ochre #2	718445 E 6291939 N	One chunk of hard red ochre broken into two pieces. Located west of crown land on a slope descending towards the southwest. In a secondary context and area is affected by water wash.	

Table 7-6: Location and details of red ochre.





# 8 DISCUSSION

### 8.1 DISCUSSION OF SURVEY RESULTS

#### 8.1.1 Summary of survey results

The survey of the addendum study areas resulted in one Aboriginal site being recorded (Evans Plains Creek Tributary IF-01 #44-5-0175) and two pieces of raw ochre identified. The following summarises the results of the survey:

- The isolated artefact was a quartz flake located in a disturbed context and at the base of a moderate to steep slope overlooking a minor tributary of Evans Plains Creek
- The two pieces of red ochre are raw materials located in secondary contexts.

#### 8.1.2 Discussion

The results of the survey conform to the predictive model outlined in Section 6.4.

The regional studies, predictive model, and the results of the previous pipeline survey for McPhillamys Gold Project (OzArk 2019) suggested that artefact scatters and isolated finds would be the most common site type recorded and this is supported by the survey results. Both addendum study areas, the mine access road, and the pipeline options, have been cleared of vegetation, and any remaining stands of mature native vegetation did not have any culturally scarred trees present. The absence of stone quarries and grinding grooves is attributable to the absence of suitable rock outcropping within the addendum study areas.

The one site recorded, an isolated artefact, was identified to be in a disturbed context and did not have any associated PAD. The single quartz flake is within 100 m of a small tributary, though on a slope with a moderate to steep gradient. The low density of artefacts and sites recorded inside the addendum study areas is reflective of the study areas having high levels of prior disturbance due to land use. Regional studies show that most sites will include quartz and chert and that most artefacts recorded are unmodified flakes or proximal fragments of flakes.

The two pieces of raw ochre identified by the RAP site officer during the mine access road survey are both unmodified and located in secondary contexts without further items or features identified nearby. It is possible that these pieces of ochre are the same type of ochre as the ochre procurement location mentioned by OLALC (see **Section 5.2** and **Section 6.3.1**), though as previously mentioned, this ochre procurement location is outside of the addendum study area and as such verifying its location and the type of ochre present was outside the scope of this assessment. The Regis representative who escorted the mine access road survey also mentioned there is a small old gold mine located further northeast along the existing track which intersects with the southern portion of the mine access road, and that similar material to the raw ochre identified by the RAP site officer is also present at this old gold mine.

The main landforms within the addendum study areas which are likely to be associated with Aboriginal sites are moderate to steep gradient slopes (see **Section 7.3**). This was the only landform during the addendum survey in which an Aboriginal site was recorded. The results of the addendum survey differ to the results of the pipeline development survey (OzArk 2019) where Aboriginal sites tended to be located on gentle and moderate slopes or creek flats. The difference is mostly due to gentle and moderate slopes or creek flats being less represented across the addendum survey area than in the overall pipeline development survey.

There have been moderate levels of previous disturbance to most of the addendum study areas. In portions of the study area which are not sealed roads or unsealed tracks there is evidence that the study area has been subject a variety of land use disturbances. This includes the widespread clearance of native vegetation, extensive ploughing practices, long-term grazing, and ground disturbance due to soil erosion and soil erosion control measures (such as contour banks).

The site recorded during the survey is representative of sites recorded in the region. In terms of site size, artefact density, raw materials and artefact types these complement the archaeological context highlighted in **Section 6.2** and **Section 6.3**. In the past, sites such as isolated finds and artefact scatters would not have been rare and on a state-wide scale, low density artefact scatters and isolated finds would remain the most common site type recorded. Although the site recorded during this assessment is in no way remarkable, its presence alone, in albeit a much-modified landscape, remains a memory of the past in a landscape that is fast changing (or has changed).

The addendum pipeline options cross through the Bathurst Plains south of Bathurst, an area known for being part of the Bathurst War Cultural Landscape (see **Section 5.2**). No physical evidence of the violence between the Wiradjuri and settlers was identified during the survey. Such evidence may include musket balls or burials of an appropriate age.

The results of the survey conclude that the general site integrity is low. As noted, the study area has been subject to wide range of past and current land uses.

# **9** SIGNIFICANCE AND IMPACT ASSESSMENT

### 9.1 ASSESSMENT OF SIGNIFICANCE

### 9.1.1 Introduction

The appropriate management of cultural heritage items is usually determined based on their assessed significance, as well as the likely impacts of any proposed developments. Cultural, scientific, aesthetic, and historical significance are identified as baseline elements of significance assessment, and it is through the combination of these elements that the overall cultural heritage values of a site, place or area are resolved.

### Social or Cultural Value

This area of assessment concerns the importance of a site or features to the relevant cultural group: in this case the Aboriginal community. Aspects of social value include assessment of sites, items, and landscapes that are traditionally significant or that have contemporary importance to the Aboriginal community. This importance involves both traditional links with specific areas, as well as an overall concern by Aboriginal people for their sites generally and the continued protection of these. This type of value may not be in accord with interpretations made by the archaeologist: a site may have low archaeological value but high social value, or vice versa.

#### Archaeological/Scientific Value

Assessing a site in this context involves placing it into a broader regional framework, as well as assessing the site's individual merits in view of current archaeological discourse. This type of value relates to the ability of a site to answer current research questions and is also based on a site's condition (integrity), content and representativeness.

The overriding aim of cultural heritage management is to preserve a representative sample of the archaeological resource. This will ensure that future research within the discipline can be based on a valid sample of the past. Establishing whether a site can contribute to current research also involves defining 'research potential'. Questions regularly asked when determining significance are: can this site contribute information that no other site can? Is this site representative of other sites in the region?

### Aesthetic Value

This refers to the sensory, scenic, architectural, and creative aspects of the place. It is often closely linked with the social values. It may consider form, scale, colour, texture and material of the fabric or landscape, and the smell and sounds associated with the place and its use (Burra Charter 2013).

### Historic Value

Historic value refers to the associations of a place with a historically important person, event, phase, or activity in an Aboriginal community. Historic places do not always have physical evidence of their historical importance (such as structures, planted vegetation or landscape modifications). They may have 'shared' historic values with other (non-Aboriginal) communities.

Places of post-contact Aboriginal history have generally been poorly recognised in investigations of Aboriginal heritage. Consequently, the Aboriginal involvement and contribution to important regional historical themes is often missing from accepted historical narratives. This means it is often necessary to collect oral histories along with archival or documentary research to gain enough understanding of historic values.

### 9.2 ASSESSED SIGNIFICANCE OF THE RECORDED SITES

**Table 9-1** presents a summary of the significance assessment of the Aboriginal cultural heritage site recorded during this addendum assessment. Further details of each of the assessment criteria are provided below.

#### Social or Cultural Value

The assessment of cultural or social value concerns the importance of a site or features to the relevant cultural group, in this case the Aboriginal community. Aspects of social value include assessment of sites, items, and landscapes that are traditionally significant or that have contemporary importance to the Aboriginal community. This importance involves both traditional links with specific areas, as well as an overall concern by Aboriginal people for their sites generally and the continued protection of these. This type of value may not be in accord with interpretations made by the archaeologist: a site may have low archaeological value but high social value, or vice versa.

All sites have been afforded high cultural values since artefacts, even isolated artefacts, are seen by the community as a marker of ancient occupation across the region, as well as being a tangible link to their ancestors.

Several RAPs have provided additional information regarding cultural values associated the addendum study area. These are provided in full in **Appendix 1** and summarised in **Section 5.2**.

### WVWAC stated:

Sunny Corner IF-3 (#44-3-0224) The crystal quartz core culturally is linked to specific tools made for a Male Initiation Ceremony and Cultural Values for the site and surrounding area are High.

OLALC provided a great detail of information regarding the cultural values of the area, both tangible and intangible and some statements provided by OLALC help to describe these values:

The Belubula headwaters are a significant and irreplaceable feature of the Aboriginal cultural landscape on Orange Country, with these waters and the surrounding environment also holding important tangible values for the Aboriginal community (OLALC 2020: 3).

"I call the lovely area where I live the valley of the Bilabula, which is the Wiradjuri way of naming our river. The entire cultural landscape of this area is in my soul and in the soul of all Wiradjuri people and the wider community who are here now and have always been... It is an area of huge cultural significance... Our beloved Bilabula rises near the ochre site, it wends its way through the valley to eventually join the Bila Galari (Lachlan River), the Bila Marrambidya (Murrumbidgee River) then onto the Murray and ultimately to the sea. It may be tiny to start with but it is part of a very significant river system and many Dreaming stories follow its path and no one has the right to destroy this. No one... The Bilabula is like an artery through our land as shown by this painting I did to be permanently displayed in Blayney Hospital. I have used Wiradjuri symbols to tell the story of the Bilabula. The river is the life blood to animals along the way and to the people who grow food and use it for recreation. This river sustains life. It will not sustain life if the headwaters are poisoned, and that is not acceptable in any sense of fairness." [(Aunty Nyree Reynolds, Wiradjuri Elder, Appendix 1 in Appendix 1) as in OLALC 2020: 4–5].

"Kings Plains was a big gathering area – people were brought through from other parts of Country, from the north, south, east and west. Songlines all come into that area there... The Belubula River was part of a travel route and Songline. The headwaters and Kings Plains was the main gathering area before they [Wiradjuri men] took the boys onto Wahluu [Mount Panorama]." [(Uncle Bill Allen, Wiradjuri Elder and descendent of Wiradjuri Warrior Windradyne/Saturday, pers. comm. October 2019) as in OLALC 2020: 5].

#### Archaeological/Scientific Value

The scientific significance of AHIMS #44-5-0175 (Evans Plains Creek Tributary IF-01) is assessed as low. This site is described as having low scientific / archaeological significance based on the following values:

- The site represents a single artefact in a secondary context
- The artefact is not a formal tool type
- The site is not associated with archaeological deposits.

The determination of low scientific values is also because the site has little or no research potential and a very limited ability to inform researchers about the nature and extent of Aboriginal occupation in the area. The site is high representative of other sites in the region.

### Aesthetic Value

AHIMS #44-5-0175 (Evans Plains Creek Tributary IF-01) has been assessed as having low aesthetic value. The site has been recorded as such since the integrity of the sensory landscape has been altered in historic and modern times. Additionally, the artefact itself is not remarkable.

### Historic Value

The Aboriginal site (Evans Plains Creek Tributary IF-01 #44-5-0175) recorded does not have an apparent direct relationship to known historical Aboriginal sites (such as missions or massacre sites). It is possible that the area saw some of the earliest contact between Aboriginals and non-Aboriginal settlers, however, the Aboriginal site does not display evidence that it constitutes a 'contact' or 'post-contact' Aboriginal site (i.e. flaked glass, etc.). To that end, the site is assessed as having no historic value. Please note that this determination is only based on archaeological and known historic evidence. The RAPs consider all Aboriginal sites to be historic and add to the collective anthropological information and story of their people whether its pre- or post-colonial contact.

### Table 9-1: Aboriginal cultural heritage: significance assessment.

Site Name	Social or Cultural Value	Archaeological / Scientific Value	Aesthetic Value	Historic Value
Evans Plains Creek Tributary IF-01	High	Low	Low	Low

# 9.3 STATEMENT OF HERITAGE SIGNIFICANCE

The addendum study area has moderate heritage significance overall. The archaeological significance is limited as detailed in **Section 9.2**, however, several different tangible and intangible cultural values associated with the general area have been provided by the Aboriginal community.

# 9.4 AVOIDING AND MINIMISING HARM

# 9.4.1 Conserving significant Aboriginal cultural heritage

An object of the NPW Act is the 'conservation of objects places and features... of cultural value within the landscape, including... places, objects and features of significance to Aboriginal people' (s.2A(1(b)(i)).

As heritage professionals, OzArk, strives for good conservation outcomes. In particular, OzArk is primarily concerned with the conservation and protection of Aboriginal cultural heritage that is of significance to Aboriginal people.

Two primary objectives when managing harm to an Aboriginal object are:

- Impacts to significant Aboriginal objects and places should always be avoided wherever possible
- Where impacts to Aboriginal objects and places cannot be avoided, proposals should be amended so as to reduce the extent and severity of impacts to significant Aboriginal objects and places through the use of reasonable and feasible measures.

# 9.4.2 Opportunities to conserve Aboriginal cultural heritage values

# 9.4.3 Ecologically sustainable development principles

Ecologically sustainable development principles (ESD) (defined in s.6 of the *Protection of the Environment Administration Act 1991*) requires the integration of economic and environmental considerations (including cultural heritage) in the decision-making process. In regard to Aboriginal cultural heritage, ESD can be achieved by applying the principle of intergenerational equity and the precautionary principle.

# 9.4.3.1 Intergenerational equity

Intergenerational equity is the principle whereby the present generation should ensure the health, diversity, and productivity of the environment for the benefit of future generations.

In terms of Aboriginal heritage, intergenerational equity can be considered in terms of the cumulative impacts to Aboriginal objects and places in a region. If few Aboriginal objects and places remain in a region (for example, because of impacts under previous permits), fewer opportunities remain for future generations of Aboriginal people to enjoy the cultural benefits of those Aboriginal objects and places.

Information about the integrity, rarity or representativeness of the Aboriginal objects and places proposed to be impacted, and how they illustrate the occupation and use of land by Aboriginal people across the region, will be relevant to the consideration of intergenerational equity and the understanding of the cumulative impacts of the proposal.

Where there is uncertainty, the precautionary principle should also be followed.

# 9.4.3.2 The precautionary principle

The precautionary principle states that if there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing cost-effective measures to prevent environmental degradation.

In relation to Aboriginal cultural values, the precautionary principle should be guided by:

• The proposal involves a risk of serious or irreversible damage to Aboriginal objects or places or to the value of those objects or places

• There is uncertainty about the Aboriginal cultural heritage values or scientific or archaeological values, including in relation to the integrity, rarity or representativeness of the Aboriginal objects or places proposed to be impacted.

### 9.4.3.3 Principle of Integration

The Plan of Implementation of the World Summit on Sustainable Development held in Johannesburg, 2002, noted the need to "promote the integration of the three components of sustainable development- economic development, social development and environmental protection- as interdependent and mutually reinforcing pillars".

The principle of integration ensures mutual respect and reciprocity between economic and environmental considerations:

- Environmental considerations are to be integrated into economic and other development plans, programs, and projects and
- Development needs are to be taken into account in applying environmental objectives.

### 9.4.3.4 Applicability to the proposal

**Table 9-2** examines the application of ESD principles to the proposal. It is important to also consider the original heritage assessments in relation to the ESD principles and the proposal. While the results of the mine site (Landskape 2019), pipeline development (OzArk 2019) are also applicable, this report will only consider the results of the addendum Aboriginal heritage assessment. There is therefore one Aboriginal site with the potential to be impacted in the addendum study area.

ESD principle	Response
Avoiding and minimising harm	One Aboriginal site will be potentially impacted if the southern route is selected and it is not possible to reroute the pipeline in the southern route to avoid the isolated find.
The integration principle	The integration principle has been followed by the project as a robust understanding of environmental impacts will assist in determining the merits of the project.
The precautionary principle	The precautionary principle has been followed in that all landforms likely to contain Aboriginal objects were inspected. In addition, landforms not assessed as likely to contain Aboriginal objects were also assessed to ensure that a broad range of landforms were surveyed.
The intergenerational equity principle	The cumulative impacts on Aboriginal sites that may result from the project is considered to be low and would be mitigated by the ongoing program of archaeological recording and salvage recommended by 2019 assessments (Landskape 2019 and OzArk 2019).
	The proposal will not dimmish the intergenerational equity principle in regard to the cultural values of the addendum study area do not impact the ochre procurement location or the Belubula Headwater.
	The proposal impacts in regard to the cultural landscape expressed by the Bathurst Wars will be minimal as the pipeline will be underground and will not diminish the visual or aesthetic values of the landscape. No items associated with this historical event will be harmed by the proposal. As a result, all aspects that have a high cultural value by the Aboriginal community will be available for future generations to enjoy.

 Table 9-2: Application of ESD principles to the proposal.

# 9.5 LIKELY IMPACTS TO ABORIGINAL HERITAGE FROM THE PROPOSAL

**Table 9-3** presents a summary of potential impacts to Aboriginal cultural heritage associated with the addendum proposal depending on whether the northern or southern pipeline option is chosen for the development.

If the southern pipeline option is chosen, then AHIMS #44-5-0175 (Evans Plains Creek Tributary IF-01) is located inside the disturbance footprint and will be impacted (**Table 9-3**). However, if the northern pipeline option is chosen, then AHIMS #44-5-0175 (Evans Plains Creek Tributary IF-01) will not be impacted. See **Figure 7-4** for the location of the Aboriginal site in relation to the southern pipeline impact footprint.

A re-assessment of impacts by the entire pipeline corridor was also undertaken following the changes to the remainder of the pipeline corridor width in sections. There are no changes to the impacts as outlined in the original pipeline assessment (OzArk 2019: 80). This impact assessment is reproduced in **Table 9-4**. For further details regarding the sites and 2019 pipeline assessment see OzArk 2019.

During the ACHCRs, RAPs have raised concerns regarding the impacts of the proposal and the diminution of cultural values across the landscape. **Table 9-5** documents the cultural values and landscape features identified and the measures in place to avoid impact to these.

Site Name & Number	Type of Harm (Direct/Indirect / None)	Degree of Harm (Total/Partial / None)	Consequence of Harm (Total/Partial/No Loss of Value)	
Southern pipeline option				
Evans Plains Creek Tributary IF-1 44-5-0175	Direct	Total	Total	
Northern pipeline option				
Evans Plains Creek Tributary IF-1 44-5-0175	None	None	No loss of value	

#### Table 9-4: Aboriginal cultural heritage: impact assessment (reproduced OzArk 2019: 80).

Site Name & Number	Type of Harm (Direct/Indirect / None)	Degree of Harm (Total/Partial / None)	Consequence of Harm (Total/Partial/No Loss of Value)
Bathurst Bike Park IF-1 44-3-0221	None	None	No loss of value
Sunny Corner IF-1 44-3-0222	Direct	Total	Total
Sunny Corner IF-2 44-3-0223	Direct	Total	Total
Sunny Corner IF-3 44-3-0224	Direct	Total	Total
Sunny Corner OS-1 44-3-0225	Direct	Total	Total
Bald Hill IF-1 44-3-0229	Direct	Total	Total

Site Name & Number	Type of Harm (Direct/Indirect / None)	Degree of Harm (Total/Partial / None)	Consequence of Harm (Total/Partial/No Loss of Value)
Bald Hill IF-2 44-3-0228	Direct	Total	Total
CS SU4-A2 45-1-2723	None: with management	None	No loss of value
IV-IF-2 45-1-2548	Direct	Total	Total
IV-OS-5 45-1-2551	None: with management	None	No loss of value

# Table 9-5: Aboriginal cultural heritage values: impact assessment.

Landscape feature/sites	Measures in place to avoid harm	
Ochre procurement location         This site is outside the addendum pipeline and mine access road study a are no impacts proposed at this location.		
The Bathurst War Cultural Landscape	The Bathurst War Cultural Landscape extends across the Bathurst Plains and northwards towards Wellington and Mudgee. The addendum pipeline options intersect through this landscape south of Bathurst. The proposal will have a minimal impact on the overall cultural landscape, as impacts through this area are a narrow corridor for construction of an underground pipeline. Once the construction is finalised, the landscape which consists primarily of grazing or cropped paddocks, will return to how it currently is, including the aesthetics of the area.	
The Belulba Headwaters The Belubula Headwaters are located west of the mine access road and w directly impacted by it.		

# **10 MANAGEMENT OF ABORIGINAL CULTURAL HERITAGE SITES**

# **10.1 GENERAL MANAGEMENT PRINCIPLES**

Appropriate management of cultural heritage items is primarily determined based on their assessed significance as well as the likely impacts of the proposed development. **Section 9.2** and **Section 9.4** describe, respectively, the significance / potential of the recorded sites and the likely impacts of the development. The following management options are general principles, in terms of best practice and desired outcomes, rather than mitigation measures against individual site disturbance.

- <u>Avoid impact</u> by altering the development proposal or in this case by avoiding impact to a
  recorded Aboriginal site. If this can be done, then a suitable curtilage around the site must
  be provided to ensure its protection both during the short-term construction phase of
  development and in the long-term use of the area. If plans are altered, care must be taken
  to ensure that impacts do not occur to areas not previously assessed.
- If impact is unavoidable then appropriate management of the site/object will be ٠ determined through policies set out in an Aboriginal Cultural Heritage Management Plan (ACHMP). The ACHMP should include measures for site conservation, as well as detailing methods for the management of sites to be impacted. The management will depend on many factors including the assessed significance of the sites (Section 9.2). In certain instances, a site may have low archaeological, aesthetic, and historic values but moderate or high cultural value. In these cases, management is aimed to mitigate the loss of the cultural heritage values, rather than the loss of the scientific values. Sites of low scientific significance, such as an isolated find, could, from an archaeological perspective, be removed/destroyed with no further archaeological management being required. However, given the site's cultural value, further management in respect to these sites will be recommended here. For example, due to a site's cultural values, the local Aboriginal community may wish to collect or relocate artefacts, whether temporarily or permanently, and such management will form part of the ACHMP. The ACHMP will be developed in consultation between the proponent, RAPs and DPIE.

### **10.2** MANAGEMENT AND MITIGATION OF RECORDED ABORIGINAL SITES

### 10.2.1 Opportunities to conserve Aboriginal cultural heritage values

This addendum assessment has recorded one additional Aboriginal site within the study area. Due to the location of the site within the southern pipeline option corridor, it is possible if this pipeline option is chosen then the site will be impacted. However, if the northern pipeline option is chosen for the proposal, then the Aboriginal site will be avoided.

# 10.2.2 Management of potentially impacted Aboriginal sites

If the Aboriginal site, #44-5-0175 (Evans Plains Creek Tributary IF-01), will be impacted by the proposal, then it is recommended that the site be salvaged through the recording, temporary collection of the artefact during construction of the proposal and the subsequent relocation/replacement of the artefact back to the site in a safe location. This recommendation is made due to:

- The cultural value of these sites and their importance to the Aboriginal community
- The nature of the impacted sites (all are isolated finds or low-density artefact scatters)
- Being in landforms with high previous disturbance from a range of factors including erosion and land use practices
- The low archaeological values assigned to the sites preclude more intensive archaeological investigations
- Sites such as these have a limited ability to further inform the community about the history and culture of the area. While any potential research questions are limited, some information can nevertheless be gained.

For specific information on the management of potentially impacted Aboriginal sites identified in OzArk 2019, please see OzArk 2019: 83 (Section 9.2.2.1).

# 10.2.3 Management of identified Aboriginal cultural values

It is noted in **Table 9-5** that identified cultural values will not be impacted by the proposal. The ACHMP that will be developed in consultation with the RAPs will include appropriate protocols to be followed in the unlikely event that items associated with the Bathurst Wars be discovered during construction.

HISTORIC HERITAGE ASSESSMENT

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# 11 HISTORIC HERITAGE ASSESSMENT: INTRODUCTION

# 11.1 BRIEF DESCRIPTION OF THE PROPOSAL

Please refer to **Sections 1** and **2** for a description of the proposal and the environmental context of the study area.

# 11.2 RELEVANT LEGISLATION

### 11.2.1 State legislation

# Environmental Planning and Assessment Act 1979 (EP&A Act)

Please refer to **Section 3.3.1** for a description of the EP&A Act.

### Heritage Act 1977 (Heritage Act)

The *Heritage Act* 1977 (Heritage Act) is applicable to the current assessment. This Act established the Heritage Council of NSW. The Heritage Council's role is to advise the government on the protection of heritage assets, make listing recommendations to the Minister in relation to the State Heritage Register (SHR), and assess/approve/decline proposals involving modification to heritage items or places listed on the SHR. Most proposals involving modification are assessed under Section 60 of the Heritage Act.

Automatic protection is afforded to 'relics', defined as 'any deposit or material evidence relating to the settlement of the area that comprised New South Wales, not being Aboriginal settlement, and which holds state or local significance' (note: formerly the Act protected any 'relic' that was more than 50 years old. Now the age determination has been dropped from the Act and relics are protected according to their heritage significance assessment rather than purely on their age). Excavation of land on which it is known or where there is reasonable cause to suspect that 'relics' will be exposed, moved, destroyed, discovered or damaged is prohibited unless ordered under an excavation permit.

# 11.2.2 Commonwealth legislation

# Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)

Please refer to Section 3.3.2 for a description of the EPBC Act.

# 11.2.3 Applicability to the proposal

The current project will be assessed as an SSD under Division 4.7 of the EP&A Act.

Any items of local or state historical heritage significance within the study area are afforded legislative protection under the Heritage Act.

It is noted there are no Commonwealth or National heritage listed places within the study area, and as such, the heritage provisions of the EPBC Act do not apply.

# **11.3** HISTORIC HERITAGE ASSESSMENT OBJECTIVES

The current assessment will apply the Heritage Council's *Historical Archaeology Code of Practice* (Heritage Council 2006) in the completion of a historical heritage assessment, including field investigations, to meet the following objectives:

Objective One:	To identify whether historical heritage items or areas are, or are likely to
	be, present within the addendum study areas

- **<u>Objective Two</u>**: To assess the significance of any recorded historical heritage items or areas
- **<u>Objective Three</u>**: Determine whether the proposal is likely to cause harm to recorded historical heritage items or areas
- **<u>Objective Four</u>**: Provide management recommendations and options for mitigating impacts.

# **11.4 DATE OF HISTORIC HERITAGE ASSESSMENT**

The historic heritage assessment took place at the same time as the Aboriginal heritage assessment. Please refer to **Section 3.1** for the dates of the fieldwork.

# 11.5 OZARK INVOLVEMENT

The fieldwork and reporting of the historic heritage assessment are the same personnel involved with the Aboriginal heritage assessment. Please see **Section 3.2** for details.

# 12 HISTORIC HERITAGE ASSESSMENT: BACKGROUND

# 12.1 HISTORICAL BACKGROUND

Please see Landscape (2019: 26–32) and OzArk (2019: 90–94) for a brief historical background of the areas surrounding the project.

# 12.2 LOCAL CONTEXT

# 12.2.1 Desktop database searches conducted

A desktop search was conducted on the following databases to identify any potential previously recorded heritage within the study area. The results of this search are summarised in **Table 12-1**.

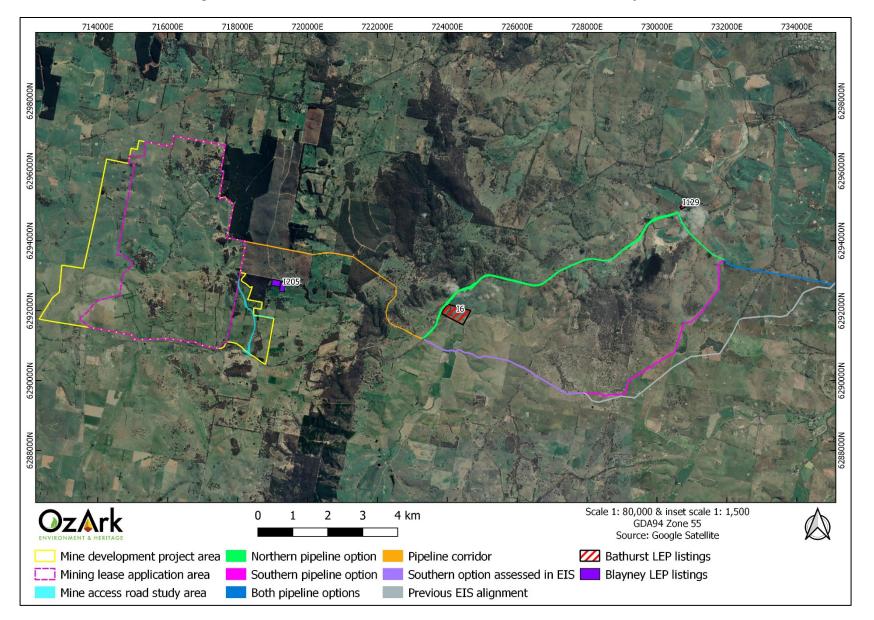
Name of Database Searched	Date of Search	Type of Search	Comment
National and Commonwealth Heritage Listings	16 June 2020	Blayney & Bathurst LGAs	No National or Commonwealth heritage listings within 5 km of mine access road or pipeline options.
State Heritage Listings	16 June 2020	Blayney & Bathurst LGAs	No state heritage listings within 5 km of mine access road or pipeline options
LEP	16 June 2020	Blayney & Bathurst LGAs	Bathurst LEP: two heritage listings within 1 km of the pipeline options.
			Blayney LEP: one heritage listing within 1 km of the mine access road.

 Table 12-1: Historic heritage: desktop-database search results.

A search of the Heritage Council of NSW administered heritage databases and the Blayney and Bathurst LEPs returned three records for historical heritage sites within 1 km of either the mine access road or the two pipeline options (**Table 12-2** and **Figure 12-1**).Two of the items listed in **Table 12-2**, I205 Woolshed and I6 Bathampton Homestead were included in the original assessment (OzArk 2019).

Table 12-2: Historic LEP listings within 1 km of mine access road or pipeline options.

LEP	Item number, name and location	Brief description	Distance from addendum study area
Blayney LEP 2012	I205 – Woolshed 22 Pounds Lane Lot 42 DP750413	None available	880 m northwest of the mine access road
Bathurst LEP 2014	I6 - Bathampton Homestead, stables and brick barn 2021 Mid-Western Highway Part Lot 300, DP 1144793	Brick homestead and stables. Presumably designed by Edward Gell, leading architect of period. High level of original integrity. Association with Gilmour and Rutherford families. Large brick barn (convict built) is one of oldest buildings in district still standing.	134 m northwest of the northern pipeline option.
Bathurst LEP 2014	I129 - Binalong (former university building) 1216 Mid-Western Highway Lot 1, DP 856795	Built c.1948 as teachers' accommodation. Readapted as office space and hospital at Sturt University. Relocated in 1990s to become a country house at current location. Well-presented and re-adapted. Timber framed government constructed building.	40 m east of northern pipeline option. On opposite side of Mid- Western Highway to the northern pipeline option.





# 12.3 SURVEY METHODOLOGY

Standard archaeological field survey and recording methods were employed in this study (Burke & Smith 2004). The historical heritage assessment of the study area was completed concurrently with the Aboriginal cultural heritage assessment. See **Section 7.1** for further details.

# **12.4 PROJECT CONSTRAINTS**

There were no significant constraints in completing the archaeological assessment of the study area. GSV posed the greatest constraint during field inspection (see **Section 7.3**), however, not to the extent that the efficacy of the survey was unduly diminished.

# 13 RESULTS OF HISTORIC HERITAGE ASSESSMENT

# 13.1 HISTORIC HERITAGE SITES

Two historic heritage sites were recorded during the survey of the mine access road and the two pipeline options.

# Historic Survey Blaze Tree (HS-01)

Site Type: Historic Survey Blaze Tree

GPS Coordinates: 718466 E / 6291886 N (GDA94 Zone 55)

**Location of Site**: The site is located approximately 9.6 km northeast of Blayney township. The site is located in a parcel of crown land (Lot 153 DP750413) adjacent to the proposed mine access road at the western end of Fleetwood Lane (**Figure 13-2**).

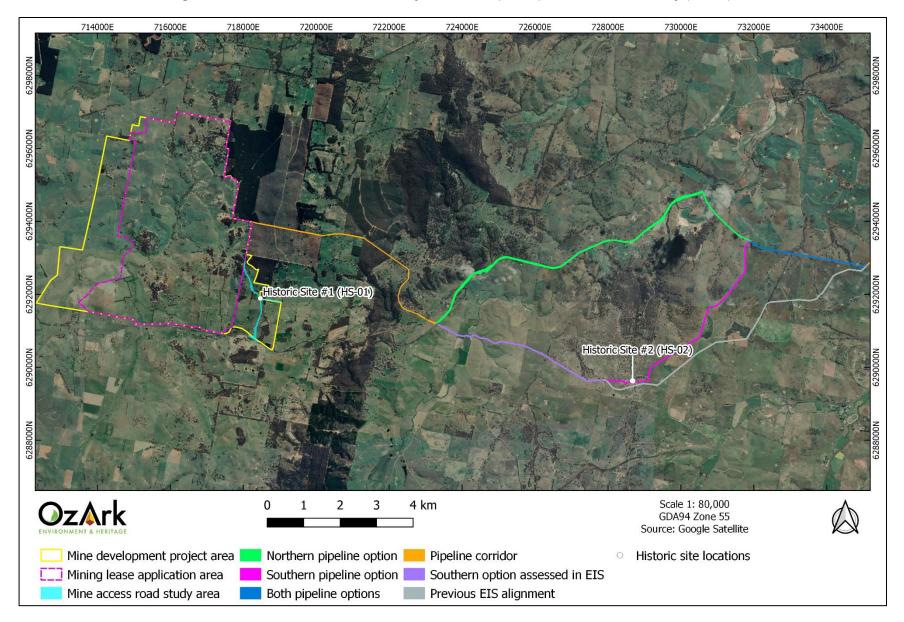
**Description of Site**: The site consists of a single survey blaze tree with one survey scar on the trunk facing southwest. The details of the survey scar are summarized in **Table 13-1**. The scar itself has been damaged after the scarring event with a large split down the east side of the tree which has resulted in part of the scar separating from the trunk (**Figure 13-1**). Carved into the survey scar is an arrow pointing roughly northeast and the numbers '153' and '147'. The tree is still alive. Surrounding vegetation comprised native regrowth. Disturbances include erosion. Soils consisted of brown loam.

Scar attributes	Details	
Shape	Originally scar would have been an oval shape	
Direction scar faces	Southwest	
Size (cm)	Length: 60 cm Width: 40 cm Depth: 5-10 cm Regrowth: 5-10 cm	
Height of scar from ground surface (cm)	Originally the base of the scar would have been approximately 40 cm from the ground surface. Now the scar extends to base of trunk.	
Approximate circumference of tree (m)	3 m	
Approximate height of tree (m)	Approximately 30–35 m	
Tree condition (i.e. alive, dead, damaged, etc.)	Tree is in still alive.	
Additional information	The original face of the scar has steel axe marks along the bottom. Face of scar is weathered. Part of scar (east side and bottom) has come away from trunk, likely to due to branch tear. Original dimensions of scar able to be seen.	

### Table 13-1: Historic Survey Blaze Tree (HS-01).Scar attributes.



Figure 13-1: Historic Survey Blaze Tree (HS-01). View of site and scar.





# Historic Chimney and associated sheds (HS-02)

Site Type: Dry stone chimney

GPS Coordinates: 718466 E / 6291886 N (GDA94 Zone 55)

**Location of Site**: The site is located approximately 14.8 km southwest of Bathurst and 4 km south of the Mid-Western Highway (**Figure 13-2**). The site is 85 m west of a tributary of the Evans Plains Creek.

**Description of Site**: The site consists of a stone and brick chimney, a large shed, a smaller shed adjacent to the chimney, two water tanks and some brick rubble partially buried on the western side of the complex (**Figure 13-3**). The features of interest are the stone and brick chimney and the partially buried rubble.

The style of the chimney is random rubble and bonded together by mortar or concrete (Connah 1988). The top of the chimney is finished with bricks (**Figure 13-3**). The chimney itself is in good condition, and the adjacent sheds appear to be sturdy and not in imminent danger of collapse. Both sheds have timber framework and corrugated iron walls and roofs. The size of the large shed is approximately 11 m by 14 m, the smaller shed is approximately 7.5 m by 4 m and the chimney is approximately 1.5 m by 60 centimetres (cm).

There are also old fences directly to the east of the larger shed. These were possibly used as holding yards previously. The terrace where the HS-02 complex is located has also undergone significant ground disturbance, as it shows where previously tracks have been cut into ground surface (**Figure 13-4**). The terrace is unlikely to contain *in situ* archaeological deposits.



Figure 13-3: Historic Chimney (HS-02). View of site and chimney.

Figure 13-4: Terrace adjacent to Historic Chimney and associated sheds (HS-02) showing existing track (blue) and old tracks and cuttings (red).



# **13.2** ASSESSMENT OF HISTORIC HERITAGE SIGNIFICANCE

# 13.2.1 Assessment of significance—general principles

The current assessment will evaluate the heritage significance of the historic heritage sites identified within the study area in accordance with the NSW Heritage Office's publication *Assessing Heritage Significance* (Heritage Office 2001). A historic heritage site must satisfy at minimum one of the following criteria to be assessed as having heritage significance:

- **Criterion (a):** An item is important in the course, or pattern, of NSW's cultural or natural history (or the cultural or natural history of the local area)
- **Criterion (b):** An item has a strong or special association with the life or works of a person, or group of persons, of importance in NSW's cultural or natural history (or the cultural or natural history of the local area)
- **Criterion (c):** An item is important in demonstrating aesthetic characteristics and/or a high degree of creative or technical achievement in NSW (or the local area)
- **Criterion (d):** An item has strong or special association with a particular community or cultural group in NSW (or the local area) for social, cultural or spiritual reasons

- **Criterion (e):** An item has potential to yield information that will contribute to an understanding of NSW's cultural or natural history (or the cultural or natural history of the local area)
- **Criterion (f):** An item possesses uncommon, rare or endangered aspects of NSW's cultural or natural history (or the cultural or natural history of the local area)
- **Criterion (g):** An item is important in demonstrating the principal characteristics of a class of NSW's cultural or natural places; or cultural or natural environments (or a class of the local area's cultural or natural places; or cultural or natural environments).

Significance assessments are carried out on the basis that decisions about the future of heritage items must be informed by an understanding of these items' heritage values. The *Australia ICOMOS Burra Charter* (Burra Charter 2013) recognises four categories of heritage value: historic, aesthetic, scientific, and social significance

Items are categorised as having local or state level, or no significance. The level of significance is assessed in accordance with the geographical extent of the item's value. An item of state significance is one that is important to the people of NSW whilst an item of local significance is one that is principally important to the people of a specific LGA.

# 13.2.2 Assessment of significance of historic items

**Table 13-2** details the assessed significance of recorded historic heritage items in accordance with the NSW Heritage Office guidelines and the *Burra Charter*. Both historic sites recorded during the survey do not have local or state significance.

Site Name	Level of Significance
Historic Survey Blaze Tree (HS-01)	Nil
Historic Chimney and associated sheds (HS-02)	Nil

# Historic Survey Blaze Tree (HS-01)

**Table 13-3** assesses the Historic Survey Blaze Tree (HS-01) against the assessment criteria established in the Heritage Office publication, *Assessing Heritage Significance* (Heritage Office 2001).

Table 13-3: Assessment of heritage significance –	Historic Survey Blaze Tree (HS-01).
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Criteria	Comments	Significance
а	The site does not show evidence of a significant human activity.	Nil
b	There are no known associations of the sites with a significant event, person or group of persons.	Nil
с	The site is typical of survey marker trees from the late $19^{th}$ Century to the mid- $20^{th}$ Century.	Nil

Criteria	Comments	Significance
d	There are no known associations of the site with an identifiable group or a community's sense of place.	Nil
е	The site has little potential for further scientific and/or archaeological information. It does not have the qualities of an important benchmark or reference site or type.	Nil
f	The site is not a rare site type for the Blayney region or NSW.	Nil
g	The site does not represent well the characteristics of the site type.	Nil

# Historic Chimney and associated sheds (HS-02)

**Table 13-4** assesses the Historic Chimney and associated sheds (HS-02) against the assessment criteria established in the Heritage Office publication, *Assessing Heritage Significance* (Heritage Office 2001).

 Table 13-4: Assessment of heritage significance – Historic Chimney and associated sheds (HS-02).

Criteria	Comments	Significance
а	The site does not show evidence of a significant human activity.	Nil
b	There are no known associations of the sites with a significant event, person or group of persons	
С	The site is typical of chimneys and farm sheds from the late 19 <sup>th</sup> Century to the mid-20 <sup>th</sup> Century.	
d	There are no known associations of the site with an identifiable group or a community's sense of place.         Nil	
е	The site has little potential for further scientific and/or archaeological information. It does not have the qualities of an important benchmark or reference site or type.	Nil
f	The site is not a rare site type for the Blayney region or NSW.	Nil
g	The site does not represent well the characteristics of the site type.	Nil

# 13.3 DISCUSSION

Historic Survey Blaze Tree (HS-01) was a survey marker. However, as outlined in **Table 13-3** the historical feature does not meet the criteria for local, state or national significance. Landskape (2019: 86) recorded one survey blaze tree (MGP-H7) during the assessment of the McPhillamys Mine site. The Historic Survey Blaze Tree (HS-01) is recorded approximately 2.7 km east of MGP-H7. HS-01 is a different style of survey blaze tree, having been used to indicate the southwest boundary of the crown land, instead of MGP-H7's purpose of delineating the boundary of a mining lease.

The Historic chimney and associated sheds (HS-02) are common for the regional area. The chimney may have been associated with an earlier hut or workshop which has been covered over by the existing sheds.

# **13.4** LIKELY IMPACTS TO HISTORIC HERITAGE FROM THE PROPOSAL

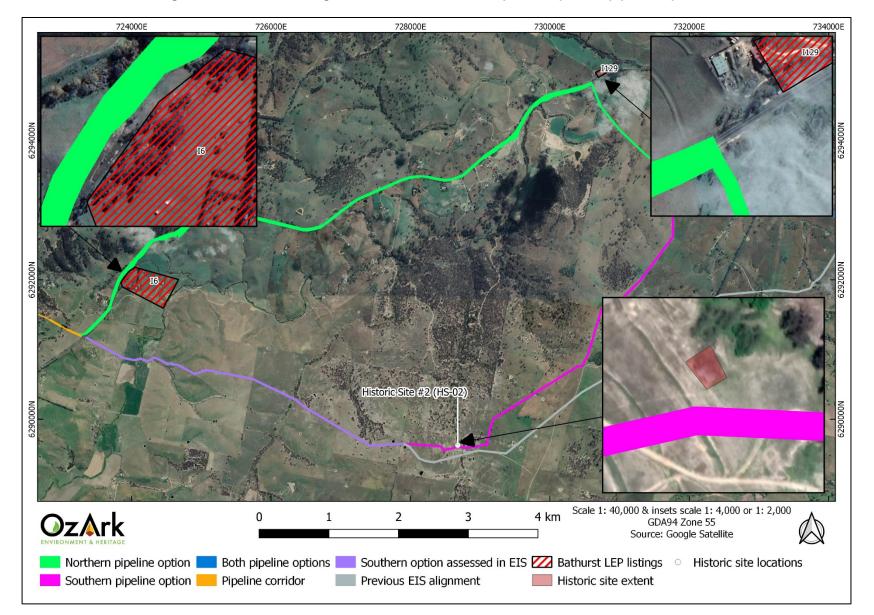
**Table 13-5** details the anticipated impacts to historic heritage from the proposal. The Historic Survey Blaze Tree (HS-01) is in a parcel of crown land adjacent to where the proposed mine

access road is situated. It is outside the corridor of the proposed road and will not be impacted. The Historic chimney and associated sheds (HS-02) is approximately 17 m north of the pipeline corridor and will not be impacted by the proposal.

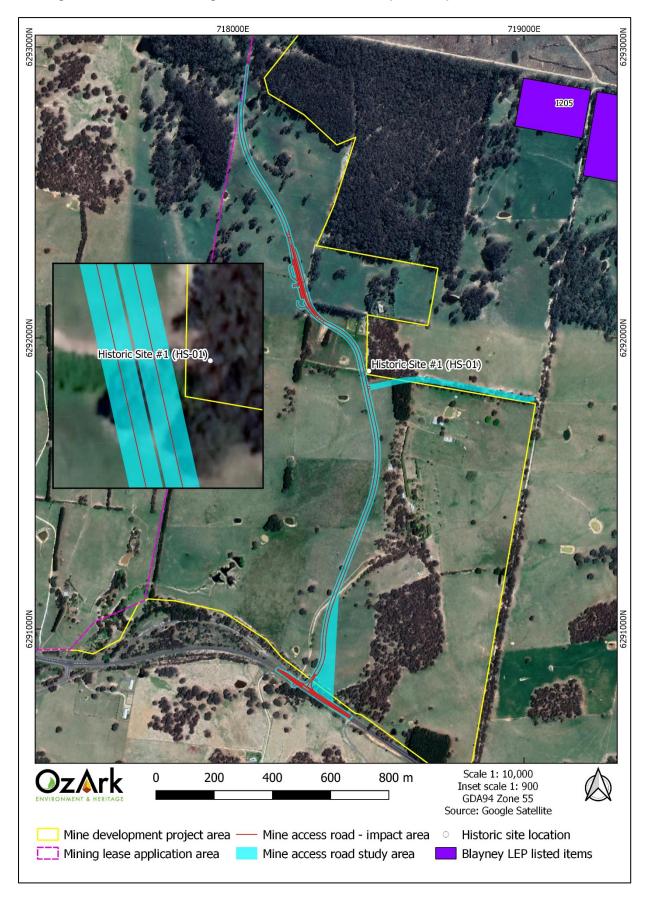
None of the historic LEP listings (see **Section 12.2.1** and **Table 12-2**) will be impacted by the proposal. **Figure 13-5** and **Figure 13-6** show the location of the historic LEP listings and recorded historic sites in relation to the impact footprint for the mine access road and pipeline options.

Survey Area	Site Name	Will this site be impacted?
Mine access road Survey area 1	Historic Survey Blaze Tree (HS-01)	No
Southern pipeline option Survey area 8	Historic Chimney and associated sheds (HS-02)	No

#### Table 13-5: Historic heritage: impact assessment.









## 14 MANAGEMENT AND MITIGATION: HISTORIC HERITAGE

### 14.1 GENERAL PRINCIPLES FOR THE MANAGEMENT OF HISTORIC SITES

Appropriate management of heritage items is primarily determined based on their assessed significance as well as the likely impacts of the proposed development.

In terms of best practice and desired outcomes, avoiding impact to any historical item is a preferred outcome, however, where a historical site has been assessed as having no heritage value, impacts to these items does not require any legislated mitigation.

## **14.2** MANAGEMENT AND MITIGATION OF RECORDED HISTORIC SITES

Two historic sites, a survey blaze tree (HS-01) and a chimney and associated shed complex (HS-02) were recorded in proximity to the mine access road or the southern pipeline option. Neither site is inside the impact footprint and for either the mine access road or the southern pipeline option (**Figure 13-5** and **Figure 13-6**).

Following development consent of the project, impacts on historical heritage would be managed through a *Historic Heritage Management Plan* (HHMP) which is to be agreed to by the proponent, local councils and DPIE. The archaeological management recommendations within this report would normally be incorporated into the HHMP that is usually formulated following development consent. The HHMP will also include an unanticipated finds protocol.

As Bathampton Homestead and Binalong are adjacent or close to the northern pipeline option, care should be taken to remain outside the curtilages for these local heritage listings if this pipeline option is chosen. To avoid inadvertent impacts, the curtilages of Bathampton Homestead and Binalong should be marked as 'no-go zones' on the construction management plans and all contractors made aware of the two locations (see **Figure 13-5**).

## **15 RECOMMENDATIONS**

## **15.1 ABORIGINAL CULTURAL HERITAGE**

Under Section 89A of the NPW Act it is mandatory that all newly-recorded Aboriginal sites be registered with AHIMS. As a professional in the field of cultural heritage management it is the responsibility of OzArk to ensure this process is undertaken.

To this end it is noted that one Aboriginal site was recorded during the assessment.

The following recommendations are made based on these impacts and with regard to:

- Legal requirements under the terms of the NPW Act whereby it is illegal to damage, deface or destroy an Aboriginal place or object without the prior written consent of Heritage NSW
- The findings of the current investigations undertaken within the study area including the identified cultural values associated with an ochre procurement site, the Belubula headwaters landscape, and the cultural landscape associated with the Bathurst Wars
- The interests of the Aboriginal community.

Recommendations concerning Aboriginal cultural values within the study area are as follows:

- This report should be read in conjunction with Landskape 2019 and OzArk 2019 (Appendix P and Appendix Z of the McPhillamys Gold Project EIS). Recommendations in these reports remain applicable. It should also be read in conjunction with Landskape 2020 (Appendix O of the McPhillamys Gold Project Amendment Report).
- Should development consent for the addendum project be granted, archaeological management strategies to manage and mitigate the impact of the proposed works are set out in Section 9.2. All sites within the impact footprint for the pipeline development should be salvaged by a surface collection of all visible artefacts (see OzArk 2019, Section 9.2.2.1).
- 3. The salvage works will include the mapping, analysis and collection of all surface artefacts at the affected sites. Results will be included in a report to preserve the data in a useable form and the relevant AHIMS site cards will be updated accordingly.
- 4. All land-disturbing activities must be confined to within the assessed study area. Should the parameters of the proposed work extend beyond this, then further archaeological assessment may be required.
- 5. Following development consent of the project, an Aboriginal Heritage Impact Permit (AHIP) will not be required for impacts to cultural heritage, so long as the impact accords with the terms and conditions of the consent. Instead, impacts on Aboriginal heritage would be managed through an ACHMP which is to be agreed to by the proponent, RAPs and the DPIE. The archaeological management recommendations within this report

would normally be incorporated into the ACHMP that is usually formulated following development consent. The ACHMP will also include an unanticipated finds protocol, unanticipated skeletal remains protocol and long-term management of any artefacts. The ACHMP should also include a protocol should tangible evidence associated with the Bathurst Wars be noted during construction to ensure that any such evidence be appropriately managed.

## **15.2 HISTORIC HERITAGE**

The following recommendations are made based on the impacts associated with the proposal and with regard to:

- Legal requirements under the terms of the Heritage Act
- Guidelines presented in the Burra Charter
- The findings of the current assessment
- The interests of the local community.

Recommendations concerning the historic values within study area are as follows.

- This report should be read in conjunction with Landskape 2019 and OzArk 2019 (Appendix P and Appendix Z of the McPhillamys Gold Project EIS). Recommendations in these reports remain applicable. It should also be read in conjunction with Landskape 2020 (Appendix O of the McPhillamys Gold Project Amendment Report)
- To avoid inadvertent impacts, the curtilages of Bathampton Homestead and Binalong should be marked as 'no-go zones' on the construction management plans and all contractors made aware of the two locations (see Figure 13-5).
- 8. Should development consent for the project be granted, archaeological management strategies to manage and mitigate the impact of the pipeline development component of the project are set out in **Section 13.2**.
- 9. To avoid the potential for harm to historic objects on unassessed adjacent landforms, all ground surface disturbing activities must be confined to the assessed study area.
- 10. Following development consent of the project, impacts on historical heritage would be managed through a *Historic Heritage Management Plan* (HHMP) which is to be agreed to by the proponent, local councils and DPIE. The archaeological management recommendations within this report would normally be incorporated into the HHMP that is usually formulated following development consent. The HHMP will also include an unanticipated finds protocol.

## REFERENCES

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Burke & Smith 2004	Burke, H. and Smith, C. 2004. <i>The Archaeologist's Field Handbook</i> , Blackwell, Oxford.
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Connah 1988	Connah, G. 1988. <i>The Archaeology of Australia's History</i> . Cambridge University Press.
Connor 2005	Connor, J. 2005. <i>Australian Frontier Wars</i> . University of New South Wales: Sydney.
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DECCW 2010b	Department of Environment, Climate Change and Water, Sydney (now OEH). Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010.
Elder 2003	Elder, B. 2003. <i>Blood on the Wattle: Massacres and maltreatment of Aboriginal Australians since 1788</i> [third edition]. New Holland Australia: Sydney.
EMM 2019	EMM. 2019. <i>Pipeline Water Assessment: McPhillamys Gold Project</i> . Report to LFB Resources NL.
EMM 2020	EMM. 2020. <i>McPhillamys Gold Project Addendum Report</i> . Report to LFB Resources NL.
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Kelton 2000	Kelton J. 2002. <i>An archaeological study and heritage assessment of the proposed Mid-Western Highway realignment, near Kings Plains, between Bathurst and Blayney</i> . Report to PPK Environmental and Infrastructure Pty Ltd.
Landskape 2019	Landskape. 2019. Appendix P: McPhillamys Gold Project Aboriginal and Historical Cultural Heritage Assessment. Report to Regis Resources Ltd.

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OEH 2011	Office of Environment and Heritage 2011. <i>Guide to investigating,</i> assessing and reporting on Aboriginal cultural heritage in NSW.
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Pearson 1984	Pearson, M. 1984. Bathurst Plains and Beyond: European Colonisation and Aboriginal Resistance. Aboriginal History 8(1): 63–79.
Pickering 1980	Pickering MP. 1980. <i>An Archaeological survey of the proposed electricity commission transmission line between Bathurst-Ragland-Mount Panorama</i> . Report to New South Wales National Parks & Wildlife Services.
Roberts 1995	Roberts D. 1995. <i>Bells Falls Massacre and Bathurst's History of Violence: Local Tradition and Australian Historiography.</i> Australian Historical Studies 26(105):615-633.
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SSM 2019	Sustainable Soils Management Pty Ltd. 2019. <i>Appendix H: McPhillamys Gold Project: Land Capability and Soil Assessment</i> . Report to Regis Resources Ltd.

# APPENDIX 1: CONSULTATION LOG AND ACHCR DOCUMENTATION

## Consultation Log: Addendum McPhillamys ACHAR

Addendu	m Consultation commenced		
29.4.20	Bathurst Local Aboriginal Land Council	Rebecca Hardman (RH) sent Addendum Survey Methodology. Feedback ends 13.5.20	Email
29.4.20	Dhuuluu-Yala Aboriginal Corporation	RH sent Addendum Survey Methodology. Feedback ends 13.5.20	Email
29.4.20	Gundungurra Aboriginal Heritage Association Inc	RH sent Addendum Survey Methodology. Feedback ends 13.5.20	Email
29.4.20	Gundungurra Tribal Council Aboriginal Corporation	RH sent Addendum Survey Methodology. Feedback ends 13.5.20	Email
29.4.20	Murra Bidgee Mullangari Aboriginal Corporation	RH sent Addendum Survey Methodology. Feedback ends 13.5.20	Email
29.4.20	Wiradyuri Traditional Owners Central West Aboriginal Corporation	RH sent Addendum Survey Methodology. Feedback ends 13.5.20	Email
29.4.20	Neville and Region Landcare	RH sent Addendum Survey Methodology. Feedback ends 13.5.20	Email
29.4.20	Wellington Valley Wiradjuri Aboriginal Corporation	RH sent Addendum Survey Methodology. Feedback ends 13.5.20	Email
29.4.20	Gunjeewong Cultural Heritage Aboriginal Corporation	RH sent Addendum Survey Methodology. Feedback ends 13.5.20	Email
29.4.20	Muragadi Heritage Indigenous Corporation	RH sent Addendum Survey Methodology. Feedback ends 13.5.20	Email
29.4.20	Warrabinga	RH sent Addendum Survey Methodology. Feedback ends 13.5.20	Email
29.4.20	Orange Local Aboriginal Land Council	RH sent Addendum Survey Methodology. Feedback ends 13.5.20	Email
29.4.20	Muragadi Heritage Indigenous Corporation	RH received email: Just wondering when the survey is being done.	Email
29.4.20	Muragadi Heritage Indigenous Corporation	RH responded: At this stage survey dates and what groups will be involved has not yet been determined.	Email
29.4.20	Muragadi Heritage Indigenous Corporation	RH received email: Okay please keep me updated, I have noticed that the Covid 19 restrictions are being reduced and so long as everyone follows the Covid19 safety procedure i.e. constructions workers, coles employees, Woolworths employees, service station employees are still working, then RAPS should be involved in the projects surveying	Email
29.4.20	Murra Bidgee Mullangari Aboriginal Corporation	RH received phone call from Darleen, she wants proponents contact details	Phone
8.5.20	Wellington Valley Wiradjuri Aboriginal Corporation	RH received feedback: WVWAC do not have any concerns regards to the proposed survey areas, as long as all surface pedestrian surveys are conducted preferably with RAP's present especially within 200m of creeks and natural drainage.	Email
11.5.20	Wellington Valley Wiradjuri	Please advise as information becomes available RH thanked Brad	Email
	Aboriginal Corporation		
12.6.20	Orange Local Aboriginal Land Council	RH sent invite to fieldwork for mine access road. RSVP 17.6.20	Email
12.6.20	Orange Local Aboriginal Land Council	RH received response: Thank you for the invitation. OLALC will be available, could you please liaise with Lisa Paton as she will be the one who organises staff to attend.	Email

		Just for future reference. The email olalc@bigpond.com is no longer in use, could you remove from your system? You may wish to replace with: reception@olalc.com.au	
17.6.20	Orange Local Aboriginal Land Council	Alyce Cameron (AC) sent email with Regis paperwork for site officer who will be doing fieldwork on Monday 22 June 2020 to complete. Also notified that the meeting place has been changed to Regis Blayney office (57 Adelaide Street).	Email
17.6.20	Orange Local Aboriginal Land Council	AC received email from Lisa Paton confirming that site officer is available for fieldwork on Monday 22 June 2020.	Email
17.6.20	Orange Local Aboriginal Land Council	AC forwarded Chris Roach's email to Lisa Paton so as to send completed Regis forms back to.	Email
17.6.20	Orange Local Aboriginal Land Council	Lisa Paton replied saying was getting everything organised.	Email
19.6.20	Orange Local Aboriginal Land Council	Lisa Paton replied to AC saying; Ian has already completed the Regis induction please see attached Site Induction card and drivers licence attached, I have got the forms you sent through filled in again although Regis should already have them. Do you want me to send the forms I have through?	Email
22.6.20	Orange Local Aboriginal Land Council	Lisa rang OzArk office to confirm whether fieldwork was going ahead due to bad weather conditions.	Phone
22.6.20	Orange Local Aboriginal Land Council	AC rang Lisa back. No, fieldwork cancelled for the day, but will take place on Tuesday 23 June instead.	Phone
23.6.20	Orange Local Aboriginal Land Council	Ian Sutherland, site officer for Orange LALC, attended the mine access road survey.	In person
26.8.20	Bathurst Local Aboriginal Land Council	RH sent stage 4 Addendum. Feedback ends 23.9.20	Email
26.8.20	Dhuuluu-Yala Aboriginal Corporation	RH sent stage 4 Addendum. Feedback ends 23.9.20	Email
26.8.20	Gundungurra Aboriginal Heritage Association Inc	RH sent stage 4 Addendum. Feedback ends 23.9.20	Email
26.8.20	Gundungurra Tribal Council Aboriginal Corporation	RH sent stage 4 Addendum. Feedback ends 23.9.20	Email
26.8.20	Murra Bidgee Mullangari Aboriginal Corporation	RH sent stage 4 Addendum. Feedback ends 23.9.20	Email
26.8.20	Wiradyuri Traditional Owners Central West Aboriginal Corporation	RH sent stage 4 Addendum. Feedback ends 23.9.20	Email
26.8.20	Neville and Region Landcare	RH sent stage 4 Addendum. Feedback ends 23.9.20	Email
26.8.20	Wellington Valley Wiradjuri Aboriginal Corporation	RH sent stage 4 Addendum. Feedback ends 23.9.20	Email
26.8.20	Gunjeewong Cultural Heritage Aboriginal Corporation	RH sent stage 4 Addendum. Feedback ends 23.9.20	Email
26.8.20	Muragadi Heritage Indigenous Corporation	RH sent stage 4 Addendum. Feedback ends 23.9.20	Email
26.8.20	Warrabinga	RH sent stage 4 Addendum. Feedback ends 23.9.20	Email
26.8.20	Orange Local Aboriginal Land Council	RH sent stage 4 Addendum. Feedback ends 23.9.20	Email
27.8.20	Murra Bidgee Mullangari Aboriginal Corporation	RH received feedback: I have read the project information and addendum ACHAR for the proposed McPhillamys Gold Project Mine access road and pipeline options, i endorse the recommendations made	Email
27.8.20	Murra Bidgee Mullangari Aboriginal Corporation	RH thanked Darleen	Email
11.9.20	Wellington Valley Wiradjuri Aboriginal Corporation	RH received feedback and sent back email thanking for response.	Email

### Addendum Stage 2/3 example letter and the assessment methodology

	OzArk Enviro	nment & Heritage	ABN 59 104 582 35
ENVIRONMENT & HERITAGE	Dubbo Queanbeyan Newcastle	T: 02 6882 0118 enquiry@ozarkehm.com.au www.ozarkehm.com.au	145 Wingewarra St PO Box 2069 DUBBO NSW 2830
29 April 2020			
Members Orange Local Aboriginal Land Cour PO Box 10 Orange NSW 2800 CEO@olalc.com.au james.riley@olalc.com.au	ncil		
	ADDENDUM SURVEY		
Dear Members,			
OzArk Environment & Heritage (Oz/			
addendum survey area for the McI Mine Project area. In 2019, OzArk completed Aborigin Pipeline and Landskape completed of an <i>Environmental Impact State</i> completed exhibition on 24 October	nal and historical archa the heritage assessm ement (EIS) which w	aeological reports for the Mo lents of Mine Project Area. E	cPhillamys Gold Project 3oth reports formed part
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#### 1 METHODS

The Aboriginal cultural heritage addendum assessment will be undertaken in accordance with the *Code of Practice for the Investigation of Aboriginal Objects in New South Wales* (Code of Practice; DECCW 2010) and the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (OEH 2011).

The field assessment will include survey of the three pipeline realignment options (see **Figure 2-1**) and the revised site access within the Mine Project area (to the mining lease application boundary) (see **Figure 2-3**). The survey methodology will focus on landforms with increased archaeological sensitivity that have not been previously disturbed, as well as mature, remnant vegetation.

#### 1.1 PIPELINE ALIGNMENT OPTIONS

There are three potential pipeline realignment options. The feasibility of each option is currently being considered by Regis. The addendum survey and report will include Option Two and either Option One **or** Option Three.

The three pipeline realignment options are detailed below:

- Option One is 9.4 km long and crosses Spring Creek and two minor tributaries or drainage lines.
   Based on aerial imagery, the alignment is predominately through pastoral paddocks used for stock grazing. Many of the paddocks have had contour banks constructed within them.
- Option Two is 19.3 km long, with 6.6 km of the alignment within the road corridor of Hen and Chicken Lane, and the remaining, 12.7 km in the road corridor of the Mid-Western Highway.
- Option Three is 14.3 km long, with 9 km of the alignment within the road corridor of the Mid-West Highway, and 5.3 km through pastoral paddocks used for stock and grazing. The alignment will cross Spring Creek and Evans Plains Creek. Many of the paddocks have had contour banks constructed within them.

The methodology for the addendum pipeline alignments will follow the same methods used for the original survey (and detailed in OzArk 2019: *Aboriginal Cultural Heritage Assessment Report: McPhillamys Gold Project Pipeline*).

The entirety of Option One will be surveyed (9.4 km) as this alignment option does not follow existing roads and crosses Spring Creek and two minor tributaries or drainage lines.

Given that Option Two is within existing road corridors, and based on OzArk's knowledge of the area, the assessment in some portions will only require documentation to demonstrate levels of disturbance, clearance etc., while other portions may require pedestrian survey, i.e. near waterways or where there is mature vegetation.

The section of Option Three through paddocks will be surveyed completely (5.3 km) as this section of the alignment option does not follow existing roads and crosses Spring Creek, Evans Plains Creek and two minor tributaries or drainage lines. The remainder of Option Three is the same alignment as Option Two.

The addendum relating to the pipeline alignment and proposed pump station at Pipers Creek Flat is shown in **Figure 2-2**. This area was surveyed with adequate coverage during the original survey and is not required to have further survey undertaken at this location.

Addendum Survey Methodology: McPhillamys Gold Project Pipeline

Page 2

#### 1.2 ACCESS ROAD TO MINE PROJECT AREA

The field assessment will include survey of the proposed access road from the Mid-Western Highway to the mining lease application boundary. **Figure 2-3** shows the proposed access roads.

• The main access road is approximately 4.7 km from the Mine Site to the Mid-Western Highway. There is an additional 500 m to connect this main access road to Fleetwood Lane.

The entirety of the new proposed access road will be surveyed (5 km). The access road from the Mid-Western Highway to the mining lease application area is through pastoral paddocks which appear to have been used for grazing. OzArk is aware that a number of Aboriginal sites were recorded during the Mine Development heritage assessment (see Landskape 2019: *McPhillamys Gold Project: Aboriginal and Historical Cultural Heritage Assessment*), and any areas of the access road which are on the same or similar landforms to these sites will be extensively surveyed within the proposed road corridor.

#### 1.3 COVID-19 RESTRICTIONS

Due to the ongoing COVID-19 pandemic, state government legislation regarding social distancing, and landowner requirements / restrictions around vehicle movements for certain areas, the logistics surrounding the survey are still being discussed.

If any Aboriginal sites are recorded during the addendum survey that are likely to be harmed, then a site visit can be undertaken including RAPs at a later date once social distancing rules have been relaxed or removed.

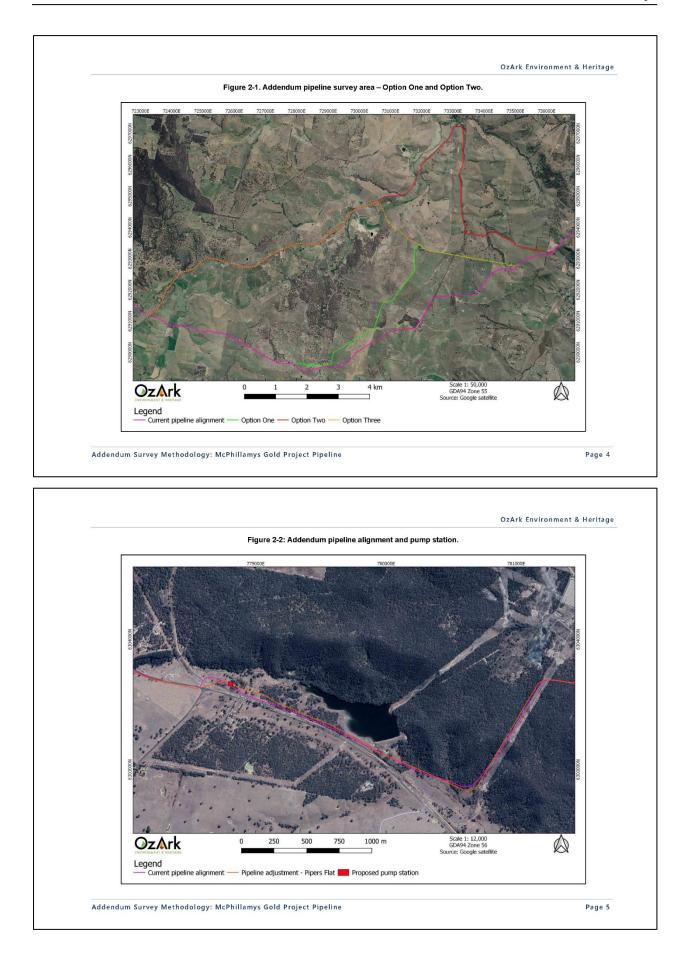
As RAPs were involved in the main survey of the pipeline route, the landscape of the addendum survey area is known and understood by the RAPs. OzArk invites any information on the cultural landscape through which the addendum survey area passes in case anything needs to be considered during the survey.

#### 2 RESULTS

A draft Aboriginal and historic heritage addendum report will be prepared. As an Aboriginal and historic heritage report has already been prepared for the proposal, this will form the basis of the addendum report. The addendum report will be circulated to RAPs upon finalisation.

Addendum Survey Methodology: McPhillamys Gold Project Pipeline

Page 3



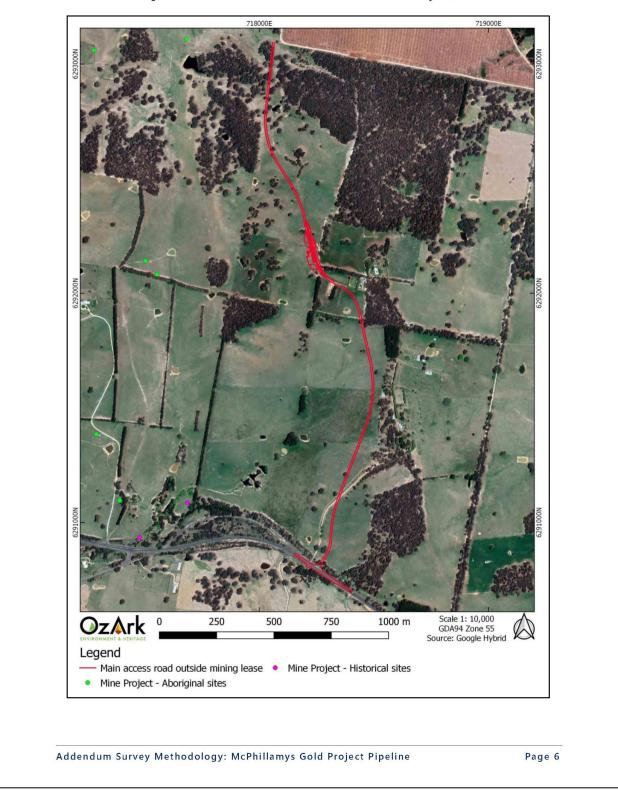


Figure 2-3: Addendum access road to and within Mine Project area.

## Stage 2/3 Response Wellington Valley Wiradjuri Aboriginal Corporation

From: To: Subject: Date: Attachments:	WVWAC Contact Officer <u>Rebecca Hardman; ibde</u> RE: ADDENDUM SURVEY METHODOLOGY for the MCPHILLAMYS GOLD PROJECT PIPELINE Friday, 8 May 2020 1:34:14 PM <u>4483A4C189004628BA4F27652F37EBED ond</u> E4245D7620CF4F519A87DFCEBBCA14D7.ond <u>589DA7EF03A843E4873B9D22D80E8ECF.bq</u>
Hi	
	ot have any concerns regards to the proposed survey areas, as long as all surface rveys are conducted preferably with RAP's present especially within 200m of creek rainage
Please advise a	as information becomes available.
Regards,	
Senior Aborigi	g Aboriginal Corporation Director inal Cultural Heritage Field Officer inal Cultural Mentor and Educator 321016
Sent from Mai	<u>il</u> for Windows 10
To: <u>WVWAC C</u> Subject: ADDE Good afternoc	day, 29 April 2020 12:30 PM Contact Officer ENDUM SURVEY METHODOLOGY for the MCPHILLAMYS GOLD PROJECT PIPELINE on, tached the ADDENDUM SURVEY METHODOLOGY for the MCPHILLAMYS GOLD
If you have an	y feedback, please let me know.
Kind regards,	
Rebecca Har Community Lia	dman aison and Administration
	02 6882 0118         Image: Company of the second seco
	www.ozarkehm.com.au

### Invitation to fieldwork for mine access road

	Ge	OzArk E Dubbo Queanbeyan Newcastle	nvironment & Heritage T: 02 6882 0118 enquiry@ozarkehm.com.au www.ozarkehm.com.au	ABN 59 104 582 354 145 Wingewarra St PO Box 2069 DUBBO NSW 2830
12 June 2020				
Members Orange Local Aborigin c/- Annette Steele PO Box 10	nal Land Council			
ORANGE NSW 2800 olalc@bigpond.com ceo@olalc.com.au				
lisa.paton@olalc.com	i.au			
Dear Members,			DAD CORRIDOR.	D MCPHILLAMYS GOLD
Dear Members, Thank you for your o OzArk to undertake t	Pi ongoing interest he archaeologica	<b>ROJECT – R</b> ( in the above I assessment		Consulting have engaged u to provide one (1) <u>Regi</u>
Dear Members, Thank you for your o OzArk to undertake t <u>Inducted</u> site officer t FIELD WORK DATE:	Proposing interest the archaeologica o participate in the Monday 22nd Ju	in the above assessment ne one (1) full	-mentioned project. EMM and would like to invite yo	Consulting have engaged u to provide one (1) <u>Regi</u>
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Dear Members, Thank you for your o OzArk to undertake t Inducted site officer t FIELD WORK DATE: TIME TO MEET: LOCATION TO MEET:	Pi ongoing interest he archaeologica o participate in th Monday 22nd Ju 9:30 am On Site Pull over area n Highway, Orang One (1) full day The fee offered for the experier	in the above il assessment ne one (1) full une 2020 ear where the e NSW. ( <b>Figu</b> is \$ <b></b> inc o need Site Offic	-mentioned project. EMM and would like to invite yo day field work, scheduled fo	Consulting have engaged ou to provide one (1) <u>Regi</u> or Monday 22 <sup>nd</sup> June 2020 rth from the Mid-Westerr rticipation in the fieldworl of travel, travel time, fuel
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#### PO Box 2069 Dubbo, NSW 2830 rebecca@ozarkehm.com.au

<u>PLEASE NOTE:</u> THE ABOVE FIELDWORK MAY BE CANCELLED AT SHORT NOTICE DUE TO CIRCUMSTANCES OUTSIDE OUR CONTROL. Should this happen we will contact you as soon as possible and attempt to reschedule for a later date.

<u>COVID-19 REQUIREMENT</u>. YOUR SITE OFFICER WILL BE REQUIRED TO FILL IN AND SIGN THE ATTACHED FORM PRIOR TO ENTERING THE WORK SITE. PLEASE ENSURE THAT YOUR SITE OFFICER WILL BE ABLE TO ANSWER 'NO' TO THE QUESTIONS ON THIS FORM.

You must ensure that you or your representative has enough water and snacks / lunch for the duration of the fieldwork.

Personal Protective Equipment (PPE) – your site officer will need:

- Long pants and long sleeve shirt
- High visibility safety shirt / vest
- Enclosed, sturdy footwear
- Water / Sunscreen / Hat.

You or your representative must be physically fit and will need to identify if you have any medical conditions / allergies that should be known to other people participating in the fieldwork in the event of an emergency. The OzArk field director will send home anyone who they determine to be 'unfit for work' or who may pose a WH&S risk to themselves or others.

Please note, if you are a sending a representative who has any underlying medical conditions or severe allergies, it is important that they have on their person appropriate treatment such as asthma inhalers or EpiPens and notify us accordingly.

As previously noted, due to NSW WH&S legislation we need to have on record current Workers Compensation insurances before going into the field. Unfortunately, we will **NOT** be able to allow participation in the fieldwork without seeing your **current Workers Compensation Certificate of Currency**. We currently have on file a copy of your workers compensation. Please note that if you are unable to send a representative from your organisation, we will proceed with the fieldwork with the OzArk archaeologist only.

<u>Please advise our office by **Wednesday 17<sup>th</sup> June 2020**, if you are available as well as the name and contact number of the site officer who will participate in the fieldwork. After this date, if we have not heard from you, we will either proceed with the survey with the OzArk archaeologist only or offer this position to other relevant groups.</u>

If you have any feedback or relevant cultural heritage knowledge that you would like to offer, please discuss with the archaeologist during the fieldwork or contact our office.

Should you have any queries in relation to the enclosed information please do not hesitate to contact our office.

Kind regards,

Rebecca Hardman Consultation Officer

Mcphillamys Gold Project - Road Corridor

Page 2



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form and ans					
$\square$		OzArk Enviro	onment & Heritage	ABN 59 104 582 35	4
		Dubbo	T: 02 6882 0118	145 Wingewarra St	
		Queanbeyan Newcastle	enquiry@ozarkehm.com www.ozarkehm.com.au	au PO Box 2069 DUBBO NSW 2830	
		nencoste			
	Cover		PERSONAL PORT		
	COVID-	19 RELATED ILLNE	SS REPORTING FORM	n	5
Instructions					
			ork crew, including sub		
			work team are referred		
	an@ozarkehm.com.		please send this form	0	
Date					
Time					
Worker name					
Worker mobile n	umber				
Site / Location					
Name of OzArk F	ield Director				
Question			Yes	No	
			165		
	you travelled overseas		d assos of		
	19 (Coronavirus)	confirmed or suspecte	d case or		
3. Are yo	u experiencing flu like	symptoms?			
i.e. fev	er, sore throat, cough	, fatigue, difficulty breat	hing?		
4. Do you	u currently have a feve	er > 37.3 degrees?			
If my health con	dition changes at ar	ny point during work	from the above, I will en	sure that I inform the OzArk	
Fieldwork Direct					
Weder					
Worker Signature	9				
Date					
	and the second		10-10 (Marco 10)		
		2, do not enter the v al back to Australia.	vorkplace, self-isolation	is required for 14 days from	
If you have answ medical assessm		4, do not enter the	workplace, contact you	r GP by phone to arrange a	
If you answered	NO to all of the above	ve, you are able to er	iter the workplace.		

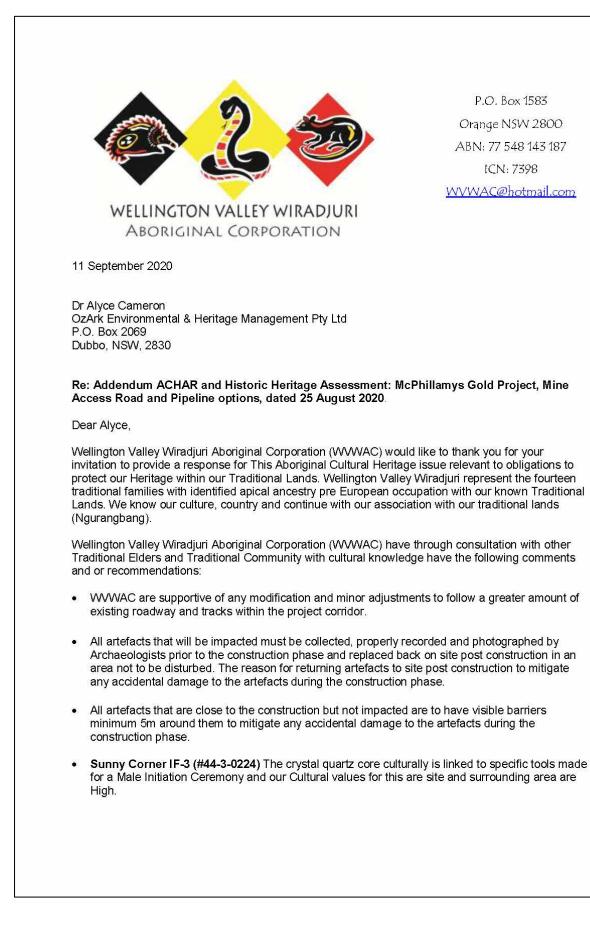
## Addendum Stage 4 example letter

	OzArk Environment & Heritage Dubbo T: 02 6882 0118 Queanbeyan enquiry@ozarkehm.com.au Newcastle www.ozarkehm.com.au	ABN 59 104 582 354 145 Wingewarra St PO Box 2069 DUBBO NSW 2830
26 August 2020		
Members		
Orange Local Aboriginal Land Cou	ıncil	
c/- Annette Steele		
PO Box 10		
ORANGE NSW 2800		
olalc@bigpond.com		
ceo@olalc.com.au		
lisa.paton@olalc.com.au		
Gold Pro	JECT MINE ACCESS ROAD & PIPELINE OPTIO	NS.
Dear Members,		
Thank-you for your continued par above-mentioned project.	rticipation as a Registered Aboriginal Party (RA	P) and involvement in th
LFB Resources NL, a wholly owned to offer you the opportunity to	d subsidiary of Regis Resources Limited (the pro provide feedback on the draft report that of the Aboriginal Cultural Heritage Consul	has been undertaken i
LFB Resources NL, a wholly owned to offer you the opportunity to accordance with stage four (4) <i>Proponents 2010</i> (ACHCR). As per the ACHCRs we are require documents. This period closes of	provide feedback on the draft report that	has been undertaken i Itation Requirements fo feedback on the attache hould our office not b
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## Stage 4 responses to ACHAR Murra Bidgee Mullangari Aboriginal Corporation

From:	Darleen Johnson		
To: Subject:	Rebecca Hardman Re: MCPHILLAMYS GOLD PROJECT MINE ACC	TESS POAD & DIDE INF ODTIONS	
Date:	Thursday, 27 August 2020 11:21:51 AM		
Attachments:	image002.png image005.ipg		
	image001.png		
Project Mine ad Kind regards Darleen Johns	ccess road and pipeline options, i endo		
	arkehm.com.au> wrote:		
Good afternool			
HERITAGE AS		ADDENDUM ABORIGINAL CULTURAL MCPHILLAMYS GOLD PROJECT MINE	
Please let me l	know if you have any feedback.		
Have a great e	vening.		
https://drive.go	ogle.com/file/d/1zC7SHg43Kv_IFtsLZ4	4KfE9IJsHTzseal/view?usp=sharing	
<u>https://drive.go</u> Kind regards,	ogle.com/file/d/1zC7SHg43Kv_IFtsLZ4	4KfE9IJsHTzseal/view?usp=sharing	
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Kind regards,	lardman Liaison and Administration		
Kind regards,	lardman		
Kind regards,	lardman Liaison and Administration	leritage	

### Stage 4 responses to ACHAR Wellington Valley Wiradjuri Aboriginal Corporation



WWWAC look forward to further participating in the above project, sharing our knowledge of county and to ensure our Heritage is protected. We trust our response meets your requirements. Please contact WWWAC Directors should you require our assistance to address any Aboriginal issues to support your future plans.

Regards,

Bradley R. Bliss J.P. WWWAC CEO and Contact Officer Gallanggabang Aboriginal Corporation Director Senior Aboriginal Cultural Heritage Field Officer Senior Aboriginal Cultural Mentor and Educator Traditional Owner Clan Descendant Mobile:

# APPENDIX 2: AHIMS EXTENSIVE SEARCHES

<u>äteID</u>	SteName		Zone Eas			<u>Site Status</u>	SteFeature	35	SiteTypes	Reports
4-2-0118	EP-IF-1;Willow Vale; <u>Contact</u>	AGD <b>Recorders</b>	55 7312 Central We		Open site nd Heritage Servio	Valid >>s Pty Ltd	Artefact : -	Permits	Isolated Find	
4-3-0151	Boundary Road Reserve #1 Modified Tree	AGD	55 7371	89 6298066	Open site	Valid	Modified Tr (Carved or S	ee		
	Contract	Recorders	Mr.Steven	47			1	Permits		
4-3-0152	<u>Contact</u> Boundary Road Reserve #2 Scar Tree	AGD	55 7372		Open site	Valid	Modified Tr	ee		
							(Carved or S -	(carred) :		
4-2-0265	Contact MGP-A29	GDA Recorders	Mr.Steven 55 7158		Open site	Valid	Artefact : -	Permits		
1.0.0000	Contact	Recorders			tants Pty Ltd.Miss.			<u>Permits</u>		
4-2-0266	MGP-A23 Contact	GDA <b>Recorders</b>	55 7172 Navin Offic		Open site tants Pty Ltd.Miss.	Valid Lucy Blackam	Artefact : -	Permits		
4-2-0276	MGP-A11	GDA Baser Jaco	55 7175		Open site	Valid	Artefact : -	n		
4-2-0277	Contact MGP-A12	<u>Recorders</u> GDA	55 7176		tants Pty Ltd.Miss. Open site	Valid	Artefact : -	Permits		
4-2-0278	Contact MGP-A13	Recorders GDA	Navin Offic 55 7177		tants Pty Ltd,Miss. Open site	Lucy Blackam Valid	Artefact : -	Permits		
	Contact	Recorders	Navin Offic	er Heritage Consu	tants Pty Ltd,Miss.	Lucy Blackam		<u>Permits</u>		
4-2-0279	MGP-A18 <u>Contact</u>	GDA <b>Recorders</b>	55 7167 Navin Offic		Open site tants Pty Ltd,Miss.	Valid Lucy Blackam	Artefact : -	Permits		
4-2-0280	MGP-A17	GDA	55 7171	6295392	Open site	Valid	Artefact : -			
4-2-0281	<u>Contact</u> MGP-A14	Recorders GDA	Navin Offic 55 7174		tants Pty Ltd.Miss. Open site	Lucy Blackam Valid	Artefact : -	Permits		
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- <del>1</del> -3-0246	MPW-background scatter <u>Contact</u>	GDA <u>Recorders</u>			Open site nont - Individual u	Valid sers,Miss.Coral Hardw		<u>Permits</u>		
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 Recorders
 Extent Heritage Pty Ltd - Pyrmont - Individual users.Mr.Alistair Hobbs

 GDA
 55
 730097
 6294214
 Open site
 Valid

 Recorders
 Navin Officer Heritage Consultants Pty Ltd.Mrs.Nicola Hayes

 GDA
 55
 730025
 6293879
 Open site
 Valid

 Recorders
 Navin Officer Heritage Consultants Pty Ltd,Mrs.Nicola Hayes

 GDA
 55
 735345
 6297513
 Open site
 Valid

 Recorders
 Extent Heritage Pty Ltd - Pyrmont - Individual users.Mr Alistair Hobbs

 GDA
 55
 735549
 6295928
 Open site
 Valid

 Recorders
 Extent Heritage Pty Ltd - Pyrmont - Individual users.Mr.Cameron Neal

 GDA
 55
 736485
 6294854
 Open site
 Valid

Page 4 of 7

<u>Permits</u>

Potenti al Archa e ologi cal

Archaeological Deposit (PAD):-<u>Permits</u> Artefact:-, Potential Archaeological Deposit (PAD):-<u>Permits</u>

Permits Modified Tree (Carved or Scarred) :

Artefact : -Permits Artefact : -

Report generated by AHIMS Web Service on 17/06/2020 for Alyce Cameron for the following area at Datum : GDA, Zone : 55, Eastings : 711542 - 737644, Northings : 6284663 - 6299270 with a Buffer of O meters. Additional Info : Background data. Number of Aboriginal sites and Aboriginal objects found is 97 This information is a guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim lability for any act done or omission made on the information and consequences of such acts or omission.

Contact 44-2-0295 Swan Ponds Quarry 2

Contact 44-2-0296 Swan Ponds Quarry 1

<u>Contact</u> 44-3-0214 Mt Panorama Scarre d Tree 1

<u>Contact</u> 44-3-0238 MPW-GS1

<u>Contact</u> 44-3-0239 MPW-AS1

GOVERNMENT	& Heritage Extensive search	- Site list report						Client	Service ID : 51321
<u>SiteID</u>	SteName		lone Easting	Northing		Site Status	SteFeatures	SiteTypes	Reports
	Contact	Recorders				sers, Extent Heritage		nits	
4-3-0226	Scar tree near creek line	GDA	55 735312	6295486	Closed site	Valid	Modified Tree (Carved or Scarro -	ed) :	
	Contact	Recorders	Mr.Jade Flynn,W	Aradyuri Tradit	ional Owners Cer	ntral West (WTOCWA	C) <u>Pern</u>	nits	
4-3-0227	Double scar modified tree	GDA	55 735380	6295967	Open site	Valid	Modified Tree (Carved or Scarro	ad) :	
	<u>Contact</u>	Recorders	Extent Heritage	Pty Ltd - Pyrmo	nt - Individual u	sers,Mr.Jade Flynn,Mi	Cameron Ne Pern	nits	
4-3-0240	MPW-IF2	GDA	55 735852	6296027	Open site	Valid	Artefact : -		
	<u>Contact</u>	Recorders			nt - Individual u	sers,Mr.Cameron Nea			
4-3-0092	SP-3;	AGD	55 736630	6298960	Open site	Valid	Artefact : -	Open Camp Site	
	<u>Contact</u>	Recorders	Mr.Doug Williar	ns			Pern	<u>nits</u>	
4-3-0093	SP-4	AGD	55 735890	6297970	Open site	Valid	Artefact : -	Isolated Find	
	Contact	<u>Recorders</u>	Mr. Doug Williar				Pern		
4-3-0102	GGH4:	AGD	55 735300	6298990	Open site	Valid	Artefact : -	Open Camp Site	2795
	Contact	Recorders	Mr.Matthew Ba				Perr		
4-3-0103	GH3;	AGD	55 734750	6298720	Open site	Valid	Artefact : -	Open Camp Site	2795
	Contact	Recorders	Mr.Matthew Ba				Pern	and a second	
4-3-0104	GH2;	AGD	55 733700	6299080	Open site	Valid	Artefact : -	Open Camp Site	2795
	Contact	Recorders	Mr.Matthew Ba				Pern		
4-3-0011	Mt Apsley Contact	AGD Recorders	55 734979 ASRSYS	6291511	Open site	Valid	Stone Arrangeme - Perr	•	353,1298
4-3-0012	Mt Panorama Stone Arrangement 1	GDA	55 736111	6293372	Open site	Valid	Stone Arrangeme		353.606.1298
	U U				•			, in the second s	
	Contact	Recorders				vidual users,Mr.Came			
4-3-0013	Mt Panorama Stone Arrangement 2	GDA	55 736704	6295820	Open site	Valid	Stone Arrangeme		353,606,1298
4-5-0105	Contact KP-IF-1	Recorders AGD	ASRSYS,Extent   55 717160	feritage Pty Ltd 6290690	- Pyrmont - Indi Open site	vidual users,Mr.Came Valid	ron Neal <u>Perr</u> Artefact : -	<u>nits</u>	
P4-3-0103									
4-3-0150	Contact Boundary Rd Reserve	Recorders AGD	55 736881	6297782	d Heritage Servic Open site	Valid	Artefact : 1	<u>auts</u>	
	Contact	Recorders	Mr.Steve Woodl		open site	Vanu	Pern		
4-3-0181	<b>Lontact</b> Wahkuu mens site 1	GDA	55 736938	6295100	Open site	Valid	Aboriginal Ceren and Dre aming : -	iony	
	Contact	Recorders	Mr.Jade Flynn,V	Āradyuri Tradit	ional Owners Ce	ntral West (WTOCWA			

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatur	es	SiteTypes	Reports
4-3-0182	Restriction applied. Please contact					Open site	Valid		-		
	ahims@environment.nsw.gov.au.										
	Contact	Recorders				and the state of the state of the	ers,Mr.Jade Flynn,M		Permits		
4-2-0275	MGP-A19	GDA	55	717333	6295568	Open site	Valid	Artefact : -			
	<u>Contact</u>	Recorders				ints Pty Ltd.Miss.L			Permits		
4-2-0282	MGP-A15	GDA	55	717479	6295327	Open site	Valid	Artefact : -			
	Contact	Recorders				ants Pty Ltd.Miss.L			Permits		
4-2-0283	MGP-A16	GDA	55	717525	6295541	Open site	Valid	Artefact : -			
	Contact	Recorders				ints Pty Ltd,Miss.L			Permits		
14-2-0284	MGP-A3	GDA	55	715415	6291672	Open site	Valid	Artefact : -,			
								Archaeolog			
	Contact	Recorders	Marris	o Officer Her	ritara Conculta	ints Pty Ltd,Miss.L	ucz Bladzam	Deposit (Pa	Permits		
14-2-0285	MGP-A4	GDA		716606	6295516	Open site	Valid	Artefact : -	1 carbines		
	Contact	Recorders				ints Pty Ltd, Miss. L			Permits		
14-2-0286	MGP-A5	GDA		717646	6294875	Open site	Valid	Artefact : -	Termits		
	Contact	Recorders				ents Pty Ltd.Miss.L			Permits		
44-2-0287	MGP-A6	GDA		717576	6294932	Open site	Valid	Artefact : -	<u>I CI MICS</u>		
	Contact	Recorders	Matrix	Officer Her	ritare Consults	ants Pty Ltd.Miss.L	ucer Black and		Permits		
14-2-0288	MGP-A7	GDA		717176	6295410	Open site	Valid	Artefact : -	1 carmins		
	Contact	Recorders	Marris	o Officer He	ritare Conculta	nts Pty Ltd.Miss.L	ucz Bladzam		Permits		
44-2-0289	MGP-A8	GDA		716949	6295604	Open site	Valid	Artefact : -	1.6110162		
	Contact	Recorders				ints Pty Ltd,Miss.L			Permits		
44-2-0290	MGP-A9	GDA		717408	6294972	Open site	Valid	Artefact : -	1 ermites		
	Contact	Recorders				ents Pty Ltd.Miss.L			Permits		
14-2-0291	MGP-A1	GDA		713547	6292737	Open site	Valid	Artefact : -,			
						- print the		Archaeolog			
								Deposit (PA	AD):-		
	<u>Contact</u>	Recorders				ants Pty Ltd.Miss.L			Permits [Variable]		
4-2-0292	MGP-A2	GDA	55	715664	6292045	Open site	Valid	Artefact : -			
	<u>Contact</u>	<u>Recorders</u>				ants Pty Ltd.Miss.L			Permits		
14-3-0193	Grinding stone upper Wahluu	GDA	55	736342	6293221	Open site	Valid	Grinding G	roove : -,		
	Contact	Recorders	Enter	at Wassita as I	ter Taul Demand	met Techinideral reas	ers,Mr.Jade Flynn,M	Artefact : -	Domaito		
14-3-0194	Hammer stone artefact Wahluu	GDA		736342	6293221	Open site	Valid	Artefact : -	remus		
11-3-0174									n		
	Contact	<u>Recorders</u>	Pir.ja	ide Fiynn, wi	radyuri i radit	tional Owners Gen	tral West (WTOCW,	ALC J	Permits		

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<b>NSW</b> GOVERNMENT	Office of Environment & Heritage AHIMS Web Serve Extensive search - Site							Yo	ur Ref/PO Number : M Client	cPhillamys addendun Service ID : 51321
t <b>eID</b> - 3-0195	<u>StreName</u> Scar tree marker Wahhuu	<b>Datum 2</b> GDA	Zone Easting 55 736367	Northing 6293294	<u>Context</u> Open site	<u>Ste Status</u> Valid	SteFeatures Modified Tre (Carved or Se	e	<u>SteTypes</u>	<u>Reports</u>
-3-0196	<u>Contact</u> Women's Dreaming Site Wahluu	<u>Recorders</u> GDA	Extent Heritage 1 55 736924	Pty Ltd - Pyrmo 6294879	ont - Individual users, Open site	Mr.Jade Flynn,Mr.G Valid	ameron Ne 📕 Aboriginal Ce and Dreamin	eremony		
<b>1</b> -2-0293	Contact MGP-A10	<u>Recorders</u> GDA	Extent Heritage 1 55 717496	Pty Ltd - Pyrmo 6294939	ont - Individual users,l Open site	Mr.Jade Flynn,Mr.C Valid	ameron Ne 🛽 Artefact : -	Permits		
	Contact	Recorders		ritage Consulta	nts Pty Ltd.Miss.Lucy		I	<u>ermits</u>		
<b>⊦</b> 3-0192	Scar tree Wahluu 2	GDA	55 736992	6294073	Open site	Valid	Modified Tre (Carved or So -	arred) :		
-3-0184	<u>Contact</u> Wahluu bora stones site	Recorders GDA	Mr.Jade Flynn,W 55 737162	iradyuri Tradit 6295163	ional Owners Central Open site	West (WTOCWAC Valid	) I Aboriginal Ce and Dreamin Ceremonial F (Stone or Ear Stone Arrang	g : -, ting th) : -,		
-3-0185	<u>Contact</u> Wahluu bora stones site 2	<u>Recorders</u> GDA	Mr.Jade Flynn.W 55 736854	iradyuri Tradit 6295282	ional Owners Central Open site	West (WTOCWAC Valid	) I Aboriginal Ce and Dreamin Ceremonial F (Stone or Ear Stone Arrang	g : -, čing th) : -,		
	Contact	Recorders			ional Owners Central			<u>ermits</u>		
1-3-0186	Wahluu ceremonial and initiation complex plants	GDA	55 736854	6295282	Open site	Valid	Aboriginal Re and Gatherin Aboriginal Ce and Dreamin	g:-, remony		103608
	ation is not sugranteed to be free from error omission. Office of Fryiron	original sites and Abori	nd its employees dis	laim liability for	any act done or omission	n made on the inform	ation and conse	an ences of a	ach	
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acts or omit	Office of Environment & Heritage Extensive search - Site Stexame Pipers Flat	ices (AWS) e list report AGD	<b>Zone Easting</b> 55 778300	Northing 6303800		n made on the inform Site Status Valid	SteFeatures Artefact : -		Yaur Ref/PO Number	: McPhillamys Updat
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acts or omin NSV telD + 2-0086 + 3-0041 + 3-0058	eson. Cffice of Environment A Heritage Extensive search - Site SiteName Pipers Flat <u>Contact</u> Bald HIJS - Stone Arrangement <u>Contact</u> Contact <u>Contact</u>	ices (AWS) e list report Datum AGD Recorders GDA	Zone Easting 55 778300 ASRSYS 55 736272 ASRSYS.Extent H 55 740400 Michael Pickerin	Northing 6303800 6293192 eritage Pty Ltd 6293700 g	Context Open site Open site Open site	<u>Ste Status</u> Valid Valid al users.Mr.Camero Valid	StoFeature: Artefact :- Stone Arrang - On Neal I Artefact : 6	s Permits ement :	Your Ref/PO Number Client StefVoes Open Camp Site Stone Arrangement Open Camp Site	: McPhillamys Updat Service ID : 52272 Reports 387 353,606,1298 606,1298
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Keport generated by AHIMS Web Service on 24/07/2020 for Alyce Cameron for the following area at Search using shape file Zone 55 AHIMS search.SHP with a buffer of 0 meters. A ddition. Info : Background. Number of Aboriginal sites and Aboriginal objects found is 49 This information is not guaranteed to be free from error emission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or emission made on the information and cousequences of such acts or emission.

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	& Heritage Extensive search	ervices (AWS) - Site list report							Your Ref/PO Number : I Client Se	McPhillamys Update ervice ID : 522726
<u>SiteID</u> 44-3-0061	<u>StteName</u> Panorama Hills Site No.4	<b>Datum</b> GDA	<b>Zone</b> 55	<u>Easting</u> 736464	Northing 6294867	<u>Context</u> Open site	<u>Ste Status</u> Valid	<b>SteFeatures</b> Modified Tree (Carved or Scarred) :	<b>SteTypes</b> Scarred Tree	Reports 606,1298
	Contact	Recorders	Micha	ael Pickerin;	g.Extent Herita	ge Pty Ltd - Pyrn	nont - Individual user	s.Extent Herit Permits		
44-3-0067	Williwa Creek 1;	AGD	55	773270	6300900	Open site	Valid	Artefact : -	Open Camp Site	83,232
	Contact	<u>Recorders</u>	L Cub	is				<u>Permits</u>		
44-3-0011	Mt Apsley	AGD	55	734979	6291511	Open site	Valid	Stone Arrangement : -	Stone Arrangement	353,1298
	Contact	Recorders	ASRS					<u>Permits</u>		
44-3-0012	Mt P anorama Stone Arrangement 1	GDA		736111	6293372	Open site	Valid	Stone Arrangement : -	Stone Arrangement	353,606,1298
	Contact	Recorders			· ·		vidual users,Mr.Cam			
44-3-0170	W20 A7	GDA	55	756692	6296736	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1		104298
	Contact	Recorders				nts Pty Ltd,OzArl	k Environmental and	Heritage Man Permits	3764	
44-3-0171	W20 A8	GDA	55	757657	6296015	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1		
	<u>Contact</u>	Recorders			itage Consulta			Permits	3764	
44-3-0163	W20 A6	GDA	55	766565	6297463	Open site	Valid	Artefact : 1		
	Contact	Recorders			itage Consulta	nts Pty Ltd		Permits	3764	
44-3-0181	Wahluu mens site 1	GDA		736938	6295100	Open site	Valid	Aboriginal Ceremony and Dreaming : -		
	Contact	Recorders	Mr.Ja	de Flynn,Wi	radyuri Tradit		ntral West (WTOCW)	C) <u>Permits</u>		
44-3-0182	Restriction applied. Please contact ahims@environment.nsw.gov.au.					Open site	Valid			
11.0.0100	Contact	GDA Recorders		nt Heritage F 736342	ty Ltd - Pyrmo 6293221		sers,Mr.Jade Flynn,M Valid	Cameron Ne Permits		
44-3-0193	Grin ding stone upper Wahluu					Open site		Grinding Groove : -, Artefact : -		
44-3-0194	<u>Contact</u> Hammer stone artefact Wahhuu	GDA Recorders		it Heritage F 736342	'ty Ltd - Pyrmo 6293221		sers,Mr.Jade Flynn,M Valid	Cameron Ne <u>Permits</u> Artefact : -		
44-3-0194						Open site				
44-3-0195	Contact Scar tree marker Wahluu	Recorders GDA		de Flynn,Wi 736367	radyuri Tradit 6293294		ntral West (WTOCW) Valid	C) <u>Permits</u> Modified Tree		
44-3-0195	Scar tree marker Wahluu	GDA	55	/3636/	6293294	Open site	Valid	Modified Tree (Carved or Scarred) :		
	Contact	Recorders	Exten	nt Heritage H	ty Ltd - Pyrmo	nt - Individual u	sers.Mr.Jade Flynn.M	Cameron Ne Permits		
44-3-0196	Women's Dreaming Site Wahluu	GDA		736924	6294879	Open site	Valid	Aboriginal Ceremony and Dre aming : -		

Report generated by AHIMS Web Service on 24/07/2020 for Alyce Cameron for the following area at Search using shape file Zone 55 AHIMS search. SHP with a buffer of 0 meters. Additional Info: Background. Number of A boriginal sites and Aboriginal objects found is 49 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 emission.

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SiteID	SiteName		Datum	Zone	Easting	Northing	Context	Site Status	SteFeatu	res	SteTypes	Reports
	<u>Contact</u>		Recorders					rs,Mr.Jade Flynn,Mr.				
44-3-0192	Scar tree Wahluu 2		GDA	55	736992	6294073	Open site	Valid	Modified 7 (Carved or	Free r Scarred) :		
	Contact		Recorders	Mr.I	ade Flynn.W	iradvuri Tradit	ional Owners Centr	al West (WTOCWA	วา	Permits		
44-3-0184	Wahhuu bora stones site		GDA		737162	6295163	Open site	Valid	Aboriginal and Drean Ceremonia (Stone or	l Ceremony ning : - , al Ring		
	Contact		Recorders	Mr.]	ade Flynn,W	iradyuri Tradit	ional Owners Centr	al West (WTOCWA	<b>C</b> )	Permits		
44-3-0185	Wahluu bora stones site	2	GDA	55	736854	6295282	Open site	Valid	and Dre an Ceremonia (Stone or )	al Ring		
	<u>Contact</u>		Recorders	Mr.J	ade Flynn,W	iradyuri Tradit	ional Owners Centr	al West (WTOCWA	2)	Permits		
44-3-0186	Wahluu ceremonial and	initiation complex plants	GDA	55	736854	6295282	Open site	Valid	and Gathe	l Ceremony		103608
	<u>Contact</u>		Recorders	Mr.J	ade Flynn,W	iradyuri Tradit	ional Owners Centr	al West (WTOCWA	2)	Permits		
44-3-0228	Bald Hill IF-2		GDA	55	735600	6293057	Open site	Valid	Artefact : -			104281
	<u>Contact</u>		Recorders	OzA	rk Environm	ental and Herit	tage Management,D	octor Alyce Camero	n	Permits		
44-3-0229	Bald Hill IF-1		GDA	55	735361	6292969	Open site	Valid	Artefact : -			104281
	<u>Contact</u>		Recorders					octor Alyce Camero		Permits		
44-3-0221	Bathurst Bike Park IF-1		GDA	55	738495	6293770	Open site	Valid	Artefact : -			104281
	<u>Contact</u>		Recorders					octor Alyce Camero		<u>Permits</u>		
44-3-0222	Sunny Corner IF-1		GDA	55	769007	6299750	Open site	Valid	Artefact : -			104281
	<u>Contact</u>		Recorders					octor Alyce Camero		<u>Permits</u>		
44-3-0223	Sunny Corner IF-2		GDA		764957	6298103	Open site	Valid	Artefact : -			104281
	<u>Contact</u>		Recorders					loctor Alyce Camero		Permits		
44-3-0224	Sunny Corner IF-3		GDA		764843	6298127	Open site	Valid	Artefact : -			104281
110 0007	Contact		Recorders GDA		rk Environm 765147	ental and Heri 6298067		octor Alyce Camero		<u>Permits</u>		104281
44-3-0225	Sunny Corner OS-1						Open site	Valid	Artefact : -			104281
	Contact		Recorders	OzA	rk Environm	ental and Herit	tage Management,D	loctor Alyce Camero	n	Permits		

SiteID	SiteName	Datum	Zone Easting	Northing	Context	Site Status	SiteFeatur	es	SteTypes	Reports
44-3-0230	Restriction applied. Please contact ahims@environment.nsw.gov.au.				Open site	Valid				
44-3-0231	<u>Contact</u> Salt Water Creek IF-2	Recorders GDA	Extent Heritage 55 754321	Pty Ltd - Pyrmo 6294548	ont - Individual us Open site	sers,Mr.Jade Flynn,M Valid	r.Cameron Ne Artefact : -	<u>Permits</u>		104280
44-3-0232	<u>Contact</u> Salt Water Creek IF-1	Recorders GDA	OzArk Environ 55 754055	mental and Herit 6294493		t,Doctor,Alyce Camer Valid	ron Artefact : -	<u>Permits</u>		104280
	Contact	BDA Recorders		mental and Herit		t,Doctor Alyce Came		Permits		250 50 50 50 50 50
44-3-0233	Salt Water Creek OS-1 Contact	GDA Recorders	55 754073 OzArk Environ	6294530 mental and Herit	Open site tage Management	Valid t,Doctor Alyce Camer	Artefact : -	Permits		104280
44-3-0237	MPW-ST1	GDA	55 735945	6294943	Open site	Valid	Modified T (Carved or	ree		
44-3-0214	<u>Contact</u> Mt Panorama Scarre d Tree 1	Recorders GDA	Extent Heritage 55 736485	P ty Ltd - Pyrm 6294854	ont - Individual us Open site	sers,Mr Alistair Hobb Valid	os Modified T (Carved or			
44-3-0216	<u>Contact</u> Stone fire pit Penrise	<u>Recorders</u> GDA	Extent Heritage 55 754307	Pty Ltd - Pyrm 6294842	ont - Individual us Closed site	sers,Extent Heritage Valid		Permits		
			55 151501	0101011	40004 440	Tunc	and Dream Grinding G	ing : - ,		
44-3-0217	<u>Contact</u> Grinding grooves penrose	<u>Recorders</u> GDA	Mr.Jade Flynn,V 55 743079	Viradyuri Tradit 6292992	tional Owners Cer Closed site	ntral West (WTOCW. Valid		<u>Permits</u>		
	Contact	Recorders	Mr.Jade Flynn,V	Viradyuri Tradit	tional Owners Cer	ntral West (WTOCW	AC)	Permits		
44-3-0244	MPW-AS4	GDA	55 735800	6294900	Open site	Valid	Artefact : -, Archaeolog Deposit (Pa	ți cal		
	Contact	Recorders	Extent Heritage	Pty Ltd - Pyrmo	ont - Individual us	sers,Miss.Coral Hard	widk	Permits		
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<u>SiteID</u>	<u>SteName</u> Contact	Datum . Recorders		Easting eth Rich	Northing	<u>Context</u>	<u>Site Status</u>	<u>SiteFeatures</u> Permits	SiteTypes 361	<u>Reports</u>
45-1-0209	S4; Wallerawang: Contact	AGD Recorders		26300 eth Rich	6302550	Open site	Valid	Artefact : - Permits	Open Camp Site	2300
45-1-0213		AGD		25149	6302270	Close d site	Valid	Artefact : -	Shelter with Deposit	2294
	<u>Contact</u>	Recorders	Helen l	Brayshaw,l	Ms.Laila Haglu	nd		<u>Permits</u>		
45-1-0214	Lamberts Ck 3: Mt Piper;	AGD	56 2	25163	6302178	Closed site	Valid	Artefact : -	Shelter with Deposit	2294
	Contact	Recorders			Ms.Laila Haglu	nd		<u>Permits</u>		
45-1-0215	Lamberts Ck 5: Mt Piper;	AGD	56 2	25300	6302480	Open site	Valid	Artefact : -	Open Camp Site	2294
	<u>Contact</u>	Recorders			Ms.Laila Haglu	nd		Permits		
45-1-0218	57 - Blackmans Flat;	AGD	56 2	24400	6303650	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders	Mr.Nev	ville Baker,	Elizabeth Rich			<u>Permits</u>		
45-1-0234	Western main 2;	AGD	56 2	26020	6304680	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders	Helen I	Brayshaw				Permits	427	
45-1-0236	Western main 1; same as 45-1-0241	AGD	56 2	26060	6304580	Open site	Valid	Artefact : -	Open Camp Site	
	<u>Contact</u>	Recorders	Helen l	Brayshaw				Permits	428	
45-1-0238	Mount Piper;	AGD	56 2	22590	6302870	Close d site	Valid	Artefact : -, Art (Pigment or Engraved) : -, Grinding Groove : -	Axe Grinding Groove,Shelter with Art,Shelter with Deposit	2907
	<u>Contact</u>	Recorders				nsulting Archaeo		Permits		
45-1-0239	Irondale Creek;	AGD		22330	6302230	Open site	Partially Destroyed	Artefact : -	Open Camp Site	2907
	Contact	Recorders				nsulting Archaeo		Permits		
45-1-0242	Western main 3, same as 45-1-0235	AGD		25630	6304830	Open site	Valid	Artefact : -	Open Camp Site	2501
	Contact	Recorders		Brayshaw		-	_	Permits		
45-1-0243	S12; Springvale Colliery;	AGD		24970	6303900	Open site	Destroyed	Artefact : -	Open Camp Site	
	<u>Contact</u>	Recorders	ASRSY					<u>Permits</u>	467	
45-1-0244	\$13; Springvale Colliery;	AGD	56 2	24750	6304040	Open site	Destroyed	Artefact : -	Open Camp Site	
	Contact	Recorders		eth Rich, E l				Permits	467	
45-1-0093	Long Swamp 1; Wallerawang:	AGD	56 2	28770	6305540	Open site	Valid	Artefact : -	Open Camp Site	950
	Contact	Recorders				or.Susan Mcintyr		Permits		
45-1-0094	Long Swamp 2: Wallerawang:	AGD	56 2	28290	6305550	Open site	Valid	Artefact : -	Open Camp Site	950
	Contact	Recorders	Elizabe	eth Rich, Sh	elly Greer, Doc	or.Susan Meintyr	e-Tamwoy	Permits		
45-1-0100	Angus Place 1;Ben Bullen State Forest;	AGD	56 2	27640	6305600	Close d site	Valid	Artefact : -	Shelter with Deposit	950

Report generated by AHIMS Web Service on 24/07/2020 for Alyce Cameron for the following area at Search using shape file Zone 56 AHIMS search.SHP with a buffer of 0 meters. Additional Info : Background update.Number of Aboriginal sites and Aboriginal objects found is 54 This information is not guaranteed to be free from error omission. Office of Daviroum ent and Heritage (FSW) and its employees disclaim lability for any act done or omission made on the information and consequences of such acts or anisoto.

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SteName	Datum	Zone	Easting	Northing	Context	Site Status	SteFeatures	SteTypes	Reports
Contact	Recorders	Doct	tor.Susan Mo	intyre-Tamwoy	7		Permits		
S6; Blackmans Flat;	AGD	56	225180	6303220	Open site	Destroyed	Artefact : -	Open Camp Site	2300
Contact	Recorders	S Fie	elds,Elizabeth	Rich			Permits		
Irondale;	AGD	56	225500	6302750	Closed site	Valid	Artefact : -, Grinding Groove : -	Axe Grinding Groove,Shelter with Deposit	
Contact	Recorders						<u>Permits</u>		
IV-OS-2	AGD	56	222130	6303520	Open site	Valid	Artefact : -	Open Camp Site	
Contact	<u>Recorders</u>	Mrs	Robynne Mil				<u>Permits</u>		
WC1A	AGD	56	225991	6305123	Open site	Valid	Artefact : 1		98981
Contact Bathurst LALC							Permits		
NC-001 with PAD	AGD			6305650	Open site	Valid	Artefact : 10, Potential Archaeological Deposit (PAD) : 1		
						Valid			
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					Sector and the sector and the sector	17-11-4		On an Carry City	
				0304030	Open site	vanu			
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Contact CS SU4 A4	GDA			6303887	open site	Valid	Artefact : 1		
Contact	Recorders				tralia Ptv Ltd - Ec		Permits		
CONDIC	GDA		225879	6303777	Open site	Valid	Artefact : 1		_
CS 5114-A3					stralia Pty Ltd - Ec		Permits		
CS SU4-A3 Contact	Recorders	3600							
	SteName         Contact         Sto Backmans Plat:         Contact         Irondale;         Contact         IV-OS-2         Contact         WCIA         Contact         SW-OS1 with PAD         Contact         WCUM         Contact         VW-OS1 with PAD         Contact         WCUM         Contact         Western main 3: same as 45:1-0242         Contact         Western main 3: same as 45:1-0236         Contact         Western main 1: same as 45:1-0236         Contact         Western main 3: same as 45:1-0236         Contact         Contact         Contact         Contact         Contact         Contact         Contact         Contact         Contact </td <td>SiteName     Datum       Contact     Recorders       SteBademans Plat:     AGD       Contact     Recorders       Irondale:     AGD       Contact     Recorders       Irondale:     AGD       Contact     Recorders       Irondale:     AGD       Contact     Recorders       Irondale:     AGD       Contact     Recorders       WCIA     AGD       Contact     Recorders       WCIA     AGD       Contact     Recorders       VN-OS1 with PAD     AGD       Contact     Recorders       SVW-OS1 with PAD     AGD       Contact     Recorders       WGJI     GDA       Contact     Searle       Recorders     AGD       Contact     Recorders       WGJI     GDA       Contact     Recorders       Woll     GDA       Contact     Recorders       Western main 3: same as 45-1-0242     AGD       Contact     Recorders       Western main 1: same as 45-1-0236     AGD       Contact     Recorders       Western main 1: same as 45-1-0242     GDA       Contact     Recorders       Western main 3: same as 4</td> <td>Discretion     Datum     Zone       SiteName     Datum     Zone       Contact     Recorders     Dot       Frondate     AGD     56       Contact     Recorders     SP       Prodate     AGD     56       Contact     Recorders     SP       Prodate     AGD     56       Contact     Recorders     RM       ProS-2     AGD     56       Contact     Recorders     Mrs       WC1A     AGD     56       Contact     Recorders     Mrs       WC1A     AGD     56       Contact     Recorders     Mrs       NN-OS1 with PAD     AGD     56       Contact     T Russell     Recorders       SVW-OS1 with PAD     AGD     56       Contact     Recorders     Nav       Ben Bullen Stone Arrangement Ben Bullen State Forest:     AGD     56       Contact     Recorders     Bet       Western main 3: same as 45-1-0242     AGD     56       Contact     Recorders     Bet       Western main 3: same as 45-1-0236     AGD     56       Contact     Recorders     Bet       Western main 3: same as 45-1-0236     AGD     56       C</td> <td>LACE HOLE OF CHECK OF CHECK OF CHECK OF CHECK       Ste Name     Datum     Zone     Easting       Contact     Becorders     Doctor-Susan Md       Sto Blackmann Rat:     AGD     56     225100       Contact     Recorders     S Paid de Birabeth       Prondale:     AGD     56     225500       Contact     Recorders     RMIIler       Pro6-2     AGD     56     22500       Contact     Recorders     RMIS Robyne Mil       WC1A     AGD     56     225950       Contact     Recorders     Mrs Robyne Mil       WC1A     AGD     56     225951       Contact     Baturst LALC     Net scorders     Mr John Appletor       NV-051 with PAD     AGD     56     225796       Contact     T Russell     Recorders     Rathert LAI20       VW-051 with PAD     AGD     56     225796       Contact     T Russell     Recorders     Navin Officer He       Ben Bullen Stone Arrangement Ben Bullen State Forest:     AGD     56     225800       Contact     Recorders     Modor Staus Mid     56     225930       Western main 3; same as 45-1-0242     AGD     56     225930       Contact     Recorders     Helen Brayshaw   <td>Site have soluted for its to prote           Site have         Data (Site its of the its of the</td><td>Site inside Solution of the Hister protect           Site Name         Datum         Zone         Easting         Northing         Context           Contact         Recorders:         Dotor: Susan Minityre-Tarnwoy         Stellademans Plat         AGD         56: Blademans Plat         AGD         56: 22550         Gosed atte           Contact         Recorders:         Miller         International Plate         Plate Plate         Plate Plate         Plate Plate         Plate Plate         Plate Plate         Plate Plate Plate         Plate Plate Plate         Plate Plate Plate         Plate Plate Plate Plate         Plate Plate Plate Plate Plate         Plate</td><td>Datum         Datum         Zone         Easting         Northing         Context         Site Status           Stream         Context         Becorders         Dotors Susan Minityre-Tenwoy         Site Status           Stream         AGD         56         225100         6303220         Open site         Destroyed           Context         Recorders         S BideAmans Rat:         AGD         56         225100         6302750         Closed atte         Valid           Irondale:         AGD         56         225100         6303520         Open site         Valid           Context         Recorders         RMIller         For Solution         Solution         Valid           PAOS-2         AGD         56         225901         6303520         Open site         Valid           Context         Recorders         Mail         Mark Robyme Mills         Valid         Solution         Valid           Context         Bathurst LALC         Recorders         Marijohn Appleton         Not-OS1 with PAD         Valid         Solution         Solution         Solution         Solution         Valid         Solution         Valid         Solution         Solution         Solution         Solution         Solution         So</td><td>Site inside Social Circle 1970 (1970)       Datase       Datase       Sate Statuse       Site Statuses         Site Sites       Recorders       Dotor Susan Mentyre-Tanwoy       Recorders       Dotor Susan Mentyre-Tanwoy       Recorders         Ste Backmann Plat:       AGD       56       225180       6303220       Open site       Destroyed       Artefact: -         Contact       Recorders       S Fields Bitzabeth Rich       Permits       Permits         Irondale:       AGD       56       225500       630520       Open site       Valid       Artefact: -, Grinding Grooves : -         Contact       Recorders       RMIIIer       Permits       Permits         V-OS-2       AGD       56       225500       6305123       Open site       Valid       Artefact: -         Contact       Recorders       Mrs.Robyme Milis       Permits       Permits         WCGA       AGD       56       225560       6305123       Open site       Valid       Artefact: 10.         Contact       Bethwest LALC       Recorders       Mrs.Robyme Milis       Permits       Artefact: 6         Contact       Recorders       Mrs.Robyme Milis       Open site       Valid       Artefact: 11.         Contact       Record</td><td>SiteName         Datum         Zone         Easting         Northing         Context         SiteStatures         SiteStatures</td></td>	SiteName     Datum       Contact     Recorders       SteBademans Plat:     AGD       Contact     Recorders       Irondale:     AGD       Contact     Recorders       Irondale:     AGD       Contact     Recorders       Irondale:     AGD       Contact     Recorders       Irondale:     AGD       Contact     Recorders       WCIA     AGD       Contact     Recorders       WCIA     AGD       Contact     Recorders       VN-OS1 with PAD     AGD       Contact     Recorders       SVW-OS1 with PAD     AGD       Contact     Recorders       WGJI     GDA       Contact     Searle       Recorders     AGD       Contact     Recorders       WGJI     GDA       Contact     Recorders       Woll     GDA       Contact     Recorders       Western main 3: same as 45-1-0242     AGD       Contact     Recorders       Western main 1: same as 45-1-0236     AGD       Contact     Recorders       Western main 1: same as 45-1-0242     GDA       Contact     Recorders       Western main 3: same as 4	Discretion     Datum     Zone       SiteName     Datum     Zone       Contact     Recorders     Dot       Frondate     AGD     56       Contact     Recorders     SP       Prodate     AGD     56       Contact     Recorders     SP       Prodate     AGD     56       Contact     Recorders     RM       ProS-2     AGD     56       Contact     Recorders     Mrs       WC1A     AGD     56       Contact     Recorders     Mrs       WC1A     AGD     56       Contact     Recorders     Mrs       NN-OS1 with PAD     AGD     56       Contact     T Russell     Recorders       SVW-OS1 with PAD     AGD     56       Contact     Recorders     Nav       Ben Bullen Stone Arrangement Ben Bullen State Forest:     AGD     56       Contact     Recorders     Bet       Western main 3: same as 45-1-0242     AGD     56       Contact     Recorders     Bet       Western main 3: same as 45-1-0236     AGD     56       Contact     Recorders     Bet       Western main 3: same as 45-1-0236     AGD     56       C	LACE HOLE OF CHECK OF CHECK OF CHECK OF CHECK       Ste Name     Datum     Zone     Easting       Contact     Becorders     Doctor-Susan Md       Sto Blackmann Rat:     AGD     56     225100       Contact     Recorders     S Paid de Birabeth       Prondale:     AGD     56     225500       Contact     Recorders     RMIIler       Pro6-2     AGD     56     22500       Contact     Recorders     RMIS Robyne Mil       WC1A     AGD     56     225950       Contact     Recorders     Mrs Robyne Mil       WC1A     AGD     56     225951       Contact     Baturst LALC     Net scorders     Mr John Appletor       NV-051 with PAD     AGD     56     225796       Contact     T Russell     Recorders     Rathert LAI20       VW-051 with PAD     AGD     56     225796       Contact     T Russell     Recorders     Navin Officer He       Ben Bullen Stone Arrangement Ben Bullen State Forest:     AGD     56     225800       Contact     Recorders     Modor Staus Mid     56     225930       Western main 3; same as 45-1-0242     AGD     56     225930       Contact     Recorders     Helen Brayshaw <td>Site have soluted for its to prote           Site have         Data (Site its of the its of the</td> <td>Site inside Solution of the Hister protect           Site Name         Datum         Zone         Easting         Northing         Context           Contact         Recorders:         Dotor: Susan Minityre-Tarnwoy         Stellademans Plat         AGD         56: Blademans Plat         AGD         56: 22550         Gosed atte           Contact         Recorders:         Miller         International Plate         Plate Plate         Plate Plate         Plate Plate         Plate Plate         Plate Plate         Plate Plate Plate         Plate Plate Plate         Plate Plate Plate         Plate Plate Plate Plate         Plate Plate Plate Plate Plate         Plate</td> <td>Datum         Datum         Zone         Easting         Northing         Context         Site Status           Stream         Context         Becorders         Dotors Susan Minityre-Tenwoy         Site Status           Stream         AGD         56         225100         6303220         Open site         Destroyed           Context         Recorders         S BideAmans Rat:         AGD         56         225100         6302750         Closed atte         Valid           Irondale:         AGD         56         225100         6303520         Open site         Valid           Context         Recorders         RMIller         For Solution         Solution         Valid           PAOS-2         AGD         56         225901         6303520         Open site         Valid           Context         Recorders         Mail         Mark Robyme Mills         Valid         Solution         Valid           Context         Bathurst LALC         Recorders         Marijohn Appleton         Not-OS1 with PAD         Valid         Solution         Solution         Solution         Solution         Valid         Solution         Valid         Solution         Solution         Solution         Solution         Solution         So</td> <td>Site inside Social Circle 1970 (1970)       Datase       Datase       Sate Statuse       Site Statuses         Site Sites       Recorders       Dotor Susan Mentyre-Tanwoy       Recorders       Dotor Susan Mentyre-Tanwoy       Recorders         Ste Backmann Plat:       AGD       56       225180       6303220       Open site       Destroyed       Artefact: -         Contact       Recorders       S Fields Bitzabeth Rich       Permits       Permits         Irondale:       AGD       56       225500       630520       Open site       Valid       Artefact: -, Grinding Grooves : -         Contact       Recorders       RMIIIer       Permits       Permits         V-OS-2       AGD       56       225500       6305123       Open site       Valid       Artefact: -         Contact       Recorders       Mrs.Robyme Milis       Permits       Permits         WCGA       AGD       56       225560       6305123       Open site       Valid       Artefact: 10.         Contact       Bethwest LALC       Recorders       Mrs.Robyme Milis       Permits       Artefact: 6         Contact       Recorders       Mrs.Robyme Milis       Open site       Valid       Artefact: 11.         Contact       Record</td> <td>SiteName         Datum         Zone         Easting         Northing         Context         SiteStatures         SiteStatures</td>	Site have soluted for its to prote           Site have         Data (Site its of the	Site inside Solution of the Hister protect           Site Name         Datum         Zone         Easting         Northing         Context           Contact         Recorders:         Dotor: Susan Minityre-Tarnwoy         Stellademans Plat         AGD         56: Blademans Plat         AGD         56: 22550         Gosed atte           Contact         Recorders:         Miller         International Plate         Plate Plate         Plate Plate         Plate Plate         Plate Plate         Plate Plate         Plate Plate Plate         Plate Plate Plate         Plate Plate Plate         Plate Plate Plate Plate         Plate Plate Plate Plate Plate         Plate	Datum         Datum         Zone         Easting         Northing         Context         Site Status           Stream         Context         Becorders         Dotors Susan Minityre-Tenwoy         Site Status           Stream         AGD         56         225100         6303220         Open site         Destroyed           Context         Recorders         S BideAmans Rat:         AGD         56         225100         6302750         Closed atte         Valid           Irondale:         AGD         56         225100         6303520         Open site         Valid           Context         Recorders         RMIller         For Solution         Solution         Valid           PAOS-2         AGD         56         225901         6303520         Open site         Valid           Context         Recorders         Mail         Mark Robyme Mills         Valid         Solution         Valid           Context         Bathurst LALC         Recorders         Marijohn Appleton         Not-OS1 with PAD         Valid         Solution         Solution         Solution         Solution         Valid         Solution         Valid         Solution         Solution         Solution         Solution         Solution         So	Site inside Social Circle 1970 (1970)       Datase       Datase       Sate Statuse       Site Statuses         Site Sites       Recorders       Dotor Susan Mentyre-Tanwoy       Recorders       Dotor Susan Mentyre-Tanwoy       Recorders         Ste Backmann Plat:       AGD       56       225180       6303220       Open site       Destroyed       Artefact: -         Contact       Recorders       S Fields Bitzabeth Rich       Permits       Permits         Irondale:       AGD       56       225500       630520       Open site       Valid       Artefact: -, Grinding Grooves : -         Contact       Recorders       RMIIIer       Permits       Permits         V-OS-2       AGD       56       225500       6305123       Open site       Valid       Artefact: -         Contact       Recorders       Mrs.Robyme Milis       Permits       Permits         WCGA       AGD       56       225560       6305123       Open site       Valid       Artefact: 10.         Contact       Bethwest LALC       Recorders       Mrs.Robyme Milis       Permits       Artefact: 6         Contact       Recorders       Mrs.Robyme Milis       Open site       Valid       Artefact: 11.         Contact       Record	SiteName         Datum         Zone         Easting         Northing         Context         SiteStatures         SiteStatures

GOVERNMENT	AHIMS Web Se AHIMS web Se Extensive search -		
iteID	SiteName	Datum Zone Easting Northing Context <u>Ste Status</u> SiteFeatures SiteTypes Rep	orts
	Contact	Recorders Ms.Cheng-Yen Loo, RPS East Australia Pty Ltd - Echuca Victoria Permits	
5-1-2724	CS SU4-A1	GDA 56 225946 6303882 Open site Valid Artefact : 1	
	Contact	Recorders Ms. Cheng-Yen Loo, RPS East Australia Pty Ltd - Echuca Victoria Permits	
5-1-2725	CS SU3-A1	GDA 56 226166 6303832 Open site Valid Artefact : 1	
	Contact	Recorders Ms. Cheng-Yen Loo, RPS East Australia Pty Ltd - Echuca Victoria Permits	
5-1-2749	Neubecks Creek Isolated Find 2	GDA 56 225787 6305480 Open site Valid Artefact : 1	
	Contact	Recorders OzArk Environmental and Heritage Management Permits	
5-1-2795	BFJN 1 IF- Blackmans Flat IF	GDA 56 225191 6304132 Open site Valid Artefact :-	
	Contact	RPS Australia East Pty Ltd - Hamilton,Ms. Jo Nelson Permits	
9-5-0216	PF1	GDA 56 223104 6302282 Open site Valid Artefact :-	
	Contact	Recorders Navin Officer Heritage Consultants Pty Ltd,Mrs.Nicola Hayes,Onsite Cultural Herita Permits	
9-5-0217	PF2	GDA 56 222990 6302461 Open site Valid Artefact :-, Modified Tree (Carved or Scarred):-	
	Contact	Recorders Navin Officer Heritage Consultants Pty Ltd,Mrs.Nicola Hayes,Onsite Cultural Herita Permits	
9-5-0218	PF3	GDA 56 223371 6302484 Open site Valid Artefact:-, Modified Tree (Car-wood of Scarred):-	
	Contact	Recorders Navin Officer Heritage Consultants Pty Ltd,Mrs.Nicola Hayes,Onsite Cultural Herita Permits	