

# BULGA COAL

GLENCORE

*Plan for*



## Aboriginal Cultural Heritage Management Plan

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Note: Internal procedures have not been reviewed or endorsed by NSW Department of Planning and Environment. Glencore takes responsibility for ensuring these procedures are in accordance with this management plan and generally in accordance with the development consent.

# 1 Acknowledgement

Bulga Coal Management (BCM) acknowledges the Wonnarua Knowledge Holders of the area, as well as the wider Wonnarua community.

BCM recognises, values, and respects the ongoing cultural responsibilities of Wonnarua people over their traditional Country and acknowledges the unique and significant contribution made by Aboriginal people and organisations to the local community and to Australia's identity. BCM acknowledges the need to strengthen the voice of Aboriginal people in local decision making and the fundamental right of the Aboriginal community members including young people to engage about the matters that are important to their communities. BCM recognises the respected role of Elders and/or Knowledge Holders and the important leadership role they have in guiding current and future generations of Aboriginal communities.

BCM acknowledges that protection and conservation of Aboriginal cultural heritage is important for all Australians. BCM recognises the need to create culturally safe and respectful environments and provide services in a way that demonstrates cultural understanding and ensures Aboriginal people feel recognised and respected. BCM will actively work with Aboriginal people to respond to and address racism should it occur to ensure that the cultural values and human rights of Aboriginal people are respected.

BCM acknowledges the significant social and economic contribution that is provided by the unique skills of people within the Aboriginal community. It will partner with local Aboriginal people to create opportunities for employment and support local economic participation of Aboriginal businesses.

# 2 Purpose

The Aboriginal Cultural Heritage Management Plan (ACHMP) has been developed to ensure that Aboriginal cultural heritage within the Bulga Coal Complex (BCC) is managed in accordance with all relevant legislation and in consultation with relevant Aboriginal parties, and to satisfy development consent requirements.

# 3 Scope

This plan references activities within the ACHMP Boundary shown on **Figure 4-1**.

# 4 Background

The BCC is located approximately 12 kilometres (km) southwest of Singleton, 1km north of Broke and 1.5km east of Bulga, in the upper Hunter Valley of NSW. The ACHMP Boundary is located within mining leases and land owned or leased by BCM.

This ACHMP relates to the Bulga Open Cut (BOC) and the Bulga Underground Mine (Bulga Underground Operations (BUO)). These mines are collectively part of the BCC that is under the management of BCM on behalf of the Bulga Joint Venture (BJV).

## 4.1 Bulga Optimisation Project

The assessment phase for the Bulga Optimisation Project (BOP) was exhaustive and included a widespread archaeological assessment that took place in 2011–2012 (OzArk 2013), a comprehensive collation of the area's Aboriginal cultural values and a long-running archaeological salvage program took place in 2015–2016 (OzArk 2017).

Recommendations from the BOP have provided measures to either improve the Aboriginal cultural heritage values present within the BCC or to mitigate against the loss of Aboriginal cultural heritage values due to impacts arising from the development. In consultation with Knowledge Holders and a

large number of Registered Aboriginal Parties (RAPs), an array of cultural and scientific measures has been proposed. These include:

- The enhancement and extension of one voluntary conservation area and the creation of a new voluntary conservation area (**Section 9.1**).
- Increased RAP participation in the management of Aboriginal cultural heritage values at BCC including the creation of a Heritage Steering Committee<sup>1</sup>, annual RAP meetings and quarterly site inspections to monitor the integrity of sites within the BCC (**Section 9** and **Section 9.3**).
- A range of measures designed to enhance intergenerational equity within the Aboriginal community (summarised in **Section 9.4**).
- Undertaking of a comprehensive Care and Control program that will not only relate to the artefacts recovered from the BOP salvage program but will also include artefacts recovered from across the BCC over the years (**Section 9.7**).
- Measures to enhance the Aboriginal cultural heritage values within the BCC including site fencing, culturally-aware signage and the provision of facilities to allow access to the conservation areas by the Aboriginal community (**Section 9.1** and **Section 9.3.1**).

Through this range of measures, BCM hopes to improve partnership between the BCC and the Aboriginal community. BCM acknowledges that impacts to Aboriginal cultural heritage have occurred in the past, however, it is expected that these measures embody the more holistic Aboriginal cultural heritage aspirations held by the Aboriginal community and provide an adequate mitigation to the approved loss of Aboriginal cultural heritage values from many areas within the BCC.

To this end, this ACHMP is the policy document that sets out controls to ensure that the development either minimises impact to Aboriginal cultural heritage values or ensures that these values are maintained and/or enhanced.

The approved disturbance area associated with the BOP (as approved by DA SSD-4960 and subsequent Modifications) is shown on **Figure 4-1**.

BCM notified DPE of commencement of operations under the BOP consent in December 2014.

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<sup>1</sup> A Heritage Steering Committee was formed at the BCC. However, a review of this body's effectiveness in 2020 has resulted in the removal of the committee as BCM undertakes consultation with all RAPs.

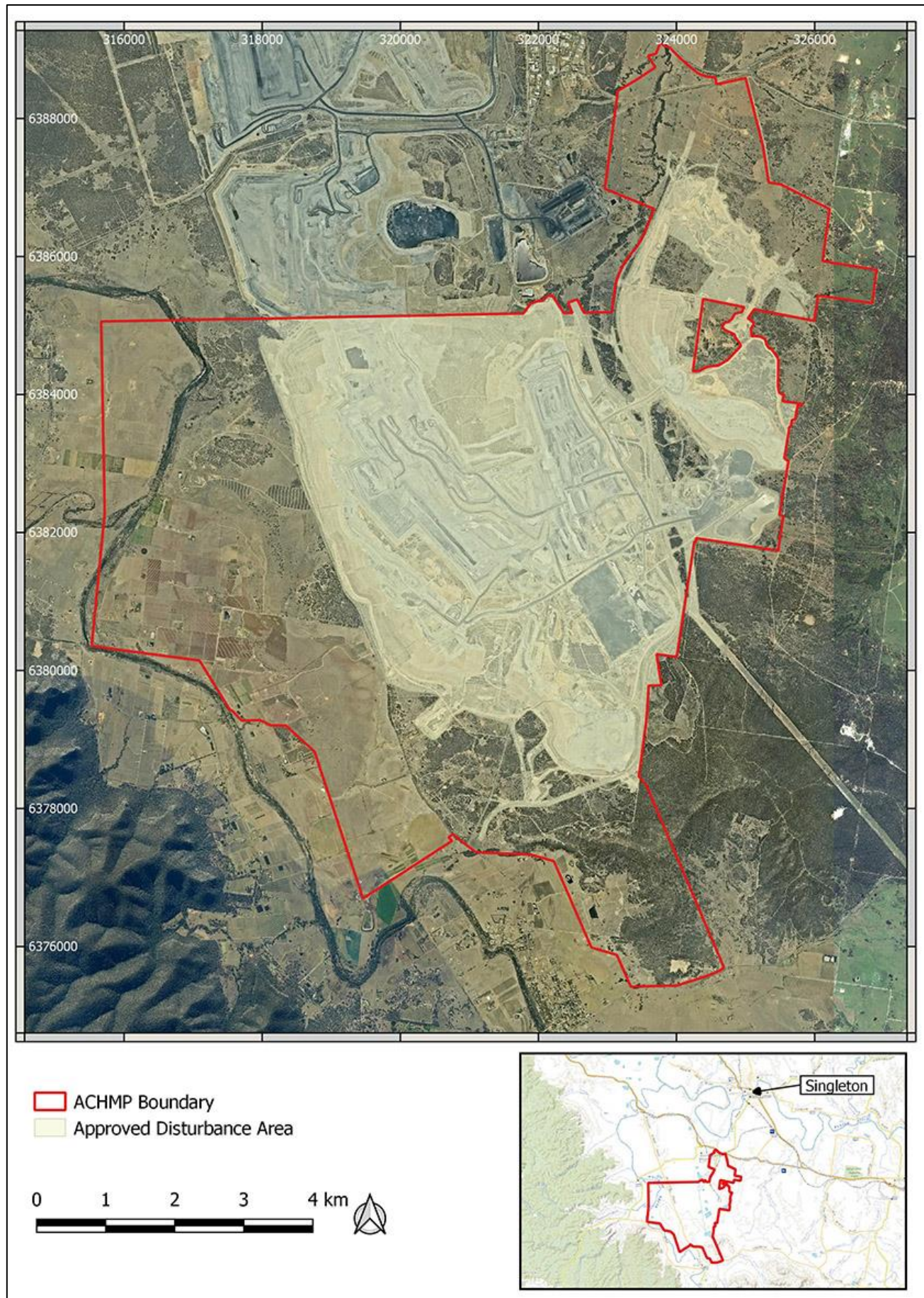


**Figure 4-1 – ACHMP Boundary and approved disturbance area**

## 4.2 Overview of Aboriginal Cultural Heritage at BCC

### 4.2.1 Aboriginal Cultural Values

RAPs have previously identified a range of cultural values and attachments to the BCC and the broader region, ranging from traditional connection to the area, historical attachments, connection to traditional homelands (Country), connection to community and reconnecting attachments.

RAPs have identified the BCC to be of high social, cultural and spiritual significance to Traditional Owners and Knowledge Holders and other RAPs, because it has spiritual and ceremonial associations to extremely high value sacred Creation and ceremonial places located within the region.

The BCC contains several specific archaeological sites of high cultural significance to RAPs, including Traditional Owners, and Knowledge Holders. The BCC was also identified as an area of continuing traditional and historic association for local Aboriginal families, which has been described as significant, although it is noted that the Project Area has been subject to mining activity for nearly 40 years.

### 4.2.2 Scientific Values

40 years of archaeological research has been completed within the BCC. The following general points can be made concerning the scientific (archaeological) values within the BCC based on this research:

- Most sites within the BCC are artefact scatters or isolated artefacts, although the area does include a modified tree, two grinding groove sites, and one relocated grinding groove site. Many artefact scatters are currently in poor condition due to the effects of erosion: either gully erosion completely removing sites, or soil loss from sheet wash erosion. Both erosion regimes can displace artefacts and remove archaeological deposits.
- The established site distribution within the BCC indicates that large sites and/or sites showing complexity are only found along waterways, while, in the majority, only low-density artefact scatters or isolated finds are located away from water.
- Artefact assemblage across the BCC shows that mudstone and silcrete were the most commonly used stone types for knapping. In much smaller quantities, quartz, quartzite, chert, volcanics, chalcedony and petrified wood were also recorded as raw materials used in artefact manufacture. Knapped glass artefacts have also been recorded at the BCC. This is similar to other sites in the region.
- Scientific significance of sites within the BCC have ranged from 'high' at sites displaying archaeological integrity and higher artefact densities to 'low' at sites displaying disturbance or low artefact densities. This significance assessment is substantiated by significant subsurface archaeological excavations that have taken place across the BCC.

### 4.2.3 Aboriginal Historical Values

The historic narrative identifies that the BCC area is associated with a range of historic persons, phases, activities, and events, with written records, oral histories and archaeology all contributing to a holistic and multi-faceted understanding of the Aboriginal histories of the area.

### 4.2.4 Aboriginal Aesthetic Values

RAPs have expressed a range of sensory perceptions in relation to the areas within the BCC. It was acknowledged that past land use and current mining has contributed to the loss of connectivity and pathways, disruptions to waterways, and disruption to the spiritual meanings and symbolism contained in the landscape. However, RAPs identified and retained heightened emotional cultural connection and concern for the BCC area and its cultural and archaeological values, which was described by some RAPs as being located within a place where there are the spirits of their ancestors, the memories of ancestors and the footprints (archaeological sites) of their ancestors (family) ceremonial and societal ways of life.

## 5 Approval to Operate

Operations at the BOC are carried out in accordance with the requirements of Development Consent DA SSD-4960 (as modified) and the BOP Environmental Impact Statement (Umwelt 2013a) and the Response to Submissions and Revised and Amended Project Application Report (Umwelt 2013b).

The BUO are carried out in accordance with the requirements of Development Consent DA 376-8-2003 and the Bulga Coal Continued Underground Operations Environmental Impact Statement (Umwelt 2003).

Applicable legislation is summarised in **Appendix B**.

### 5.1 Development Approvals

The BCC currently works under the Provisions of DA SSD-4960 for the BOC and DA 376-8-2003 for the BUO.

Conditions attached to both approvals, and their compliance in this ACHMP, are detailed in **Appendix B**.

### 5.2 Mining and Exploration Leases

The BCC currently works under the provisions of several mining leases, coal explorations licences and authorisations (ML1547, ML1494, EL5461, EL5277, AU450 and AU447). Conditions from these approvals that are relevant to the ACHMP are detailed in **Appendix B**.

### 5.3 Aboriginal Heritage Impact Permits/Consents

The BOC and BUO have been granted a number of Aboriginal Heritage Impact Permits (AHIPs; formerly known as Section 87 permits or Section 90 consents) in accordance with the *National Parks and Wildlife Act 1974* (NPW Act). Details concerning AHIPs issued in the past are in **Appendix C**. In addition, there has recently been management of Aboriginal sites undertaken under appropriate consents; most notably the BOP consent SSD-4960. Details concerning salvage works that have been completed under SSD-4960 are in **Appendix C**.

### 5.4 Care and Control of Salvaged Artefacts

The BCC currently adheres to the requirements of AHIPs/consents for the storage and curation of salvaged artefacts. Following receipt of any care and control permit, this ACHMP will be updated to document any required arrangements (see **Section 9.7**).

### 5.5 Approval of this Plan

Any modifications of this ACHMP must be submitted to the Secretary of DPE for approval prior to implementing the changes.

## 6 Consultation

### 6.1 Summary of Consultation Methods

The BCC continues to consult with RAPs regarding impacts associated with mining, progression rates of the mining, rehabilitation undertaken and conservation of Aboriginal archaeological sites.

Consultation with RAPs occurs or as a result of this plan is proposed to occur through the following mechanisms:

- Annual meeting with RAPs (see **Section 9.6**).
- Quarterly site visits to monitor Aboriginal cultural heritage issues (see **Section 9.3.1**).
- Further meetings to discuss survey or salvage methodology (where required).
- Other general paths on information including the bi-annual community newsletter and the company website.

As consultation on heritage matters occurs with all RAPs, the BCC Heritage Steering Committee formed in 2015 is no longer required. BCM will continue to consult with all RAPs on heritage related matters at Bulga Coal.

Consultation regarding this ACHMP has been undertaken with all RAPs (see **Appendix G**).

## 6.2 Consultation Associated with Previous ACHMPs (Versions 1-6)

Version 1 of the Bulga Open Cut ACHMP (ERM 2001) incorporates the results of consultation with the Wanaruah Local Aboriginal Land Council and the Wonnarua Tribal Council.

Similarly, Version 2, the Beltana AHMP (Beltana 2004), built on consultation undertaken as part of the Archaeological Assessment for Bulga Coal Continued Underground Operations Environmental Impact Statement (Umwelt 2003). 13 RAPs were consulted regarding the draft Version 2 of this ACHMP, including two meetings at which the information presented in the ACHMP was discussed and comments were sought from the stakeholder groups.

Consultation regarding Version 3 of this ACHMP took place during 2011. In 2011, 39 RAPs were registered to be consulted by the BCC. In May 2012, a two day workshop was held with all registered Aboriginal parties to discuss the BOP Aboriginal Cultural Heritage Assessment. A presentation was given on the progress of Version 3 of this ACHMP as part of the workshop, seeking further comment and input.

The draft Version 3 of this ACHMP was provided to all RAPs for comment. No comments were provided to the BCC. In May 2012 there were 62 RAPs registered to be consulted.

Consultation regarding Version 4 of this ACHMP took place during 2014. The draft Version 4 of the ACHMP was provided to all RAPs for comment on 3 July 2014. 63 RAPs were registered to be consulted at this time. Following the review period, comments were received from:

- Hecmo Consultants;
- Tocomwall Pty Limited/ Plains Clan of the Wonnarua People Native Title Group;
- Wanaruah Local Aboriginal Land Council;
- Wonnarua Nation/ Wonnarua People Native Title Group; and
- Wonnarua Traditional Custodians.

The draft Version 5 of this ACHMP was sent to RAPs on 1 May 2017. 63 RAPs were registered to be consulted at this time. No comments were received.

A draft of Version 6 of the ACHMP was sent to RAPs on 20 September 2018. 56 RAPs were registered to be consulted at this time. Following the review period, comments were received from:

- Tocomwall Pty Limited/ Plains Clan of the Wonnarua People (PCWP);
- Wanaruah Local Aboriginal Land Council; and
- Wonnarua Nation (WNAC).

A revised draft of Version 6 ACHMP was sent to RAPs on 11 June 2019. No comments were received. Version 6 of the ACHMP was approved by DPIE (now DPE) in July 2019.

## 6.3 Consultation regarding this ACHMP (Version 7)

A draft of Version 7 ACHMP was sent to the 53 RAPs currently on the Bulga RAP list on 5 November 2020 (**Appendix G**).

No requests for change or revisions were received.

A draft of Version 7 ACHMP was sent to the Biodiversity and Conservation Division for review (**Appendix G**). This request was forwarded to Heritage NSW.

On 3 December 2020, Heritage NSW relied:

*HNSW is satiated that the revised ACHMP adequacy addresses the ongoing management of Aboriginal sites and values across the project area and that consultation with the registered Aboriginal parties has been appropriately undertaken and will be maintained for the life of the project.*

The Heritage NSW letter is presented in **Appendix G**.

A draft of Version 7 ACHMP was sent to the Singleton Council for review and comment. Despite repeated requests for comments (**Appendix G**), no comments were received.

## 6.4 Ongoing Consultation with RAPs

BCM undertake to continue the extensive consultation with RAPs concerning Aboriginal cultural heritage with the BCC. This consultation includes RAP involvement in the quarterly site monitoring program and other inspections and/or meetings as are deemed necessary.

In the event of an incident whereby harm has occurred to an Aboriginal cultural heritage site, once the incident has been verified and understood, the RAPs will be notified as soon as practically possible.

Any further revisions of this ACHMP will require RAP consultation.

# 7 Previous Archaeological Investigation at the Bulga Coal Complex

A detailed database of Aboriginal archaeological sites previously identified within the BCC has been developed to assist in the management of Aboriginal cultural heritage (as will be discussed further in **Section 9.8**). There are 112 valid sites within the Bulga ACHMP Boundary that have been previously identified and registered either on the Heritage NSW Aboriginal Heritage Information Management System (AHIMS) database and the BCC Geographical Information System (GIS) system. However, of these sites, 12 have been excluded from **Figure 7-1** for the reasons set out in **Table 7-1**. Of the 100 sites shown on **Figure 7-1**, ten sites have been 'partially destroyed' under permit

These sites remaining in the landscape consist of site complexes (a grouping of dispersed artefact scatters), artefact scatters (including those with associated potential archaeological deposit, PAD), isolated artefacts, two groups of grinding grooves, one set of relocated grinding grooves, and a scarred tree.

These sites have been identified during previous archaeological investigations that cover 43 years at the BCC. A summary of these previous archaeological investigations and the sites that have been salvaged under various permits is summarised in **Appendix C** and **Appendix E**.

**Table 7-1 – Categorisation of all valid sites at the BCC**

| Description of site status                                                                                  | Number of sites                                           |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Sites outside of approved disturbance included in the quarterly monitoring program ( <b>Section 9.3.1</b> ) | 80<br>(shown on <b>Figure 7-1</b> and <b>Figure 9-3</b> ) |

|                                                                                                                                                                                                                                                                 |                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Sites outside of approved disturbance but <u>not</u> included in the quarterly monitoring program as they are on private property or are an artefact reburial site ( <b>Table 9-3</b> )                                                                         | 20<br>(shown on <b>Figure 7-1</b> and <b>Figure 9-7</b> ) |
| Sites listed as 'valid' with AHIMS but where poor documentation does not allow the site location to be known (Saxonvale, 37-6-0137; PAD Hunter Gas, 37-6-1422)                                                                                                  | 2<br>(not shown on <b>Figure 7-1</b> )                    |
| Sites listed as 'valid' with AHIMS but are part of the larger site complexes denoted as NMC site North Complex and NMC site South Complex (37-6-0146, Saxonvale E; 37-6-0424, B2; 37-6-0425, B3; 37-6-0533, B57; 37-6-1415, BCO23; and 37-6-1418, BCO26)        | 6<br>(not shown on <b>Figure 7-1</b> )                    |
| Sites currently listed with AHIMS as 'valid' but where approval to harm by BOP Modification 3 or DA 376-8-2003 Modification 7 has been consented ( <b>Section 8.1.2</b> ) (37-6-1659, BP L5; 37-6-1660, BP L6; 37-6-2844, BOP OS-10; and 37-6-3763, Bulga IF-2) | 4<br>(not shown on <b>Figure 7-1</b> )                    |
| <b>Total valid sites at the BCC prior to BOP Modification 3 and DA 376-8-2003 Modification 7 salvage</b>                                                                                                                                                        | <b>112</b>                                                |

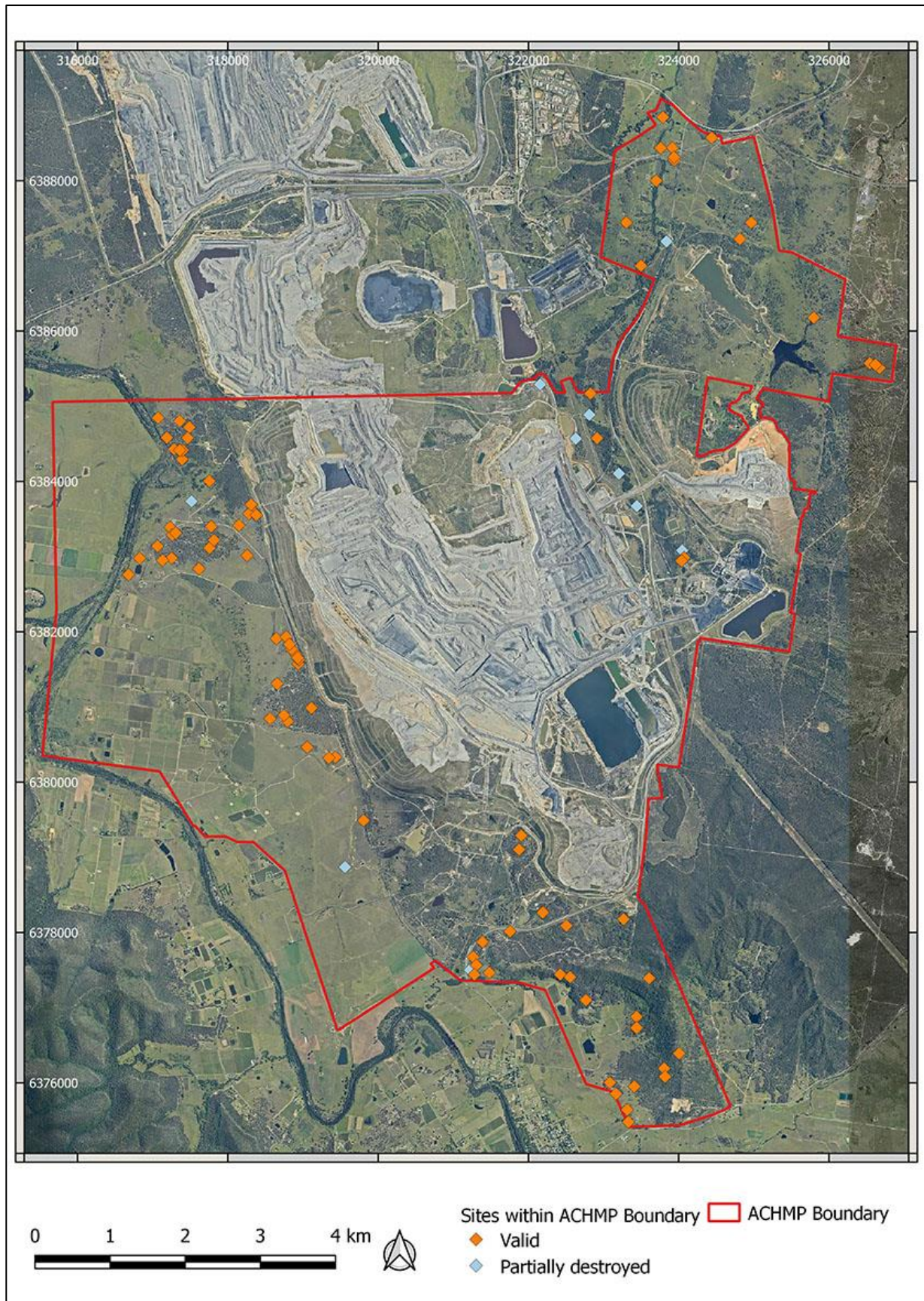


**Figure 7-1 – All sites currently in the ACHMP Boundary, showing current status**

## 8 Current Impacts to Aboriginal Cultural Heritage

Prior to the establishment of any new mining areas, planning approvals are sought to comply with relevant legislation (as discussed above). As part of this process, an assessment is undertaken that includes consideration of the likelihood that the proposed mining activities will result in harm to Aboriginal objects. Measures to appropriately mitigate and manage any such harm are also specified, as determined in consultation with the relevant Aboriginal parties at the time. The following sections summarise the assessed and approved interactions between mining activities and Aboriginal cultural heritage associated with the BOC and BUO.

### 8.1 Bulga Open Cut

All known Aboriginal sites within the approved disturbance area for the BOP as it existed in 2014, have been salvaged under the conditions set out in the 2014 version of this plan (Version 4). As such, there are no remaining Aboriginal cultural heritage constraints within the approved operational area of the BOC, apart from those associated with Modification 3 (see below).

A number of sites are located outside of the approved disturbance area for the BOP, and these will be managed in situ.

**Table 12-4** to **Table 12-6** set out how the relevant conditions related to Aboriginal cultural heritage have been implemented.

#### 8.1.1 BOP Modification 1

During 2017 BCM gained approval for a modification to the design of the Eastern Emplacement located in the central-east of the ACHMP Boundary (Modification 1 to SSD-4960).

This Modification is located within Lot 82 DP 1006883 and Lot 1 DP 136366 and covers approximately 89 hectares. Heritage assessment of the Modification Area by an archaeologist and RAPs took place on 12 February 2016 (OzArk 2016b). As a result, one new site (BOP IF-8; 37-6-3661) was recorded, an unsuccessful attempt was made to locate site BOP OS-2 (37-6-3661), and the visible northern portions of BOP SC-3 (37-6-2847) were inspected.

In 2018 following consent of SSD-4960 Modification 1, the three sites within the impact area that were salvaged under the conditions set out in Version 5 of this plan (OzArk 2018c).

Salvage at the remaining northern portion of BOP-SC3 recovered 25 artefacts. A single artefact was recovered from BOP-OS2 and no artefact was able to be located at BOP IF-8.

#### 8.1.2 BOP Modification 3 and DA 376-8-2003 Modification 7

BCM gained State approval for Modification 3 to SSD-4960 and DA 376-8-2003 Modification 7 in July 2020<sup>2</sup>. Modifications 3 and 7 are designed to maximise resource recovery within the approved BOP Area by a relatively small extension of the open cut operations to the southeast into a former open cut mining area occupied by the current Tailings Storage Facilities known as Deep Pit and Bayswater Pit.

The extension of the pit to the southeast also enables extraction of additional deeper resources below parts of the currently approved Bulga open cut operation.

BCM will carry out the development in accordance with the consents for Modifications 3 and 7 and the general layout of the development.

Assessment by an archaeologist and RAPs of the impact area for Modifications 3 and 7 was undertaken in 2018 (OzArk 2019b). This visual inspection recorded two isolated finds (Bulga IF-3

<sup>2</sup> BOP Modification 2 was related to the timing for the construction of the noise and visual bund and did not have any Aboriginal cultural heritage implications.

(37-6-3880) and Bulga IF-4 (37-6-3881)) and visited the location of four previously recorded sites that are located within the impact area.

Bulga IF-3 (37-6-3880) and Bulga IF-4 (37-6-3881) were subsequently unintentionally destroyed, and when the incident was noticed, the issue was self-reported to Heritage NSW (then Office of Environment and Heritage) and administrative mechanisms were put in place to ensure that the oversight would not occur again (see **Section 9.9.3**). Please refer to Section 11.3.1 of the 2018 Annual Review that discusses the details of the incident and corrective actions taken.

As a result, four Aboriginal sites as shown in **Table 8-1** will be harmed by Modifications 3 and 7. All sites will be salvaged following the methodology set out in **Section 9.2.1.2**.

**Table 8-1 – Sites impacted by BOP Modification 3 and or DA 376-8-2003 Modification 7**

| AHIMS #   | Site name  | Site description                                                    |
|-----------|------------|---------------------------------------------------------------------|
| 37-6-1659 | BPL5       | Artefact scatter in an area of high disturbance                     |
| 37-6-1660 | BPL6       | Isolated find in an area of high disturbance                        |
| 37-6-2844 | BOP-OS10   | Artefact scatter partially salvaged during the BOP salvage program. |
| 37-6-3763 | Bulga IF-2 | Isolated find                                                       |

## 8.2 Bulga Underground Operations

Bulga Underground Operations ceased underground mining in May 2018. However, gas drainage infrastructure, the gas fired power station and goaf flares are still currently being operated by Bulga Coal.

Since 2019, an additional site to those documented in Version 6 (2019) of this plan has been recorded (**Table 8-2**). This recording was the result of observations made during the quarterly site monitoring (**Section 9.3.1**).

**Table 8-2 – Sites recorded after 2019**

| AHIMS #   | Site name | Site description                                                                    |
|-----------|-----------|-------------------------------------------------------------------------------------|
| 37-6-3931 | Bulga OS1 | Artefact scatter: five artefacts located in an area impacted by sheet wash erosion. |

# 9 Aboriginal Cultural Heritage Management

## 9.1 Conservation Areas

There are two conservation areas under BCC management: the Wollombi Brook Conservation Agreement Area (WBCAA) and the Loders Creek Grinding Grooves Conservation Area (LCGGCA).

The WBCAA was expanded in 2014 as a result of the BOP consent being granted and the LCGGCA was established during 2015 to place the relocated rock slabs containing grinding grooves removed from the Loders Creek Grinding Grooves site (37-6-0148) during the BOP salvage program.

Each of the conservation areas will be discussed separately below. The locations of the conservation areas are shown on and **Figure 9-2**.

### 9.1.1 Wollombi Brook Conservation Agreement Area

The WBCAA is within Lot 6 and 7, DP 10022, Lot 125, DP 755270, and Lot 852, DP 612261, Parish of Wollombi, County of Hunter, and occupies 120 hectares (ha).

The WBCAA is shown on Figure 2 of Appendix 10 of the development consent and on **Figure 9-1**.

Full archaeological assessment of the WBCAA has taken place (OzArk 2015b). As a result, ten sites have been recorded in the WBCAA (six artefact scatters and four isolated finds;

**Table 9-1**). The WBCAA is also the location for an artefact reburial site. Given the landforms contained within it, there is a high likelihood that the WBCAA contains significant archaeological potential. The WBCAA also preserves and enhances the considerable cultural values associated with this location.

**Table 9-1 – In Situ sites at the Wollombi Brook Conservation Agreement Area**

| AHIMS ID  | Site Name                 | Site Type         | GDA Zone 56<br>East | GDA Zone 56<br>North |
|-----------|---------------------------|-------------------|---------------------|----------------------|
| 37-6-1401 | BCO10                     | Artefact Scatter  | 317514              | 6383736              |
| 37-6-1604 | Bulga Conservation Area 1 | Artefact Scatter  | 317389              | 6384294              |
| 37-6-2811 | WB1                       | Artefact Scatter  | 317187              | 6384582              |
| 37-6-2882 | WB2                       | Isolated Find     | 317070              | 6384846              |
| 37-6-2884 | WB4                       | Artefact Scatter  | 317487              | 6384721              |
| 37-6-2885 | WB5                       | Isolated Find     | 317359              | 6384803              |
| 37-6-2886 | WB6                       | Artefact Scatter  | 317464              | 6384578              |
| 37-6-3355 | WBCAA OS-1                | Artefact Scatter  | 317283              | 6384429              |
| 37-6-3356 | WBCAA IF-1                | Isolated Find     | 317398              | 6384416              |
| 37-6-4170 | WBCAA artefact reburial   | Artefact reburial | 317359              | 6384416              |
| 37-6-4195 | WBCAA IF-2                | Isolated Find     | 317751              | 6384006              |

### 9.1.2 Loders Creek Grinding Grooves Conservation Area

The Loders Creek Grinding Grooves Conservation Area (LCGGCA) is a 1.2ha area on either side of Loders Creek within Lot 15 DP1141621. The LCGGCA is approximately 200 metres (m) west of Broke Road and is accessed from Broke Road via the gate to 154 Broke Road Mount Thorley NSW 2330 (**Figure 9-2**).

As a condition of the BOP development consent, BCM have secured and maintain the LCGGCA on Loders Creek downstream from the former location of the Loders Creek Grinding Grooves (37-6-0148). This area was established to enable the Loders Creek Grinding Grooves to be relocated to this conservation area. The relocated grinding grooves at the LCGGCA now are registered with AHIMS as site 37-6-3483. The relocated Loders Creek Grinding Grooves is the only site within the LCGGCA.

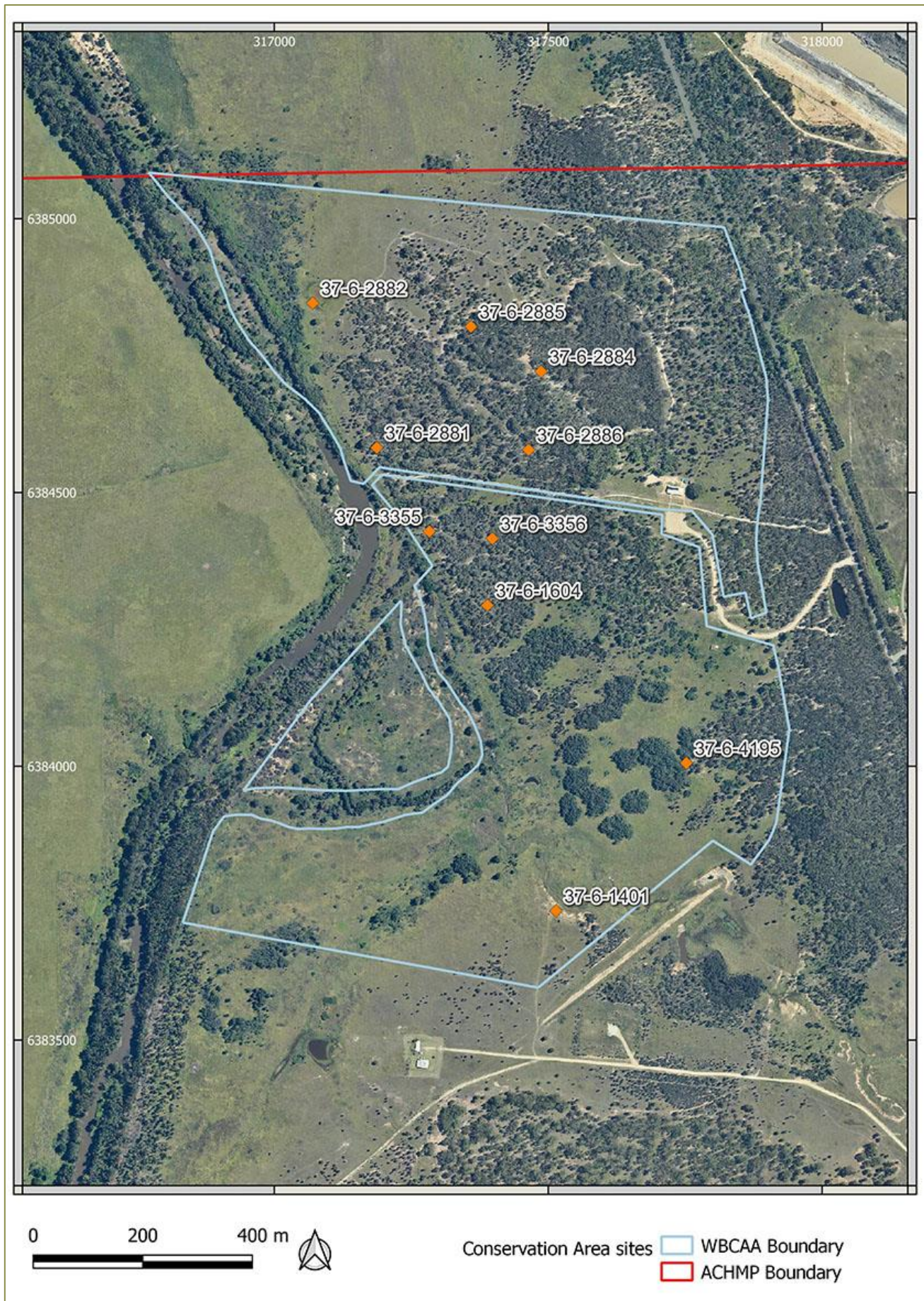


**Figure 9-1 – Location of the WBCAA and in-situ sites**

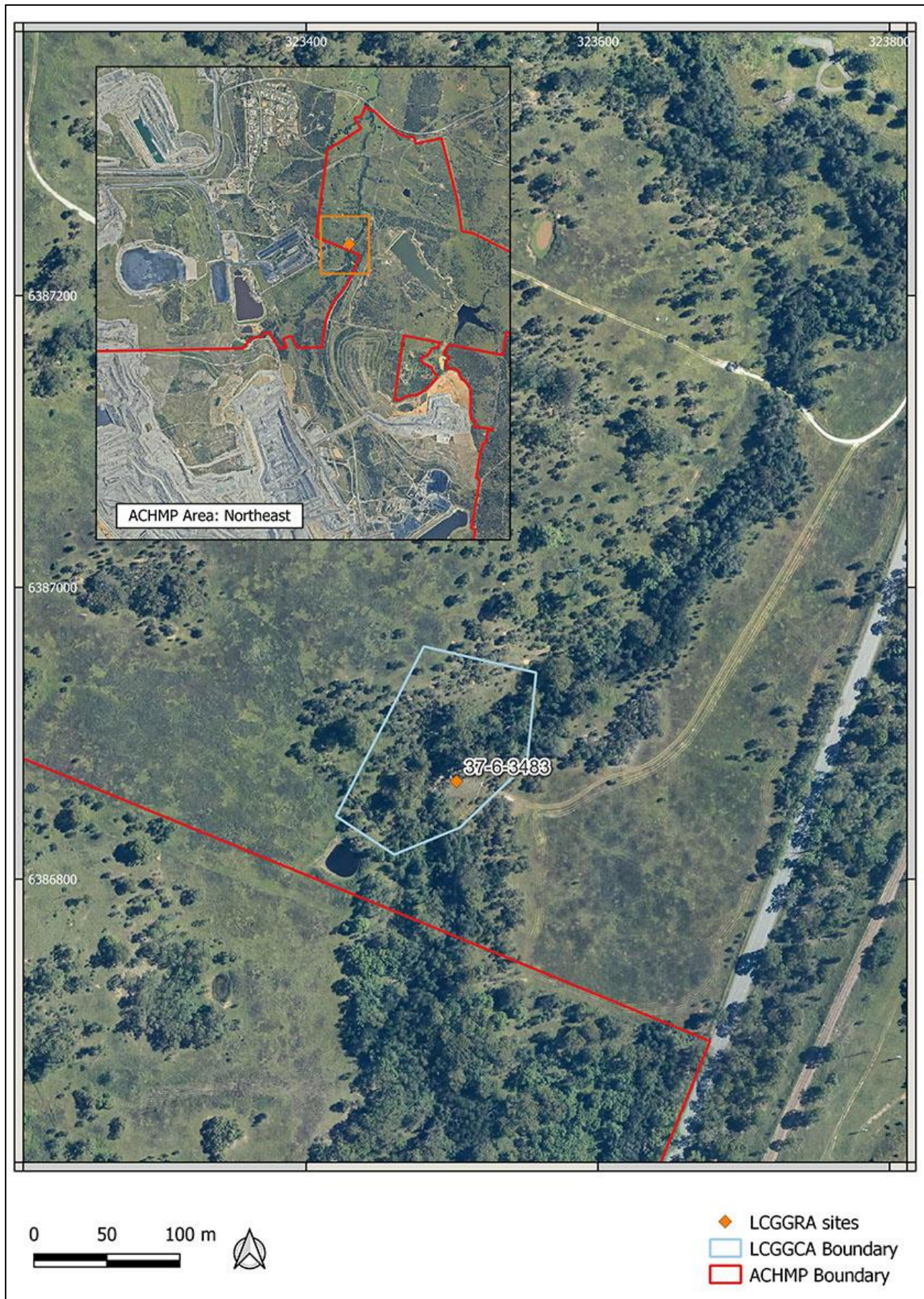


Figure 9-2 – Location of LCGGRA and in-situ sites

### 9.1.3 Management of Conservation Areas

Each conservation area is managed by a Plan of Management. These Plans of Management detail the required environmental management within the conservation areas (e.g. bushfire, weed, erosion and feral animal controls) in consultation with RAPs. The plans are available on the Bulga Coal website ([glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans](http://glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans)) and links have been provided in **Appendix I** - and **Appendix H** -

The conservation areas will be inspected as part of the quarterly monitoring program to ensure that they are not being adversely impacted and to monitor the effects of activities required under the appropriate Plan of Management. The monitoring will provide the opportunity to consider the condition of each conservation area and identify the need for any additional protective measures, if required. A summary of the monitoring will be included within the BCC Annual Review (**Section 9.9.7**).

#### 9.1.3.1 Wollombi Brook Conservation Agreement Area

The Wollombi Brook Conservation Area Plan of Management the WBCAA was developed by a qualified professional in consultation with both RAPs and BCM ([BULCX-2103827161-7678 Wollombi Brook Conservation Area Plan of Management](#)). The Plan of Management was approved by DPE on 30 November 2017. The Plan of Management is available on the Bulga Coal website ([glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans](http://glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans)) and a link has been provided in **Appendix I** - .

To inform the Plan of Management an Aboriginal Cultural Heritage Assessment was undertaken for the WBCAA and included a non-invasive archaeological investigation by a qualified archaeologist and RAPs. The findings from this investigation were incorporated into a Plan of Management for the WBCAA which prescribed management controls designed to conserve any identified Aboriginal sites in situ, enabling these sites to be studied and conserved within the landscape.

The Plan of Management considers Condition 29 of DA SSD-4960 that states:

*Wollombi Brook Conservation Area: Existing vegetation to be enhanced and additional vegetation to be established, with the restoration of at least 10ha of the Warkworth Sands Woodland EEC and 16ha of the Central Hunter Grey Box-Ironbark Woodland EEC.*

The condition that 26ha of the total 120ha (22% of total area) contained within the WBCAA is to be revegetated must be done in such a way that the cultural values within the WBCAA are maintained or improved. This will include consultation with RAPs concerning the location of the revegetation programs with the view to preserve known heritage sites and to ensure that the revegetation program does not limit Aboriginal access or other potential uses, such as those associated with the Minimbah Teaching and Keeping Place (see **Section 9.7**) that has been constructed at the WBCAA.

To assist with access to the WBCAA, BCM has also provided all weather access, car parking, toilets, and shelter at the Minimbah Teaching and Keeping Place.

The WBCAA has been secured under a Conservation Agreement (CA) in consultation with BCD and as administered by the Minister administering the *National Parks and Wildlife Act 1974* (NPW Act). This CA is a legal agreement under section 69 of the NPW Act for an area of land with significant conservation value. These CAs are legally binding on both current and future landholders and is registered on the land title. The CAs document the conservation values present and ensure their conservation as per Schedule 3 Condition 40 of the SSD-4960 Development Consent.

Management measures at the WBCAA are ongoing and include site monitoring (**Section 9.3**) and specific management measures contained in the WBCAA Plan of Management (Section 8). All actions that may harm Aboriginal objects is undertaken in consultation with the RAPs. Management measures outlined in the Plan of Management include the provision of access for teaching purposes, monitoring erosion at archaeological sites, ensuring revegetation works do not harm Aboriginal objects, managing impacts to archaeological sites by weeds and feral animals, managing impacts to archaeological sites associated with bushfire management, procedures for accidental impacts to Aboriginal objects, and providing access for archaeological research.

### 9.1.3.2 Loders Creek Grinding Grooves Conservation Area

In 2015 two Plans of Management were developed in consultation with the RAPs and Heritage NSW (then OEH). These plans, approved by the DPE, governed the relocation of the Loders Creek Grinding Grooves (site 37-6-0148). Specifically, these were:

- a) Loders Creek Grinding Grooves Plan of Management Stage 1: This plan set out the methodology for locating and cleaning the grinding grooves following sedimentation within the creek channel; and
- b) Loders Creek Grinding Grooves Plan of Management Stage 2: This plan set out the methodology for relocating the grinding grooves from their original location to the LCGGCA.

Both plans are now redundant as the grinding grooves were successfully relocated to the LCGGCA in 2015. The plans are available on the Bulga Coal website ([glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans](http://glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans)).

The Loders Creek Grinding Grooves Conservation Area Management Plan for the ongoing management of the LCGGCA was prepared by a qualified professional in consultation with RAPs, and BCM (BULCX-2103827161-7678 Loders Creek Grinding Grooves Conservation Area Management Plan). The Plan of Management was approved by DPE on 3 April 2019. The Plan of Management is available on the Bulga website ([glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans](http://glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans)) and a link has been provided in **Appendix H** - .

This Plan of Management pertains to activities associated with the LCGGCA. The plan is to provide management protocols for the LCGGCA to ensure that the relocated stone slabs containing the grinding grooves formerly located at site 37-6-0148 are conserved within the landscape.

The Plan of Management provides determinations on:

- Maintenance of the LCGGCA so that its natural and cultural values are maintained or enhanced;
- Appropriate methodologies to provide access to Aboriginal community members to the LCGGCA; and
- Appropriate methodologies, if deemed necessary, to provide heritage interpretation at the site such as explaining the cultural significance of the site and recording the original location and context of the grinding grooves.

Management at the LCGGCA is ongoing and includes an annual photographic monitoring of the site to ensure that any changes to the integrity of the site is documented so that remedial actions (if appropriate) can be implemented. An objective of the annual monitoring is to evaluate the effectiveness of any management measures previously recommended.

Interpretation signage for the site has been developed and it is planned to install the interpretation sign at the site.

The LCGGCA is also monitored quarterly to ensure that the area is appropriately maintained in terms of grass and weed control.

As per Schedule 3 Condition 40 of the SSD-4960 Development Consent, BCM is in ongoing consultation with Heritage NSW to secure the LCGGCA in perpetuity. However, the exact mechanism to allow this to happen is unclear, and in the interim, BCM undertakes to maintain the LCGGCA for its Aboriginal cultural values.

## 9.2 Previously Unrecorded Finds

### 9.2.1 Sites Recorded Within Approved Disturbance Areas

There may be recorded further Aboriginal sites or objects within approved disturbance areas (**Figure 4-1**). Such a scenario will probably only refer to very low-density artefact scatters or isolated finds.

In such cases, the newly recorded site will be inspected by a qualified archaeologist. An assessment of scientific significance will be developed by the archaeologist and the site will be managed under the

terms of this ACHMP. If harm to a newly recorded site is likely, it will be appropriately salvaged, under the terms of this ACHMP, without an AHIP being applied for.

A site card registration for any new site will be submitted to AHIMS.

### 9.2.1.1 Protocol for Previously Unrecorded Finds Within Approved Disturbance Areas

Should items that are believed to be Aboriginal objects be noted, all work in the immediate vicinity of the find will cease and advice will be sought from a qualified archaeologist as to the significance and possible management of the find. No works will re-commence in the area until the find has been appropriately assessed.

Items or sites assessed as having low scientific values will be managed by undertaking a collection of surface artefacts (**Section 9.2.1.2**). Sites assessed as having moderate or high scientific values will be managed through limited archaeological excavation (**Section 9.2.1.3**).

Any salvage within the approved disturbance area will take place in consultation with the RAPs.

### 9.2.1.2 Surface Artefact Collection

If a newly recorded site is assessed as having low scientific values, it will be salvaged through a collection of all surface artefacts by qualified archaeologists and RAPs using the following methodology:

- All visible artefacts at a site will be flagged in the field;
- The site will be photographed after flagging and before recording;
- All artefacts will have the following artefact information recorded:
  - Location;
  - Artefact Class;
  - Artefact Type;
  - Size;
  - Reduction level;
  - Raw Material; and
  - Notes.
- A selection of indicative and / or unusual artefacts from each site will be photographed;
- A sketch plan of the site will be completed if it will be informative to the site's interpretation;
- Once all recording is complete, the artefacts will be collected with artefacts from each site being kept separate.
- If at the time of salvage there is evidence that subsurface deposits exist at a particular site then, with the agreement of the archaeologist and RAPs present, archaeological salvage will take place at that site (see **Section 9.2.1.3**);
- Should the excavations encounter a human burial, all work will cease in the area and advice from authorities and RAPs (should the remains be Aboriginal) sought (see **Section 9.2.3**);
- The findings should be incorporated into a report held by BCM;
- All artefacts will be retained by BCM for safe-keeping and placed in the artefact storage facility at the WBCAA when it is constructed; and
- Following salvage, an Aboriginal Site Impact Recording Form (ASIRF) will be submitted to AHIMS.

### 9.2.1.3 Limited Archaeological Excavation

If a newly recorded site is assessed as having moderate or high scientific values, it will be salvaged through a program of limited archaeological excavation by qualified archaeologists and RAPs using the following methodology:

- All surface artefacts will be collected and moved to a place of safe-keeping under the methodology set out in **Section 9.2.1.2**. This is to ensure that the artefacts are not harmed during the following excavation process;
- Ten 0.5m x 0.5m excavation squares (2.5 square metres) will be excavated to culturally sterile soil levels at any one site. All investigations will be within the approved disturbance area;
- It will be possible to conduct up to five shovel pits (approximately 0.15m x 0.15m) at any location to help determine the placement of excavation squares;
- The ten excavation squares could be grouped together or spaced at no more than 5m apart. Thus, a 45m transect could be investigated, or a 2.5 square metre contiguous area excavated.
- Spits at each area will start in 5cm increments although 10cm increments could be used once it is established it is archaeologically prudent to do so;
- All deposits will be dry sieved at location;
- All recording will be done in the field in standard context sheets and the archaeologist will ensure that all necessary photographs, section drawings and soil analysis shall take place;
- A maximum area of 2.5 square metres shall be excavated at any one area unless deposits and finds warranted a further expansion (see below);
- The decision to expand from the mandated 2.5 square metres shall be determined by the results of the ten 0.5m x 0.5m squares and will be done in consultation between the archaeologists and RAPs present. The ultimate decision of whether expansion is warranted will rest with the Excavation Director. It will be possible, if agreement is reached between the archaeologist and RAPs present, to expand beyond the 2.5 square metres should deposits or finds indicate that it would be desirable. The grounds for expansion will include:
  - The complete excavation of a feature (such as a hearth) that may have been intersected by an excavation square; and
  - The complete excavation of a concentration of artefacts such as a knapping floor that may have been intersected by an excavation square.
- Any expansion beyond the 2.5 square metres will include areas totalling no more than an additional four 0.5m x 0.5m squares [one square metre] unless the results indicate that it is essential that further expansion take place. Any decisions related to further expansions will rest with the Excavation Director;
- Should the excavations encounter a human burial, all work will cease in the area and advice from authorities and RAPs (should the remains be Aboriginal) sought (see **Section 9.2.3**);
- All excavated material (stone tools, bone, shell etc.) will be fully analysed and a report of the findings prepared; and
- Following salvage, an ASIRF will be submitted to AHIMS.

## 9.2.2 Sites Recorded Outside of Approved Disturbance Areas

New sites recorded outside of approved disturbance areas (**Figure 4-1**), but within the ACHMP Boundary, would be managed under this ACHMP. However, should impacts to these sites be proposed, these sites would require an AHIP application to be made to Heritage NSW and could not be salvaged under the terms of this ACHMP.

A site card registration for any new site would be submitted to AHIMS.

## 9.2.3 Management of Potential Human Skeletal Remains

If human/possible human skeletal material is exposed within the BCC or in association with works being done on behalf of the BCC, it will be managed in accordance with legal requirements, the wishes of the relevant Aboriginal parties and Heritage NSW requirements. Should human/possible human skeletal material (single bones or an intact burial) be located within any area, it will be managed in accordance with the procedure outlined below.

- Work in the immediate vicinity of the skeletal material will cease to allow assessment and management.
- The skeletal material will be inspected to determine if it is human or animal. If necessary, advice will be sought from a forensic specialist.
- If the skeletal material is human or thought to be human, NSW Police and Heritage NSW will be contacted. A physical or forensic anthropologist will be engaged to inspect the remains in situ and make a determination of ancestry (Aboriginal or non-Aboriginal) and antiquity (pre-contact, historic or forensic). If the remains are identified as forensic the area is deemed as crime scene or if the remains are identified as Aboriginal, the site is to be secured and Heritage NSW and all RAPs will be advised. If the remains are non-Aboriginal (historical) remains, the site is to be secured and Heritage NSW is to be contacted.
- Work must not recommence in the area until authorised by NSW Police Force and Heritage NSW.

The above process functions only to appropriately identify the remains and secure the site. From this time, the management of the remains is to be determined through liaison with Heritage NSW and RAPs.

## 9.3 Ongoing Aboriginal Cultural Heritage Monitoring

### 9.3.1 Quarterly Site Visits

BCM has initiated quarterly site visits involving both an archaeologist and RAP representatives. The aim of these visits is to allow RAPs to remain acquainted with Aboriginal cultural heritage at the BCC and to directly address any issues they may have concerning Aboriginal cultural heritage within the BCC.

The quarterly visits will each concentrate on different areas of the BCC, so that all areas of the complex are covered over the course of the program.

The aim of the monitoring program is to provide input into the care and maintenance of Aboriginal cultural heritage at the BCC including upgrades to signage and issues regarding site maintenance (erosion/weed/sediment control) and/or security (site fencing). The monitoring program reports are available on the Glencore website (<https://www.glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans>) and discussed at the annual meeting.

The quarterly monitoring reports will evaluate the effectiveness of the program and determine if actions recommended in the previous monitoring program have been adequately implemented. It is the responsibility of BCM to ensure that all reasonable recommendations from the monitoring program are implemented.

#### 9.3.1.1 Sites to be Monitored during Quarterly Site Visits

There are 80 Aboriginal sites that are known to exist on the BCC that are outside of approved disturbance areas and will not be harmed by approved mining activities (**Figure 9-3** to **Figure 9-6**; **Table 9-2**). As shown in **Table 7-1**, the sites to be monitored are also outside of privately owned/leased land. The identification numbers shown against sites in **Figure 9-3** correlate to the numbering on **Table 9-2** and **Figure 9-3** to **Figure 9-6**. The care and maintenance of these 80 sites will be the focus on the monitoring program.

**Table 9-2 – All sites included in the quarterly monitoring program**

| ID | AHIMS ID  | Site Name | Site Type                             | Status | GDA Zone 56 (East) | GDA Zone 56 (North) |
|----|-----------|-----------|---------------------------------------|--------|--------------------|---------------------|
| 1  | 33-6-0031 | B-HEDCMT  | Modified Tree - Possible Scarred Tree | valid  | 326673             | 6385510             |

| ID | AHIMS ID  | Site Name                   | Site Type                    | Status              | GDA Zone 56 (East) | GDA Zone 56 (North) |
|----|-----------|-----------------------------|------------------------------|---------------------|--------------------|---------------------|
| 2  | 33-6-0032 | B-HED AS 1                  | Artefact - Scatter           | valid               | 326543             | 6385572             |
| 3  | 33-6-0033 | B-HED AS 2                  | Artefact - Scatter           | valid               | 324965             | 6387444             |
| 4  | 33-6-0034 | B-HED AS 3                  | Artefact - Scatter           | valid               | 325797             | 6386179             |
| 5  | 33-6-0035 | B-HED IF 2                  | Artefact - Isolated Find     | valid               | 326619             | 6385553             |
| 6  | 33-6-0036 | B-HED IF 3                  | Artefact - Scatter           | valid               | 324815             | 6387225             |
| 7  | 37-6-0145 | Nine Mile Creek (Saxonvale) | Artefact - Scatter           | partially destroyed | 324045.2           | 6383085             |
| 8  | 37-6-0423 | B1                          | Artefact - Scatter           | valid               | 322825             | 6385170             |
| 9  | 37-6-0428 | Bulga 6                     | Modified Tree - Scarred Tree | valid               | 318360             | 6383577             |
| 10 | 37-6-0661 | W5                          | Artefact - Scatter           | partially destroyed | 322155             | 6385290             |
| 11 | 37-6-0902 | SBU3                        | Artefact - Scatter           | valid               | 321905             | 6379290             |
| 12 | 37-6-0905 | SBU6                        | Artefact - Isolated Find     | valid               | 322505             | 6378090             |
| 13 | 37-6-0908 | SBU9                        | Artefact - Scatter           | valid               | 321876             | 6379103             |
| 14 | 37-6-0910 | SBU11                       | Artefact - Isolated Find     | valid               | 323606             | 6377391             |
| 15 | 37-6-0950 | BMU18                       | Artefact - Scatter           | valid               | 318645             | 6381910             |
| 16 | 37-6-0951 | BMU17                       | Artefact - Isolated Find     | valid               | 318934             | 6381573             |
| 17 | 37-6-0952 | BMU16                       | Artefact - Scatter           | valid               | 318655             | 6381310             |
| 18 | 37-6-0953 | BMU15                       | Artefact - Scatter           | valid               | 318795             | 6380810             |
| 19 | 37-6-0954 | BMU14                       | Artefact - Scatter           | valid               | 318745             | 6380890             |
| 20 | 37-6-0955 | BMU13                       | Artefact - Scatter           | valid               | 318561             | 6380845             |
| 21 | 37-6-0956 | BMU12                       | Artefact - Isolated Find     | valid               | 319111             | 6380987             |
| 22 | 37-6-0968 | BMU21                       | Artefact - Scatter           | valid               | 319055             | 6380465             |

| ID | AHIMS ID  | Site Name                  | Site Type                  | Status              | GDA Zone 56 (East) | GDA Zone 56 (North) |
|----|-----------|----------------------------|----------------------------|---------------------|--------------------|---------------------|
| 23 | 37-6-0977 | BP2                        | Artefact - Scatter         | valid               | 319805             | 6379490             |
| 24 | 37-6-1401 | BCO10                      | Artefact - Scatter         | partially destroyed | 317514             | 6383736             |
| 25 | 37-6-1402 | BCO6                       | Artefact - Isolated Find   | valid               | 321755             | 6378014             |
| 26 | 37-6-1403 | BCO11                      | Artefact - Scatter         | valid               | 317815             | 6383221             |
| 27 | 37-6-1404 | BCO12                      | Artefact - Isolated Find   | valid               | 317260             | 6383290             |
| 28 | 37-6-1405 | BCO13                      | Artefact - Scatter         | valid               | 317250             | 6382980             |
| 29 | 37-6-1406 | BCO14                      | Artefact - Scatter         | valid               | 317129             | 6382952             |
| 30 | 37-6-1407 | BCO15                      | Artefact - Scatter         | valid               | 317063             | 6383139             |
| 31 | 37-6-1454 | BMU20                      | Artefact - Scatter         | valid               | 319432             | 6380333             |
| 32 | 37-6-1604 | Bulga Conservation Area 1  | Artefact - Scatter         | valid               | 317389             | 6384294             |
| 33 | 37-6-1661 | BP L4                      | Artefact - Scatter and PAD | valid               | 321263             | 6377674             |
| 34 | 37-6-1663 | BP L2                      | Artefact - Scatter         | valid               | 321388             | 6377875             |
| 35 | 37-6-1664 | BP L3                      | Artefact - Scatter         | valid               | 321388             | 6377875             |
| 36 | 37-6-1740 | Broke Pipeline 7           | Artefact - Scatter and PAD | valid               | 321222             | 6377501             |
| 37 | 37-6-1845 | G-IF1                      | Artefact - Isolated Find   | valid               | 318255             | 6383015             |
| 38 | 37-6-2229 | YR3                        | Artefact - Scatter         | valid               | 321305             | 6377565             |
| 39 | 37-6-2272 | RPS Bulga AS1              | Artefact - Scatter         | valid               | 324071             | 6382986             |
| 40 | 37-6-2273 | RPS Bulga AS2              | Artefact - Scatter         | valid               | 324037             | 6382944             |
| 41 | 37-6-2721 | Mt Thorley Isolated Find 1 | Artefact - Isolated Find   | valid               | 323943             | 6388274             |
| 42 | 37-6-2722 | Mt Thorley Open Scatter 1  | Artefact - Isolated Find   | valid               | 323937             | 6388313             |

| ID | AHIMS ID  | Site Name                        | Site Type                | Status              | GDA Zone 56 (East) | GDA Zone 56 (North) |
|----|-----------|----------------------------------|--------------------------|---------------------|--------------------|---------------------|
| 43 | 37-6-2783 | Blakefield North E5              | Artefact - Scatter       | valid               | 317614             | 6382838             |
| 44 | 37-6-2832 | BOP IF-5                         | Artefact - Isolated Find | valid               | 322202             | 6378267             |
| 45 | 37-6-2840 | BOP OS-6                         | Open Site                | partially destroyed | 322630             | 6384570             |
| 46 | 37-6-2849 | BOP SC-5 with PAD                | Site Complex             | partially destroyed | 322810             | 6384887             |
| 47 | 37-6-2850 | BOP SC-6 with PAD                | Site Complex             | partially destroyed | 323309             | 6383883             |
| 48 | 37-6-2855 | BOP SC-11                        | Site Complex             | valid               | 318146             | 6383416             |
| 49 | 37-6-2857 | BOP SC-13                        | Site Complex             | valid               | 317776             | 6383399             |
| 50 | 37-6-2860 | Blakefield North Isolated Find 1 | Artefact - Scatter       | valid               | 318902             | 6381701             |
| 51 | 37-6-2876 | G1                               | Artefact - Scatter       | valid               | 317230             | 6383390             |
| 52 | 37-6-2877 | G5                               | Artefact - Scatter       | valid               | 317755             | 6383115             |
| 53 | 37-6-2878 | G10                              | Artefact - Scatter       | valid               | 318280             | 6383570             |
| 54 | 37-6-2879 | G11                              | Artefact - Scatter       | valid               | 318379             | 6383553             |
| 55 | 37-6-2880 | GIF5                             | Artefact - Isolated Find | valid               | 318308             | 6383693             |
| 56 | 37-6-2881 | WB1                              | Artefact - Scatter       | valid               | 317187             | 6384582             |
| 57 | 37-6-2882 | WB2                              | Artefact - Isolated Find | valid               | 317070             | 6384846             |
| 58 | 37-6-2884 | WB4                              | Artefact - Scatter       | valid               | 317487             | 6384721             |
| 59 | 37-6-2885 | WB5                              | Artefact - Isolated Find | valid               | 317359             | 6384803             |
| 60 | 37-6-2886 | WB6                              | Artefact - Scatter       | valid               | 317464             | 6384578             |
| 61 | 37-6-2919 | Blakefield North AS1             | Open Site                | valid               | 319343             | 6380323             |
| 62 | 37-6-2920 | Blakefield North as2             | Open Site                | valid               | 316825             | 6382978             |

| ID | AHIMS ID  | Site Name              | Site Type                | Status              | GDA Zone 56 (East) | GDA Zone 56 (North) |
|----|-----------|------------------------|--------------------------|---------------------|--------------------|---------------------|
| 63 | 37-6-2957 | YR1                    | Artefact - Scatter       | valid               | 321280             | 6377440             |
| 64 | 37-6-2959 | YR2                    | Artefact - Scatter       | valid               | 321480             | 6377465             |
| 65 | 37-6-2960 | NMC north site complex | Site Complex             | valid               | 322914             | 6384576             |
| 66 | 37-6-2961 | NMC south site complex | Site Complex             | partially destroyed | 323204             | 6384104             |
| 67 | 37-6-3173 | BUO IF-1               | Artefact scatter         | valid               | 318943.4           | 6381630             |
| 68 | 37-6-3174 | BUO IF-2               | Artefact - Isolated Find | valid               | 318927.8           | 6381652             |
| 69 | 37-6-3175 | BUO IF-3               | Artefact - Isolated Find | valid               | 318846.8           | 6381771             |
| 70 | 37-6-3176 | BUO IF-4               | Artefact - Scatter       | valid               | 318776.5           | 6381934             |
| 71 | 37-6-3222 | GOAF-GG01              | Grinding Groove          | valid               | 322423             | 6377441             |
| 72 | 37-6-3223 | GOAF-GG02              | Grinding Groove          | valid               | 322554             | 6377406             |
| 73 | 37-6-3355 | WBCAA OS-1             | Open Site                | valid               | 317283             | 6384429             |
| 74 | 37-6-3356 | WBCAA IF-1             | Artefact - Isolated Find | valid               | 317398             | 6384416             |
| 75 | 37-6-3399 | LCGGRA OS-1            | Artefact - Scatter       | partially destroyed | 323837             | 6387193             |
| 76 | 37-6-3483 | LCGGRA GG-1            | Grinding Groove          | valid               | 323503             | 6386867             |
| 77 | 37-6-3660 | Bulga IF1              | Artefact - Isolated Find | valid               | 323266             | 6378177             |
| 78 | 37-6-3885 | Bulga IF5              | Isolated find            | valid               | 318818             | 6381833             |
| 79 | 37-6-3931 | Bulga OS1              | Artefact scatter         | valid               | 317306             | 6383314             |
| 80 | 37-6-4195 | WBCAA IF-2             | Isolated find            | valid               | 317752             | 6384006             |

There are 20 valid sites in the ACHMP Boundary that are located on private or leased property (**Table 9-3**) or, in the case of an artefact reburial site, do not require monitoring. While these sites are within the ACHMP Boundary, they are not visited during the quarterly monitoring due to either respecting landowner/leaseholder privacy or because of the nature of the site. These sites are shown on **Figure 9-7**.

**Table 9-3 – Sites excluded from the monitoring program as they are in private/leased property**

| AHIMS ID  | Site Name                 | Site Type                                   | Status              | GDA Zone 56 East | GDA Zone 56 North |
|-----------|---------------------------|---------------------------------------------|---------------------|------------------|-------------------|
| 37-6-0909 | SBU10                     | Artefact - Scatter                          | valid               | 322765           | 6377100           |
| 37-6-0914 | SBU16                     | Artefact - Isolated Find                    | valid               | 323806           | 6376191           |
| 37-6-0916 | SBU17                     | Artefact - Scatter                          | valid               | 324006           | 6376391           |
| 37-6-0917 | SBU20                     | Artefact - Scatter                          | valid               | 323429           | 6376732           |
| 37-6-0920 | SBU21                     | Artefact - Scatter                          | valid               | 323437           | 6376879           |
| 37-6-0924 | SBU25                     | Artefact - Scatter                          | valid               | 323330           | 6375479           |
| 37-6-0927 | SBU30                     | Artefact - Scatter                          | valid               | 323314           | 6375643           |
| 37-6-0928 | SBU33                     | Artefact - Isolated Find                    | valid               | 323409           | 6375951           |
| 37-6-0929 | SBU31                     | Artefact - Isolated Find                    | valid               | 323166           | 6375854           |
| 37-6-0930 | SBU32                     | Artefact - Scatter                          | valid               | 323084           | 6376003           |
| 37-6-1048 | BCO3                      | Artefact - Scatter and PAD and possible PAD | partially destroyed | 319558           | 6378870           |
| 37-6-1420 | BCO28                     | Artefact - Scatter                          | valid               | 323818           | 6376081           |
| 37-6-1421 | BCO29                     | Artefact - Scatter                          | valid               | 323442           | 6376733           |
| 37-6-1904 | Short 3 (Bulga)           | Open Camp Site                              | valid               | 323700           | 6388000           |
| 37-6-2055 | KR50                      | Open Camp Site                              | valid               | 324439           | 6388573           |
| 37-6-2057 | KR52                      | Open Camp Site                              | valid               | 323759           | 6388437           |
| 37-6-2723 | Mt Thorley Open Scatter 2 | Open Camp Site                              | valid               | 323302           | 6387446           |
| 37-6-3416 | BUE-IF1                   | Artefact - Isolated Find                    | valid               | 316677           | 6382761           |
| 37-6-3577 | Loders Creek OS2          | Artefact - Scatter                          | valid               | 323790           | 6388845           |
| 37-6-4170 | WBCAA artefact reburial   | Artefact reburial                           | valid               | 317359           | 6384416           |



**Figure 9-3 – Sites included in the quarterly monitoring program**



**Figure 9-4 – Sites included in the quarterly monitoring program (Charlton Rd west)**



**Figure 9-5 – Sites included in the quarterly monitoring program (Broke Rd south)**

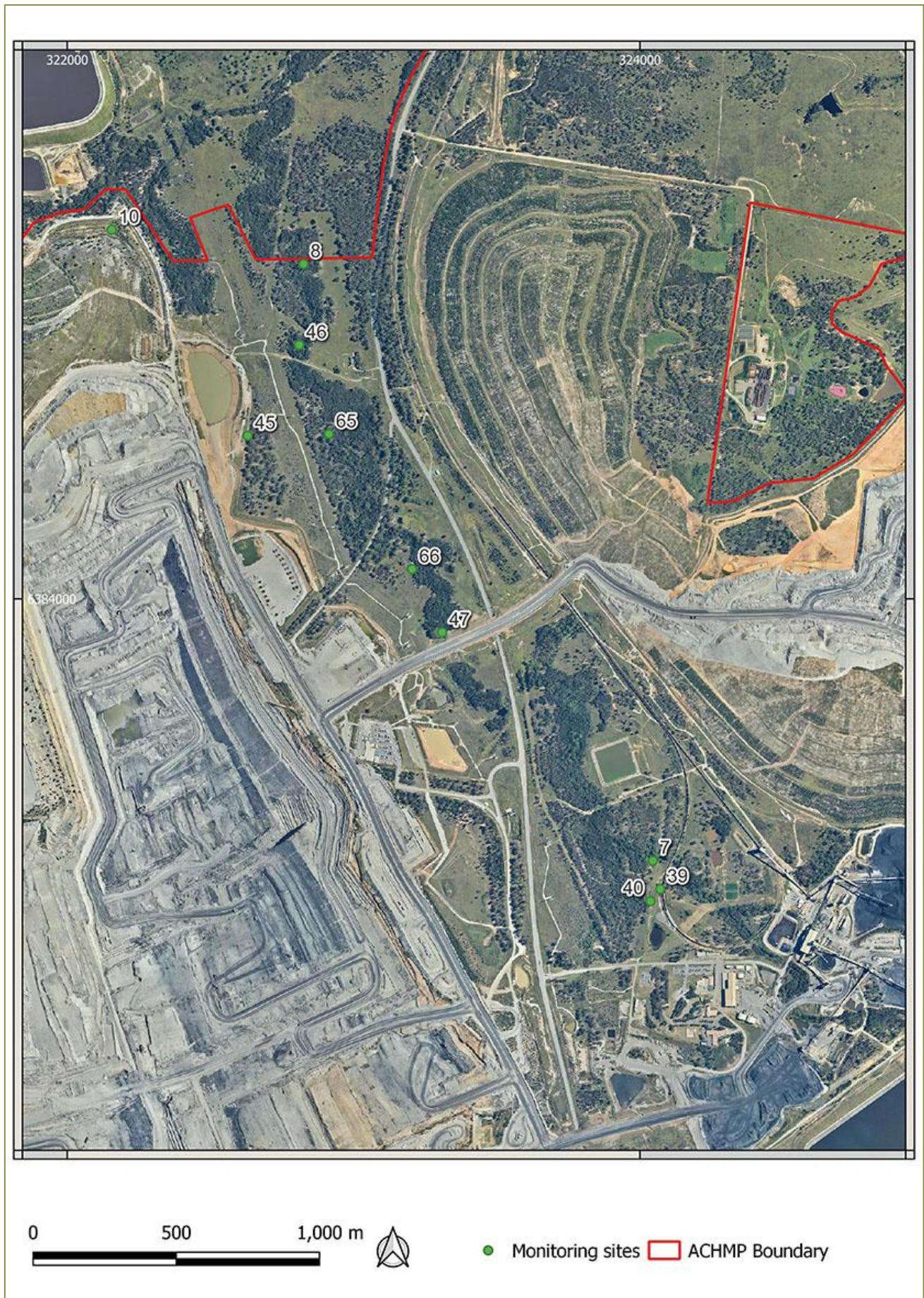


Figure 9-6 – Sites included in the quarterly monitoring program (Nine Mile Creek)



**Figure 9-7 – Sites not included in the quarterly monitoring program**

## 9.4 Intergenerational Equity Measures

As a result of RAP consultation during the BOP assessment, several measures were proposed by BCM to enhance the intergenerational equity outcomes for the local Aboriginal community. Several measures have been completed as detailed **Appendix B Table 12-9**.

The measures are intended to form a partnership between BCM and the Aboriginal community to ensure that the best possible outcomes are achieved as mitigation for the destruction of Aboriginal cultural heritage sites during the course of approved mining operations.

The measures and their current status are shown in **Table 9-4**.

**Table 9-4 – Status of intergenerational equity measures**

| Intergenerational measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Status                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Upgrade of signage located at known cultural heritage sites at BCC to be more informative and culturally sensitive                                                                                                                                                                                                                                                                                                                                                                           | Ongoing                                                                                                  |
| Provision of the Wollombi Brook Teaching and Keeping Place at the WBCAA including building an artefact storage and analysis facility for artefacts salvaged from BCC, and potentially for artefacts from other Glencore locations in the upper Hunter Valley                                                                                                                                                                                                                                 | Building completed. Artefact storage provisions are ongoing.                                             |
| Provision of all-weather access and car park, toilets and picnic shelter facilities at the WBCAA                                                                                                                                                                                                                                                                                                                                                                                             | All weather access, car park and shelter at the Minimbah Teaching and Keeping Place have been completed. |
| Provision of support for the formal recognition and registration of significant sites                                                                                                                                                                                                                                                                                                                                                                                                        | Ongoing                                                                                                  |
| Wonnarua Language Program – engage a specialist to develop a DVD resource recording the Wonnarua language, including a component specifically for use by Primary Schools in NSW                                                                                                                                                                                                                                                                                                              | Underway                                                                                                 |
| Provision of bus transport for Aboriginal community members to visit culturally significant sites in the upper Hunter Valley during NAIDOC Week. This will be coordinated by Glencore Coal Assets Australia (GCAA) in consultation with the Singleton NAIDOC Committee                                                                                                                                                                                                                       | Ongoing                                                                                                  |
| Engagement with the Australian Museum (Sydney) with the aim of providing access for Wonnarua people to view their collections of Wonnarua artefacts. Provide transport to Sydney to visit these collections, or sponsor displays of these items in the upper Hunter Valley if appropriate venues are available. Transport will include one return bus annually when appropriate displays are available. Where possible, these activities will be coordinated to occur in NAIDOC Week by GCAA | Ongoing                                                                                                  |

## 9.5 Subsidence Monitoring Program

Surface safety monitoring has continued to be undertaken in accordance with approved methods. If post mining subsidence impacts an area of known cultural significance and repairs are deemed necessary, the following process will be followed:

- If cracking requires repair, BCC will first consult their GIS system to determine the likelihood of the remediation works impacting known Aboriginal objects;
- No works will be undertaken within 20m of a known Aboriginal object. If the remediation is required in or near a known site, an archaeologist will be contacted to assess the area and discuss the potential subsidence repair procedure(s);

- If the subsidence impacts are in a known site, the site will be inspected by RAPs and an archaeologist. If a known Aboriginal object is not located and there is evidence that it has been harmed by subsidence impacts, the archaeologist will contact Heritage NSW to have the Aboriginal object recorded as 'destroyed' on the AHIMS database. Following advice from Heritage NSW, subsidence repairs can continue as necessary;
- If an Aboriginal object likely to be harmed by subsidence remediation is identified, and an AHIP is current for the site, subsidence repairs will be conducted as discussed with RAPs; and
- If no AHIP is current, one will be applied for prior to conducting subsidence repairs if necessary.

## 9.6 Annual Site Meeting

BCM will hold an annual site meeting for the purpose of engaging with all RAPs and discussing operations status, cultural heritage matters and intergenerational equity outcomes.

## 9.7 Care of Artefacts Recovered

The care of artefacts at the BCC will include:

- Intermediate provisions until a Care Agreement is agreed to between RAPs and Heritage NSW. A Care Agreement can be initiated at any time, although it is likely that this will occur closer to the time of mine closure; and
- Long-term provisions based on a Care Agreement agreed to between RAPs and Heritage NSW. This can occur at any time but is likely to occur closer to the time of mine closure.

### 9.7.1 Intermediate provisions for artefact storage

Until a Care Agreement is agreed to between RAPs and Heritage NSW, the BCC will undertake the following strategies:

- The BCC will repatriate all artefacts recovered from the BCC over the years to the Minimbah Teaching and Keeping Place; and
- The Minimbah Teaching and Keeping Place will also be used for artefacts from other Glencore locations in the upper Hunter Valley.

### 9.7.2 Long-term care of artefacts

It is BCM's aim to develop a long-term approach to the ultimate care of artefacts following mine closure. This plan will be developed closer to mine closure and could involve the repatriation of artefacts into the reconstituted landscape following the end of mining at the BCC.

A long-term Care Agreement will be negotiated between the RAPs and Heritage NSW. These negotiations will take into account the desire expressed by RAPs that the artefacts are stored or placed 'close to Country' and that a 'back-to-Country' policy should be followed for the repatriation and storage of all artefacts recovered from the BCC over the years.

## 9.8 GIS and Mapping of Sites

A GIS database has been developed onsite to contain not only spatial identification of site locations but also any relevant information associated with that site. This database is used to query environmental constraints contained in the site work permit and other controls outlined in this plan. The database is dynamic, and changes are made as new sites are recorded, new surveys completed, or a site's status is changed in accordance with an AHIP or salvage with Development Consent.

## 9.9 Management Process

In order to prevent any harm to Aboriginal objects (except where in accordance with relevant approvals) the BCC has developed a series of system controls. The staff, employees and contractors are all educated on these system controls prior to completing any work onsite. Visitors to sites are also educated but are not authorised to complete any works. **Figure 9-8** outlines the systems control and processes in place.

### 9.9.1 Training and Awareness

All visitors, employees and contractors are inducted prior to accessing the BCC. This induction includes information on Aboriginal cultural heritage management within the BCC (where appropriate based on work to be undertaken) and is designed to ensure that visitors, employees, and contractors are aware of the controls in place in regard to Aboriginal cultural heritage management and their obligations under the NPW Act.

BCM maintains records and documentation associated with the training and competency process, including all assessment tools and relevant standards and related documentation consistent with GCAA-625378177-9989 3.0 Documents and Records.

BCM will maintain electronic training, competency, and medical records for:

- a) employees via the Scenario TES; and
- b) contractors via the Damstra TWMS.

Training documents are retained in hard copy on site in a secure location.

#### 9.9.1.2 Obligation to Avoid Harm

All employees, contractors, sub-contractors and visitors to the Project area and conservation areas have an obligation to avoid harming Aboriginal heritage unless engaged in approved development activity in an area where Aboriginal salvage obligations have been met as described in this plan.

The definition of harm used in this plan stems from the definition in Section 5 of the NPW Act. The examples used below are for illustrative purposes and are not exhaustive.

Harm to an Aboriginal object or Aboriginal site means:

- a) moving or collecting stone artefacts (although picking up artefacts and inspecting them is acceptable as long as they are immediately returned to their original location);
- b) disturbing the earth where stone artefacts are located, e.g. by earthworks for drains, roads, etc.;
- c) breaking stone artefacts, e.g. by running over them in a vehicle;
- d) causing damage to a grinding groove sandstone platform; and
- e) cutting down, disturbing or otherwise marking scarred trees.

Trivial or negligible impacts to Aboriginal objects are not regarded as harm.

#### 9.9.1.3 Obligation to Protect

Mine personnel, contractors and subcontractors having responsibility for land management or construction have an obligation to protect Aboriginal heritage within their area of work responsibility.

Protection means active recognition of known Aboriginal heritage and active measures to avoid Aboriginal heritage. This may include fencing, mitigation of erosion effects, modification of work plans to avoid Aboriginal heritage such as changing vehicular access routes.

#### 9.9.1.4 Obligation to Implement Management Measures for Aboriginal Heritage Impacts

Mining personnel, contractors and subcontractors have a responsibility to ensure that the appropriate Aboriginal heritage salvage has been conducted prior to or in association with their activities which impact Aboriginal objects.

## 9.9.2 Due Diligence

Glencore has a Ground Disturbance Permit (GDP; CAA HSEC PER 0004) which includes due diligence to determining whether a proposed activity will harm an Aboriginal object under the *NSW Minerals Industry Due Diligence Code of Practice for the Protection of Aboriginal Objects*. The GDP process has triggers in place that require the Environment and Community department to consider potential impacts prior to any ground disturbance. This involves using the GIS system (refer to **Section 9.8**) to determine whether the disturbance will occur in the vicinity of recorded sites, whether the area proposed has been surveyed and whether the sites are within the Conservation Areas. The outcomes of this process will then inform whether work is approved as shown in **Figure 9-8** and any controls required to be implemented prior to or during approved works to prevent unauthorised impacts to Aboriginal heritage sites.

## 9.9.3 Interim Protection of Sites

Incidental finds of new Aboriginal heritage sites must be reported to the Environment and Community Manager immediately so that appropriate protection can be organised.

In order to ensure that any newly identified sites are provided with an appropriate level of interim protection, the details of new sites will be recorded in the field using BULCX-2103827161-7665 New Aboriginal Heritage Site Recording Form (Appendix J - ). A website link to the form has been provided in **Appendix J -**, as available on the Bulga Coal website ([glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans](http://glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans)). Using the form will ensure that all newly identified Aboriginal heritage sites will be demarcated in the field if existing controls or fencing are not in place. This will allow the Environment and Community Manager (or a nominated delegate) to place temporary fencing and signage around the object/site and notify staff/contractors of their obligations to avoid harm to the object or site. This will act as an interim protection measure until permanent signage can be established and the object/site is added to the site GIS database and to AHIMS.

RAPs will be informed at the annual site meeting of any newly recorded sites that are outside of impact. Depending on where they are located, if newly recorded sites are likely to be harmed RAPs will be consulted either as part of an AHIP application (sites outside of the approved disturbance area, see **Section 9.2.2**) or as part of a salvage program under this ACHMP (see **Section 9.2.1.1**).

Aboriginal heritage surveys will not be undertaken unless copies of this form are on hand during the survey.

## 9.9.4 Record keeping

All new site recordings will be recorded to Heritage NSW standards with the AHIMS register. The BCC will undertake a reconciliation program to ensure that the BCC GIS database agrees with the AHIMS register. A review of the GIS database against the AHIMS register will occur at periods not exceeding 5 years.

Following the salvage of sites under permit an ASIRF will be submitted to the AHIMS register by the archaeologist undertaking the salvage to record the results of the salvage.

Where the documentation is available, the BCC will maintain a record of all site cards, ASIRFs and reports pertaining to the ACHMP Boundary.

The BCC Environment and Community Officer is responsible for all record keeping and maintaining the GIS database. Records will be updated in a timely manner to ensure statutory obligations are met and that Aboriginal cultural heritage is conserved wherever possible.

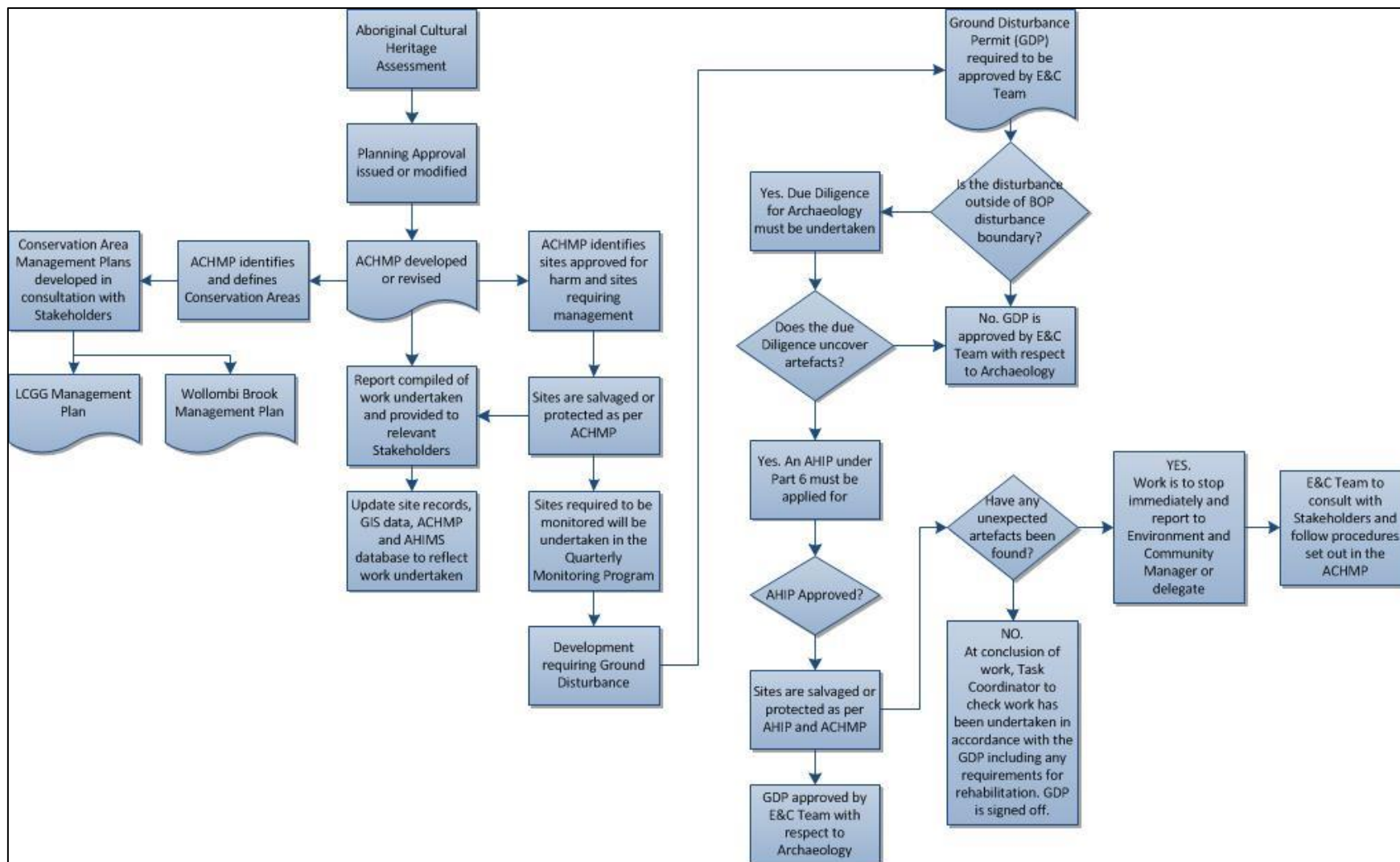


Figure 9-8 – Aboriginal Heritage Management Process (current approved mining areas)

## 9.9.5 Incident reporting

BCM incidents and non-compliances are reported in accordance with BULCX-2103827161-3082 Environmental Management Strategy. BCM records incident data in the CMO Compliance Management database system (within two working days) to allow retrieval of records for analysis and reporting. Incidents to be reported include:

- a) unintentional harm to Aboriginal objects; and
- b) other environmental incidents that may contribute to the harm of Aboriginal objects (such as uncontrolled water releases).

Where an exceedance of the performance measures in either of the Bulga Coal development consents has occurred, at the earliest opportunity the site will:

- a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur; and
- b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the DPE or Heritage NSW (as applicable) describing those options and any preferred remediation measures or other course of action.

BCM must immediately notify DPE and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing via the Department's Major Projects Website and identify the development (including the development application number and name) and set out the location and nature of the incident.

Within seven days of becoming aware of a non-compliance (that has not been notified as an incident), BCM must notify DPE of the non-compliance. The notification must be in writing via the Department's Major Projects Website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, why it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

## 9.9.6 Complaints management

BCM manages complaints in accordance with the BULCX-2103827161-3082 Environmental Management Strategy. BCM implements a complaints hotline for handling the conflict resolution process. The conflict resolution process includes:

- a) acknowledging all complaints, responding to the complainant within 24 hours, where practicable;
- b) registering all complaints in CMO;
- c) investigating complaints impartially giving proper consideration to the facts and the circumstances prevailing at the time;
- d) implementing corrective actions if required;
- e) reporting to relevant stakeholders of investigation outcomes and corrective actions taken; and
- f) complaints are managed in accordance with GCAA-625378177-10296 – 10.05 Complaints Management. This protocol provides a process to ensure that complaints received by BCM are properly documented and handled in accordance with licence requirements and company policy.

Details of complaints received by BCM are reported to stakeholders at Community Consultative Committee meetings and in the Annual Review (**Section 9.9.7**).

## 9.9.7 Reporting

By the end of March each year, unless the Planning Secretary agrees otherwise, BCM must submit an Annual Review to DPE, reviewing the environmental performance of the BCC to the satisfaction of the Planning Secretary.

The Annual Review will include:

- a) the development that was carried out in the past calendar year and the development that is proposed to be carried out over the next year;
- b) a comprehensive review of the monitoring results and complaints records of the development over the past calendar year, which includes a comparison of these results against the:
  - i. relevant statutory requirements (refer to Tables 12-4 to 12-8), limits or performance measures/criteria;
  - ii. requirements of any plan or program required under the consents;
  - iii. monitoring results of previous years; and
  - iv. relevant predictions in the documents listed in condition 2 of schedule 2 of the SSD-4960 development consent.
- c) identification of any non-compliance over the past calendar year, and describe what actions were (or are being) taken to ensure compliance;
- d) identification any trends in the monitoring data over the life of the BCC;
- e) identification any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
- f) description of what measures will be implemented over the current calendar year to improve the environmental performance of the BCC.

The ACHMP is available on the Bulga Coal website, as well as the WBCAA and LCGGRA Plans of Management ([glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans](http://glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans)). The Aboriginal cultural heritage monitoring reports are also available at the Bulga Coal website ([glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/monitoring-documents](http://glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/monitoring-documents)).

The additional following documents will also be publicly available on the Bulga Coal website, be kept up to date, and to the satisfaction of the Planning Secretary:

- the documents listed in condition 2 of schedule 2 of SSD 4960;
- current statutory approvals for the development;
- approved strategies, plans and programs required under the conditions of the development;
- a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;
- a complaints register, which is to be updated monthly;
- minutes of CCC meetings;
- the annual reviews of the development (for the last 5 years, if applicable); and
- any independent environmental audit of the development, and the Applicant's response to the recommendations in any audit.

## 10 Review and Improvement

This ACHMP will be subject to review every five years at a minimum or following a change in legislation or modification to development approval containing conditions relevant to Aboriginal cultural heritage. Once approved or changed, the ACHMP will be then placed on the Glencore website.

The ACHMP including the GIS database system is a dynamic document. Should the status of a site change or additional sites be identified within the BCC, the GIS database will be updated to reflect these changes.

The performance of the BCC in relation to Aboriginal cultural heritage impacts is evaluated through:

- independent environmental audits;
- feedback from community consultation;

- continued assessment by the quarterly monitoring program; and
- the Annual Review.

This ACHMP will be reviewed periodically as required following changes to BCC's internal or external context, and if necessary, revise the ACHMP within three months of:

- a) the submission of an annual review;
- b) the submission of an incident report related to Aboriginal cultural heritage;
- c) the submission of an audit report; and
- d) any modification to the consent conditions of either consent.

Where this review leads to revisions to the ACHMP, then within four weeks of the review, the revised document will be submitted to the Planning Secretary for approval. The objective of the scheduled review process will be primarily to:

- a) monitor and report on compliance and targets which cover statutory requirements and other commitments;
- b) account for changes in environmental requirements, technology, or operational procedures; and
- c) identify opportunities to drive continuous improvement and to reduce the overall risk profile of the operation.

## 10.2 Past Revisions

Details on past revisions of this Plan are provided in **Table 12-3**.

# 11 Accountabilities

| Role                                                                                                                                     | Accountabilities for this document                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Bulga Coal Complex General Manager</p> <p>Bulga Underground Mine Operations Manager</p> <p>Bulga Open Cut Mine Operations Manager</p> | <p>Responsible for providing adequate resources for the implementation of this ACHMP</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>Bulga Complex Environmental Department</p>                                                                                            | <p>Responsible for coordinating the implementation of this ACHMP and for ensuring that the review of this ACHMP is undertaken.</p> <p>Responsible for ensuring that all personnel involved in due diligence inspections, Aboriginal cultural heritage assessments and Aboriginal archaeological assessments are appropriately qualified and experienced to undertake the task safely.</p> <p>Responsible for advising the registered Aboriginal parties of operational changes relevant to the management of Aboriginal cultural heritage.</p> <p>Responsible for ensuring that relevant projects relating to Aboriginal cultural heritage are documented as part of the Annual Environmental Management Report.</p> |
| <p>Registered Aboriginal Parties</p>                                                                                                     | <p>Responsible for providing expertise and appropriate and timely feedback in relation to the management of Aboriginal cultural heritage.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>Archaeologist</p>                                                                                                                     | <p>Responsible for providing expertise in relation to the management of Aboriginal archaeology.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## 12 Document Information

### 12.1 Related Documents

Related documents, listed in **Table 12-1**, are internal documents directly related to or referenced from this document.

**Table 12-1 – Related Documents**

| Number                | Title                                                                  |
|-----------------------|------------------------------------------------------------------------|
| BULCX-2103827161-4920 | <u>Wollombi Brook Biodiversity Conservation Area Management Plan</u>   |
| BULCX-2103827161-3809 | <u>Bushfire Management Plan</u>                                        |
| BULCX-2103827161-7678 | <u>Loders Creek Grinding Grooves Conservation Area Management Plan</u> |
| BULCX-2103827161-7665 | <u>New Aboriginal Heritage Site Recording Form</u>                     |
| CAA HSEC PER 0004     | Ground Disturbance Permit                                              |

### 12.2 Reference Information

Reference information, listed in **Table 12-2** below, is information that is directly related to the development of this document or referenced from within this document.

**Table 12-2 – Reference Information**

| Reference   | Title                                                                                                                                                                                                                                                       |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OzArk 2013  | OzArk Environmental & Heritage Management Pty Limited. <i>Bulga Optimisation Project Aboriginal Archaeological Values Assessment</i> . Report for Bulga Coal Management.                                                                                    |
| OzArk 2015a | OzArk Environmental & Heritage Management Pty Limited. <i>Aboriginal Heritage Due Diligence Assessment. Bulga Underground Goaf Gas Pipeline</i> . Report for Bulga Coal Management.                                                                         |
| OzArk 2015b | OzArk Environmental & Heritage Management Pty Limited. <i>Aboriginal Archaeological Assessment. Wollombi Brook Conservation Agreement Area</i> . Report for Bulga Coal Management.                                                                          |
| OzArk 2015c | OzArk Environmental & Heritage Management Pty Limited. <i>Aboriginal Due Diligence Archaeological Assessment. Bulga Underground Gas Casing Extraction</i> . Report for Bulga Coal Management.                                                               |
| OzArk 2015d | OzArk Environmental & Heritage Management Pty Limited. <i>Aboriginal Heritage Constraints Assessment. Bulga Underground Gas Drainage ETL</i> . Report for Bulga Coal Management.                                                                            |
| OzArk 2015e | OzArk Environmental & Heritage Management Pty Limited. <i>Archaeological Assessment. Lodgers Creek Grinding Grooves Relocation Area</i> . Report for Bulga Coal Management.                                                                                 |
| OzArk 2016a | OzArk Environmental & Heritage Management Pty Limited. <i>Aboriginal Cultural Heritage Assessment Report. Proposed 66kV Power Line. Mt Thorley Substation to Bulga Coal Complex</i> . Report for Umwelt (Australia) Pty Ltd.                                |
| OzArk 2016b | OzArk Environmental & Heritage Management Pty Limited. <i>Aboriginal Cultural Heritage Assessment. Modification to the Bulga Optimisation Project. Eastern Emplacement Area: Disturbance Boundary Modification</i> . Report for Umwelt (Australia) Pty Ltd. |
| OzArk 2016c | OzArk Environmental & Heritage Management Pty Limited. <i>Aboriginal Heritage Impact Permit No. 1116702. Final archaeological report of impacts arising from the extraction of coal from BSLW1–5</i> . Report for Bulga Coal Management.                    |

|              |                                                                                                                                                                              |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OzArk 2017   | OzArk Environmental & Heritage Management Pty Limited. <i>Aboriginal Cultural Heritage Salvage Report. Bulga Optimisation Project.</i> Report for Bulga Coal Management.     |
| OzArk 2018c  | OzArk Environmental & Heritage Management Pty Limited. Harm Report. Development Consent SSD-4960 Modification 2. Eastern Emplacement Area. Report for Bulga Coal Management. |
| Umwelt 2003  | Umwelt (Australia Pty Limited. <i>Bulga Coal Continued Underground Operations: Aboriginal Heritage Assessment.</i> Report for Bulga Coal Management.                         |
| Umwelt 2013a | Umwelt (Australia Pty Limited. <i>Bulga Optimisation Project Environmental Impact Statement.</i> Report for Bulga Coal Management.                                           |
| Umwelt 2013b | Umwelt (Australia Pty Limited. <i>Response to Submissions and Revised and Amended Project Application Report.</i> Report for Bulga Coal Management.                          |

## 12.3 Change Information

Full details of the document history are recorded in the document control register, by version. A summary of the current change is provided in **Table 12-3**.

**Table 12-3 – Change Information**

| Version     | Date           | Review team (consultation)                                                                                         | Change Summary                                                                                                                                                                                                                                                                                                           |
|-------------|----------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.0         | 2001           | ERM, Bulga Environment & Community Manager                                                                         | Plan developed based on study conducted by ERM 2001.                                                                                                                                                                                                                                                                     |
| 2.0         | 2003           | Beltana Environment & Community Manager, Umwelt Archaeologist, 13 RAPs                                             | Changed to meet requirements of DA 376-8-2003.                                                                                                                                                                                                                                                                           |
| 3.0         | 2011-2013      | Bulga Coal Complex Environment and Community Manager, Umwelt Archaeologist, 62 RAPs.                               | Update studies/ salvage since previous version, develop and integrate the sites GIS system, and satisfy DA 376/8/2003 and DA 41-03-99.                                                                                                                                                                                   |
| 4.0         | 2014           | Bulga Coal Complex Environment and Community Manager, OzArk Archaeologist, 63 RAPs.                                | Update studies since the BOP assessment and integrate conditions from the BOP consent (DA SSD-4960).                                                                                                                                                                                                                     |
| Draft 5.0   | 2017           | Bulga Coal Complex Environment and Community Manager, OzArk Archaeologist, 63 RAPs.                                | Update with information on BOP salvage program and integrate conditions from modified BOP consent (DA SSD-4960 Mod 1).                                                                                                                                                                                                   |
| 5.0         | January 2018   | Bulga Coal, Department of Planning and Environment                                                                 | Received approval from DP&E. Insert approval letter, make administrative changes as per DPE approval letter                                                                                                                                                                                                              |
| Draft 1 6.0 | September 2018 | Bulga Coal, Department of Planning and Environment, Office of Environment and Heritage, RAPs.                      | Update following incident on 06/09/18 when two archaeological artefacts were disturbed. the New Aboriginal Heritage Site Recording Form was added. Section 6.4 was updated to reflect this. Section 9.9.3 was also updated.                                                                                              |
| Draft 2 6.0 | June 2019      | Bulga Coal, Department of Planning and Environment, Office of Environment and Heritage, OzArk Archaeologist, RAPs. | V6 Draft 1 was recalled from DP&E so that a full revision could take place to consider the conclusion of the salvage works associated with BOP MOD 1. The Loders Creek Grinding Grooves Conservation Area Management Plan was also added following consultation with the RAPs, and a general update to content provided. |

| Version        | Date        | Review team<br>(consultation)                                                | Change Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------|-------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.0            | July 2019   | Bulga Coal                                                                   | Received approved for Draft 2 Version 6.0 on 03/07/2019. Added Department of Planning and Environment approval letter and Office of Environment and Heritage consultation ( <b>Appendix G</b> - ). Published document on SharePoint.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Draft 1<br>7.0 | August 2020 | Bulga Coal, DPE, Heritage NSW, Singleton Council, OzArk Archaeologist, RAPs. | Update to take consider conditions associated with BOP Modification 3 and DA 376-8-2003 Modification 7 approved in July 2020.<br>General update of document to account for new recordings etc. since Version 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Draft 2<br>7.0 | May 2022    | Bulga Coal, DPE, OzArk Archaeologist                                         | Bulga Coal responded to a DPE Request for More Information (RFI) regarding Draft 1 Version 7.0, as received on 22 March 2022. The ACHMP was then revised accordingly. The key changes include: <ul style="list-style-type: none"> <li>Table 12-4 was updated to include further relevant development consent conditions; and</li> <li>Sections 9.9.5, 9.9.6 and 9.9.7 were added.</li> </ul>                                                                                                                                                                                                                                                                       |
| Draft 3<br>7.0 | May 2022    | Bulga Coal, DPE                                                              | Bulga Coal responded to a DPE Request for More Information (RFI) regarding Draft 2 Version 7.0, as received on 10 May 2022. The ACHMP was then revised accordingly. The key changes include: <ul style="list-style-type: none"> <li>Appendix H was updated to include RAP comments received;</li> <li>Section 9.9.4 was updated to state who (position title) within Bulga Coal is responsible for record keeping and outline further details regarding the GIS database reconciliation program; and</li> <li>Section 9.9.7 was updated to include further information and list documents required to be made publicly available on the public website.</li> </ul> |
| Draft 4<br>7.0 | May 2022    | Bulga Coal, DPE                                                              | Bulga Coal responded to a DPE Request for More Information (RFI) regarding Draft 3 Version 7.0, as received on 19 May 2022. The ACHMP was then revised accordingly. The changes include: <ul style="list-style-type: none"> <li>Section 5.5 was revised to remove reference to Appendix F (DPE approval letter); and</li> <li>Appendix F (DPE approval letter) was removed.</li> </ul>                                                                                                                                                                                                                                                                             |

## Appendix A - Glossary

| Reference             | Name                                                                                                                  |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------|
| ACHMP                 | Aboriginal Cultural Heritage Management Plan                                                                          |
| AHIMS                 | Aboriginal Heritage Information Management System (administered by Heritage NSW)                                      |
| AHIP                  | Aboriginal Heritage Impact Permit                                                                                     |
| BCC                   | Bulga Coal Complex                                                                                                    |
| BCD                   | Biodiversity and Conservation Division (now Heritage NSW)                                                             |
| BCM                   | Bulga Coal Management                                                                                                 |
| BFS                   | Blakefield South (Mine): formerly Beltana                                                                             |
| BFN                   | Blakefield North (Mine)                                                                                               |
| BOP                   | Bulga Optimisation Project                                                                                            |
| BUO                   | Bulga Underground Operations                                                                                          |
| Burra Charter         | The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance, 2013.                            |
| Cultural significance | aesthetic, historical, scientific, social or spiritual value for past, present or future generations                  |
| DA                    | Development Application                                                                                               |
| DECCW                 | Department of Environment Climate Change and Water (now Heritage NSW)                                                 |
| DPE                   | Department of Planning and Environment (prior to December 2021, the Department of Planning, Industry and Environment) |
| EP&A Act              | Environmental Planning and Assessment Act 1979                                                                        |
| GIS                   | Geographic Information System                                                                                         |
| ha                    | hectare                                                                                                               |
| LCGGCA                | Loders Creek Grinding Grooves Conservation Area                                                                       |
| NPW Act               | National Parks and Wildlife Act 1974                                                                                  |
| OEH                   | Office of Environment and Heritage (now Heritage NSW)                                                                 |
| PAD                   | Potential Archaeological Deposit                                                                                      |
| RAPs                  | Registered Aboriginal Parties                                                                                         |
| SMP                   | Subsidence Management Plan                                                                                            |
| WBCAA                 | Wollombi Brook Conservation Agreement Area                                                                            |

## Appendix B - Consents and Compliance

### B.1 Legislation

Aboriginal cultural heritage within New South Wales is protected by several pieces of legislation. The establishment and maintenance of mining operations are also regulated by several pieces of legislation and planning instruments. The legislation directly relevant to this ACHMP is briefly discussed below.

#### B.1.2 National Parks and Wildlife Act 1974

OEH is primarily responsible for regulating the management of Aboriginal cultural heritage in New South Wales under the NPW Act (as amended October 2010). The NPW Act is accompanied by the National Parks and Wildlife Regulation 2009 (the Regulation), the OEH *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* (DECCW 2010) and other industry-specific codes.

The objectives of the NPW Act include:

“The conservation of objects, places or features (including biological diversity) of cultural value within the landscape, including, but not limited to: (i) places, objects and features of significance to Aboriginal people.”

The NPW Act defines an Aboriginal object as:

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

Under Section 84 of the NPW Act, an Aboriginal Place must be declared by the Minister as a place that, in the opinion of the Minister, is or was of special significance with respect to Aboriginal culture.

In accordance with Section 86(1) of the NPW Act, it is an offence to harm or desecrate a known Aboriginal object, whilst it is also an offence to harm an Aboriginal object under Section 86(2). Similarly, Section 86(4) states that a person must not harm or desecrate an Aboriginal place. Harm to an object or place is defined any act or omission that:

- a) destroys, defaces or damages an object or place, or
- b) in relation to an object – moves the object from the land on which it had been situated, or
- c) is specified by the regulations, or
- d) causes or permits the object or place to be harmed in a manner referred to in paragraph (a), (b) or (c),  
but does not include any act or omission that:
- e) desecrates the object or place, or
- f) is trivial or negligible, or
- g) is excluded from this definition by the regulations.

Section 87(1) of the NPW Act specifies that it is a defence to prosecution under Section 86(1) and Section 86(2) if the harm or desecration of an Aboriginal object was authorised by an AHIP and the activities were carried out in accordance with that AHIP. Furthermore, Section 87(2,4) establishes that it is a defence to prosecution under Section 86(2) (the strict liability offence) if due diligence was exercised to reasonably determine that the activity or omission would not result in harm to an Aboriginal object or if the activity or omission constituting the offence is a low impact act or omission (in accordance with Section 80B of the Regulation).

The Regulation identifies that compliance with an industry specific code, in this case, the *NSW Minerals Industry Due Diligence Code of Practice for the Protection of Aboriginal Objects* (Minerals Council 2010 – hereafter referred to as the Due Diligence Code) is taken to constitute due diligence in determining whether a proposed activity will harm an Aboriginal object. In addition, Section 3A of the Regulation specifies that an act carried out in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* (DECCW 2010) ‘is excluded from the

definition of harm' as provided in the NPW Act. This may include (but is not limited to) test excavations carried out in accordance with this code.

Consultation with Aboriginal parties is an integral part of identifying and assessing the significance of Aboriginal objects and/or places and determining and carrying out appropriate strategies to mitigate impacts upon Aboriginal heritage. Section 80C(1) of the Regulation establishes that, prior to making an application for an Aboriginal heritage impact permit, the applicant must undertake Aboriginal community consultation in accordance with Section 80C(2-11). Furthermore, under Section 80D of the Regulation any application for an Aboriginal heritage impact permit must be accompanied by a cultural heritage assessment report that deals with specified matters.

### **B.1.3 Mining Act 1992**

The Mining Act regulates exploration and mining for minerals, including coal, in New South Wales. All mining and exploration must be done in accordance with the terms of an authority granted under the Act. The Act also regulates the environmental management of exploration activities and complements the environmental regulation contained in other environmental legislation, particularly regarding rehabilitation. There are close ties between the EP&A Act approval processes and the granting of a mining lease.

### **B.1.4 Environment Planning & Assessment Act 1979**

The EP&A Act regulates development activity within New South Wales and provides protection for cultural heritage. DA 376-8-2003 (for underground mining operations) and DA SSD 4960 (for open cut mining operations) were originally issued under Part 4 and Division 4.7 of the EP&A Act. Division 4.7 of the EP&A Act applies to projects that are considered by the Minister for Planning and Infrastructure to be of state significance ('Major Projects'). Division 4.9 of the EP&A Act allows for the modification of development consents provided the proposed modification meets relevant criteria.

Under Section 4.41 of Part 4 of EP&A Act, approved Major Projects do not require approval under the NPW Act to impact Aboriginal sites and such impacts, should they occur, are managed under an approved ACHMP.

## **B.2 Bulga Open Cut Consents**

**Table 12-4** – Relevant conditions from Bulga Open Cut DA SSD-4960 sets out the relevant Conditions in DA SSD-4960 and where those conditions are addressed in this ACHMP.

**Table 12-4 – Relevant conditions from Bulga Open Cut DA SSD-4960**

| Approval/ Schedule/ Condition | Condition Detail                                                                                                                                                                                                                                                                                                                                                                       | Compliance Action/ Section of ACHMP Applicable |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| S2-1                          | <p><b>Obligation to Minimise Harm to the Environment</b></p> <p>In addition to meeting the specific performance criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the development.</p> | This plan                                      |
| S2-2                          | <p>The Applicant must carry out the development generally in accordance with the:</p> <p>(a) EIS;</p>                                                                                                                                                                                                                                                                                  | <b>Section 8.1.2</b>                           |

| Approval/ Schedule/ Condition | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Compliance Action/ Section of ACHMP Applicable          |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
|                               | (b) SEE (MOD 1), SEE (MOD 2) and SEE (MOD 3); and<br><br>(c) the general layout of the development.                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |
| S2-2A                         | The Applicant must carry out the development in accordance with the conditions of this consent.                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Section 8.1.2</b>                                    |
| S2-8                          | The Applicant must notify the Department prior to the commencement of mining operations under this consent.                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Section 4.1</b>                                      |
| S2-16                         | Where conditions of this consent require consultation with an identified party, the Applicant must:<br><br>(a) consult with the relevant party prior to submitting the subject document; and<br><br>(b) provide details of the consultation undertaken including:<br><br>(i) the outcome of that consultation, matters resolved and unresolved; and<br><br>(ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved. | <b>Section 6.3</b><br><b>Appendix G</b>                 |
| S3-36                         | If suspected human remains are discovered on site, then all work surrounding the area must cease, and the area must be secured. The Applicant must immediately notify NSW Police Force and BCD (now Heritage NSW), and work must not recommence in the area until authorised by NSW Police Force and BCD.                                                                                                                                                                                                         | <b>Section 9.2.3</b>                                    |
| S3-37                         | Unless otherwise authorised under the NPW Act, the Applicant must ensure that the project does not cause any direct or indirect impact on any identified heritage items located outside the approved disturbance area, beyond those predicted in the document/s listed in condition 2 of Schedule 2.                                                                                                                                                                                                              | <b>Section 9.9.1.2</b>                                  |
| S3-38                         | The Applicant must relocate the Loders Creek Grinding Grooves and any associated objects to a                                                                                                                                                                                                                                                                                                                                                                                                                     | Bulga Optimisation Project Salvage Report (OzArk 2017a) |

| Approval/ Schedule/ Condition | Condition Detail                                                                                                                                                                                                                                                                                                 | Compliance Action/ Section of ACHMP Applicable                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | suitable site within the Loders Creek catchment, in consultation with the BCD (now Heritage NSW) and Aboriginal Stakeholders, and to the satisfaction of the Planning Secretary.                                                                                                                                 |                                                                                                                                                                                                                        |
| S3-39                         | The Applicant must establish the 109 ha Wollombi Brook Conservation Area shown in Figure 2 of Appendix 10, to the satisfaction of the Planning Secretary.                                                                                                                                                        | <b>Section 9.1.1</b>                                                                                                                                                                                                   |
| S3-40                         | The Applicant must make suitable arrangements for the long-term protection and management of the Wollombi Brook Conservation Area and Loders Creek Grinding Grooves Relocation Site, in consultation with BCD (now Heritage NSW) and Aboriginal stakeholders, and to the satisfaction of the Planning Secretary. | <b>Section 9.1</b>                                                                                                                                                                                                     |
| S3-41                         | The Applicant must implement the:                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                        |
|                               | (a) Aboriginal heritage mitigation and management measures described in the documents listed in condition 2 of schedule 2                                                                                                                                                                                        | Aboriginal heritage mitigation and management measures relating to archaeological salvage were completed in 2015–2016. Some Aboriginal heritage mitigation and management measures remain ongoing ( <b>Section 9</b> ) |
|                               | (b) Aboriginal archaeological management measures summarised in Table 2 of Appendix 10                                                                                                                                                                                                                           | Aboriginal heritage mitigation and management measures relating to archaeological salvage were completed in 2015–2016.                                                                                                 |
|                               | (c) historic heritage management measures summarised in Table 3 of Appendix 10,                                                                                                                                                                                                                                  | See Historic Heritage Management Plan, Sections 5.4 and 5.5                                                                                                                                                            |
|                               | to the satisfaction of the Planning Secretary.                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                        |
| S3-42                         | The Applicant must prepare and implement a Heritage Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:                                                                                                                                                           |                                                                                                                                                                                                                        |
|                               | (a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Planning Secretary                                                                                                                                                                                      | This ACHMP has been prepared by OzArk Environment & Heritage (OzArk). Principal author: Ben Churcher BA(Hons), University of Queensland; Dip Ed, University of Sydney. Both OzArk and Ben have                         |

| Approval/ Schedule/ Condition | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Compliance Action/ Section of ACHMP Applicable                                                                                                                                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | extensive experience in cultural heritage management and the preparation of ACHMPs.<br><br>Evidence is presented in <b>Appendix F</b> .                                                                                                                                        |
|                               | (b) be prepared in consultation with BCD (now Heritage NSW), Heritage Branch, Council and the Aboriginal stakeholders                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | As applicable to an ACHMP, this document has been prepared in full consultation with Heritage NSW (formerly BCD) and RAPs.<br><br>Evidence of the consultation is presented in <b>Appendix G</b> and <b>Section 6.3</b> .                                                      |
|                               | (c) include a detailed plan for: <ul style="list-style-type: none"> <li>the relocation of the Loders Creek Grinding Grooves; and</li> <li>conservation of the Wollombi Brook Conservation Agreement Area;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                          | A Plan of Management for the relocation of the Loders Creek Grinding Grooves was approved and enacted (see <b>Section 9.1.3.2 and Appendix H</b> - ). A Plan of Management for the WBCAA has also been approved and enacted (see <b>Section 9.1.3.1 and Appendix I</b> - ).    |
|                               | (d) include a detailed description of the proposed implementation of the heritage management measures required under condition 39 above                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Condition 39 states:<br><br>The Applicant must establish the 109 ha Wollombi Brook Conservation Area shown in Figure 2 of Appendix 10, to the satisfaction of the Planning Secretary.<br><br>A Plan of Management for the WBCAA has been developed ( <b>Section 9.1.3.1</b> ). |
|                               | (e) describe the procedures and management measures to be implemented on the site or within any offset areas to: <ul style="list-style-type: none"> <li>(i) comply with the heritage-related operating conditions of this consent;</li> <li>(ii) ensure all workers receive suitable non-Aboriginal and Aboriginal cultural heritage training/inductions prior to carrying out any activities which may cause impacts to Aboriginal objects or Aboriginal places, and that suitable records are kept of these inductions;</li> <li>(iii) undertake photographic/archival recording</li> </ul> | This plan<br><br><b>Section 9.9.1</b><br><br>see Historic Heritage Management Plan, Sections 5.4 and 5.5                                                                                                                                                                       |

| Approval/ Schedule/ Condition | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Compliance Action/ Section of ACHMP Applicable                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | <p>of any items of heritage significance predicted to be impacted by the development, prior to disturbance;</p> <p>(iv) protect, monitor and manage identified non-Aboriginal heritage, Aboriginal objects and Aboriginal places (including any proposed archaeological investigation of potential subsurface objects and salvage of objects within the approved disturbance area) in accordance with the commitments made in the document/s listed in condition 2 of Schedule 2;</p> <p>(v) protect non-Aboriginal heritage, Aboriginal objects and Aboriginal places located outside the approved disturbance area from impacts of the development, beyond those predicted in the document/s listed in condition 2 of Schedule 2;</p> <p>(vi) manage the discovery of suspected human remains and any new heritage items, Aboriginal objects or Aboriginal places, including provisions for burials, over the life of the development;</p> <p>(vii) maintain and manage reasonable access for relevant Aboriginal stakeholders to Aboriginal objects and Aboriginal places (outside of the approved disturbance area); and</p> <p>(viii) facilitate ongoing consultation and involvement of Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the site.</p> | <p><b>Section 8</b> and see Historic Heritage Management Plan, Sections 5.4 and 5.5</p> <p><b>Section 9.9.3</b></p> <p><b>Section 9.1, Section 9.3, Section 9.9</b> and <b>Section 9.9.3</b>. Also see Historic Management Plan, Sections 5.4 and 5.5</p> <p><b>Section 9.2.3</b> and <b>Section 9.9.3</b></p> <p><b>Section 9.3, Section 9.6</b></p> <p><b>Section 6.4</b></p> |
|                               | (f) include a strategy for the care, control and storage of any heritage relics and Aboriginal objects salvaged on the site, both during the life of the development and in the long term                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Section 9.7</b>                                                                                                                                                                                                                                                                                                                                                              |
|                               | (g) include a program to<br>The Applicant must ensure that all                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Section 9.9.4</b>                                                                                                                                                                                                                                                                                                                                                            |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                 |

| Approval/ Schedule/ Condition | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Compliance Action/ Section of ACHMP Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | known Aboriginal objects or Aboriginal places on the site and within any offset areas are properly recorded, and those records are kept up to date, in the Aboriginal Heritage Information Management System (AHIMS) Register                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                               | (h) include a program to monitor and report on the effectiveness of the management measures carried out under the plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | This ACHMP establishes quarterly site monitoring ( <b>Section 9.3.1</b> ), annual meetings ( <b>Section 6</b> ), and annual monitoring at the LCGGRA <b>Section 9.1.3.2</b> . The objective of these programs will be to ensure both the effectiveness of the management policies in this ACHMP, as well as continued RAP involvement in the design and implementation of these management policies.                                                                                                                   |
| S3-42A                        | <p>The Applicant must not undertake any disturbance within the additional disturbance areas approved under Modification 3 until a revised Heritage Management Plan is approved by the Planning Secretary.</p> <p>The Applicant must implement the Heritage Management Plan as approved by the Planning Secretary.</p>                                                                                                                                                                                                                                                                                                                                                                                      | No development works shall take place before the ACHMP has been approved by the Planning Secretary.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| S5-3                          | <p>The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:</p> <p>(a) detailed baseline data;</p> <p>(b) a description of:</p> <ul style="list-style-type: none"> <li>the relevant statutory requirements (including any relevant approval, licence or lease conditions);</li> <li>any relevant limits or performance measures/criteria;</li> <li>the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;</li> </ul> <p>(c) a description of the measures that would be implemented to</p> | <p><b><i>The base line data for this plan are the heritage surveys and the list of known Aboriginal objects at the BCC (Section 7 and Table 7-1).</i></b></p> <p>The statutory requirements associated with this plan are listed in this table (<b>Table 12-4</b>), to <b>Table 12-8</b>.</p> <p>Performance measures are achieved through the annual monitoring at the LCGGRA (<b>Section 9.1.3.2</b>), the quarterly monitoring program (<b>Section 9.3.1</b>) and the annual site meeting (<b>Section 9.6</b>).</p> |

| Approval/ Schedule/ Condition | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Compliance Action/ Section of ACHMP Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | <p>comply with the relevant statutory requirements, limits, or performance measures/criteria;</p> <p>(d) a program to monitor and report on the:</p> <ul style="list-style-type: none"> <li>• impacts and environmental performance of the development;</li> <li>• effectiveness of any management measures (see c above);</li> </ul> <p>(e) a contingency plan to manage any unpredicted impacts and their consequences;</p> <p>(f) a program to investigate and implement ways to improve the environmental performance of the development over time;</p> <p>(g) a protocol for managing and reporting any:</p> <ul style="list-style-type: none"> <li>• incidents;</li> <li>• complaints;</li> <li>• non-compliances with statutory requirements; and</li> <li>• exceedances of the impact assessment criteria and/or performance criteria; and</li> </ul> <p>(h) a protocol for periodic review of the plan.</p> | <p><b>Section 9.9</b></p> <p>The objectives of this plan are set out in <b>Sections 4.1</b> and <b>9.4</b>.</p> <p>Performance measures are achieved through the annual monitoring at the LCGGRA (<b>Section 9.1.3.2</b>), the quarterly monitoring program (<b>Section 9.3.1</b>) and the annual site meeting (<b>Section 9.6</b>).</p> <p>The quarterly monitoring program (<b>Section 9.3.1</b>) manages any unpredicted impacts and their consequences.</p> <p><b>Section 9.9.5</b><br/><b>Section 9.9.6</b></p> |
| S5-4                          | <p>By the end of March each year, unless the Planning Secretary agrees otherwise, the Applicant must submit a report to the Department, reviewing the environmental performance of the development to the satisfaction of the Planning Secretary. This review must:</p> <p>(a) describe the development (including any rehabilitation) that was carried out in the past financial year, and the development that is proposed to be carried out over the next year;</p> <p>(b) include a comprehensive review of the monitoring results and complaints records of the development over the past financial year, which includes a comparison of these results against the:</p>                                                                                                                                                                                                                                         | <p><b>Section 9.9.7</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Approval/ Schedule/ Condition | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Compliance Action/ Section of ACHMP Applicable |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
|                               | <ul style="list-style-type: none"> <li>• relevant statutory requirements, limits or performance measures/criteria;</li> <li>• requirements of any plan or program required under this consent;</li> <li>• monitoring results of previous years; and</li> <li>• relevant predictions in the documents listed in condition 2 of schedule 2;</li> </ul> <p>(c) identify any non-compliance over the past financial year, and describe what actions were (or are being) taken to ensure compliance;</p> <p>(d) identify any trends in the monitoring data over the life of the development;</p> <p>(e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and</p> <p>(f) describe what measures will be implemented over the current financial year to improve the environmental performance of the development.</p> |                                                |
| S5-5                          | <p>Revision of Strategies, Plans and Programs</p> <p>Within 3 months of:</p> <p>(a) the submission of an annual review under Condition 4 above;</p> <p>(b) the submission of an incident report under Condition 7 below;</p> <p>(c) the submission of an audit report under Condition 9 below; or</p> <p>(d) any modification to the conditions of this consent (unless the conditions require otherwise), the Applicant must review, and if necessary revise, the strategies, plans, and programs required under this consent to the satisfaction of the Planning Secretary.</p> <p>Within 4 weeks of conducting any such review, the Applicant must advise the Planning Secretary of the outcomes of the review, and</p>                                                                                                                                                                                              | <b>Section 10</b>                              |

| Approval/ Schedule/ Condition | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Compliance Action/ Section of ACHMP Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | provide any revised documents to the Planning Secretary for review and approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| S5-7                          | <p><b>Incident Notification</b></p> <p>The Applicant must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing <u>via</u> the Department's Major Projects Website and identify the development (including the development application number and name) and set out the location and nature of the incident.</p>                                                                                                                                                                                                            | <b>Section 9.9.5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| S5-7A                         | <p><b>Non-Compliance Notification</b></p> <p>Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing via the Department's Major Projects Website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, why it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.</p>                                   | <b>Section 9.9.5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| S5-11                         | <p>Within 6 months of the date of this consent, the Applicant must:</p> <p>(a) make copies of the following publicly available on its website:</p> <ul style="list-style-type: none"> <li>• the documents listed in condition 2 of schedule 2;</li> <li>• current statutory approvals for the development;</li> <li>• approved strategies, plans and programs required under the conditions of this consent;</li> <li>• a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;</li> </ul> | <p>The ACHMP and the Plans of Management for the WBCAA and the LCGGRA are available at the Glencore website (<a href="http://glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans">glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/management-plans</a>). The Aboriginal cultural heritage monitoring reports are also available at the Glencore website (<a href="http://glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/monitoring-documents">glencore.com.au/operations-and-projects/coal/current-operations/bulga-coal/monitoring-documents</a>)</p> <p><b>Section 9.9.7</b></p> |

| Approval/ Schedule/ Condition | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Compliance Action/ Section of ACHMP Applicable |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
|                               | <ul style="list-style-type: none"> <li>• a complaints register, which is to be updated monthly;</li> <li>• minutes of CCC meetings;</li> <li>• the annual reviews of the development (for the last 5 years, if applicable);</li> <li>• any independent environmental audit of the development, and the Applicant's response to the recommendations in any audit;</li> <li>• any other matter required by the Planning Secretary; and</li> </ul> <p>(b) keep this information up-to-date,<br/>to the satisfaction of the Planning Secretary.</p> |                                                |

From 1999 to 2014 Bulga Open Cut operations were carried out under DA 41-03-99. For reference to past management conditions pertaining to Aboriginal cultural heritage the conditions of DA 41-03-99 are set out in **Table 12-5**.

**Table 12-5 – Management conditions set out in DA 41-03-99**

| Approval/ Schedule/<br>Condition | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DA 41-03-99/ 3.2/(d)             | <p>The applicants shall prepare the following Environmental Management Plans:<br/>Archaeology and Cultural Heritage Management Plan</p> <p>Note: With the approval of the Director General, the Applicant shall integrate any management plan or monitoring program required by this consent with any similar plan or program for the Bulga Coal Complex.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DA 41-03-99/ 3.2/(e)             | <p>The management plans are to be revised/ updated every 5 years or as otherwise directed by the Director General in consultation with the relevant government agencies. The management plans are also to be revised/ updated after each modification of the consent, wherever appropriate. Changes shall be made and approved in the same manner as the initial environmental management plan. The plans should also be made publicly available at SSC within two weeks of approval of the relevant government authority.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DA 41-03-99/3.3/ (a)             | <p>The applicant shall prepare an Archaeology and Cultural Heritage Management Plan to address Aboriginal and European heritage issues. The Plan shall be prepared in consultation with any registered Aboriginal stakeholders and OEH, and to the satisfaction of the Director General prior to the commencement of mining operations. The plans shall include but not be limited to:</p> <ul style="list-style-type: none"> <li>• Identification of all areas of conservation within the DA area;</li> <li>• Provision of management strategies for all parts of the DA area not affected by mining;</li> <li>• Identification and monitoring of future salvage, excavation, and any heritage archaeological sites within the DA area, prior to and during the development;</li> <li>• The proposed program for collection of artefacts prior to commencement of mining in the area;</li> <li>• The measures to protect and preserve the undisturbed deposits in Area 2 and identified in Figure 12.3 of the EIS;</li> <li>• Measures to manage the discovery of any previously unidentified Aboriginal objects or skeletal remains during the life of the development; and</li> </ul> <p>Details of measures to assist the Aboriginal community to maintain and manage cultural heritage in the DA area.</p> |
| DA 41-03-99/3.3/ (b)             | <p>Within six months of the commencement of Mining Operations, the Applicant shall make a \$50,000 contribution towards the establishment of a trust fund set up by the Department through the Public Trustee. The funds are to be used for a regional study of Aboriginal sites and cultural heritage projects agreed by the Wonnarua Tribal Council.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DA 41-03-99/3.3/ (c)             | <p>If, during the course of construction of any surface facilities or mining activities, the applicant becomes aware of any heritage or archaeological material not previously identified, all work likely to affect the material shall cease immediately and the relevant authorities consulted about an appropriate course of action prior to the recommencement of work. The relevant authorities may include OEH, the NSW heritage Office, and the relevant aboriginal community. Any necessary permits or consent shall be obtained and complied with prior to work recommencing.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Approval/ Schedule/<br>Condition | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DA 41-03-99/3.3/ (d)             | 1. No Aboriginal archaeological sites, that have been identified, shall be destroyed without the approval of the Director General of OEH, under section 90 of the <i>National Parks and Wildlife Act 1974</i> , prior to any disturbance of the identified sites by mining operations.                                                                                                                     |
| DA 41-03-99/3.3/ (e)             | 2. Wherever possible, the applicant is to contract representatives of the Wonnarua Tribal Council to assist in the proposed archaeological investigations and to undertake salvage of artefacts.                                                                                                                                                                                                           |
| DA 41-03-99/3.3/ (f)             | The applicant shall continue to preserve the site of the axe grinding grooves in accordance with the relevant recommendations set out in the EIS (1990) and the requirements of the Director of OEH and provide a buffer zone and protective fence around the site in accordance with the requirements of the Director of OEH                                                                              |
| DA 41-03-99/3.3/ (h)             | The applicant shall consult with the Aboriginal community regarding any approvals that are sought under Part 6 of the <i>National Parks and Wildlife Act 1974</i> using consultation principals and strategies consistent with those outlined in the OEH Aboriginal Cultural Heritage Consultation Requirements for Proponents (2010). The results of these consultations shall be documented in the AEMR. |

## B.3 Bulga Underground Operations Consent

**Table 12-6** – Relevant conditions from DA 376-8-2003 sets out the relevant Conditions in DA 376-8-2003 and where those conditions are addressed in this ACHMP.

**Table 12-6 – Relevant conditions from DA 376-8-2003**

| Approval/ Schedule/ Condition                                             | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Compliance Action/ Section of ACHMP Applicable |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| DA 376-8-2003/ Schedule 4/ Condition 4. Subsidence: Performance Measures. | Aboriginal Heritage: No greater subsidence impact or environmental consequences than approved under a permit issued under section 90 of the <i>National Parks and Wildlife Act 1974</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Section 8.2; Section 9.5.</b>               |
| DA 376-8-2003/ Schedule 4/ Condition 7B (i). Extraction Plan              | <p>The Applicant must prepare and implement an Extraction Plan for any second workings on site, to the satisfaction of the Planning Secretary. The plan must include the following to the satisfaction of the Resources Regulator:</p> <ul style="list-style-type: none"> <li>a Subsidence Monitoring Program to: <ul style="list-style-type: none"> <li>- provide data to assist with the management of the risks associated with subsidence;</li> <li>- validate the subsidence predictions;</li> <li>- analyse the relationship between the predicted and resulting subsidence effects and predicted and resulting impacts under the plan and any ensuing</li> </ul> </li> </ul> | <b>Section 8.2; Section 9.5.</b>               |

| Approval/ Schedule/ Condition                                | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Compliance Action/ Section of ACHMP Applicable                                                                                                                                                                                                           |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              | <p>environmental consequences;<br/>and</p> <p>- inform the contingency plan and adaptive management process.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                          |
| DA 376-8-2003/ Schedule 4/ Condition 7B (j). Extraction Plan | <p>The Applicant must prepare and implement an Extraction Plan for any second workings on site, to the satisfaction of the Planning Secretary. The plan must include a:</p> <ul style="list-style-type: none"> <li>Heritage Management Plan, which has been prepared in consultation with Heritage NSW (BCD) and relevant Aboriginal stakeholders, which includes a program/procedure for: <ul style="list-style-type: none"> <li>- minimising disturbance to Aboriginal sites as far as is reasonable and feasible, particularly in relation to the BMU1 site;</li> <li>salvage, excavation and/or management of Aboriginal sites and potential archaeological deposits within the project disturbance area, including the BMU1 site;</li> <li>- protection and monitoring of Aboriginal sites outside the project disturbance area;</li> <li>managing the discovery of any new Aboriginal objects or skeletal remains during the development;</li> <li>- ongoing consultation and involvement of the Aboriginal communities in the conservation and management of Aboriginal cultural heritage on the site.</li> </ul> </li> </ul> | <p>This plan. See responses in <b>Table 12-4</b>.</p> <p>BMU1 was covered with geofabric and sand as part of the BOP savage program in 2015. The site is now buried beneath the Noise and Visual Bund and has been listed as 'destroyed' with AHIMS.</p> |
| DA 376-8-2003/ Schedule 4/ Condition 34                      | <p>Conservation Agreement</p> <p>The Applicant must protect BCO10 and the associated landscape context within the proposed conservation area east of Wollombi Brook (see Figure 13.3 in the <i>Bulga Coal Continued Underground Operations</i> EIS) and consider options for extending this area to the satisfaction of Heritage NSW (BCD).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>BCO10 (37-6-1401) is part of the WBCAA that is currently protected by fencing and signage.</p> <p>The WBCAA has been gazetted as a Conservation Area.</p> <p><b>Section 9.1.1</b> of this ACHMP.</p>                                                  |

| Approval/ Schedule/ Condition           | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                            | Compliance Action/ Section of ACHMP Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DA 376-8-2003/ Schedule 4/ Condition 35 | <p>Scarred Tree</p> <p>The Applicant must protect the scarred tree at Bulga 6 (see Figure 7.2 in Appendix 13 of the <i>Bulga Coal Continued Underground Operations</i> EIS) to the satisfaction of Heritage NSW (BCD).</p>                                                                                                                                                                                  | <p>Protective fencing has been placed surrounding this site.</p> <p><b>Section 9</b> of this ACHMP</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| DA 376-8-2003/ Schedule 4/ Condition 36 | <p>Section 90 Consent</p> <p>The Applicant must obtain Section 90 consents from Heritage NSW (BCD) to destroy the following Aboriginal artefact find locations, and the deposits between them: BCO2, BCO21, BMU1, BMU2 (B71 &amp; Saxonvale B), BMU12, BMU17, IF Bulga South, GIF-IF1, GIF-IF2, GIF-IF3, GIF-IF4, BP2, G2, G3, G4, G9, G11, PART BCO1 (Saxonvale A), BCO3, BCO10 (G7, G6, G8, Bulga 7).</p> | <p>BCO2 (37-6-1047) is listed as 'destroyed' on AHIMS;</p> <p>BCO21 (37-6-1413) was salvaged during the BOP salvage program and is now listed as 'destroyed' on AHIMS;</p> <p>BMU1 was covered <i>in situ</i> as part of the BOP salvage program and is listed as 'destroyed' on AHIMS.</p> <p>BMU2 (37-6-0966) has been salvaged under AHIPs #1748 and #2766. Also part of BOP SC-12 and salvaged during the BOP salvage program in 2015;</p> <p>BMU12 (37-6-0956) remains extant and will not be impacted by approved mining activities. See <b>Table 9-2</b>;</p> <p>BMU17 (37-6-0951) remains extant and will not be impacted by approved mining activities. See <b>Table 9-2</b>;</p> <p>IF Bulga South (37-6-0757) was salvaged during the BOP salvage program and is now listed as 'destroyed' on AHIMS;</p> <p>GIF-IF1 (37-6-1845) remains extant and will not be impacted by approved mining activities. See <b>Table 9-2</b>.</p> <p>GIF-IF2 (37-6-1846), GIF-IF3 (37-6-1847) and GIF-IF4 (37-6-1841) are listed as 'destroyed' on AHIMS;</p> <p>BP2 (37-6-1663/1664) remains extant and will be avoided by approved mining activities. See <b>Table 9-2</b>;</p> <p>G2 (37-6-1846), G3 (37-6-1842), G4 (37-6-1843), G9 (37-6-1844), BCO1 (37-6-0139) are all listed as 'destroyed' on AHIMS;</p> <p>G11 (not listed) remains extant and will be avoided by approved mining activities. See <b>Table 9-2</b>;</p> <p>BCO3 (37-6-1048) has been partially salvaged and will not be</p> |

| Approval/ Schedule/ Condition           | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Compliance Action/ Section of ACHMP Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>impacted by approved mining activities. See <b>Table 9-2</b>;</p> <p>BCO10 (37-6-1401) has been partially salvaged. The remainder is located within the WBCAA and is preserved.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DA 376-8-2003/ Schedule 4/ Condition 37 | <p><b>Salvage</b></p> <p>The Applicant must develop a salvage program/s for the following sites in consultation with the Aboriginal community and to the satisfaction of Heritage NSW (BCD): BCO2, BCO21, BMU2 (B71 &amp; Saxonvale B), BP2, G2, G3, G4, G9, G11, PART BCO1 (Saxonvale A), BCO3, BCO10 (G7, G6, G8, Bulga 7).</p> <p>Note: The program/s will be considered as part of the Section 90 consent process.</p>                                                                                                                                                                                              | <p>BCO2 (37-6-1047) is listed as 'destroyed' on AHIMS;</p> <p>BCO21 (37-6-1413) was salvaged during the BOP salvage program and is now listed as 'destroyed' on AHIMS;</p> <p>BMU2 (37-6-0966) has been salvaged under AHIPs #1748 and #2766;</p> <p>BP2 (37-6-1663/1664) remains extant and will be avoided by approved mining activities. See <b>Table 9-2</b>;</p> <p>G2 (37-6-1846), G3 (37-6-1842), G4 (37-6-1843), G9 (37-6-1844), BCO1 (37-6-0139) are all listed as 'destroyed' on AHIMS;</p> <p>G11 (not listed) remains extant and will be avoided by approved mining activities. See <b>Table 9-2</b>;</p> <p>BCO3 (37-6-1048) has been partially salvaged and will not be impacted by approved mining activities. See <b>Table 9-2</b>;</p> <p>BCO10 (37-6-1401) has been partially salvaged. The remainder is located within the WBCAA.</p> |
| DA 376-8-2003/ Schedule 4/ Condition 38 | <p>The Applicant must prepare a Heritage Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:</p> <p>(a) be prepared in consultation with Heritage NSW (BCD), the Aboriginal community, and be submitted to the Planning Secretary for approval by the end of March 2014;</p> <p>(b) include a program/procedure for:</p> <ul style="list-style-type: none"> <li>• minimising disturbance to Aboriginal sites as far as is reasonable and feasible;</li> <li>• salvage, excavation and/or management of Aboriginal sites and potential archaeological deposits</li> </ul> | <p>This plan</p> <p>See responses in <b>Table 12-4</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| Approval/ Schedule/ Condition                                                                    | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                             | Compliance Action/ Section of ACHMP Applicable          |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
|                                                                                                  | <p>within the project disturbance area;</p> <ul style="list-style-type: none"> <li>• protection and monitoring of Aboriginal sites outside the project disturbance area;</li> <li>• managing the discovery of any new Aboriginal objects or skeletal remains during the development</li> <li>• ongoing consultation and involvement of the Aboriginal communities in the conservation and management of Aboriginal cultural heritage on the site.</li> </ul> |                                                         |
| DA 376-8-2003/ Schedule 4/ Condition 39                                                          | <p>Trust Fund Contribution</p> <p>Within 6 months of the date of this consent, or as agreed otherwise by the Planning Secretary, the Applicant must contribute \$50,000 to the Hunter Aboriginal Cultural Heritage Trust Fund for further investigations into Aboriginal heritage, as defined by the Trust Deed</p>                                                                                                                                          | Letter 16th August 2004 demonstrates contribution paid. |
| The Applicant must implement the Heritage Management Plan as approved by the Planning Secretary. |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         |

## B.4 Mining and Exploration Leases

Conditions from mining and exploration leases related to the ACHMP are presented in **Table 12-7**.

**Table 12-7 – Relevant conditions relating to the ACHMP from Mining and Exploration Leases**

| Approval/ Schedule/ Condition | Condition Detail                                                                                                                                                                                                                                                                                                                                                           | Compliance Action/ Section of ACHMP Applicable |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| ML5277/ Condition 43          | The lease holder shall not knowingly destroy, deface or damage any Aboriginal object or Aboriginal place within the subject area except in accordance with an authority issued under the <i>National Parks and Wildlife Act, 1974</i> , and shall take every precaution in drilling, excavating or disturbing the land against any such destruction, defacement or damage. | <b>Section 9.9.1</b>                           |
| ML 1494                       | No conditions relevant.                                                                                                                                                                                                                                                                                                                                                    |                                                |
| ML 1717                       | No conditions relevant.                                                                                                                                                                                                                                                                                                                                                    |                                                |

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                   |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| EL5277, EL5461, AU450, AU447/<br>Condition 1 (c)  | The prospecting operations listed in Category 1 may be conducted on the licence area provided that: the operations do not cause damage to Aboriginal objects or Aboriginal places;                                                                                                                                                                                                   | <b>Section 9.9.1</b> of ACHMP, including consideration of the due diligence code. |
| EL5277/ Condition 12 (a)                          | Prior to carrying out any prospecting operations the licence holder must consider potential impacts on Aboriginal Heritage according to Guidelines for Aboriginal Heritage Impact Assessment in the Exploration and Mining Industries (NPWS, October 1997).                                                                                                                          | <b>Section 9.9.2</b> of ACHMP, including consideration of the due diligence code. |
| EL5277, EL5461, AU450, AU447/<br>Condition 12 (b) | Aboriginal Cultural Heritage issues must be satisfactorily addressed in any notification under Condition 2 of this licence.                                                                                                                                                                                                                                                          | <b>Section 9.9.2</b> of ACHMP, including consideration of the due diligence code. |
| EL5277, EL5461, AU450, AU447/<br>Condition 12 (c) | The licence holder must not knowingly destroy, deface or damage any Aboriginal object or Aboriginal place within the area except in accordance with a consent issued under the <i>National Parks and Wildlife Act 1974</i> . The licence holder must take all necessary precautions in drilling, excavating or disturbing the land against any such destruction, defacing or damage. | <b>Section 9.9.2</b> of ACHMP, including consideration of the due diligence code. |

**Table 12-8** records the specific Condition in DA 367-8-2003 pertaining to the monitoring of archaeological sites within the areas of impact from mine subsidence.

**Table 12-8 – Relevant conditions relating to the ACHMP from DA 376-8-2003**

| Approval/ Schedule/ Condition                                                                             | Condition Detail                                                                                                                                                                                                                                                                                                                                                                                                                                      | Compliance Action/ Section of ACHMP Applicable |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| DA 376-8-2003: 2013 modification (Schedule 4, 7B) contains conditions for the Subsidence Management Plan. | <ul style="list-style-type: none"> <li>provide data to assist with the management of the risks associated with subsidence;</li> <li>validate the subsidence predictions;</li> <li>analyse the relationship between the predicted and resulting subsidence effects and predicted and resulting impacts under the plan and any ensuing environmental consequences; and</li> <li>inform the contingency plan and adaptive management process.</li> </ul> | <b>Section 9.5</b> of this ACHMP.              |

## B.5 B.6 Intergenerational Equity Measures

As a result of RAP consultation during the BOP assessment, several measures have been proposed by BCM to enhance the intergenerational equity outcomes for the local Aboriginal community. The completed measures are detailed in **Table 12-9**.

**Table 12-9 – Intergenerational equity measures**

| Intergenerational Equity Measure                                                                                                                                                                                                                                                             | Comments                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Revision of the BCM induction program for employees and visitors to include Aboriginal cultural awareness and values of the site and its context;                                                                                                                                            | The site induction program was revised and includes Aboriginal cultural awareness and values of the site and its context.            |
| Lizard (Yellow) Rock site protection works – engage RAPs and NSW Forests to propose and where possible construct appropriate protective barriers to restrict vehicular access to the top of Lizard Rock (Yellow Rock);                                                                       | Bulga consulted with NSW Forestry who installed a gate and signage as a protection measure. This was done in consultation with RAPs. |
| Education Scholarships – Provide three scholarships for Aboriginal community members to attend culturally related education courses for 3 years. Scholarship value will be \$10,000 each per annum. Scholarship selection will be through the Glencore Reconciliation Action Plan committee; | This is completed and was coordinated by Glencore Coal Assets Australia. Three scholarships were provided.                           |
| Provision of support for the Cultural Heritage mapping and GIS training program;                                                                                                                                                                                                             | This was completed in 2016 as part of a Memorandum of Understanding.                                                                 |
| Provision of support for a St Claire Mission Management Plan; and                                                                                                                                                                                                                            | This was completed in 2016 as part of a Memorandum of Understanding.                                                                 |
| Provision of support for an ethnographic and historical research program.                                                                                                                                                                                                                    | This was completed in 2016 as part of a Memorandum of Understanding.                                                                 |

## Appendix C - Aboriginal Heritage Impact Permits

AHIPs issued to the BCC are set out in **Table 12-10**.

**Table 12-10 – AHIPS issued for sites within the Bulga Coal Complex**

| AHIP#         | Year      | Site(s) to which AHIP applies                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nov 1981 AHIP | 1981      | 37-6-0145<br><i>(This AHIP does not contain a reference number; hence the date of issue has been listed)</i>                                                                                                                                                                                                                                                                                                                                                            |
| 252           | unknown   | 37-6-0141, 37-6-0427, 37-6-0477, 37-6-0479                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 283           | 1991      | 37-6-0474, 37-6-0475, 37-6-0476, 37-6-0478, 37-6-0490, 37-6-0491, 37-6-0495, 37-6-0497, 37-6-0501, 37-6-0505, 37-6-0506, 37-6-0507, 37-6-0508, 37-6-0511, 37-6-0513, 37-6-0514, 37-6-0522, 37-6-0528, 37-6-0531, 37-6-0532, 37-6-0534, 37-6-0535, 37-6-0536, 37-6-0537, 37-6-0538, 37-6-0539, 37-6-0540, 37-6-0541, 37-6-0542, 37-6-0543, 37-6-0544, 37-6-0545, 37-6-0548, 37-6-0140, 37-6-0287, 37-6-0500 (part), 37-6-0503 (part), 37-6-0521 (part), 37-6-0546 (part) |
| 630           | 1994      | 37-6-0650                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 746           | 1995      | 37-6-0530, 37-6-0529, 37-6-0659, 37-6-0661                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1455          | unknown   | 37-6-0149                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1591          | 2003      | 37-6-0949, 37-6-0958, 37-6-0959, 37-6-0960, 37-6-0961, 37-6-0962                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1748          | 2003      | 37-6-0547, 37-6-0142, 37-6-0978 (part), 37-6-0966, 37-6-0965, 37-6-0964, 37-6-0963, 37-6-0962, 37-6-0961, 37-6-0960, 37-6-0959, 37-6-0958, 37-6-0957                                                                                                                                                                                                                                                                                                                    |
| 2429          | 2006      | 37-6-0890, 37-6-0891, 37-6-0895                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2776          | 2008      | 37-6-0966 (part), 37-6-0967                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2890          | 2008      | 37-6-1797                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1091323       | 2008      | 37-6-1401 (part), 37-6-1840, 37-6-1841, 37-6-1842, 37-6-1843, 37-6-1844, G6, G7, G8, 37-6-0429, 37-6-1846, 37-6-1847<br><i>(AHIP area includes 37-6-0428 (Bulga 6 scarred tree) but site specifically excluded from AHIP and located within a protective fence area)</i>                                                                                                                                                                                                |
| 1096791       | 2009      | 37-6-0584, 37-6-0585 (part), 37-6-1930, 37-6-1929, 37-6-1928, 37-6-1968, 37-6-1978                                                                                                                                                                                                                                                                                                                                                                                      |
| 1109043       | 2009      | 37-6-1979, 37-6-1980, 37-6-1981, 37-6-1982, 37-6-1983, 37-6-1984, 37-6-1985, 37-6-1986, 37-6-0585 (part)                                                                                                                                                                                                                                                                                                                                                                |
| 1116702       | 2010/2014 | 37-6-0139, 37-6-0873, 37-6-0804, 37-6-0893, 37-6-0897, 37-6-0903, 37-6-0904, 37-6-0906, 37-6-0907, 37-6-0931, 37-6-1047, 37-6-1395, 37-6-1048, 37-6-1394, 37-6-1396, 37-6-1397, 37-6-1398, 37-6-1399, 37-6-1400, 37-6-1662, 37-6-0892                                                                                                                                                                                                                                   |
| C0000331      | 2014      | 37-6-2858 (part), 37-6-2921, 37-6-2922                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| C0002083      | 2016      | 37-6-3399 (part); 37-6-3576, 37-6-2058                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| AHIP# | Year | Site(s) to which AHIP applies                                                                                    |
|-------|------|------------------------------------------------------------------------------------------------------------------|
| SZ124 | 1996 | 37-6-0584, 37-6-0585, 37-6-0757                                                                                  |
| SZ306 | 2000 | BOC 2(A1), BOC IF6(A1), BOC 5(A1), BOC IF1(A1), BOC IF 2(a1), BOC IF4(A1), BOC IF 6(a1), BOC 7(a1), BOC IF 7(A1) |

Salvage of sites undertaken as part of SSD-4960 are set out in **Table 12-11**.

**Table 12-11 – Salvage undertaken under SSD-4960**

| SSD#     | Year               | Site(s) to which the SSD applies        |
|----------|--------------------|-----------------------------------------|
| SSD-4960 | 2017 (BOP Salvage) | 37-6-0146 Saxonvale E (part)            |
|          |                    | 37-6-0148 Loders Creek Grinding Grooves |
|          |                    | 37-6-0426 Bulga 4                       |
|          |                    | 37-6-0427 Bulga 5                       |
|          |                    | 37-6-0477 Bulga 11                      |
|          |                    | 37-6-0479 Bulga 13                      |
|          |                    | 37-6-0492 B16                           |
|          |                    | 37-6-0493 B17                           |
|          |                    | 37-6-0494 B18                           |
|          |                    | 37-6-0496 B20                           |
|          |                    | 37-6-0498 B22                           |
|          |                    | 37-6-0499 B23                           |
|          |                    | 37-6-0500 B24                           |
|          |                    | 37-6-0502 B26                           |
|          |                    | 37-6-0504 B28                           |
|          |                    | 37-6-0509 Bulga 33                      |
|          |                    | 37-6-0510 Bulga 34                      |
|          |                    | 37-6-0512 Bulga 36                      |
|          |                    | 37-6-0515 Bulga 39                      |
|          |                    | 37-6-0516 Bulga 40                      |
|          |                    | 37-6-0517 Bulga 41                      |
|          |                    | 37-6-0518 Bulga 42                      |
|          |                    | 37-6-0519 Bulga 43                      |
|          |                    | 37-6-0520 Bulga 44                      |
|          |                    | 37-6-0521 Bulga 45                      |
|          |                    | 37-6-0523 B47                           |
|          |                    | 37-6-0524 B48                           |
|          |                    | 37-6-0525 B49                           |
|          |                    | 37-6-0526 B50                           |
|          |                    | 37-6-0527 B51                           |
|          |                    | 37-6-0757 IF1BULGASOUTH                 |
|          |                    | 37-6-0869 Bulga Open Cut ISF8 (A1)      |
|          |                    | 37-6-0871 Bulga Open Cut Site 8 (A1)    |
|          |                    | 37-6-0872 Bulga Open Cut Site 9 (A1)    |
|          |                    | 37-6-0887 Bulga Open Cut 1F5 (A2)       |
|          |                    | 37-6-0889 Bulga Open Cut IF6 (A2)       |
|          |                    | 37-6-0894 Bulga open Cut Site 2         |
|          |                    | 37-6-0896 Bulga Open Cut Site 4 (A2)    |

| SSD# | Year | Site(s) to which the SSD applies |
|------|------|----------------------------------|
|      |      | 37-6-0898 BOC 6(a1)              |
|      |      | 37-6-0900 SBU1                   |
|      |      | 37-6-0901 SBU2                   |
|      |      | 37-6-0931 SBU35                  |
|      |      | 37-6-0966 BMU2                   |
|      |      | 37-6-0967 BMU1                   |
|      |      | 37-6-1408 BCO16                  |
|      |      | 37-6-1409 BCO17                  |
|      |      | 37-6-1410 BCO18                  |
|      |      | 37-6-1411 BCO19                  |
|      |      | 37-6-1412 BCO20                  |
|      |      | 37-6-1413 BCO21                  |
|      |      | 37-6-1414 BCO22                  |
|      |      | 37-6-1415 BCO23 (part)           |
|      |      | 37-6-1416 BCO24                  |
|      |      | 37-6-1417 BCO25                  |
|      |      | 37-6-1418 BCO26 (part)           |
|      |      | 37-6-1932 BDS1                   |
|      |      | 37-6-1933 BDS2                   |
|      |      | 37-6-1934 BDS3                   |
|      |      | 37-6-1935 BDS4                   |
|      |      | 37-6-1936 BDS5                   |
|      |      | 37-6-1969 BDS6                   |
|      |      | 37-6-1970 BDS7                   |
|      |      | 37-6-1971 BDS8                   |
|      |      | 37-6-1972 BDS9                   |
|      |      | 37-6-1973 BDS10                  |
|      |      | 37-6-1974 BDS11                  |
|      |      | 37-6-1975 BDS12                  |
|      |      | 37-6-1976 BDS13                  |
|      |      | 37-6-1977 BDS14                  |
|      |      | 37-6-2828 BOP IF-1               |
|      |      | 37-6-2829 BOP IF-2               |
|      |      | 37-6-2830 BOP IF-3               |
|      |      | 37-6-2831 BOP IF-4               |
|      |      | 37-6-2833 BOP IF-6               |
|      |      | 37-6-2834 BOP IF-7               |
|      |      | 37-6-2835 BOP OS-1               |
|      |      | 37-6-2838 BOP OS-4               |
|      |      | 37-6-2839 BOP OS-5               |
|      |      | 37-6-2840 BOP OS-6 (part)        |
|      |      | 37-6-2841 BOP OS-7               |
|      |      | 37-6-2843 BOP OS-9               |
|      |      | 37-6-2844 BOP OS-10 (part)       |
|      |      | 37-6-2845 BOP SC-1 with PAD      |
|      |      | 37-6-2846 BOP SC-2               |
|      |      | 37-6-2847 BOP SC-3 (part)        |

| SSD#     | Year                    | Site(s) to which the SSD applies |                             |
|----------|-------------------------|----------------------------------|-----------------------------|
|          |                         | 37-6-2848                        | BOP SC-4                    |
|          |                         | 37-6-2849                        | BOP SC-5 with PAD (part)    |
|          |                         | 37-6-2850                        | BOP SC-6 with PAD (part)    |
|          |                         | 37-6-2851                        | BOP SC-7 with PAD           |
|          |                         | 37-6-2852                        | BOP SC-8 with PAD           |
|          |                         | 37-6-2853                        | BOP SC-9 with PAD           |
|          |                         | 37-6-2854                        | BOP SC-10 with PAD          |
|          |                         | 37-6-2856                        | BOP SC-12                   |
|          |                         | 37-6-2858                        | BOP SC-14                   |
|          |                         | 37-6-2961                        | NM11 (NMC South) (part)     |
| SSD-4960 | 2018 (BOP MOD1 Salvage) | 37-6-2847                        | BOP-SC3 (remaining portion) |
|          |                         | 37-6-2836                        | BOP-OS2                     |
|          |                         | 37-6-3661                        | BOP IF-8                    |

Sites unintentionally destroyed and self-reported to Heritage NSW are set out in **Table 12-12**.

**Table 12-12 – Unintentionally destroyed sites**

| Year | AHIMS #                | Site name                                                                                                         |
|------|------------------------|-------------------------------------------------------------------------------------------------------------------|
| 2018 | 37-6-3880 (Bulga IF-3) | The site was confirmed destroyed on 06/09/2018 because of mining activities. This was reported to the regulators. |
| 2018 | 37-6-3881 (Bulga IF-4) | The site was confirmed destroyed on 06/09/2018 because of mining activities. This was reported to the regulators. |

209 sites have been subject to salvage works in the past and are now listed as 'destroyed' on the AHIMS database. Details of these sites are shown in **Table 12-13**.

**Table 12-13 – Sites listed as 'destroyed' on the AHIMS database.**

| AHIMS     | Site name    | Site Type          | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder | Date recorded | AHIP/SSD (if known) |
|-----------|--------------|--------------------|---------------------|----------------------|----------|---------------|---------------------|
| 37-6-0138 | Loders Creek | Artefact - Scatter | 321424              | 6382380              | Dyall    | 1981          |                     |
| 37-6-0139 | Saxonvale A  | Artefact - Scatter | 320562              | 6379319              | Dyall    | 1981          | 1116702             |
| 37-6-0140 | LOADERSCK-S  | Artefact - Scatter | 321581              | 6383442              | Dyall    | 1981          | 283                 |
| 37-6-0141 | Saxonvale C  | Artefact - Scatter | 322373              | 6379964              | Dyall    | 1981          | 252                 |
| 37-6-0142 | Saxonvale B  | Artefact - Scatter | 319137              | 6382327              | Dyall    | 1981          | 1748                |
| 37-6-0143 | Saxonvale D  | Artefact - Scatter | 322344              | 6383464              | Dyall    | 1981          |                     |

| AHIMS     | Site name    | Site Type                           | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder | Date recorded | AHIP/SSD (if known) |
|-----------|--------------|-------------------------------------|---------------------|----------------------|----------|---------------|---------------------|
| 37-6-0144 | NINEMILECK   | Artefact - Scatter                  | 324157              | 6383075              | Dyall    | 1981          |                     |
| 37-6-0147 | LOADERSCK-N1 | Artefact - Scatter                  | 321905              | 6384090              | Dyall    | 1981          |                     |
| 37-6-0148 | LOADERSCK-N2 | Grinding Groove                     | 321805              | 6384190              | Dyall    | 1981          |                     |
| 37-6-0149 | Saxonvale GG | Grinding Groove                     | 322491              | 6377891              | Dyall    | 1981          | 1455                |
| 37-6-0287 | MT1          | Artefact - Scatter                  | 320975              | 6385140              | ANU      | 1983          | 283                 |
| 37-6-0426 | B4           | Artefact - Scatter                  | 322385              | 6385160              | Brayshaw | 1990          |                     |
| 37-6-0427 | Bulga 5      | Artefact - Scatter                  | 321905              | 6384130              | Brayshaw | 1990          | 252                 |
| 37-6-0429 | B7           | Artefact - Scatter                  | 318120              | 6383689              | Brayshaw | 1990          | 2991<br>1091323     |
| 37-6-0474 | B8           | Artefact - Scatter                  | 321509              | 6383643              | Brayshaw | 1990          | 283                 |
| 37-6-0475 | B9           | Artefact - Scatter and Hearth       | 321591              | 6383984              | Brayshaw | 1990          | 283                 |
| 37-6-0476 | B10          | Artefact - Scatter                  | 322399              | 6383772              | Brayshaw | 1990          | 283                 |
| 37-6-0477 | B11          | Artefact - Scatter                  | 322149              | 6384497              | Brayshaw | 1990          | 252                 |
| 37-6-0478 | B12          | Artefact - Scatter                  | 321978              | 6384527              | Brayshaw | 1990          | 283                 |
| 37-6-0479 | B13          | Artefact - Scatter                  | 322421              | 6383338              | Brayshaw | 1990          | 252                 |
| 37-6-0490 | B14          | Artefact - Isolated Find and Hearth | 321644              | 6383766              | Koettig  | 1991          | 283                 |
| 37-6-0491 | B15          | Artefact - Scatter                  | 322009              | 6384466              | Koettig  | 1991          | 283                 |

| AHIMS     | Site name | Site Type                              | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder | Date recorded | AHIP/SSD (if known) |
|-----------|-----------|----------------------------------------|---------------------|----------------------|----------|---------------|---------------------|
| 37-6-0492 | B16       | Artefact - Scatter                     | 322415              | 6383600              | Koettig  | 1991          |                     |
| 37-6-0493 | B17       | Artefact - Scatter                     | 322416              | 6383551              | Koettig  | 1991          |                     |
| 37-6-0494 | B18       | Artefact - Scatter                     | 322357              | 6383561              | Koettig  | 1991          |                     |
| 37-6-0495 | B19       | Artefact - Scatter                     | 321693              | 6383944              | Koettig  | 1991          | 283                 |
| 37-6-0496 | B20       | Artefact - Scatter                     | 322376              | 6383400              | Koettig  | 1991          |                     |
| 37-6-0497 | B21       | Artefact - Scatter                     | 321663              | 6383851              | Koettig  | 1991          | 283                 |
| 37-6-0498 | B22       | Artefact - Scatter                     | 322135              | 6384151              | Koettig  | 1991          |                     |
| 37-6-0499 | B23       | Hearth                                 | 322085              | 6384192              | Koettig  | 1991          |                     |
| 37-6-0500 | B24       | Artefact - Scatter and 2 Hearths       | 322071              | 6384043              | Koettig  | 1991          | 283                 |
| 37-6-0501 | B25       | Artefact - Scatter and Possible Hearth | 322251              | 6383890              | Koettig  | 1991          | 283                 |
| 37-6-0502 | B26       | Hearth                                 | 322294              | 6383823              | Koettig  | 1991          |                     |
| 37-6-0503 | B27       | Artefact - Scatter and Hearth          | 322289              | 6383728              | Koettig  | 1991          | 283                 |
| 37-6-0504 | B28       | Artefact - Scatter and Hearth          | 322344              | 6383682              | Koettig  | 1991          |                     |
| 37-6-0505 | B29       | Hearth                                 | 321567              | 6383704              | Koettig  | 1991          | 283                 |
| 37-6-0506 | B30       | Artefact - Scatter                     | 321586              | 6383636              | Koettig  | 1991          | 283                 |

| AHIMS     | Site name | Site Type                        | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder | Date recorded | AHIP/SSD (if known) |
|-----------|-----------|----------------------------------|---------------------|----------------------|----------|---------------|---------------------|
| 37-6-0507 | B31       | Artefact - Scatter               | 321630              | 6383521              | Koettig  | 1991          | 283                 |
| 37-6-0508 | B32       | Artefact - Scatter               | 321711              | 6383205              | Koettig  | 1991          | 283                 |
| 37-6-0509 | B33       | Artefact - Scatter               | 322106              | 6384394              | Koettig  | 1991          |                     |
| 37-6-0510 | B34       | Artefact - Scatter               | 322155              | 6384400              | Koettig  | 1991          |                     |
| 37-6-0511 | B35       | Hearth                           | 322075              | 6384599              | Koettig  | 1991          | 283                 |
| 37-6-0512 | B36       | Artefact - Scatter               | 322255              | 6384630              | Koettig  | 1991          |                     |
| 37-6-0513 | B37       | Artefact - Scatter               | 322295              | 6384690              | Koettig  | 1991          | 283                 |
| 37-6-0514 | B38       | Artefact - Scatter               | 322425              | 6384740              | Koettig  | 1991          | 283                 |
| 37-6-0515 | B39       | Artefact - Scatter               | 322495              | 6384880              | Koettig  | 1991          |                     |
| 37-6-0516 | B40       | Artefact - Scatter               | 322485              | 6384994              | Koettig  | 1991          |                     |
| 37-6-0517 | B41       | Artefact - Scatter               | 322456              | 6385038              | Koettig  | 1991          |                     |
| 37-6-0518 | B42       | Artefact - Scatter               | 322365              | 6385160              | Koettig  | 1991          |                     |
| 37-6-0519 | B43       | Artefact - Scatter               | 322395              | 6385080              | Koettig  | 1991          |                     |
| 37-6-0520 | B44       | Artefact - Scatter               | 322395              | 6385020              | Koettig  | 1991          |                     |
| 37-6-0521 | B45       | Artefact - Scatter               | 322406              | 6384950              | Koettig  | 1991          | 283                 |
| 37-6-0522 | B46       | Artefact - Scatter and 3 Hearths | 322305              | 6384790              | Koettig  | 1991          | 283                 |
| 37-6-0523 | B47       | Artefact - Scatter               | 321900              | 6384339              | Koettig  | 1991          |                     |

| AHIMS     | Site name | Site Type          | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder | Date recorded | AHIP/SSD (if known) |
|-----------|-----------|--------------------|---------------------|----------------------|----------|---------------|---------------------|
| 37-6-0524 | B48       | Artefact - Scatter | 321915              | 6384270              | Koettig  | 1991          |                     |
| 37-6-0525 | B49       | Artefact - Scatter | 321825              | 6384259              | Koettig  | 1991          |                     |
| 37-6-0526 | B50       | Artefact - Scatter | 321740              | 6384128              | Koettig  | 1991          |                     |
| 37-6-0527 | B51       | Artefact - Scatter | 322425              | 6383240              | Koettig  | 1991          |                     |
| 37-6-0528 | B52       | Artefact - Scatter | 321557              | 6383916              | Koettig  | 1991          | 283                 |
| 37-6-0531 | B55       | Artefact - Scatter | 321572              | 6385075              | Koettig  | 1991          | 283                 |
| 37-6-0532 | B56       | Artefact - Scatter | 321359              | 6384773              | Koettig  | 1991          | 283                 |
| 37-6-0534 | B58       | Artefact - Scatter | 318318              | 6384703              | Koettig  | 1991          | 283                 |
| 37-6-0535 | B59       | Artefact - Scatter | 318080              | 6385088              | Koettig  | 1991          | 283                 |
| 37-6-0536 | B60       | Artefact - Scatter | 318345              | 6384890              | Koettig  | 1991          | 283                 |
| 37-6-0537 | B61       | Artefact - Scatter | 318395              | 6384800              | Koettig  | 1991          | 283                 |
| 37-6-0538 | B62       | Artefact - Scatter | 318410              | 6384739              | Koettig  | 1991          | 283                 |
| 37-6-0539 | B63       | Artefact - Scatter | 318576              | 6384646              | Koettig  | 1991          | 283                 |
| 37-6-0540 | B64       | Artefact - Scatter | 319049              | 6384574              | Koettig  | 1991          | 283                 |
| 37-6-0541 | B65       | Artefact - Scatter | 321479              | 6384247              | Koettig  | 1991          | 283                 |
| 37-6-0542 | B66       | Artefact - Scatter | 318585              | 6383480              | Koettig  | 1991          | 283                 |
| 37-6-0543 | B67       | Artefact - Scatter | 318657              | 6383375              | Koettig  | 1991          | 283                 |
| 37-6-0544 | B68       | Artefact - Scatter | 321216              | 6383971              | Koettig  | 1991          | 283                 |

| AHIMS     | Site name     | Site Type                | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder | Date recorded | AHIP/SSD (if known)                     |
|-----------|---------------|--------------------------|---------------------|----------------------|----------|---------------|-----------------------------------------|
| 37-6-0545 | B69           | Artefact - Scatter       | 322191              | 6384851              | Koettig  | 1991          | 283                                     |
| 37-6-0546 | B70           | Artefact - Scatter       | 322155              | 6384000              | Koettig  | 1991          | 283                                     |
| 37-6-0547 | B71           | Artefact - Scatter       | 318865              | 6382440              | Koettig  | 1991          | 1748                                    |
| 37-6-0548 | B72           | Artefact - Scatter       | 322395              | 6383900              | Koettig  | 1991          | 283                                     |
| 37-6-0584 | South Bulga 1 | Artefact - Scatter       | 324865              | 6382240              | Navin    | 1995          | 842 3085<br>1096791<br>SZ124            |
| 37-6-0585 | South Bulga 2 | Artefact - Scatter       | 325055              | 6381980              | Navin    | 1995          | 842 3085<br>1096791<br>1109043<br>SZ124 |
| 37-6-0650 | NINEMILECK    | Artefact - Scatter       | 324055              | 6381820              | Navin    | 1995          | 594 630                                 |
| 37-6-0757 | IF1BULGASOUTH | Artefact - Isolated Find | 324705              | 6382290              | Navin    | 1995          | 842 SZ124                               |
| 37-6-0804 | Broke Rd 1    | Artefact - Scatter       | 321850              | 6379850              | ERM      | 1998          | 1116702                                 |
| 37-6-0867 | BOC 2(A1)     | Artefact - Scatter       | 321553              | 6380606              | ERM      | 1999          | SZ306                                   |
| 37-6-0868 | BOC IF6(A1)   | Artefact - Isolated Find | 320835              | 6380385              | ERM      | 1999          | SZ306                                   |
| 37-6-0869 | BOC IF8(A1)   | Artefact - Isolated Find | 321167              | 6380890              | ERM      | 1999          |                                         |
| 37-6-0870 | BOC 5(A1)     | Artefact - Scatter       | 321804              | 6380903              | ERM      | 1999          | SZ306                                   |
| 37-6-0871 | BOC 8(A1)     | Artefact - Scatter       | 321050              | 6381015              | ERM      | 1999          |                                         |
| 37-6-0872 | BOC 9(A1)     | Artefact - Scatter       | 321175              | 6380920              | ERM      | 1999          |                                         |

| AHIMS     | Site name             | Site Type                | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder | Date recorded | AHIP/SSD (if known) |
|-----------|-----------------------|--------------------------|---------------------|----------------------|----------|---------------|---------------------|
| 37-6-0873 | BOC 10(A1)            | Artefact - Scatter       | 321751              | 6381001              | ERM      | 1999          | 1116702             |
| 37-6-0884 | BOC IF1(A1)           | Artefact - Scatter       | 321524              | 6379529              | ERM      | 1999          | SZ306               |
| 37-6-0885 | BOC IF 2(a1)          | Artefact - Isolated Find | 321193              | 6379617              | ERM      | 1999          | SZ306               |
| 37-6-0886 | BOC IF4(A1)           | Artefact - Isolated Find | 321420              | 6380428              | ERM      | 1999          | SZ306               |
| 37-6-0887 | BOC IF5(A2)           | Artefact - Isolated Find | 322450              | 6382558              | ERM      | 1999          |                     |
| 37-6-0888 | BOC IF 6(a1)          | Artefact - Isolated Find | 320835              | 6380385              | ERM      | 1999          | SZ306               |
| 37-6-0889 | BOC IF6(a2)           | Artefact - Isolated Find | 322500              | 6382754              | ERM      | 1999          |                     |
| 37-6-0890 | BOC IF7(a2)           | Artefact - Isolated Find | 322430              | 6381790              | ERM      | 1999          | 2429                |
| 37-6-0891 | BOC IF8(a2)           | Artefact - Isolated Find | 323046              | 6381855              | ERM      | 1999          | 2429                |
| 37-6-0892 | BOC 1(a1)             | Artefact - Scatter       | 322061              | 6380231              | ERM      | 1999          | 1116702             |
| 37-6-0893 | BOC 2(a1)             | Artefact - Scatter       | 321553              | 6380606              | ERM      | 1999          | 1116702             |
| 37-6-0894 | Bulga Open Cut Site 2 | Artefact - Scatter       | 322435              | 6382199              | ERM      | 1999          |                     |
| 37-6-0895 | BOC 3(a2)             | Artefact - Scatter       | 322710              | 6381897              | ERM      | 1999          | 2429                |
| 37-6-0896 | BOC 4(a2)             | Artefact - Scatter       | 322884              | 6382710              | ERM      | 1999          |                     |

| AHIMS     | Site name    | Site Type                | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder             | Date recorded | AHIP/SSD (if known) |
|-----------|--------------|--------------------------|---------------------|----------------------|----------------------|---------------|---------------------|
| 37-6-0897 | BOC 5(a1)    | Artefact - Scatter       | 321801              | 6380906              | ERM                  | 1999          | 1116702             |
| 37-6-0898 | BOC 6(a1)    | Artefact - Scatter       | 321496              | 6381030              | ERM                  | 1999          |                     |
| 37-6-0899 | BOC 7(a1)    | Artefact - Scatter       | 321230              | 6380981              | ERM                  | 1999          | SZ306               |
| 37-6-0900 | SBU1         | Artefact - Scatter       | 322269              | 6380689              | ERM                  | 2000          |                     |
| 37-6-0901 | SBU2         | Artefact - Isolated Find | 322273              | 6380661              | ERM                  | 2000          |                     |
| 37-6-0903 | SBU4         | Artefact - Isolated Find | 321905              | 6378990              | ERM                  | 2000          | 1116702             |
| 37-6-0904 | SBU5         | Artefact - Scatter       | 321705              | 6377990              | ERM (1998)/OzArk EHM | 2010          | 1116702             |
| 37-6-0906 | SBU8         | Artefact - Isolated Find | 322105              | 6379090              | ERM                  | 2000          | 1116702             |
| 37-6-0907 | SBU7         | Artefact - Scatter       | 322805              | 6378490              | ERM                  | 2000          | 1116702             |
| 37-6-0931 | SBU35        | Artefact - Scatter       | 322677              | 6379861              | ERM                  | 2000          | 1116702             |
| 37-6-0932 | BOC IF 7(A1) | Artefact - Isolated Find | 321045              | 6380060              | ERM                  | 1999          | SZ306               |
| 37-6-0949 | BMU19        | Artefact - Scatter       | 319410              | 6380195              | Umwelt               | 2001          | 1591 1621           |
| 37-6-0957 | BMU11        | Artefact - Isolated Find | 319175              | 6381250              | Umwelt               | 2001          | 1748                |
| 37-6-0958 | BMU10        | Artefact - Scatter       | 319553              | 6380516              | Umwelt               | 2001          | 1591 1621 1748      |

| AHIMS     | Site name | Site Type                         | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder | Date recorded | AHIP/SSD (if known) |
|-----------|-----------|-----------------------------------|---------------------|----------------------|----------|---------------|---------------------|
| 37-6-0959 | BMU9      | Artefact - Isolated Find          | 319667              | 6380261              | Umwelt   | 2001          | 1591 1621 1748      |
| 37-6-0960 | BMU8      | Artefact - Scatter                | 319770              | 6379988              | Umwelt   | 2001          | 1591 1621 1748      |
| 37-6-0961 | BMU7      | Artefact - Isolated Find          | 319620              | 6380553              | Umwelt   | 2001          | 1591 1621 1748      |
| 37-6-0962 | BMU6      | Artefact - Isolated Find          | 319874              | 6381056              | Umwelt   | 2001          | 1591 1748           |
| 37-6-0963 | BMU5      | Artefact - Isolated Find          | 319511              | 6382220              | Umwelt   | 2001          | 1748                |
| 37-6-0964 | BMU4      | Artefact - Scatter                | 319419              | 6382039              | Umwelt   | 2001          | 1748                |
| 37-6-0965 | BMU3      | Artefact - Scatter                | 318667              | 6382549              | Umwelt   | 2001          | 1748                |
| 37-6-0966 | BMU2      | Artefact - Scatter                | 319151              | 6382368              | Umwelt   | 2001          | 1748 2776           |
| 37-6-0967 | BMU1      | Grinding Groove and 2 Water Holes | 318976              | 6382454              | Umwelt   | 2001          | 2776                |
| 37-6-0978 | BP3       | Artefact - Scatter                | 319445              | 6381990              | Umwelt   | 2001          | 1748                |
| 37-6-1047 | BCO2      | Artefact - Scatter                | 320125              | 6379061              | Umwelt   | 2003          | 1116702             |
| 37-6-1394 | BCO1      | Artefact - Scatter and PAD        | 321000              | 6379586              | Umwelt   | 2003          | 1116702             |
| 37-6-1396 | BCO4      | Artefact - Isolated Find          | 320745              | 6378457              | Umwelt   | 2003          | 1116702             |

| AHIMS     | Site name | Site Type                | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder | Date recorded | AHIP/SSD (if known) |
|-----------|-----------|--------------------------|---------------------|----------------------|----------|---------------|---------------------|
| 37-6-1397 | BCO5      | Artefact - Isolated Find | 321614              | 6378595              | Umwelt   | 2003          | 1116702             |
| 37-6-1398 | BCO7      | Artefact - Isolated Find | 320836              | 6379455              | Umwelt   | 2003          | 1116702             |
| 37-6-1399 | BCO8      | Artefact - Isolated Find | 320642              | 6379772              | Umwelt   | 2003          | 1116702             |
| 37-6-1400 | BCO9      | Artefact - Isolated Find | 320893              | 6380094              | Umwelt   | 2003          | 1116702             |
| 37-6-1408 | BCO16     | Artefact - Scatter       | 322586              | 6383096              | Umwelt   | 2003          |                     |
| 37-6-1409 | BCO17     | Artefact - Scatter       | 322891              | 6383023              | Umwelt   | 2003          |                     |
| 37-6-1410 | BCO18     | Artefact - Scatter       | 323220              | 6382762              | Umwelt   | 2003          |                     |
| 37-6-1411 | BCO19     | Artefact - Scatter       | 323809              | 6382568              | Umwelt   | 2003          |                     |
| 37-6-1412 | BCO20     | Artefact - Scatter       | 323599              | 6382293              | Umwelt   | 2003          |                     |
| 37-6-1413 | BCO21     | Artefact - Isolated Find | 322839              | 6382937              | Umwelt   | 2003          |                     |
| 37-6-1414 | BCO22     | Artefact - Scatter       | 322899              | 6383171              | Umwelt   | 2003          |                     |
| 37-6-1416 | BCO24     | Artefact - Scatter       | 322655              | 6384286              | Umwelt   | 2003          |                     |
| 37-6-1417 | BCO25     | Artefact - Isolated Find | 322748              | 6384370              | Umwelt   | 2003          |                     |
| 37-6-1662 | BP L1     | Artefact - Isolated Find | 321355              | 6377990              | Insite   | 2005          | 2575<br>1116702     |

| AHIMS     | Site name | Site Type                | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder  | Date recorded | AHIP/SSD (if known) |
|-----------|-----------|--------------------------|---------------------|----------------------|-----------|---------------|---------------------|
| 37-6-1797 | XCN1      | Artefact - Isolated Find | 324270              | 6382454              | Umwelt    | 2007          | 2890                |
| 37-6-1840 | G2        | Artefact - Scatter       | 317810              | 6383579              | Heffernan | 1997          | 1091323             |
| 37-6-1841 | GIF-IF4   | Artefact - Isolated Find | 318205              | 6383540              | Heffernan | 1997          | 1091323             |
| 37-6-1842 | G3        | Artefact - Scatter       | 317910              | 6383579              | Heffernan | 1997          | 1091323             |
| 37-6-1843 | G4        | Artefact - Scatter       | 317985              | 6383554              | Heffernan | 1997          | 1091323             |
| 37-6-1844 | G9        | Artefact - Scatter       | 318285              | 6383789              | Heffernan | 1997          | 1091323             |
| 37-6-1846 | G-IF2     | Artefact - Isolated Find | 318560              | 6383179              | Heffernan | 1997          | 1091323             |
| 37-6-1847 | G-IF3     | Artefact - Isolated Find | 318335              | 6383499              | Heffernan | 1997          | 1091323             |
| 37-6-1928 | BDS27     | Artefact - Isolated Find | 324635              | 6382169              | Umwelt    | 2008          | 3085<br>1096791     |
| 37-6-1929 | BDS24     | Artefact - Isolated Find | 324605              | 6381963              | Umwelt    | 2008          | 3085<br>1096791     |
| 37-6-1930 | BDS18     | Artefact - Scatter       | 325032              | 6382315              | Umwelt    | 2008          | 3085<br>1096791     |
| 37-6-1932 | BDS1      | Artefact - Scatter       | 324046              | 6381795              | Umwelt    | 2008          |                     |
| 37-6-1933 | BDS2      | Artefact - Isolated Find | 323669              | 6381668              | Umwelt    | 2008          |                     |
| 37-6-1934 | BDS3      | Artefact - Scatter       | 323821              | 6382272              | Umwelt    | 2008          |                     |

| AHIMS     | Site name | Site Type                | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder | Date recorded | AHIP/SSD (if known) |
|-----------|-----------|--------------------------|---------------------|----------------------|----------|---------------|---------------------|
| 37-6-1935 | BDS4      | Artefact - Scatter       | 324104              | 6381573              | Umwelt   | 2008          |                     |
| 37-6-1936 | BDS5      | Artefact - Isolated Find | 324133              | 6381864              | Umwelt   | 2008          |                     |
| 37-6-1968 | BDS26     | Artefact - Scatter       | 325491              | 6382453              | Umwelt   | 2008          | 3085 1096791        |
| 37-6-1969 | BDS6      | Artefact - Scatter       | 324093              | 6382009              | Umwelt   | 2008          |                     |
| 37-6-1970 | BDS7      | Artefact - Isolated Find | 324274              | 6382191              | Umwelt   | 2008          |                     |
| 37-6-1971 | BDS8      | Artefact - Isolated Find | 324422              | 6382076              | Umwelt   | 2008          |                     |
| 37-6-1972 | BDS9      | Artefact - Isolated Find | 324212              | 6382079              | Umwelt   | 2008          |                     |
| 37-6-1973 | BDS10     | Artefact - Isolated Find | 324246              | 6382041              | Umwelt   | 2008          |                     |
| 37-6-1974 | BDS11     | Artefact - Isolated Find | 324104              | 6382162              | Umwelt   | 2008          |                     |
| 37-6-1975 | BDS12     | Artefact - Scatter       | 324162              | 6382013              | Umwelt   | 2008          |                     |
| 37-6-1976 | BDS13     | Artefact - Isolated Find | 323970              | 6381297              | Umwelt   | 2008          |                     |
| 37-6-1977 | BDS14     | Artefact - Scatter       | 324000              | 6381740              | Umwelt   | 2008          |                     |
| 37-6-1978 | BDS25     | Artefact - Isolated Find | 324395              | 6382052              | Umwelt   | 2008          | 3085 1096791        |

| AHIMS     | Site name | Site Type                | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder  | Date recorded | AHIP/SSD (if known) |
|-----------|-----------|--------------------------|---------------------|----------------------|-----------|---------------|---------------------|
| 37-6-1979 | BDS15     | Artefact - Scatter       | 325292              | 6382087              | Umwelt    | 2008          | 1109043             |
| 37-6-1980 | BDS16     | Artefact - Scatter       | 325313              | 6381873              | Umwelt    | 2008          | 1109043             |
| 37-6-1981 | BDS17     | Artefact - Scatter       | 325430              | 6382181              | Umwelt    | 2008          | 1109043             |
| 37-6-1982 | BDS19     | Artefact - Scatter       | 325169              | 6382392              | Umwelt    | 2008          | 1109043             |
| 37-6-1983 | BDS20     | Artefact - Scatter       | 325248              | 6382343              | Umwelt    | 2008          | 1109043             |
| 37-6-1984 | BDS21     | Artefact - Scatter       | 325227              | 6381804              | Umwelt    | 2008          | 1109043             |
| 37-6-1985 | BDS22     | Artefact - Scatter       | 324807              | 6381870              | Umwelt    | 2008          | 1109043             |
| 37-6-1986 | BDS23     | Artefact - Isolated Find | 324792              | 6381922              | Umwelt    | 2008          | 1109043             |
| 37-6-2058 | KR53      | Artefact - Scatter       | 323729.2343         | 6388358.154          | OzArk EHM | 2016          | C0002083            |
| 37-6-2828 | BOP IF-1  | Artefact - Isolated Find | 324549              | 6385974              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2829 | BOP IF-2  | Artefact - Isolated Find | 324196              | 6385851              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2830 | BOP IF-3  | Artefact - Isolated Find | 324212              | 6384532              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2831 | BOP IF-4  | Artefact - Isolated Find | 322719              | 6382408              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2833 | BOP IF-6  | Artefact - Isolated Find | 324532              | 6386973              | OzArk EHM | 2012          | SSD-4960            |

| AHIMS     | Site name                 | Site Type                | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder  | Date recorded | AHIP/SSD (if known) |
|-----------|---------------------------|--------------------------|---------------------|----------------------|-----------|---------------|---------------------|
| 37-6-2834 | BOP IF-7                  | Artefact - Isolated Find | 320755              | 6380483              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2835 | BOP OS-1                  | Open Site                | 318484              | 6384928              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2836 | BOP OS-2                  | Open Site                | 325139              | 6384377              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2838 | BOP OS-4                  | Open Site                | 325686              | 6383826              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2839 | BOP OS-5                  | Open Site                | 324816              | 6383574              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2841 | BOP OS-7                  | Open Site                | 322990              | 6382108              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2843 | BOP OS-9                  | Open Site                | 322559              | 6379974              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2845 | BOP SC-1 with PAD         | Site Complex             | 324578              | 6386588              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2846 | BOP SC-2 (north)          | Site Complex             | 323336              | 6385520              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2847 | BOP SC-3                  | Site Complex             | 325528              | 6383532              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2848 | BOP SC-4                  | Site Complex             | 323392              | 6385846              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2851 | BOP SC-7 with PAD         | Site Complex             | 323929              | 6382086              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2852 | BOP SC-8                  | Site Complex             | 322486.784          | 6384958.901          | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2853 | BOP SC-9 with PAD (north) | Site Complex             | 321910              | 6384191              | OzArk EHM | 2012          | SSD-4960            |
| 37-6-2853 | BOP SC-9 with PAD (south) | Site Complex             | 322398.9509         | 6383647.016          | OzArk EHM | 2012          | SSD-4960            |

| AHIMS     | Site name                          | Site Type                | GDA Zone 56 Easting | GDA Zone 56 Northing | Recorder        | Date recorded | AHIP/SSD (if known)    |
|-----------|------------------------------------|--------------------------|---------------------|----------------------|-----------------|---------------|------------------------|
| 37-6-2854 | BOP SC-10 with PAD                 | Site Complex             | 322731              | 6382599              | OzArk EHM       | 2012          | SSD-4960               |
| 37-6-2856 | BOP SC-12                          | Site Complex             | 318806              | 6382534              | OzArk EHM       | 2012          | SSD-4960               |
| 37-6-2858 | BOP SC-14                          | Site Complex             | 319801              | 6380066              | OzArk EHM       | 2012          | C0000331               |
| 37-6-2921 | BN IF-2                            | Artefact - Scatter       | 319524              | 6380226              | OzArk EHM       | 2015          | C0000331               |
| 37-6-2921 | Blakefield North Isolated Find 3   | Artefact - Isolated Find | 319367              | 6380130              | AECOM           | 2013          | C0000331               |
| 37-6-2921 | BN IF-3                            | Artefact - Scatter       | 319366              | 6380132              | OzArk EHM       | 2014          | C0000331               |
| 37-6-2922 | Blakefield North Isolated Find 2   | Artefact - Isolated Find | 318818.6181         | 6381138.289          | OzArk EHM/AECOM | 2015          | C0000331               |
| 37-6-3576 | LC OS-1 (Loders Creek Open Site 1) | Artefact - Scatter       | 323483              | 6387260              | OzArk EHM       | 2016          | C0002083               |
| 37-6-3661 | BOP IF-8                           | Artefact - Isolated Find | 325031              | 6385068              | OzArk EHM       | 2016          | SSD-4960               |
| 37-6-3880 | Bulga IF3                          | Artefact - Isolated Find | 323713              | 6381510              | OzArk EHM       | 2018          | See <b>Table 12-12</b> |
| 37-6-3881 | Bulga IF4                          | Artefact - Isolated Find | 323828              | 6381332              | OzArk EHM       | 2018          | See <b>Table 12-12</b> |

## Appendix D - Registered Aboriginal Parties

|                                                        |                                            |                                                                             |
|--------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------|
| (Deceased)                                             | AGA Services                               | Alera French Trading                                                        |
| Amanda Hickey Cultural Services                        | Bawurra Consultants                        | Cacatua Culture Consultants                                                 |
| Carrawonga Consultants                                 | Crimson-Rosie                              | Culturally Aware                                                            |
| Deslee Talbott Consultant                              | DFTV Enterprises                           | Didge Ngunawal                                                              |
| (Deceased)                                             | DRM Cultural Management                    | Giwiirr Consultants                                                         |
| Gomery Cultural Consultants                            | Huckada Dreamin Heritage Group             | Hunter Traditional Owners                                                   |
| Hunter Valley Aboriginal Corporation                   | Hunter Valley Cultural Surveying           | Jarban and Mugrebea                                                         |
| JLC Cultural Services                                  | Jumbunna Traffic Management Group Pty Ltd  | Ka-u-ma Pondee Inc.                                                         |
| Kayaway Eco Cultural and Heritage Services             | Kevin and Laurell Taggart                  | Lower Hunter Aboriginal Incorporated                                        |
| Lower Hunter Wonnarua Council Inc                      | Maria Stocks                               | Mingga Consultants                                                          |
| Murra Bidgee Mullangari Aboriginal Corporation         | Myland Cultural & Heritage Group           | Ngarramang- Kuri Aboriginal Cultural & Heritage Group                       |
| Robert Lester                                          | Smith Dhagaans Cultural Group              | Tocomwall Pty Ltd                                                           |
| Ungooroo Aboriginal Corporation                        | Ungooroo Cultural & Community Services Inc | Upper Hunter Wonnarua Council Inc; Junburra Aboriginal Consultancy Services |
| Upper Hunter Wonnaura Council; Wonnarua Elders Council | Waabi Gabinya Cultural Consultancy         | Wallangan Cultural Services                                                 |
| Wanaruah Local Aboriginal Land Council                 | Warragil Cultural Services                 | Warren Taggart                                                              |
| Wattaka Wonnarua Cultural Consultants Services         | Wonn 1 Contracting                         | Wonnarua Cultural Heritage                                                  |
| Wonnarua Culture & Heritage                            | Wonnarua Nation Aboriginal Corporation     | Wunda Cultural Consultants                                                  |
| Wurrumay Consultants                                   | Yinarr Culture Services                    |                                                                             |

## Appendix E - Past Archaeological Investigations

### E.1 Assessment Reports

BCM holds a number of reports of archaeological assessments that have taken place in the area now occupied by the BCC. These date back to 1981 and are shown in **Table 12-14**.

**Table 12-14 – List of archaeological reports held by BCM**

| Report saved as                      | Report reference                                                                                                                                                                                                                                     |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 311_Dyall 1981                       | Dyall, L.K. 1981a. Saxonvale Coal Mining Authorization: Report on Aboriginal Relics. Report to BHP Pty Ltd.                                                                                                                                          |
| 1453_Dyall_LodersCk                  | Dyall, L.K. 1981b. Aboriginal Axe Sharpening Grooves Located Outside BHP's Saxonvale Mine Property. Report to BHP Pty Ltd.                                                                                                                           |
| 436_Hughes&Silcox 1983               | Hughes, P.J. and R. Silcox. 1983. An Archaeological Survey of the Mount Thorley Project Authorisation Area, Hunter Valley, NSW. A report to R.W. Miller and Company Pty Ltd.                                                                         |
| 2121_Koettig 1991                    | Survey and Test Excavations Bulga Lease Authorisation 219. Report to Saxonvale Coal Pty Ltd.                                                                                                                                                         |
| 2915_Koettig 1994                    | Bulga Lease Authorisation 219 Salvage Excavations: Volume 1: Overview of Results. Report to Saxonvale Coal Pty Ltd.                                                                                                                                  |
| 2938_Brayshaw&Haglund 1994           | Brayshaw, H. and L. Haglund. 1994. Archaeological Survey for Aboriginal Sites Mt Thorley Mine, Hunter Valley, NSW. Report to Mt Thorley Co-Venture RW Miller and Company Pty Ltd.                                                                    |
| 4742_Perry 2000                      | Perry, V. 2000. Aboriginal Cultural Heritage Assessment for the Broke Pipeline.                                                                                                                                                                      |
| 98044_Umwelt 2001                    | Umwelt (Australia) Pty Limited. 2001. Aboriginal Archaeological Assessment – Beltana No. 1 Project. Appendix 7 of Beltana No. 1 Underground Coal Mine Environmental Impact Statement. Report to Bulga Coal Management Pty Ltd.                       |
| 99012_McCardle04                     | McCardle Cultural Heritage. 2004. Gas Well Sites HB1 & HB2 Archaeological Test Excavation. Report to Sydney Gas.                                                                                                                                     |
| 100135_AHIP#1591_salvage             | Umwelt (Australia) Pty Limited. 2005. Salvage of Aboriginal Sites Within Beltana No.1 Mine, near Broke, NSW. Report to Bulga Coal Management Pty Ltd.                                                                                                |
| 100638&100680_AHIP#1748_salvage      | Umwelt (Australia) Pty Limited. 2007a. Salvage of Aboriginal Sites within Beltana No. 1 Mine, Broke, NSW under DEC Section 90 Consent 1748. Report to Bulga Coal Management Pty Ltd.                                                                 |
| 1006048&100679_AHIP#2776_application | Umwelt (Australia) Pty Limited. 2010. Additional Information to Accompany a Section 90 Consent Application for Sites BMU1 and BMU2 locus 'o', Beltana No. 1 Underground Mine, south-west of Singleton, NSW. Report to Bulga Coal Management Pty Ltd. |

| Report saved as                      | Report reference                                                                                                                                                                                                                                                |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 101207_AHIP#3066_3212_initial_report | Umwelt (Australia) Pty Limited. 2008b. Aboriginal Archaeological Assessment for Proposed Modification of Operations, Bulga Coal Surface Operations, Bulga, NSW. Report to Bulga Coal Management Pty Ltd.                                                        |
| AHIP#1748_application                | Umwelt (Australia) Pty Limited. 2003. Attachment B Research Design and Methodology for the Salvage of Aboriginal Sites within Beltana No. 1 Underground Coal Mine, Hunter Valley, NSW. Report to Bulga Coal Management Pty Ltd.                                 |
| AHIP#2429_salvage                    | Umwelt (Australia) Pty Limited. 2008a. Report on Section 90 #2429 Collection of Surface Artefact from the Bulga Borrow Pit Area, Bulga Open Cut Mine, near Broke, NSW. Report to Bulga Coal Management Pty Ltd.                                                 |
| AHIP#2776_DEWR_response              | Umwelt (Australia) Pty Limited. 2007b. Response to the Department of Environment and Water Resources regarding s.9 Application for Protection of BMU1 under Aboriginal and Torres Strait Islander Heritage Protection Act 1984. Report to Xstrata Coal Pty Ltd. |
| AHIP#2776_salvage                    | Umwelt (Australia) Pty Limited. 2010a. Salvage, Mitigation and Remediation Activities Conducted under AHIP#2766, BMU1 and BMU2 locus 'o', Beltana No.1 Mine, Broke, NSW. Report to Beltana Highwall Mining Pty Ltd.                                             |
| AHIP_2890_application                | Umwelt (Australia) Pty Limited. 2007c. Archaeological Assessment of the Proposed Bulga Office Extension Area, near Broke, New South Wales. Report to Xstrata Coal New South Wales Pty Ltd.                                                                      |
| AHIP_2890_salvage                    | Umwelt (Australia) Pty Limited. 2010b. Report on Works Conducted under AHIP#2890. Report to Xstrata Coal New South Wales Pty Ltd.                                                                                                                               |
| AHIP_2998_application                | Umwelt (Australia) Pty Limited. 2008b. Additional Information to Accompany a Section 90 Aboriginal Heritage Impact Permit for Sites at Beltana No.1 Underground Mine, South-west of Singleton. Report to Beltana Highwall Mining Pty Ltd.                       |
| AHIP_3066_variation_application      | Umwelt (Australia) Pty Limited. 2009b. AHIP application for fire trail area, Bulga. Report to Bulga Coal Management Pty Ltd.                                                                                                                                    |
| AHIP#3212_application                | Umwelt (Australia) Pty Limited. 2009a. Aboriginal Archaeological Assessment for a Proposed CHPP Dam, Bulga Coal Surface Operations, Bulga, NSW. Report to Bulga Coal Management Pty Ltd.                                                                        |
| AHIP#3301_application                | Umwelt (Australia) Pty Limited. 2010c. Additional Information to Accompany an Aboriginal Heritage Impact Permit for Sites, Blakefield South Longwall 1 to 6, Beltana No.1 Underground Mine. Report to Beltana Highwall Mining Pty Ltd.                          |
| BCM_Arch Mang Plan 2001_ERM          | Environmental Resources Management (ERM) Pty Ltd. 2001. Archaeology and Cultural Management Plan. Report to Bulga Coal Management Pty Ltd.                                                                                                                      |

| Report saved as        | Report reference                                                                                                                                                                                                                                         |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ERM 1999               | Environmental Resources Management (ERM) Pty Ltd. 1999. Bulga Open Cut Mine Archaeological Assessment. Appendix I of Bulga Open Cut Continued Mining Environmental Impact Statement. Report to Bulga Coal Management Pty Ltd.                            |
| ERM 2000               | Environmental Resources Management (ERM) Pty Ltd. 2000. South Bulga Colliery, South-East Extension Archaeological Assessment. Appendix H of South Bulga Colliery South-East Extension Environmental Impact Statement. Report to South Bulga Colliery.    |
| Mitchell McCotter 1990 | Mitchell McCotter. 1990. Bulga Coal Project Environmental Impact Statement Detailed Studies Section 5. Report to Oakbridge Limited, the Newcastle Wallsend Coal Company Pty Limited and Saxonvale Coal Pty Limited.                                      |
| Umwelt_2003            | Umwelt (Australia) Pty Limited. 2003. Bulga Coal Continued Underground Operations: Aboriginal Heritage Assessment. Appendix 13 of Bulga Coal Continued Underground Operations Environmental Impact Statement. Report to Bulga Coal Management Pty Ltd.   |
| Umwelt 2007            | Umwelt (Australia) Pty Limited. 2007. Statement of Environmental Effects for the Bulga Underground Southern Mining Area Modification – Section 96(2) Application to Modify Consent DA 376-8-2003. Report to Bulga Coal Complex.                          |
| OzArk 2012             | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Heritage Assessment. Proposed Modification to DA 376-8-2003 for the Blakefield North Underground Mine Project. Report to GSS Environmental on behalf of Bulga Coal Management Pty Ltd. |
| OzArk 2013             | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Archaeological Values Assessment. Bulga Optimisation Project. Report to Bulga Coal Management Pty Ltd.                                                                                 |
| OzArk 2014             | OzArk Environmental & Heritage Management Pty Limited. Blakefield South Archaeological Salvage AHIMS Sites #37-6-0906 and #37-6-0907 (AHIP #1116702). Letter report for Trescinda French (BCM).                                                          |
| OzArk 2015a            | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Heritage Due Diligence Assessment. Bulga Underground Goaf Gas Pipeline. Report for Bulga Coal Management.                                                                              |
| OzArk 2015b            | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Archaeological Assessment. Wollombi Brook Conservation Agreement Area. Report for Bulga Coal Management.                                                                               |
| OzArk 2015c            | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Due Diligence Archaeological Assessment. Bulga Underground Gas Casing Extraction. Report for Bulga Coal Management.                                                                    |

| Report saved as | Report reference                                                                                                                                                                                                                                    |
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| OzArk 2015d     | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Heritage Constraints Assessment. Bulga Underground Gas Drainage ETL. Report for Bulga Coal Management.                                                                            |
| OzArk 2015e     | OzArk Environmental & Heritage Management Pty Limited. Archaeological Assessment. Loders Creek Grinding Grooves Relocation Area. Report for Bulga Coal Management.                                                                                  |
| OzArk 2016a     | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Cultural Heritage Assessment Report. Proposed 66kV Power Line. Mt Thorley Substation to Bulga Coal Complex. Report for Umwelt (Australia) Pty Ltd.                                |
| OzArk 2016b     | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Cultural Heritage Assessment. Modification to the Bulga Optimisation Project. Eastern Emplacement Area: Disturbance Boundary Modification. Report for Umwelt (Australia) Pty Ltd. |
| OzArk 2016c     | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Heritage Impact Permit No. 1116702. Final archaeological report of impacts arising from the extraction of coal from BSLW1–5. Report for Bulga Coal Management.                    |
| OzArk 2016d     | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Cultural Heritage Salvage Report. AHIP C0002083 (AHIMS Permit Id: 4011). Report for Bulga Coal Management.                                                                        |
| OzArk 2017a     | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Cultural Heritage Salvage Report. Bulga Optimisation Project. Report for Bulga Coal Management.                                                                                   |
| OzArk 2017b     | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Cultural Heritage: Constraints and Opportunities Report. Bulga Extension Project. Report for Bulga Coal Management.                                                               |
| OzArk 2018a     | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Due Diligence Archaeological Assessment. Bulga Coal Offset Tree Planting. Hunter Region, NSW. Report for Bulga Coal Management.                                                   |
| OzArk 2018b     | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Due Diligence Archaeological Assessment. Proposed Access Track to Lot 2 DP1207737. Hunter Region, NSW. Report for Bulga Coal Management.                                          |
| OzArk 2018c     | OzArk Environmental & Heritage Management Pty Limited. Harm Report. Development Consent SSD-4960 Modification 1. Eastern Emplacement Area. Report for Bulga Coal Management.                                                                        |
| OzArk 2018d     | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Due Diligence Archaeological Assessment. Broke Rd Biodiversity Offset Area Tree Planting. Hunter Region, NSW. Report for Bulga Coal Management.                                   |

| Report saved as | Report reference                                                                                                                                                                                                   |
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| OzArk 2019a     | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Due Diligence Archaeological Assessment. Keeping Place and Education Centre. Wollombi Brook Conservation Area. Report for Bulga Coal Management. |
| OzArk 2019b     | OzArk Environmental & Heritage Management Pty Limited. Aboriginal Cultural Heritage Assessment Report. Bulga Coal Complex Modifications. Bulga Coal Complex. Report for Bulga Coal Management.                     |
| OzArk 2019c     | OzArk Environment & Heritage. Aboriginal Heritage Due Diligence Assessment. Proposed Dewatering Pipeline Route, Wollombi Brook to Charlton Road. Report for Bulga Coal Management.                                 |
| OzArk 2019d     | OzArk Environment & Heritage. Aboriginal Due Diligence Assessment Report. Bulga Underground Subsidence Monitoring Peg Removal. Bulga Coal Complex. Report for Bulga Coal Management.                               |
| OzArk 2020      | OzArk Environment & Heritage. Aboriginal Due Diligence Assessment Report. Seven Piezometer Locations. Bulga Open Cut. Report for Bulga Coal Management.                                                            |

## E.2 Past archaeological investigations

Information on past archaeological assessments, test excavation and excavations is presented in **Table 12-15** to **Table 12-18**.

**Table 12-15 – Previous assessments completed at/for Bulga Underground**

| Name of Study                                                                                 | Author   | Year | Summary of Content                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Saxonvale coalmining authorization. Report on Aboriginal Relics                               | Dyall    | 1981 | Survey of the then proposed Saxonvale Coal Mine. Area of approximately 35km <sup>2</sup> surveyed including all watercourses, portions of hillslopes, ridges, southern escarpment and 'open country'. Survey identified eight stone artefact scatters, three isolated finds and one set of grinding grooves (37-6-0149).                                                                                          |
| Reconnaissance survey for Archaeological sites, Authorisation 219, Bulga, Hunter Valley, NSW. | Brayshaw | 1988 | Reconnaissance survey for the then Bulga Coal Project EIS involving only selected portions of the project area. Seven sites (AHIMS# 37-6-423 to 37-6-429) identified, consisting of three artefact scatters along Loders Creek, one artefact scatter on Nine Mile Creek, one artefact scatter on a tributary of Wollombi Brook, five isolated finds away from the creeks and one scarred tree near Charlton Road. |
| Bulga Mine EIS Additional Archaeological Survey for Aboriginal Sites                          | Brayshaw | 1991 | Additional survey to Brayshaw (1988) conducted on main channel of Loders Creek and associated tributary. Resulted in the identification of six additional artefact scatters and revisit to Loders Creek grinding grooves (AHIMS #37-6-0148).                                                                                                                                                                      |

| Name of Study                                                                                                                                                          | Author             | Year | Summary of Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Survey and Test Excavations Bulga Lease Authorisation 219                                                                                                              | Koettig            | 1991 | Additional survey to Brayshaw (1988, 1991) of the extent of Loders Creek and Nine Mile Creek within Lease Authorisation 219. Intensive survey of two areas of approximately 240ha and sample survey of approximately 125ha. Recorded 59 additional sites, of which only 11 of the 74 sites within Koettig's survey area (including previously recorded sites) were more than 50m from creeks. Identified several conservation options for sections of Loders Creek.                               |
| Comparative Assessment of Existing and Alternate Archaeological Conservation Zones, Bulga Mining Lease                                                                 | Heffernan & Klaver | 1997 | Comparative assessment of four existing conservation zones along Loders Creek (CZ1-4) with five potential alternative conservation zones. Potential conservation zones assessed consisted of 15ha on Yellow Rock Creek, 50ha within 'The Groves' property and three areas totalling 21.5ha on Nine Mile Creek. Four (4) new sites identified within the existing conservation zones and 29 artefact scatters, four isolated finds and three scarred trees within the proposed conservation zones. |
| South Bulga Colliery, South-East Extension Archaeological Assessment. Appendix H of South Bulga Colliery South-East Extension Environmental Impact Statement           | ERM                | 2000 | Assessment of proposed south-east extension of South Bulga Colliery. Vehicle/pedestrian survey of 700ha of lower elevation areas bordering the Vere and pedestrian survey of the Vere and adjoining slopes. Identified 16 artefact scatters, 13 isolated artefacts and two rockshelters (37-6-0925 and 37-6-0926).                                                                                                                                                                                |
| Aboriginal Archaeological Assessment-Beltana No.1 Underground Coal Mine. Appendix 7 of Beltana No. 1 Underground Coal Mine Environmental Impact Statement.             | Umwelt             | 2001 | Archaeological assessment of Longwalls 1-8 of Whybrow Seam, comprising an area of approximately 600 hectares. Survey undertaken as 12 survey transects covering approximately 340 hectares. Identified thirteen (13) artefact scatters, seven (7) isolated finds and one (1) grinding groove complex (37-6-0967).                                                                                                                                                                                 |
| Bulga Coal Continued Underground Operations: Aboriginal Heritage Assessment. Appendix 13 of Bulga Coal Continued Underground Operations Environmental Impact Statement | Umwelt             | 2003 | Archaeological assessment of approximately 3010ha, of which five areas were targeted for survey. Approximately 320ha subject to pedestrian survey within which 29 previously unrecorded (or partially unrecorded) sites were identified. These consisted of ten isolated artefacts and 19 artefact scatters.                                                                                                                                                                                      |
| Proposed Modification to DA 376-8-2003 for the Blakefield North Underground Mine Project                                                                               | OzArk              | 2012 | The assessment that had survey and excavation components and no new Aboriginal sites were recorded. The assessment allowed a better understanding of the spatial extent of several previously recorded sites and enabled the formulation of appropriate management recommendations for the mitigation of impact to Aboriginal cultural heritage places and/or objects.                                                                                                                            |
| Aboriginal Heritage Due Diligence Assessment. Bulga Underground Goaf Gas Pipeline.                                                                                     | OzArk              | 2015 | Assessment of a linear route for a proposed gas drainage line in the vicinity of the Vere and Monkey Place Creek. Assessment recorded two sets of grinding                                                                                                                                                                                                                                                                                                                                        |

| Name of Study                                                                  | Author | Year | Summary of Content                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------|--------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                |        |      | grooves at the top of the escarpment overlooking Monkey Place Creek.                                                                                                                                                                                                |
| Aboriginal Heritage Constraints Assessment. Bulga Underground Gas Drainage ETL | OzArk  | 2015 | Assessment of a proposed easement for an electricity transmission line (ETL) connecting to gas drainage infrastructure within the Bulga Underground Operations. Four isolated artefacts were recorded at the southern termination of the ETL: BUO IF-1 to BUO IF-4. |

**Table 12-16 – Previous assessment completed at/for Bulga Open Cut**

| Name of Study                                                                                                                                                                                                                                    | Author        | Year  | Summary of Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| An Archaeological Survey for the South Bulga Underground Coal Mine, NSW                                                                                                                                                                          | Navin Officer | 1992  | Assessment conducted for proposed infrastructure associated with an existing coal washery (including a proposed storage area, a service road, a ventilation shaft, possible stockpile area (Portion 56) and the proposed route for a coal conveyor). The proposed storage area, coal conveyor and ventilation shaft were surveyed in detail, with sample survey conducted in Portion 56. Two artefact scatters and three isolated finds were identified on the upper reaches of Nine Mile Creek. |
| Archaeological Survey of a Coal Conveyor Route, South Bulga Colliery, NSW                                                                                                                                                                        | Navin Officer | 1994  | Additional survey of a revised route for the coal conveyor originally assessed by Navin Officer (1994). One artefact scatter identified.                                                                                                                                                                                                                                                                                                                                                         |
| Archaeological Survey Overburden Disposal Area Bulga Coal Mine, NSW                                                                                                                                                                              | Navin Officer | 1995a | Assessment of proposed overburden disposal area extending over approximately 12ha. Pedestrian survey of approximately six hectares comprised of all creek lines and then opportunistic inspection of other areas of visibility. Identified four previously recorded sites and four new sites.                                                                                                                                                                                                    |
| Bulga Open Cut Mine Archaeological Assessment. Appendix 1 of Bulga Open Cut Continued Mining Environmental Impact Statement                                                                                                                      | ERM           | 1999  | Assessment of two overburden emplacement areas (referred to as Area 1 and Area 2) in the central portion of the Bulga Coal Complex. Survey conducted as series of transects covering 135.45ha in Area One and 55ha within Area Two. Identified seven isolated artefacts and five artefact scatters within Area 1 and five isolated artefacts and two artefact scatters (one with an extensive area of PAD) in Area 2.                                                                            |
| Aboriginal Archaeological Assessment for Proposed Modification of Operations, Bulga Coal Surface Operations, Bulga, NSW. Appendix 2 of Environmental Assessment Modification of Bulga Coal Surface Operations (DA41-03-99), CHPP Dam, Bulga, NSW | Umwelt        | 2008  | Assessment of a proposed dam adjacent to the existing coal handling and preparation plant. Pedestrian survey of approximately 16 hectares. Two previously recorded sites (37-6-0584 and 37-6-0585) and 27 new sites (37-6-1928 to 37-6-1936 and 37-6-1968 to 37-6-1986) were identified.                                                                                                                                                                                                         |

| Name of Study                                                                                                                                         | Author | Year | Summary of Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aboriginal Archaeological Assessment for a Proposed CHPP Dam, Bulga Coal Surface Operations                                                           | Umwelt | 2009 | Additional assessment of potential impacts to sites identified by Umwelt (2008) as a result of expansion of approved coal handling and preparation plant dam. No additional survey undertaken.                                                                                                                                                                                                                                                                                                               |
| Aboriginal Heritage Impact Assessment, Bulga, NSW                                                                                                     | RPS    | 2010 | Assessment of proposed rail refuelling facility adjacent to existing rail loop. Two artefact scatters (37-6-2272 and 37-6-2273) were identified.                                                                                                                                                                                                                                                                                                                                                             |
| Aboriginal Archaeological Values Assessment. Bulga Optimisation Project.                                                                              | OzArk  | 2013 | An extensive survey that covered 4,873ha although 40% of this area has been modified by mining activity to such an extent that natural landforms no longer exist. This assessment recorded 14 site complexes (defined as an agglomeration of virtually continuous artefact scatters; 37-6- 2845 to 37-6-2858), 10 discrete artefact scatters (37-6-2835 to 37-6-2844) and seven isolated finds (37-6- 2828 to 37-6-2834). The site complexes defined by OzArk include a number of previously recorded sites. |
| Aboriginal Archaeological Assessment. Wollombi Brook Conservation Agreement Area.                                                                     | OzArk  | 2015 | Full assessment of the WBCA by OzArk archaeologists and RAPs. Assessment undertaken to inform the WBCAA Plan of Management.                                                                                                                                                                                                                                                                                                                                                                                  |
| Archaeological Assessment. Loders Creek Grinding Grooves Relocation Area.                                                                             | OzArk  | 2015 | Assessment with the assistance of RAPs of the LCGGRA to inform the installation of the Loders Creek Grinding Grooves and the Plan of Management.                                                                                                                                                                                                                                                                                                                                                             |
| Aboriginal Cultural Heritage Assessment Report. Proposed 66kV Power Line. Mt Thorley Substation to Bulga Coal Complex.                                | OzArk  | 2015 | Assessment of the linear impacts arising from the construction of a power line from the Mt Thorley substation to the BCC. Assessment recorded two artefact scatters, one of which was salvaged under AHIP C0002083.                                                                                                                                                                                                                                                                                          |
| Aboriginal Cultural Heritage Assessment. Modification to the Bulga Optimisation Project. Eastern Emplacement Area: Disturbance Boundary Modification. | OzArk  | 2016 | Assessment with RAPs of the proposed impact area for the proposed Eastern Emplacement Modification. Assessment reassessed the condition of two previously recorded sites, as well as recording a new site; an isolated find.                                                                                                                                                                                                                                                                                 |
| Aboriginal Cultural Heritage Assessment. Bulga Coal Complex Modifications.                                                                            | OzArk  | 2019 | Assessment with RAPs of the proposed impact area for the proposed BOP (SSD-4960) Modification 3 and BUO (DA 376-8-2003) Modification 7. Assessment reassessed the condition of four previously recorded sites, as well as recording two new sites; both isolated finds.                                                                                                                                                                                                                                      |
| Aboriginal Due Diligence Archaeological Assessment. Keeping Place and Education                                                                       | OzArk  | 2019 | Assessment with Aboriginal community for an upgraded road to the Wollombi Brook Keeping and Teaching Place, as well as the site of the Keeping and Teaching Place itself. No additional sites recorded.                                                                                                                                                                                                                                                                                                      |

| Name of Study                                                                                                             | Author | Year | Summary of Content                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------|--------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Centre. Wollombi Brook Conservation Area.                                                                                 |        |      |                                                                                                                                                                 |
| Aboriginal Heritage Due Diligence Assessment. Proposed Dewatering Pipeline Route, Wollombi Brook to Charlton Road.        | OzArk  | 2019 | Assessment of a proposed pipeline route across cleared paddocks from Wollombi Brook to Charlton Road. No additional sites recorded.                             |
| Aboriginal Due Diligence Assessment Report. Seven Piezometer Locations. Bulga Open Cut. Report for Bulga Coal Management. | OzArk  | 2020 | Assessment with Aboriginal community for the proposed installation of piezometers in and near the Wollombi Brook Keeping and Teaching Place. No sites recorded. |

**Table 12-17 – Previous salvage works/test excavations completed at/for the Bulga Underground**

| Name of Study                                                                                                                    | Author | Year | Summary of Content                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------|--------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Salvage Excavation and Surface Collections at Nine Mile Creek, Saxonvale Coal Mine, Hunter Valley.                               | Stern  | 1981 | Sub-surface salvage and assessment of site AHIMS #37-6-0415 on a tributary of Nine Mile to be impacted by the construction of a rail loop servicing the Bulga Complex Coal Handling and Preparation Plant. Systematic surface collection of 289 artefacts and excavation of two test pits resulting in the recovery of a further 53 artefacts.                                                                                                                   |
| Salvage of Aboriginal Sites within Beltana No.1 Mine, near Broke, NSW                                                            | Umwelt | 2005 | Surface collection of sites 37-6-0949, 37-6-0958, 37-6-0959, 37-6-0960 and 37-6-0961 under AHIP#1591. Total of 205 artefacts salvaged.                                                                                                                                                                                                                                                                                                                           |
| Salvage of Aboriginal Sites within Beltana No.1 Mine, Broke, NSW, under DEC Section 90 Consent#1748.                             | Umwelt | 2007 | Surface collection of sites 37-6-0142, 37-6-0547, 37-6-0964, 37-6-0965, 37-6-0966 and 37-6-0978. Grader scrapes conducted at loci j-n of site 37-6-0966. Sites 37-6-0957, 37-6-0958, 37-6-0959, 37-6-0960, 37-6-0961, 37-6-0962 and 37-6-0963 included within AHIP #1748 area but previously salvaged under AHIP #1591. Total of 2223 artefacts salvaged (2176 from surface and 47 from grader scrapes).                                                         |
| Salvage, Mitigation and Remediation Activities Conducted under AHIP#2766, BMU1 and BMU2 locus 'o', Beltana No.1 Mine, Broke, NSW | Umwelt | 2010 | Salvage of part of site 37-6-0966 (surface collection and grader scrapes) in relation to impacts to mitigate the effects of subsidence on site 37-6-0967 (BMU1 grinding grooves). Total of 56 artefacts recovered from surface collection and one from grader scrape. Mitigation works involved earthworks, block removal and drilling of sandstone platform bordering BMU1 to reduce tensile stress within the rock outcrop. All works subsequently remediated. |
| Salvage of Aboriginal archaeological sites on the Northern and Southern Drainage lines, Beltana No.1 Mine, near Broke NSW under  | Umwelt | 2011 | Salvage works conducted under AHIP #2998 at sites located on the Northern Drainage line. Salvage involved surface collection of artefacts within sites 37-6-1401 (part), 37-6-1840, 37-6-1841, 37-6-1842, 37-6-1843, 37-6-1844, 37-6-1846, 37-6-1847, G6, G7, G8 and B7 and salvage excavations at three locations within 37-6-1401. Approximately 2570 surface artefacts collected 5690                                                                         |

| Name of Study                                                                                                                                                    | Author | Year | Summary of Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AHIP#2998 and AHIP#3301                                                                                                                                          |        |      | <p>artefacts salvaged via systematic excavation and 546 were collected grader scraping.</p> <p>Salvage works conducted under AHIP #3301 on the Southern Drainage line. Salvage works to be conducted as staged process, with initial salvage of sites in Longwall 1 and 2 area. Salvage involved surface collection of sites 37-6-0139, 37-6-0873, 37-6-0892/37-6-0804, 37-6-0893, 37-6-0897, 37-6-1047/37-6-1395, 37-6-1394, 37-6-1398, 37-6-1399, 37-6-1400 and 37-6-1048 (part) and systematic salvage excavation within 37-6-1394. Approximately 545 surface artefacts collected, and 870 artefacts salvaged via systematic excavation.</p> |
| <p>Aboriginal Heritage Assessment. Proposed Modification to DA 376-8-2003 for the Blakefield North Underground Mine Project</p> <p>Test excavation component</p> | OzArk  | 2012 | <p>Two areas were subject to test excavation to inform the assessment for the Blakefield North modification, namely: Area 1: along the route of the electricity line to SIS1 and VW1 and at the locations of the gas wells themselves; and Area 2: at the site of the Pipeline Maintenance Facility and associated access road.</p> <p>The 53 excavation squares across Areas 1 and 2 recorded only two artefacts: both from the one square in Area 1: square E5.</p>                                                                                                                                                                           |
| AHIP C0000331: Salvage Report. Blakefield North Underground Mine                                                                                                 | OzArk  | 2014 | <p>Three sites were subject to surface collection of artefacts in June and July 2014 in relation to works associated with a water and gas pipeline for the Blakefield North Underground Mine. The salvage affected partial salvage of BOP SC-14 (37-6-2858) and the salvage of BN IF-2 (37-6-2922) and BN IF-3 (37-6-2921). 305 artefacts recovered: 298 from within the impact corridor through BOP SC-14, two from BN IF-3 and five from BN IF-2.</p>                                                                                                                                                                                         |
| Blakefield South Archaeological Salvage AHIMS Sites #37-6-0906 and #37-6-0907 (AHIP #1116702)                                                                    | OzArk  | 2014 | <p>A summary of salvage activities undertaken for registered Aboriginal sites SBU7 (#37-6-0907) and SBU8 (#37-6-0906) under the auspices of Aboriginal Heritage Impact Permit (AHIP) #1116702. Surface artefact collection only.</p>                                                                                                                                                                                                                                                                                                                                                                                                            |

**Table 12-18 – Previous salvage works/test excavations completed at/for the Bulga Open Cut**

| Name of Study                                                                               | Author        | Year  | Summary of Content                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------|---------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Survey and Test Excavations Bulga Lease Authorization 219.                                  | Koettig       | 1991  | <p>Test excavations at sites 37-6-0141, 37-6-0426, 37-6-0427, 37-6-0476, 37-6-0477, 37-6-0494, 37-6-0503, 37-6-0510, 37-6-0522, 37-6-0527, 37-6-0534 and within a proposed diversion channel for Loders Creek under AHIP #252/283. Artefacts recovered from majority of locations subject to test excavation.</p> |
| Bulga Lease Authorization 219. Salvage Excavations                                          | Koettig       | 1994  | <p>Salvage excavations were subsequently conducted under AHIP #283. Over 13,000 artefacts salvaged.</p>                                                                                                                                                                                                           |
| The Distribution of Artefacts within a Hunter Valley, Central Lowland, Creek Corridor: Test | Navin Officer | 1995b | <p>Sub-surface testing of proposed overburden disposal area (as assessed by Navin Officer 1995a) located adjacent to Loders Creek under AHIP #746. Testing program involved</p>                                                                                                                                   |

| Name of Study                                                                                                                  | Author | Year | Summary of Content                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------|--------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Excavations, Overburden Disposal Area. Bulga Coal Mine, NSW.                                                                   |        |      | completion of 12 grader scrapes perpendicular to Loders Creek. Total of 320 artefacts recovered.                                                                                                                                                                                                                                          |
| Report on Section 90 #2429 Collection of Surface Artefact from the Bulga Borrow Pit Area, Bulga Open Cut Mine, near Broke, NSW | Umwelt | 2008 | Surface collection of sites 37-6-0890, 37-6-0891 and 37-6-0895 under AHIP #2429. Total of eight artefacts salvaged.                                                                                                                                                                                                                       |
| Salvage of Aboriginal archaeological sites associated with Bulga Coal CHPP dam, near Broke NSW under AHIP#3066 and AHIP#3212   | Umwelt | 2011 | Surface collection of sites 37-6-0584, 37-6-0585, 37-6-1928, 37-6-1929, 37-6-1930, 37-6-1968, 37-6-1978, 37-6-1979, 37-6-1980, 37-6-1981, 37-6-1982, 37-6-1983, 37-6-1984, 37-6-1985 and 37-6-1986. Total of 290 artefacts salvaged.                                                                                                      |
| Aboriginal Archaeological Values Assessment. Bulga Optimisation Project.<br><br>Test excavation component                      | OzArk  | 2013 | During 2012 three locations were further investigated by test excavation to inform the assessment process: BOP SC-1 with PAD (37-6-2845), BOP SC-6 with PAD (37-6-2850) and BOP SC-10 with PAD (37-6-2854). The excavations recorded 235 artefacts, 187 from BOP SC-1 with PAD, 38 from BOP SC-6 with PAD and 10 from BOP SC-10 with PAD. |
| Aboriginal Cultural Heritage Salvage Report. AHIP C0002083 (AHIMS Permit Id: 4011)                                             | OzArk  | 2016 | Three sites salvaged: 37-6-3399 (LCGGRA OS-1; partially salvaged), 37-6-3576 (LC OS-1; fully salvaged) and 37-6-2058 (KR53; fully salvaged).                                                                                                                                                                                              |
| Aboriginal Cultural Heritage Salvage Report. Bulga Optimisation Project                                                        | OzArk  | 2017 | Major salvage program of 59 sites conducted in 2015–2016. Salvage investigations included surface artefact collection and subsurface archaeological excavation. Over 12000 artefacts were recovered from both assemblages.                                                                                                                |
| Aboriginal Cultural Heritage Salvage Report. Bulga Optimisation Project Modification 1                                         | OzArk  | 2018 | Salvage of three sites in the proposed impact area for the BOP Modification 1: BOP-SC3 (37-6-2847); BOP-OS2 (37-6-2836); and BOP IF-8 (37-6-3661).                                                                                                                                                                                        |

## Appendix F - Regulator Endorsement of Ben Churcher



Ralph Northey  
Environment and Community Manager  
Bulga Coal Management Pty Ltd  
Via email: Ralph.Northey@glencore.com.au

16/09/2020

Dear Mr Northey

**Bulga Optimisation Project (SSD 4960) & Bulga Underground Operations (DA 376-8-2003)  
Appointment of Experts & Mining in the Whybrow Wedge Section of SSD 4960**

I refer to the your letter and supporting curriculum vitae's requesting the Planning Secretary's approval of suitably qualified and experienced persons to assist in revising the Rehabilitation Strategy and a number of management plans for the Bulga Optimisation Project (SSD 4960 – Modification 3) and the Bulga Underground Operations (DA 376-8-2003 – Modification 7), in accordance with Conditions 15(a), 22(a), 28(a), 34(a), 42(a) and 56(c) of Schedule 3 of SSD 4960 and Conditions 24A(a), 7G(a) and 32C(a) of Schedule 4 of DA 376-8-2003.

The Department has reviewed the nominations and information provided by Bulga Coal and is satisfied that the experts listed below are suitably qualified and experienced to assist in preparing the revised Rehabilitation Strategy and various management plans.

Accordingly, the Planning Secretary approves the appointment of the following persons to prepare the revised Rehabilitation Strategy and the following revised management plans in accordance with the relevant conditions of SSD 4960 and DA 376-8-2003.

| Name               | Company                                | Relevant Plan/ Strategy                                                 |
|--------------------|----------------------------------------|-------------------------------------------------------------------------|
| Thomas Lewandowski | Enviro Strata Consulting Pty Ltd       | Blast Management Plan                                                   |
| Shane Lakmaker     | Jacobs                                 | Air Quality and Greenhouse Gas Management Plan                          |
| Anthony Marszalek  | Hydro Engineering & Consulting Pty Ltd | Water Management Plan                                                   |
| Rebecca Vere       | Umwelt                                 | Biodiversity Management Plan                                            |
| Ben Churcher       | Ozark                                  | Heritage Management Plan                                                |
| Adam Williams      | SLR Consulting                         | Rehabilitation Strategy                                                 |
| Dorian Walsh       | Hansen Bailey                          | Exploration Activities and Minor Surface Infrastructure Management Plan |
| Tony Welbourne     | Global Acoustics                       | Noise Management Plan                                                   |

## Appendix G - Evidence of Consultation

### RAP correspondence

RE: Bulga Coal ACHMP review

 To: Hayward, Teegan (Bulga Surface Ops - AU)  
Cc: Northey, Ralph (Bulga Surface Ops - AU)

**External sender**

Hi Guys

Thanks for the update

Cheers  


---

**From:** [Teegan.Hayward@glencore.com.au](mailto:Teegan.Hayward@glencore.com.au)  
**Sent:** Thursday, 5 November 2020 2:17 PM  
**To:** [Teegan.Hayward@glencore.com.au](mailto:Teegan.Hayward@glencore.com.au)  
**Cc:** [Ralph.Northey@glencore.com.au](mailto:Ralph.Northey@glencore.com.au)  
**Subject:** Bulga Coal ACHMP review

Hello everyone,

Bulga Coal received approval for Modification 3 and Modification 7 in July and as such we have updated the Bulga Coal Aboriginal Cultural Heritage Management Plan (attached). The following key updates have been made to the plan:

- Section 6.1: removal of Heritage Steering Committee as Bulga Coal consults with all RAPs;
- Section 8.1.2: BOP Modification 3 and DA 376-8-2003 Modification 7 - salvage of 2 isolated finds and 2 artefact scatters; and
- General updates.

If you could please provide any feedback on the proposed plan by Monday, 23rd November, that would be much appreciated.

Kind Regards,

Teegan Hayward  
Environment and Community  
Bulga Coal  
T: 02 6570 2976  
M: 0408 733306  
[teegan.hayward@glencore.com.au](mailto:teegan.hayward@glencore.com.au)  
[www.glencore.com](http://www.glencore.com)

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Re: Bulga Coal ACHMP review

 To: Hayward, Teegan (Bulga Surface Ops - AU)  
Cc: Northey, Ralph (Bulga Surface Ops - AU)

**External sender**

Thank you for the email Teegan,  
Hope you are well, the plan is good with me.



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---

**From:** [Teegan.Hayward@glencore.com.au](mailto:Teegan.Hayward@glencore.com.au) <[Teegan.Hayward@glencore.com.au](mailto:Teegan.Hayward@glencore.com.au)>  
**Sent:** Thursday, November 5, 2020 2:17:03 PM  
**To:** [Teegan.Hayward@glencore.com.au](mailto:Teegan.Hayward@glencore.com.au) <[Teegan.Hayward@glencore.com.au](mailto:Teegan.Hayward@glencore.com.au)>  
**Cc:** [Ralph.Northey@glencore.com.au](mailto:Ralph.Northey@glencore.com.au) <[Ralph.Northey@glencore.com.au](mailto:Ralph.Northey@glencore.com.au)>  
**Subject:** Bulga Coal ACHMP review

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- General updates.

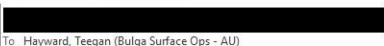
If you could please provide any feedback on the proposed plan by Monday, 23rd November, that would be much appreciated.

Kind Regards,

Teegan Hayward  
Environment and Community  
Bulga Coal  
T: 02 6570 2976  
M: 0408 733306  
[teegan.hayward@glencore.com.au](mailto:teegan.hayward@glencore.com.au)  
[www.glencore.com](http://www.glencore.com)

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Re: Bulga Coal ACHMP review

  To: Hayward, Teegan (Bulga Surface Ops - AU)

 You replied to this message on 18/11/2020 9:29 AM.

 Bulga Coal Aboriginal Cultural Heritage Management Plan - version 7 draft.pdf  
.pdf File

**External sender**

Hi Teegan,  
I have read ACHMP for the above project, I endorse the recommendations made.  
Kind regards

On Thursday, 5 November 2020, 02:17:20 pm AEDT, [Teegan.Hayward@glencore.com.au](mailto:Teegan.Hayward@glencore.com.au) <[teegan.hayward@glencore.com.au](mailto:teegan.hayward@glencore.com.au)> wrote:

Hello everyone,

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If you could please provide any feedback on the proposed plan by Monday, 23rd November, that would be much appreciated.

Kind Regards,

Teegan Hayward

Environment and Community

Bulga Coal

T: 02 6570 2976

M: 0408 733306

[teegan.hayward@glencore.com.au](mailto:teegan.hayward@glencore.com.au)

[www.glencore.com](http://www.glencore.com)

Heritage NSW correspondence

**From:** [Nicole Davis](#)  
**To:** [Ralph.Northey@glencore.com.au](mailto:Ralph.Northey@glencore.com.au)  
**Cc:** [Sam Higgs](#)  
**Subject:** Heritage NSW review of the revised Bulga Coal Aboriginal Cultural Heritage Management Plan (ACHMP), Bulga Optimisation Project - (SSD-4960-PA-46).  
**Date:** Thursday, 3 December 2020 2:51:00 PM  
**Attachments:** [image001.png](#)

---

Hi Ralph,

Heritage NSW (HNSW) has reviewed the revised *Bulga Coal Aboriginal Cultural Heritage Management Plan (ACHMP) 16 July 2020*, for the Bulga Optimisation Project (SSD-4960-PA-46), with respect to Aboriginal cultural heritage as requested.

HNSW is satiated that the revised ACHMP adequality addresses the ongoing management of Aboriginal sites and values across the project area and that consultation with the registered Aboriginal parities has been appropriately undertaken and will be maintained for the life of the project.

Please don't hesitate to contact me should you require any further information, I shall upload this email as our response to the MMP this afternoon.

Cheers Nicole

**Nicole Davis** | Archaeologist, Aboriginal Cultural Heritage Regulation - North  
Heritage NSW, Community Engagement, Department of Premier and Cabinet  
Level 2, 26 Honeysuckle Drive, Newcastle NSW 2300  
T: 02 4927 3156 M: 0409 394 343 | [nicole.davis@environment.nsw.gov.au](mailto:nicole.davis@environment.nsw.gov.au)



**Premier  
& Cabinet**

*I acknowledge and respect the traditional custodians and ancestors of the lands I work across.*

Singleton Council correspondence

**BULGA  
COAL**  

---

**GLENCORE**

11 Augst 2021

Mary Anne Crawford  
Singleton Council  
PO Box 314  
Singleton NSW 2330  
mcrawford@singleton.nsw.gov.au

Dear Mary Anne

**SSD 4960 Bulga Optimisation Project and DA 376-8-2003  
Response required from Singleton Council**

As you would be aware we have been seeking feedback form the Singleton Council on a number of management plans as required by SSD-4960.

The Visual Impact Management Plan; Rehabilitation Management Plan, Historic Heritage Management and Aboriginal Cultural Heritage Management Plan were submitted in the Major Projects portal for consultation with Singleton Council on 15/10/20, 16/10/20, 5/11/20, 24/11/20 respectively.

Bulga Coal has made numerous requests for the Singleton Council to progress the review of these management plans.

If the Singleton Council intends reviewing these management plans it is requested that this completed before the 20 August 2021, after which Bulga Coal will lodge these management plans for approval.

Do not hesitate to coantact me should you like to discuss this matter.

Yours sincerely,

  
Ralph Northey  
Environment and Community Manager  
Bulga Coal Complex

Private Mail Bag 8, Singleton, NSW 2330  
567 Broke Road, Singleton, NSW 2330  
T + 61 2 6570 2400 F + 61 2 6570 2430 www.glencore.com  
Bulga Coal Management Pty Ltd ABN 48 055 534 391  
For and on behalf of the Bulga Joint Venture

**Appendix H** - Link to **Loders Creek Grinding Grooves  
Consevation Area Plan of Management –  
BULCX-2103827161-7678:** [\*\*Click here\*\*](#)

**Appendix I** - Link to **Wollombi Brook Conservation  
Agreement Area Plan of Management – BULCX-  
2103827161-7640:** [\*\*Click here\*\*](#)

**Appendix J** - Link to **New Aboriginal Heritage Site Recording  
Form – BULCX-2103827161-7665:** [\*\*Click here\*\*](#)