



Centennial Coal



Historic Heritage Management Plan

Western Region

June 2018

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WESTERN COAL SERVICES

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CONSULTATION COMMENT

DOCUMENT CONTROL

DOCUMENT DETAILS	Name:	Western Region Historic Heritage Management Plan
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	1	SSD_5581 Approval	

Acronyms and Definitions

ACHMP	Northern Region Aboriginal Cultural Heritage Management Plan
Centennial	Centennial Coal Pty Limited
CCCC	Central Coast City Council
CMP	Conservation Management Plan
DPE	Department of Planning and Environment
EIA	Environmental Impact Assessment
EIS	Environmental Impact Statement
EIS	EIS
Environmental Impact Statement	Environmental Impact Statement
EP&A Act	Environmental Planning and Assessment Act 1979
Heritage Item	An item as defined under the Heritage Act 1977
Heritage Act	Heritage Act 1977
HIS	Heritage Impact Statement
HHMP	Historic Heritage Management Plan
IHO	Interim Heritage Order
NPW Act	National Parks and Wildlife Act 1974
LGA	Local Government Area
LEP	Local Environmental Plan
LMCC	Lake Macquarie City Council
LMHS	Lake Macquarie Heritage Study
OEH	NSW Office of Environment and Heritage

Secretary	Secretary of the Department of Planning and Environment
SHR	State Heritage Register

1 BACKGROUND

1.1 Introduction

Centennial Coal Company (Centennial) is a coal mining company supplying thermal and coking coal to the domestic and export markets. Centennial is a major fuel supplier to the New South Wales energy industry, fuelling approximately 40% of the State's coal-fired electricity.

Centennial is one of the largest underground coal producers in NSW and, as part of Banpu, a member of the largest independent pan-Asian coal group. Centennial's western region operations, located in the Lithgow and Mid-Western Local Government Areas (LGAs), include Airly Mine, Angus Place Colliery, Charbon Colliery, Clarence Colliery, Lidsdale Siding, Springvale Mine and Western Coal Services (Figure 1).

1.2 Purpose

This Western Region Historic Heritage Management Plan (HHMP) has been prepared to provide a consistent approach to historic heritage identification, recording and management. This HHMP covers historic heritage protected under the NSW Heritage Act 1977. This report only pertains to historic heritage; Aboriginal heritage is addressed in Centennial's Western Holdings Aboriginal Cultural Heritage Management Plan.

This HHMP addresses Centennial's western operations which include:

- Airly Mine (Attachment 1);
- Angus Place Colliery (Attachment 2);
- Charbon Colliery (Attachment 3);
- Clarence Colliery (Attachment 4);
- Lidsdale Siding (Attachment 5);
- Springvale Mine (Attachment 6); and
- Western Coal Services (Attachment 7).

The HHMP includes a Consultation Log (Attachment 8).

Figure 1 details the location and extent of each of Centennial's operations located within the western region. Individual heritage items are included in Site Specific Attachments.

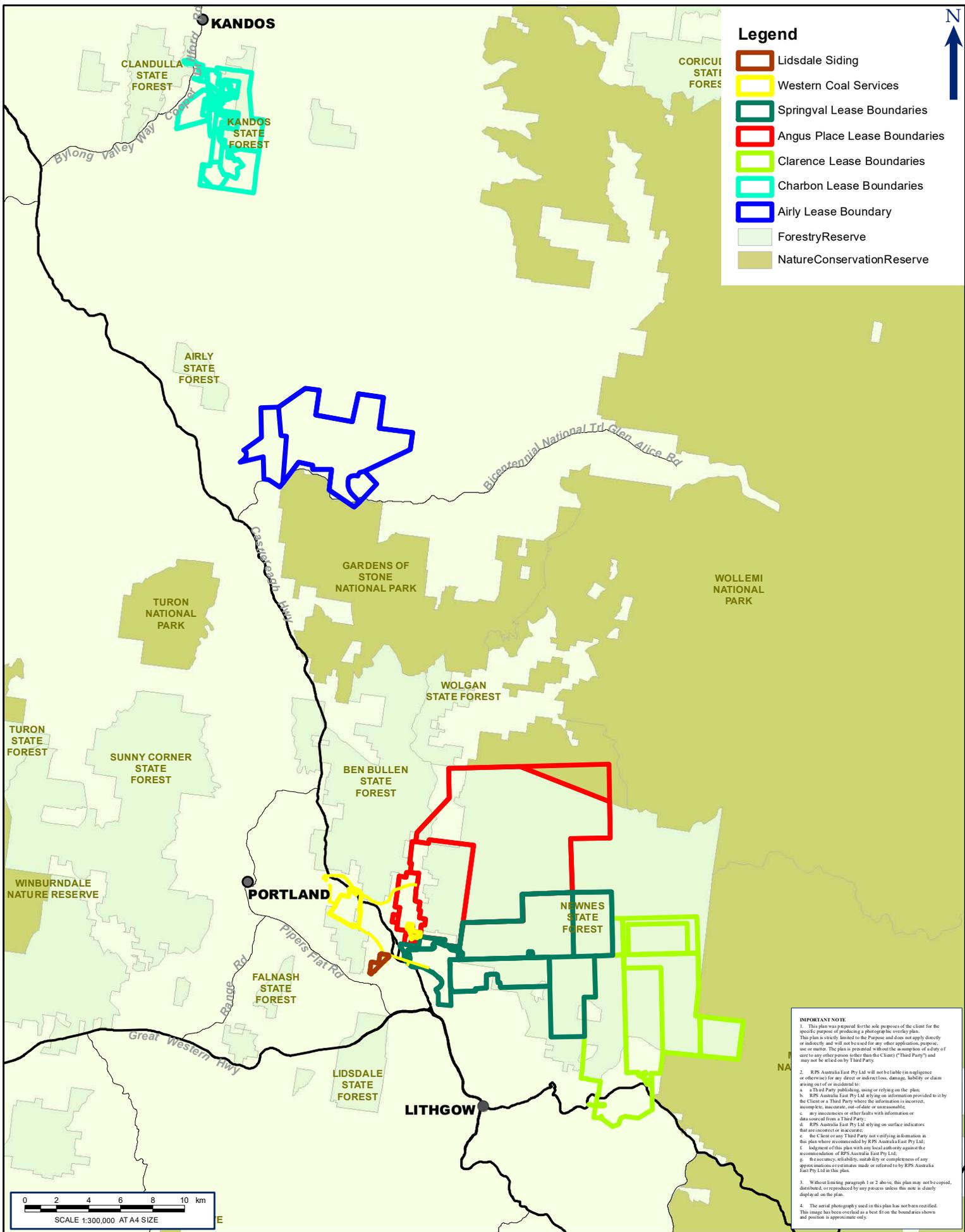


Figure 1: Western Holdings

LOCATION: Western Holdings	DATUM: GDA94
JOB NO.: Base Map	PROJECTION: MGA Zone 56
PURPOSE: HERITAGE	Data Sources: Esri RPS Client
Technician: Natalie Wood	Date: 16/02/2017

CLIENT: Centennial Coal

RPS AUSTRALIA EAST PTY LTD (ABN 44 140 292 762)
241 DENISON STREET BROADMEADOW PO BOX 428 HAMILTON NSW 2303
T: 02 4940 4200 F: 02 4961 6794 www.rpsgroup.com.au



1.3 Interaction of Regional Management Plans and Extraction Plans

Centennial's operations operate under an Environmental Management Strategy. The Environmental Management Strategy identifies Environmental Management Plans required including:

- Operational Environmental Management Plans;
- Regional Environmental Management Plans; and
- Operational Extraction Plan and Sub-Plans.

The Regional Environmental Management Plan, using a regional framework for consistency, identifies baseline monitoring, compliance monitoring, adaptive management, reporting and review processes to be adopted across the operations.

Extraction Plans and Sub-Plans required under the Mining Act 1992 are constrained to a mining area and specific to requirements outlined in the Extraction Plan Guidelines (NSW Department of Planning & Environment, 2015). As such, each Sub-Plan required by the Extraction Plan developed for Centennial operations will specifically include:

- Site specific baseline information;
- Updated subsidence predictions on relevant surface features;
- Performance measures for relevant surface features;
- Trigger Action Response Plan (TARP);
- Adaptive Management Approach; and
- Any additional monitoring reporting and review requirements not addressed by the Regional Environmental Management Plan.

The specific Regional Environmental Management Plan and Extraction Plan Sub-Plan are interrelated and the plans will reference or duplicate sections where relevant for the purpose of maintaining consistency (Figure 2).

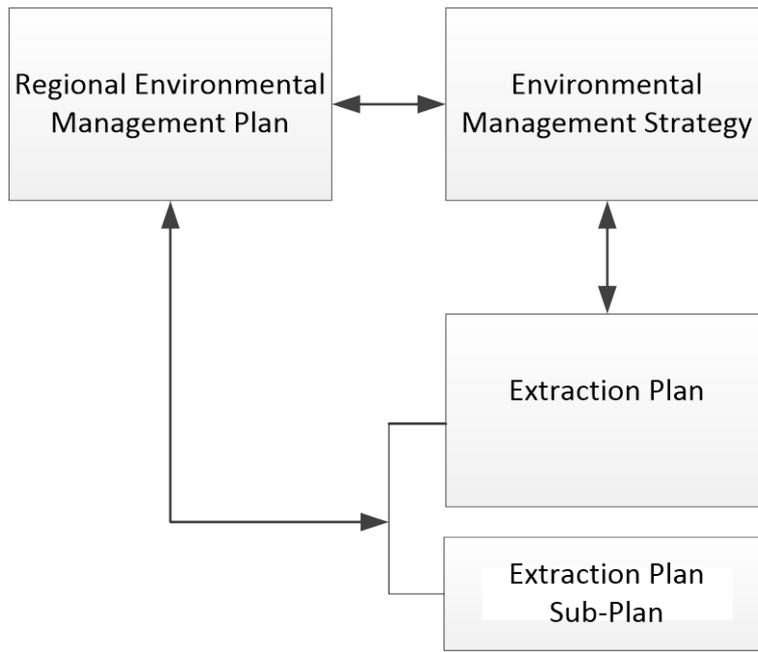


Figure 2 - Interaction of Regional Management Plans and Extraction Plans

2 LEGISLATION AND GUIDELINES

2.1 State Legislation

2.1.1 Heritage Act 1977 (as amended)

Historical archaeological relics, buildings, structures, archaeological deposits and features are protected under the *Heritage Act 1977* (and subsequent amendments) and may be identified on the State Heritage Register (SHR) or by an active Interim Heritage Order.

The Heritage Council of NSW, constituted under the *Heritage Act 1977*, is appointed by the Minister and is responsible for heritage in NSW. The Council reflects a cross-section of community, government and conservation expertise with the NSW Heritage Division being the operational arm of the Council.

2.1.2 Environmental Planning & Assessment Act 1979

The *Environmental Planning & Assessment Act 1979* (EP&A Act) regulates a system of environmental planning and assessment for NSW. Land use planning requires that environmental impacts are considered, including the impact on cultural heritage. Assessment documents prepared to meet the requirements of the EP&A Act including Reviews of Environmental Factors, Environmental Impact Statements and Environmental Impact Assessments, will address cultural heritage where relevant. Statutory planning documents such as Local Environment Plans and State Environmental Planning Policies typically contain provisions for heritage.

2.1.3 National Parks and Wildlife Act 1974

Amongst other matters, the *National Parks and Wildlife Act 1974* (NPW Act) provides for the reservation, care and management of various types of protected natural landscapes including State Conservation Areas, National Parks and nature reserves. The preparation of a Plan of Management for protected areas is required and becomes a statutory document under the NPW Act. Once the Minister has adopted a plan, the plan must be carried out and no operations may be undertaken in relation to the lands to which the plan relates unless the operations are in accordance with the plan.

2.2 Statutory Planning & Management Documents

The Centennial operations are located in the Lithgow and Mid-Western LGA. Each council has prepared a Local Environmental Plan (LEP) which is the statutory planning document containing clauses which set controls and requirements for development proposals and guide councils' decisions.

2.2.1 Statutory Planning Documents

The LEP's which relate to this management plan are the Lithgow LEP 2014 and the Mid-Western LEP 2012.

Clause 5.10 within each of the LEPs deals with 'Heritage Conservation' and sets out the same standards and controls with regard to the management of local heritage places included in each Schedule 5 'Environmental Heritage' which is the list of local and state heritage places within each local government area.

In summary, Clause 5.10 'Heritage Conservation' within each LEP includes the following provisions:

- Clause 5.10 (2) 'Requirement for Consent' – development consent is required to demolish, move or alter the exterior of a heritage item or building, work, relic or tree within a heritage conservation area; and, to disturb or excavate an archaeological place (non-Aboriginal) while knowing or having reasonable cause to suspect that a relic(s) is likely to be discovered or impacted;
- Clause 5.10 (5) 'Heritage assessment' – before granting consent Council may require a heritage management document which assesses the extent to which the carrying out of the proposed development will affect the significance of the heritage item or heritage conservation area; and
- Clause 5.10 (7) 'Archaeological sites' – before granting consent to carry out development on an archaeological site (other than that included on the State Heritage Register or subject to an interim heritage order) the consent authority must (a) notify the Heritage Council of its intention to grant consent; and (b) take into account any response from the Heritage Council within 28 days after the notice is sent.

2.3 Best Practise Management Historic Heritage

Best practice guidance produced at the national and state level provides standards and advice to be followed in the management of historic heritage including significance assessment, impact assessment and management and mitigation actions. Documents which have been consulted to inform the preparation of this HHMP and which will be followed where relevant include:

- *The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance, 2013 (Burra Charter);*
- *Burra Charter Practice Note: Understanding and assessing cultural significance (November 2013);*
- *Burra Charter Practice Note: Developing policy (November 2013);*
- *Assessing Heritage Significance (former Heritage Branch, 2009);*
- *How to Prepare Archival Records of Heritage Items (former Heritage Office, 1995, revised 1998);*
- *Photographic Recording of Heritage Items Using Film or Digital Capture (former Heritage Office, 2001, revised 2004, 2006); and*
- *Statements of Heritage Impact (Former Heritage Office and Department of Urban Affairs and Planning 1996, revised 2002).*

2.3.1 The Burra Charter

The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance, 2013 (Burra Charter) is the best practice standard for the conservation and management of cultural heritage places in Australia. It represents the knowledge and experience of Australia ICOMOS members and is well regarded internationally.

The *Burra Charter* sets out a series of articles which define all aspects of heritage practice including conservation principles, conservation processes and conservation practice. Of particular note is the Burra Charter process set out in the document which sets out the steps to be followed in planning for and managing a place of cultural significance. The seven steps are summarised below:

- Understand the place – define the physical extent of the place as well as investigate its history, fabric, use and associations;
- Assess cultural significance – assess cultural heritage values embodied by the site using appropriate criteria and prepare a statement of significance;
- Identify all factors and issues – identify all obligations arising from the significance assessment and identify opportunities and constraints;
- Develop policy – based on the steps so far, develop policies which will enable the protection and ongoing management and conservation of the heritage place;
- Prepare a management plan – define priorities, resources, responsibilities and timing;
- Implement the management plan; and
- Monitor the results and review the plan.

A series of practice notes for the *Burra Charter* were launched in 2013 and those of relevance to the assessment of heritage impact and management include:

- Understanding and assessing cultural significance – this note provides an explanation of the heritage significance criteria or values as defined in the Burra Charter. Common issues in significance assessment are identified with advice on how they can be avoided.
- Developing policy – this note provides guidance on developing and writing policy for places of cultural significance by defining the scope of policies, describing the steps in policy development and addressing typical issues.
- Interpretation – this note provides guidance on the key steps and principles of interpretation planning and addresses common issues.
- Burra Charter Article 22 – New Work – this note explains what new work can entail and addresses common issues around the interpretation of Article 22 which states that ‘new work should be readily identifiable as such’.

2.3.2 OEH Historic Heritage Guidelines

This section will outline the main purposes of OEH Historic Heritage Guidelines.

2.3.2.1 *Assessing Heritage Significance (former Heritage Branch, 2009)*

This guideline sets out the criteria for assessing heritage significance of items and relics, including the heritage values of a place, site or item. It includes a scale for ranking significance as well as guidelines for identifying whether an item is of local or state significance.

2.3.2.2 *How to Prepare Archival Records of Heritage Items (former Heritage Office, 1995, revised 1998)*

This document outlines the goals of archival recording and provides a practical guide for the activities which must be undertaken. It includes guidelines for documentation including drawings, photogrammetry, catalogues and reporting.

2.3.2.3 *Photographic Recording of Heritage Items Using Film or Digital Capture (former Heritage Office, 2001, revised 2004, 2006)*

This document outlines the format for undertaking photographic recording including the mapping and plan requirements for recording. It outlines the necessary hard copy formats for the production of this type of document and defines the material which needs to be submitted with OEH.

2.3.2.4 *Statements of Heritage Impact (Former Heritage Office and Department of Urban Affairs and Planning 1996, revised 2002).*

This document outlines the requirements for preparing a Statement of Heritage Impact, including articulating why an item is of heritage significance, what impact the proposed works will have on that significance, what measures are proposed to mitigate negative impacts and why more sympathetic solutions are not viable.

3 HISTORIC HERITAGE CONTEXT FOR WESTERN REGION

In 1824, James Walker a free 'gentleman class settler' was granted a tract of land that encompassed the present day area of Wallerawang and extended to include the Wolgan Valley. It was Walker that named the grant Waller-owang, meaning place of wood and water. By 1836 Walker had established a home and was host to Charles Darwin who whilst staying at the farm sighted a platypus in the nearby Cox's River (Wallerawang Public School Centenary 1860 -1960:1960:5).

The main road to Mudgee passed through the valley of Waller-owang and as early as 1835 there were inns reported in the area of Lidsdale. The discovery of gold in 1851 saw a rapid increase in both traffic and population at Lidsdale, which was on the junction of the Maddox Line of Road (from Mudgee) and the Bell Line of Road (from Sydney). Lidsdale by the 1850's had the Carriers Arms Inn, Sorell's Inn, the Post Office, the Square and Compass Inn, a livery stable and a blacksmiths shop. A series of homes were built along the Mudgee Road with timber supplied by a local sawmill (ibid. p.6). In 1867 the mining of kerosene shale began at Kerosene Vale, this was in the same period as works were under way to extend the railway across the Blue Mountains. Wallerawang was the terminus for the rail and from here travellers transferred onward by Cobb and Co Coaches. In 1884 the railway extended north again to Mudgee.

One of the earliest coalmines in the area was the Black Diamond at Blackmans Flat; later mines included Folley, Queensland and Vale of Clwydd at Angus Place (Wallerawang Public School Centenary 1860 -1960:1960:7). The Lithgow coal seam outcropping was variable in nature between Lidsdale and Portland where it was predominantly expressed in clay shales (Carne, J. 1908:201). The mines in the Wallerawang district generally followed the railway line and included Irondale Colliery (1883), Ivanhoe Colliery (1893) and the Commonwealth Colliery (1895), which became the first open cut mine in NSW during World War II (1940). In addition were the Cullen Bullen and Invincible coalmines nearby. The Lithgow coal seam quality was best in its lowest portions, which at Cullen Bullen exhibited an average thickness of four feet, but at both Irondale and Ivanhoe had little more than one foot that was workable (Carne, J. 1908:201). In 1905, a major industrial venture commenced with the establishment of shale oil works at Newnes in the Wolgan Valley, the Newnes shale works continued until 1931.

An important local industry was forestry with pine forest established in 1932, and related sawmills and a box factory in the area.

In September 1958, the Wallerawang Power Station, built by the NSW Electricity Commission, first produced power. The region by that time had industrial undertakings in power generation, coal mining, railways, sawmills, case making and building construction, while rural industries included wool production, cattle, pig and poultry raising and forestry (Wallerawang Public School Centenary 1860 -1960:1960:7).

The history of the Kandos area (Charbon Colliery) follows a similar pattern of early development based on agriculture, with coal deposits exploited from the early nineteenth century. Kandos in addition had significant deposits of limestone, a resource used in the production of cement. As a result in 1913, the NSW Cement, Lime and Coal Co Ltd registered as a public company and the cement works established (Mudgee District History).

4 HISTORIC HERITAGE SITES WITHIN WESTERN REGION

The Western Region comprises two local government areas: Lithgow City Council (Airly Mine, Clarence Colliery, Lidsdale Siding, Springvale Mine and Western Coal Services) and Mid-Western Regional Council (Charbon Colliery).

There are 292 number of heritage items and 91 number of archaeological sites listed within Lithgow City Council LEP Schedule 5 – Environmental Heritage which are within the boundary of Centennial Coal operations. For each operation the number of sites and the number of sites on Centennial land and the number of sites not on Centennial land is presented (Table 1).

Charbon, in the Mid-Western Council has two unlisted archaeological sites.

Table 1 - Western Region Historic Heritage Sites

Operation	Total number of sites	Number of sites on Centennial owned or leased land	Number of sites not on Centennial owned or leased land
Airly Mine	20	1	19
Charbon	2	2	0
Clarence Colliery	4	0	4
Lidsdale Siding	18	0	18
Springvale Mine	113	3	110
Western Coal Services	35	0	35

5 HISTORIC HERITAGE ASSESSMENT

Centennial operations complete a Heritage Impact Statement as part of the Environmental Impact Statement process for new operations and modifications to existing operations. Historic heritage management actions identified within the Heritage Impact Statement and conditions of consent are presented in Attachments 1 to 7 of this HHMP.

5.1 Heritage Impact Assessment Procedure

If mining activities are likely to involve an impact on a heritage place not already approved as part of development consents, a Heritage Impact Statement (HIS) will be prepared by a suitably qualified heritage consultant to the satisfaction of the Secretary of the Department of Planning and Environment and in accordance with Heritage Council guidelines. The HIS will include:

- An assessment of the heritage significance of the place identifying heritage values/state heritage criteria in evidence;
- An assessment of the likely impact that the proposed works will have on that heritage significance;
- A description of measures that will be followed to manage and mitigate any potential negative impacts; and
- Explanation of why more sympathetic solutions are not available.

The HIS will also need to include searches of the following heritage registers:

- World Heritage List;
- National Heritage List;
- Commonwealth Heritage List;
- State Heritage List; and
- Local Government LEP Listing.

5.2 Heritage Act Approval Procedure

Where an operation has received approval under the Environmental Impact Statement and a HIS has been prepared and includes the activity and heritage site to be impacted no further Heritage Act Approvals are required. The Development Consent and this Management Plan identify and provide for the protection of historic heritage items.

Where activities fall outside of an Environmental Impact Statement or HIS; the below approvals are to be considered in consultation with a Heritage Consultant.

5.2.1 State Heritage

Items on the State Heritage Register are legally protected under the NSW Heritage Act 1977. To carry out activities to an item listed on the State Heritage register (SHR) or to which an interim heritage order (IHO) applies, approval must be gained from the Heritage Council. There are two relevant approvals required in relation to state heritage or a heritage item subject to an IHO:

1. An application should be made under section 60 of the Heritage Act 1977 for works to items listed on the State Heritage Register (SHR); and any excavations or ground disturbance that may impact on State Heritage listed archaeological remains.
2. A section 57 exemption application can be made where the proposed works to the state heritage place or item covered by an IHO will be negligible.

5.2.2 Locally Significant Archaeological Sites

An application under section 140 of the Heritage Act 1977 is required for any excavations or ground disturbance works that may affect known locally significant archaeological remains.

Where an impact on a known locally significant archaeological site will be minor, a section 139 exemption application will be required.

5.2.3 State Heritage

Items on the State Heritage Register are legally protected under the NSW Heritage Act 1977. To carry out activities to an item listed on the State Heritage register (SHR) or to which an interim heritage order (IHO) applies, approval must be gained from the Heritage Council. There are two relevant approvals required in relation to state heritage or a heritage item subject to an IHO:

1. An application should be made under section 60 of the Heritage Act 1977 for works to items listed on the State Heritage Register (SHR); and, any excavations or ground disturbance that may impact on State Heritage listed archaeological remains; and
2. A section 57 exemption application can be made where the proposed works to the state heritage place or item covered by an IHO will be minor.

5.2.4 Locally Significant Archaeological Sites

An application under section 140 of the Heritage Act 1977 is required for any excavations or ground disturbance works that may affect known locally significant archaeological remains.

Where an impact on a known locally significant archaeological site will be minor, a section 139 exemption application will be required.

6 HISTORIC HERITAGE MANAGEMENT

6.1 Qualifications for Archival Recording

Historic heritage investigations identified in this document will be undertaken by a qualified heritage consultant. The archival recording requirements are outlined below.

6.2 Archival Recording Requirements

Archival recording will be undertaken when proposed works to a heritage place are likely to result in a substantial and usually negative impact on its heritage significance. Archival recording will be undertaken by a qualified heritage consultant. The archival recording will be undertaken in accordance with NSW best practice guidance is set out in How to Prepare Archival Records of Heritage Items (former Heritage Office, 1995, revised 1998) and Photographic Recording of Heritage Items Using Film or Digital Capture (former Heritage Office, 2001, revised 2004, 2006).

6.3 Heritage Sites Monitoring Program

6.3.1 Extraction Plan Historic Heritage Monitoring Program

A historic heritage monitoring program will be implemented in accordance with an Extraction Plan Historic Heritage Management Plan developed in accordance with the operations conditions of development consent.

The historic heritage monitoring program will record the condition of the site before mining and post mining (Figure 4):

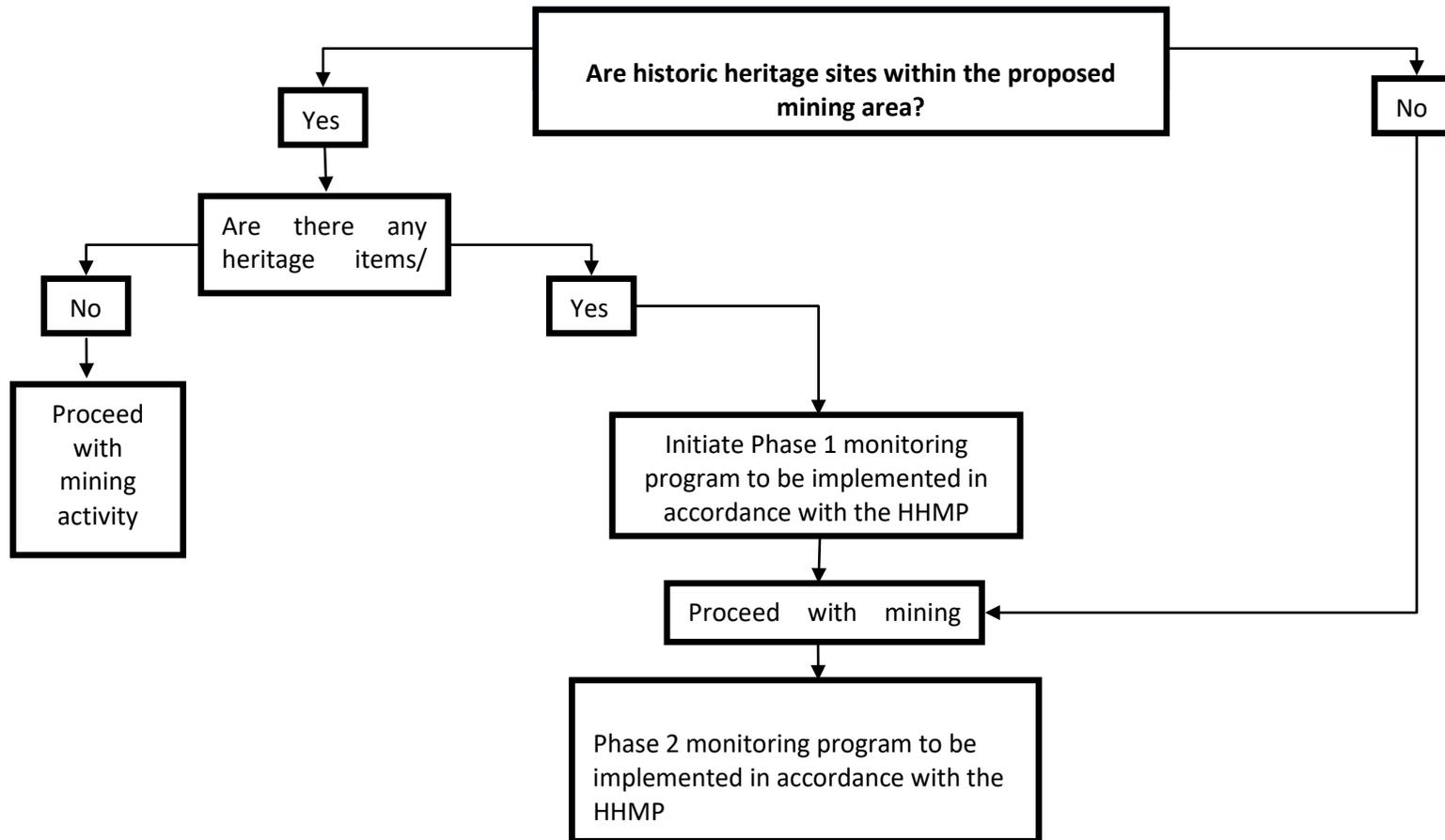
- Phase 1: Baseline recording (prior to site being undermined); and
- Phase 2: Post mining condition (within 3 months after undermining).

The results of the monitoring program will be reported in accordance with the Extraction Plan. Any further monitoring will be undertaken in accordance with an approved Extraction Plan.

6.3.2 Other Historic Heritage Monitoring Programs

Where monitoring of a historic heritage site occurs outside of an Extraction Plan the program and its contingencies plan will be developed with a qualified historic heritage consultant. The results of the monitoring program will be presented in the Annual Review for the operation.

Figure 3 - Monitoring and Management Flowchart for Underground Mining Activities



6.4 Contingency Plan

A TARP is developed using the performance indicators for historic heritage management relevant to each operation which are detailed within the relevant Extraction Plans. In the event that monitoring identifies a performance indicator has been exceeded, Centennial will implement the contingency measures as detailed in the TARP. Should unexpected impacts as a result of mining operations be identified to items of historic heritage, Centennial will notify OEH, Department of Planning and Environment (DPE) and LMCC, review its operations and implement any adaptive management or mitigation measures as necessary.

6.5 Reporting

6.5.1 Annual Review

An Annual Review is to be completed in accordance with the requirements of the conditions of approval for each operation. The Annual Review includes:

- information on the development and activities carried out in the past calendar year,
- information on the activities proposed to be carried out over the current calendar year;
- a comprehensive review of the monitoring results and complaint records of the development over the past calendar year;
- a comparison of monitoring results against:
 - the relevant statutory requirements, limits or performance measures/criteria;
 - the monitoring results of previous years; and
 - the relevant predictions in the EIS.
- Information on any non-compliances over the past year, and what actions were (or are being) taken to ensure compliance;
- Aan identification of any trends in the monitoring data;
- Identification of any discrepancies between the predicted and actual impacts of the development, and an analysis of the potential cause of any significant discrepancies; and
- a description of what measures will be implemented over the next calendar year to improve the environmental performance of the development.
-

Any historic heritage monitoring undertaken under this management plan will be reported annually through the Annual Review. The Annual Review will be made available on the Centennial Coal website.

6.6 Incidents, complaints and exceedances

6.6.1 Incidents

Non-compliances may be identified through regular reviews of monitoring inspections.

Any incidents, complaints and non-conformances that occur need to be reported in accordance with the Centennial Incident Reporting Standard (CIMOS-006), logged and corrective and preventable actions identified.

In the event of an incident or complaint, the following procedure will be followed:

- Investigate the incident;
- Log the complaint/incident; and
- Create an incident report, including the corrective actions that were taken and who was involved, that documents preventative actions required to prevent a recurrence of the event and includes a sign-off by an authorised person at the site.

6.6.2 Community enquiries or complaints

Centennial will record and respond to any community enquiries or complaints received as described in the respective sites Community Complaints and Enquiries Procedure and investigate the nature of the complaint / enquiry.

Complaints will be followed up by the Mine Manager or Environment & Community Coordinator as soon as the outcomes of the investigation have been completed.

All community complaints and enquiries will be recorded in the Centennial Coal Environment and Community Database (ECD).

6.6.3 Non-compliance notification procedure

The following procedure will be implemented following a measured exceedance on a historic heritage item:

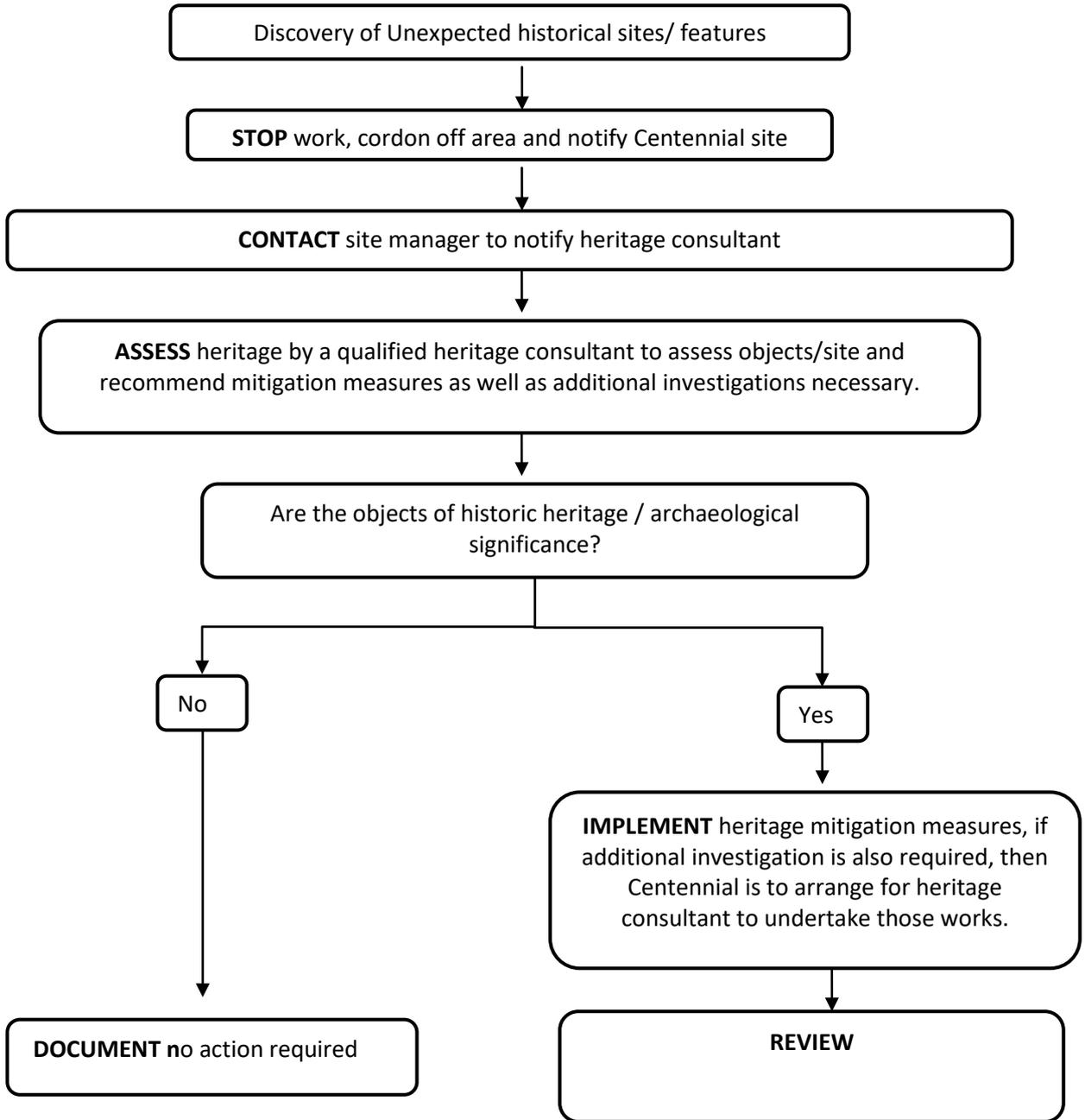
- historic heritage incident identified;
- notify DPE, OEH and LMCC in writing of the exceedance immediately;
- investigate the cause of the exceedance;
- notify DPE, OEH and LMCC of the the outcomes of the investigation and any measures that will be investigated and/or implemented to reduced the exceedance within seven (7) days of the exceedance occurring; and
- Record the incident in the Centennial Coal Environment and Community Database.

6.7 Identification of previously unknown heritage sites or skeletal remains

6.7.1 Heritage Sites

If during the course of mining and mining related activities any previously unknown historical archaeological sites/artefacts or heritage items/sites are discovered or identified, all work in the area of the item(s) will cease immediately and an appropriately qualified heritage consultant/archaeologist consulted in accordance with Section 7 of this HHMP.

Figure 4 - Flow Chart Protocol for Unexpected Finds



6.7.2 Skeletal Remains

If any skeletal remains are identified all work will halt in the immediate area to prevent any further harm to the remains. Centennial will contact the NSW Police immediately. No action is to be undertaken until police provide written notification to Centennial. Centennial will contact DPE, OEHS Environment Line (131 555) and representatives of the local Aboriginal community within 7 days.

No action is to be undertaken until police provide written notification to Centennial.

No works will continue until OEHS provides written notification to Centennial about the action plan for the management of the skeletal remains and formulated management plan if required.

7 ROLES AND RESPONSIBILITIES

The roles and responsibilities for the monitoring of Historic Heritage sites will require the efforts from the following representatives as presented in Table 2:

- Environment and Community Co-ordinator;
- On-site Personnel;
- Heritage Consultant; and
- Surveyor.

In order to successfully management of historic heritage sites in the boundary of Centennial's western operations, it is important that the following personnel ensure that their roles and their responsibilities are carried out correctly.

7.1 Penalties for non-compliance associated with historic heritage are identified in Section 7.1. Penalties and Consequences for Non-compliance

7.1.1 Heritage Act 1977

Historic heritage items are protected under Section 57 and Section 139 of the *Heritage Act 1977*. Under Section 57, a person must not do any of the following unless an approval has been granted by the Heritage Council:

- (a) demolish the building or work;
- (b) damage or despoil the place, precinct or land, or any part of the place, precinct or land;
- (c) move, damage or destroy the relic or moveable object;
- (d) excavate any land for the purpose of exposing or moving the relic;
- (e) carry out any development in relation to the land on which the building, work or relic is situated, the land that comprises the place, or land within the precinct;
- (f) alter the building, work, relic or moveable object;
- (g) display any notice or advertisement on the place, building, work, relic, moveable object or land, or in the precinct; and
- (h) damage or destroy any tree or other vegetation on or remove any tree or other vegetation from the place, precinct or land.

Archaeological excavation under is not permitted unless approval has been granted by the Heritage Council under Section 139.

Under the Heritage Act 1977, the penalty an offence against this Act is up to \$1.1 million, or imprisonment for a period of six months, or both. A person guilty of an offence against the heritage regulations shall be liable to a penalty of up to \$5500.

7.1.2 Environmental Planning and Assessment Act 1979

Penalty Infringement Notices can be issued under Section 76A Development that needs consent of the Act for unauthorised works that require consent, this includes changes to the fabric of a Heritage Item. Additionally Orders can be issued under Section 121B of the Act in relation to works.

Table 2 - Roles and Responsibilities of Personnel involved in the HHMP

Environment and Community Co-ordinator	Responsibilities	Onsite Personnel	Responsibilities	Historic Heritage Consultant	Responsibilities	Surveyor	Responsibilities
<p>This is the person nominated by Centennial to co-ordinate and manage environmental requirements in each respective operation</p>	<ul style="list-style-type: none"> • Read, Understand, implement and ensure the practical application of this HHMP. • Follow instructions outlined in this HHMP. • Ensure that a copy of this HHMP is available onsite in addition to any other reports applicable to area of proposed works. • Review this content of this HHMP to ensure currency and update where required. 	<p>Any individual undertaking surface disturbance within Centennial's western operations</p>	<ul style="list-style-type: none"> • Understand the heritage requirements under the NSW legislation. • Be aware that there is an immediate STOP WORK requirement for some situations outlined in heritage management flow charts (Figure 3) and ensure that there are procedures in place to secure the area for such situations. 	<p>An individual with appropriate qualification to undertake cultural heritage assessments and management actions</p>	<ul style="list-style-type: none"> • Assist with the implementation of this HHMP, as required. • Provide heritage advice in accordance with the relevant legislation. • Undertake the recording of new sites in accordance with OEH guidelines. • Complete archival recording in accordance with protocol outlined in this document. 	<p>An individual with appropriate qualifications to undertake surveying. This may be a Centennial surveyor or contractor.</p>	<p>Complete monitoring control forms in conjunction with the heritage consultant, as required.</p>

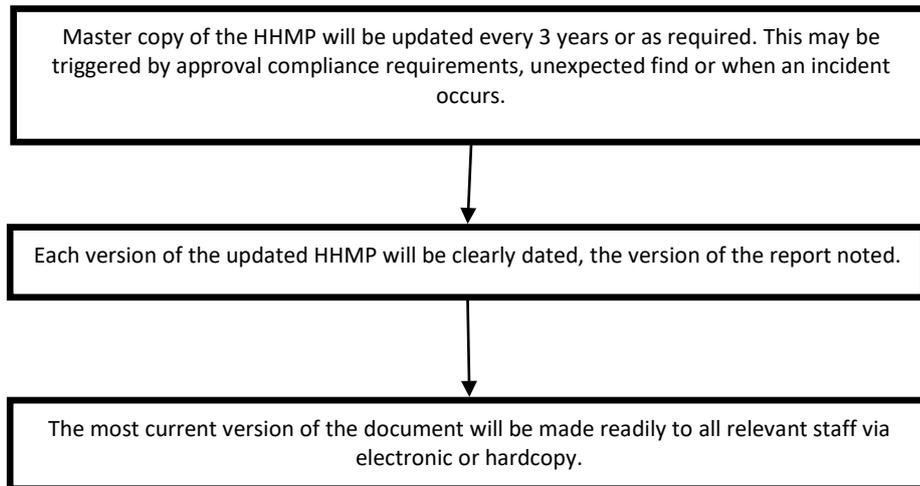
7.2 Inductions

All Centennial staff and contractors undertaking work at Centennial's operations are required to undertake a site specific induction prior to commencing work. Historic heritage matters will form a component of these inductions. Records of inductions will be kept and are maintained on site.

7.3 Document Control and Review

The purpose of this document is to provide a standardised and overarching management plan and mitigation strategy for historic heritage sites within the boundary of Centennial's western operations. This HHMP will be updated every 3 years or as required by an approval compliance requirement, unexpected find, or incident (Figure 6).

Figure 5 - Continual Revision of the Historic Heritage Management Plan (HHMP) Procedure



8 BIBLIOGRAPHY

Australia ICOMOS. 2013a. "The Burra Charter, The Australia ICOMOS Charter for Places of Cultural Significance".

- 2013b. "Practice Note, Developing Policy".
- 2013c. "Practice Note, Understanding and Assessing Cultural Significance".

Carne, J.E. 1908, Geology and Mineral resources of the Western Coalfield, Government Printer, Sydney.

Heritage Office. 2006. "Photographic recording of heritage items using film or digital capture".

Heritage Office and Department of Urban Affairs and Planning. 1996. "Statements of Heritage Impacts". Pp. 1-10, edited by Heritage Office and Department of Urban Affairs and Planning. Sydney.

Mudgee District History. A History of Rylstone and Kandos. Viewed 09.02.2017
http://www.mudgeehistory.com.au/rylstone_kandos/rylstone_kandos1.html.

Kerr, James. 2013. "The Seventh Edition Conservation Plan: A Guide to the Preparation of Conservation Plans for Places of European Cultural Significance". Prepared for ICOMOS.

NSW Heritage Office. 1998. "How to Prepare Archival Records of Heritage Items". Pp. 49, edited by New South Wales Environment and Heritage: Heritage Office.

- 2001. "Assessing heritage significance". in New South Wales Heritage Manual. Sydney: NSW Heritage Office.

Wallerawang Public School Centenary: 1860 -1960. 1960. Centenary Committee. Geo. Gearside Print, Lithgow.

APPENDICES

Attachment 1

Airly

Overview of Operations

Airly Mine is an underground coal mine located approximately 40 kilometres north-northwest of Lithgow and approximately 171 kilometres northwest of Sydney. The Mine's consent allows extraction of 1.8 million tonnes of coal per annum for supply to both domestic and international markets by rail. The key infrastructure at the Airly Mine surface facilities area comprises administration buildings, bathhouse, workshop, coal handling infrastructure, mine ventilation infrastructure, a rail loop and train loading facilities.

Historic Heritage Consent Conditions & Commitments

The historic heritage consent conditions for SSD 5581 are presented in Table 1 below. The commitments made in SSD_5581 are presented in Table 2 below.

Table 1 - Airly Mine Development Consent (SSD 5581)

Condition No.	Consent Condition	Addressed in HHMP/Implemented
Schedule 3 Condition 2	The Applicant must ensure that the development does not cause any exceedances of the performance measures in Table 1 to the satisfaction of the Secretary.	Site specific measures of this Attachment identify an Extraction Plan will be prepared in accordance with Schedule 3 Condition 7(vi). The Extraction Plan will address measures to monitor performance of measures in Table 1 of SSD_5581.
Schedule 3 Condition	Prior to carrying out any first workings within the Cliff Line Zone and Zone of First Workings (refer to Figure 2 in Appendix 3) or second workings, the Applicant must prepare an Extraction Plan for the relevant workings to the satisfaction of the Secretary.	Site specific measures of this Attachment identify an Extraction Plan will be prepared in accordance with Schedule 3 Condition 7(vi). The Extraction Plan will address measures to monitor performance of measures in Schedule 3 Table 1 of SSD_5581.
Schedule 3 Condition 7 (i)(vi)	Heritage Management Plan which has been prepared in consultation with OEH and relevant Aboriginal stakeholders, to manage the potential environmental consequences of the proposed workings on Aboriginal and historic heritage and includes all requirements under condition 23 of Schedule 3.	Site specific measures of this Attachment identify an Extraction Plan will be prepared in accordance with Schedule 3 Condition 7(i)(vi). The Extraction Plan will address measures to monitor performance of measures in Schedule 3 Table 1 of SSD_5581. A Heritage Management Plan will be prepared for the Extraction Plan in consultation with OEH to manage the potential environmental consequences of the proposed workings on historic heritage.

Condition No.	Consent Condition	Addressed in HHMP/Implemented
<p>Prior to carrying out any development under this consent that would cause surface disturbance, the Applicant must prepare a Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:</p>		
<p>Schedule 4 Condition 22 (a)</p>	<p>be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary;</p>	<p>Endorsement of Tessa Boer-Mah of RPS to prepare the Historic Heritage Management Plans granted 2 November 2015.</p>
<p>Schedule 4 Condition 22 (b)</p>	<p>be prepared in consultation with OEH, Council, any relevant local historical organisations (in relation to non-Aboriginal heritage) and local Aboriginal stakeholders (in relation to Aboriginal heritage);</p>	<p>There are no impacts to Lithgow LEP items.</p> <p>Attachment 8 Consultation Log of this HHMP includes the consultation log for all relevant stakeholders.</p> <p>Attachment 8 Consultation Log of the Western Region Aboriginal Cultural Heritage Management Plan identifies consultation with OEH, Lithgow City Council and Registered Aboriginal Parties.</p>
<p>Schedule 4 Condition 22 (c)</p>	<p>include a description of the measures that would be implemented for:</p>	
	<p>managing the discovery of human remains or previously unidentified heritage items on site; and</p>	<p>Section 6.7.2 Skeletal Remains of this HHMP identifies that the NSW Police will be called immediately in the event skeletal remains are uncovered.</p>
	<p>ensuring any workers on site receive suitable heritage inductions and that suitable records are kept of these inductions;</p>	<p>Section 7.2 Inductions of this HHMP identifies inductions to site will include heritage and records of the inductions will be kept.</p>
<p>Schedule 4</p>	<p>Include the following for the management of Aboriginal heritage items:</p>	

Condition No.	Consent Condition	Addressed in HHMP/Implemented
Condition 22 (d)	protecting, monitoring and/or managing (including any proposed archaeological investigations and/or salvage measures) the heritage items identified in Appendix 5;	Section 6 Aboriginal Cultural Heritage Identification, Monitoring and Management within the Western Regional Aboriginal Cultural Heritage Management Plan describes the measures for protecting, monitoring and/or managing (including any archaeological investigations and/or salvage measures) of Aboriginal heritage items presented in Attachment 1 of the Western Region Aboriginal Cultural Heritage Management Plan.
	managing the discovery of previously unidentified Aboriginal items on site;	Section 6.4 Management and Mitigation Measures within the Western Regional Aboriginal Cultural Heritage Management Plan describes the process for managing the discovery of previously unidentified Aboriginal items on site.
	conserving the sites outside the surface disturbance area (see Appendix 5);	Section 6.0 Aboriginal Cultural Heritage Identification, Monitoring and Management within the Western Regional Aboriginal Cultural Heritage Management Plan describe the measures for conserving the sites outside surface disturbance areas presented in Attachment 5.
	maintain and managing reasonable access for Aboriginal stakeholders to heritage items on site;	Section 7.0 Access to Aboriginal Cultural Heritage within the Western Regional Aboriginal Cultural Heritage Management Plan provides for reasonable access for Aboriginal stakeholders to heritage items on site.

Condition No.	Consent Condition	Addressed in HHMP/Implemented
	ongoing consultation with the Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage on site; and	Section 5.3 Aboriginal Heritage Committee within the Western Regional Aboriginal Cultural Heritage Management Plan identifies the formal process for ongoing consultation with Aboriginal stakeholders, including conservation and management of Aboriginal cultural heritage on site.
Schedule 4 Condition 22 (e)	Include the following for the management of non-Aboriginal heritage items: a description of the measures that would be implemented for:	
	protecting, monitoring and managing the heritage items identified in Appendix 6; and	Sections 6.0 Historic Heritage Management and Section 6.7 Identification of previously unknown heritage sites of skeletal remains of this HHMP describe the measures for protecting, monitoring and managing heritage items.
	Managing the discovery of previously unidentified cultural heritage items on site.	Section 6.7.1 Heritage Sites of this HHMP identifies the management of previously unidentified cultural heritage items on site.
Note: This plan can be incorporated in a Regional Aboriginal Cultural Heritage Management Plan for Centennial's other mines and mine infrastructure in the Lithgow Local Government Area.		
The Applicant must implement the approved Heritage management Plan for the development.		

Table 2 - Airly Mine Statement of Commitments (SSD 5581)

Ensure that identified and unidentified Aboriginal and Historic Sites are appropriately managed. The sites identified in Chapter 8.0 and Section 10.3 will be subject to a monitoring programme within the Cultural Heritage Management Plan that will:	
Commitment	Addressed in ACHMP/Implemented
Monitor for impacts caused by subsidence on identified archaeological sites prior to, during and post mining activities. The condition of the site will be compared with baseline. If the site is found to be damaged Centennial Airly will notify OEH and work in consultation to mitigate further impacts. Monitoring will cease once mining is complete under a particular site and inspection with NPWS demonstrate no further impact has occurred.	Section 6.3 & Figure 3 of this HHMP identifies the monitoring protocols pre and post mining works.
Follow the measures contained in the Mugii Murrum-ban SCA Plan of Management in relation to the Airly shale mining complex.	Undertake archival recording before and after undermining in accordance to Section 6.2 of this HHMP. Post undermining recording must be completed within an 3 month timeframe.
If unrecorded Aboriginal object/s or historical cultural heritage material are identified in the Project Area during works, then all works in the immediate area must cease and the area must be cordoned off. NPWS and OEH will be notified so that the site can be adequately assessed and a Plan of Management developed.	Section 6.4 of this HHMP identifies the management of previously unidentified cultural heritage items on site.
In the unlikely event that skeletal remains are found, work will cease immediately in the vicinity of the remains and the area will be cordoned off. The local police will be contacted to make an initial assessment to ascertain whether the remains are part of a crime scene or possible Aboriginal remains. If this is the case, the local police will contact OEH so that they can determine if the remains are Aboriginal.	Section 6.7.2 of this HHMP identifies that the NSW Police will be called immediately in the event skeletal remains are uncovered. Section 6.7 Identification of Previously Unknown Aboriginal Cultural Heritage Sites in the Western Region Aboriginal Cultural Heritage Management Plan identifies NSW Police will be called immediately in the event skeletal remains are uncovered. In the event remains are identified as Aboriginal OEH will be notified.

Heritage Items within Airly Lease Boundary

There is 1 heritage item and 19 archaeological sites listed in the Lithgow City Council LEP Schedule 5 – Environmental Heritage which are in the Airly Lease Boundary (see Attachment 1). One heritage item, Carinya is on Centennial land (I173). Centennial is working with Lithgow City Council to address inconsistencies between the LEP mapped sites based on aerial photography and Centennial listed sites recorded on ground within the Airly Environmental Impact Statement.

There are no sites listed in the Mid Wester Regional Council LEP.

There are no heritage items within the Airly Lease boundary listed on the Commonwealth Heritage Register, on the NSW State Heritage Register (SHR), or the s170 registers (state owned items), as searched on 7 Jan 2016. There are no unlisted heritage items in the Airly Lease Boundary.

Table 3 - Airly Mine Summary of Heritage Searches

Heritage Items within Airly Lease Boundary on Centennial land				
Lease Boundary	Centennial owned land	Part 1 Heritage Sites	Address	Lithgow City Council LEP Schedule 5 – Environmental Heritage
Airly	Yes	Carinya	Lot 87, DP 755757 Glen Davis Road	Lithgow City Council LEP Schedule 5 – Environmental Heritage I173
Heritage Items within Airly Lease Boundary not on Centennial land				
Lease Boundary	Centennial owned land	Part 3 Archaeological Sites	Address	Lithgow City Council LEP Schedule 5 – Environmental Heritage
Airly	No	Airly Bakery	Off Glen Davis Road	A149
Airly	No	Airly Big Rock Cave Dwellings	Off Glen Davis Road	A148
Airly	No	Airly, Torbane and Genowlan oil shale sites	Off Glen Davis Road	A144
Airly	No	Airly Township and Mines Group	Off Glen Davis Road	A145
Airly	No	Airly Village Church site	Off Glen Davis Road	A146
Airly	No	Boiler and winding house	Off Glen Davis Road	A158
Airly	No	Flying Fox rope way	Off Glen Davis Road	A159
Airly	No	Gorms House	Off Glen Davis Road	
Airly	No	Magazine, spring, stone cave dwelling	Off Glen Davis Road	A152
Airly		Managers Residence	Off Glen Davis Road	A151
Airly	No	Martins Tunnel, ventilation	Off Glen Davis Road	A156

Heritage Items within Airly Lease Boundary on Centennial land

Lease Boundary	Centennial owned land	Part 1 Heritage Sites	Address	Lithgow City Council LEP Schedule 5 – Environmental Heritage
		tunnel and chimney		
Airly	No	Potts Point Dwelling Complex	Off Glen Davis Road	A150
Airly	No	Skipway, stone retaining wall	Off Glen Davis Road	A154
Airly	No	Spring shaft and stone house	Off Glen Davis Road	A147
Airly	No	Stone dwelling complex	Off Glen Davis Road	A153
Airly	No	Torbanne railway cutting	Off Glen Davis Road	A161
Airly	No	Torbanne retort complex	Off Glen Davis Road	A162
Airly	No	Ventilation chimney	Off Glen Davis Road	A157
Airly	No	Ventilation shaft, dwelling, skipway	Off Glen Davis Road	A160

Impact Assessment to items on Centennial Owned Land

Carinya (I173), being a heritage item listed in the Lithgow LEP is on Centennial land. And in the area marked as the archaeological precinct there is a small parcel of Centennial owned land, however there are no identified heritage structures near that parcel.

If surface works or other impacts are required in the vicinity of these items then a heritage impact statement will be prepared, refer to Section 6 of the main document.

Impact Assessment and Management of Heritage Items not on Centennial Land

There are 19 archaeological sites in an area identified as an archaeological precinct, in the Airly Lease Boundary on land not owned by Centennial.

If surface works or additional impacts are identified to these items then a heritage impact statement will be prepared, refer to Section 6 of the Management Plan.

Site Specific Measures

Mugii Murum-ban State Conservation Area Plan of Management

Mugii Murum-ban State Conservation Area is owned and managed by the NSW National Parks and Wildlife Service (NPW). NPW is developing a draft Plan of Management that Centennial will comply with where relevant .

Beyond the NPW Management Plan, Centennial has no specific obligations to manage the conservation area; but provisions will be made to maintain positive communication with the NPWS when accessing areas of built heritage items.

Extraction Plan

An Extraction Plan will be prepared prior to carrying out of first workings in the Cliff Line Zone and Zone of First Workings or second workings. The Extraction Plan will be prepared and approved in accordance with Airly SSD_5581 Schedule 3 Condition 7. The The Extraction Plan will address measures to monitor performance of measures in Schedule 3 Table 1 of SSD_5581. A Heritage Management Plan will be prepared for the Extraction Plan in consultation with OEH to manage the potential environmental consequences of the proposed workings on historic heritage. The Heritage Management Plan will include requirements under condition 23 (this Management Plan).

Table 5 - Airly Mine Heritage Items

Heritage Items	
ITEM: Carinya I173	No photograph available
ADDRESS: Lot 87, DP 755757, Glen Davis Road,	
LISTING: Lithgow LEP	
DESCRIPTION: No information available	
Archaeological sites	
<p>Oil seams were first located on Mt Airly in 1883 but due to labour conditions not being fulfilled mining activities not beginning there until 1893. In 1896 the mine was renamed the New Hartley Shale Mine and was in full production until 1906 when protracted labour disputes began to diminish the mines productivity.</p> <p>Airly village was officially laid out in September 1897 and included a post office, stores, pay office, school, dance hall, billiard room, hotel and stables. Many of the residents however chose to outside the village and closer to the working areas partly due to the poor water supply in the town.</p> <p>Typical dwellings ranged from sandstone huts to cave houses, utilising the natural sandstone overhangs. Many of the dwellings would have been makeshift using whatever materials were readily available and cheap including galvanised iron, bark, wattle and cloth. Estimates vary on the number of residents in Airly with figures ranging from 400 to 620 living there until the village began to decline in 1910 after the closure of the New Hartley and Genowlan Mines.</p> <p>The village of Torbane was established to process and refine the oil shale mined at Airly, it also acted as a transport link to the markets. In 1906 there was an expansion of production due to the purchase of the Airly Shale mines by the Commonwealth Oil Corporation adding another 32 retorts to the 40 already in operation.</p>	
ITEM: Airly Bakery	
ADDRESS: Off Glen Davis Road	
LISTING: Lithgow LEP	
DESCRIPTION: German House or bakery is one of the more prominent and substantial sites at Airly	
Source: RPS 2014	

<p>ITEM: Airly Big Rock Cave Dwellings</p>	 <p style="text-align: center;">Source: RPS 2014</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION: One of the many caves adapted for housing</p>	
<p>ITEM: Airly, Torbane, and Genowlan oil shale sites Plate shows the main adit for Glenlowan</p>	 <p style="text-align: center;">Source: RPS 2014</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION: Description at the start of the table</p>	
<p>ITEM: Airly Township and Mines Group</p>	 <p style="text-align: center;">Source: RPS 2014</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION: The chimney is an example of the type of extant house remnants</p>	

<p>ITEM: Airly Village Church site</p>	 <p style="text-align: center;">Source: RPS 2014</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION:</p>	
<p>ITEM: Boiler and winding house</p>	<p>Photo not available</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION:</p>	
<p>ITEM: Flying Fox rope Way</p>	 <p style="text-align: center;">Source: RPS 2014</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION: This chimney is the remnant of a house at base of the flying fox ropeway</p>	

<p>ITEM: Gorm's house</p>	 <p style="text-align: center;">Source: RPS 2014</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION:</p>	
<p>ITEM: Magazine, spring, stone cave dwelling</p>	 <p style="text-align: center;">Source: RPS 2014</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION: The magazine comprises a rock overhang with enclosing drystone walls and a separate dry stonewall enclosed space where it is thought detonators were stored</p>	
<p>ITEM: Managers Residence</p>	 <p style="text-align: center;">Source: RPS 2014</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION: The Managers House is another prominent site at Airly</p>	

<p>ITEM: Martins Tunnel, ventilation tunnel and chimney</p>	 <p style="text-align: center;">Source: RPS 2014</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION: Martins Tunnel, a brick lined adit is alongside Ventilation Chimney No. 2</p>	
<p>ITEM: Potts Point Dwelling Complex</p>	<p>Photo not available</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION:</p>	
<p>ITEM: Skipway, stone retaining wall</p>	<p>Photo not available</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION:</p>	
<p>ITEM: Spring shaft and stone house</p>	<p>Photo not available</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION:</p>	
<p>ITEM: Stone dwelling complex</p>	<p>Photo not available</p>
<p>ADDRESS: Off Glen Davis Road</p>	
<p>LISTING: Lithgow LEP</p>	
<p>DESCRIPTION:</p>	

<p>ITEM: Torbane railway cutting</p>		
<p>ADDRESS: Off Glen Davis Road</p>		
<p>LISTING: Lithgow LEP</p>		
<p>DESCRIPTION: Embankment cutting shown above centre of plate</p>		<p>Source: RPS 2104</p>
<p>ITEM: Torbane retort complex</p>		
<p>ADDRESS: Off Glen Davis Road</p>		
<p>LISTING: Lithgow LEP</p>		
<p>DESCRIPTION: Remains of the power house is shown</p>		<p>Source: RPS 2104</p>
<p>ITEM: Ventilation chimney</p>		
<p>ADDRESS: Off Glen Davis Road</p>		
<p>LISTING: Lithgow LEP</p>	<p>Photo not available</p>	
<p>DESCRIPTION:</p>		

ITEM: Ventilation shaft, dwelling, skipway	
ADDRESS: Off Glen Davis Road	
LISTING: Lithgow LEP	
DESCRIPTION: General photograph of Torbane remnant structures	

Source: RPS 2104

Attachment 2

Angus Place

Overview of Operations

Angus Place Colliery is an existing underground coal mine located approximately 15 kilometres to the northwest of Lithgow and approximately 120 kilometres west-northwest of Sydney. Angus Place Colliery commenced production in 1979, after being developed as an extension of the Newcom Mine at Kerosene Vale. This initially was a bord and pillar operation, but converted to longwall mining due to the depth of cover and geotechnical environment. Current approvals for the mine authorise the extraction of up to 4 million tonnes of coal per annum using a combination of continuous miner and longwall mining methods. The key infrastructure at the Angus Place surface facilities area comprises administration buildings, bathhouse, workshop, mine ventilation infrastructure and coal handling infrastructure. Angus Place was placed in care and maintenance in 2015.

Historic Heritage Consent Conditions & Commitments

There are no historic heritage consent conditions for Angus Place (06_0021 MOD 4). There are no statements of commitments for Angus Place (06_0021 MOD 4).

Heritage Items within Angus Place Lease Boundary

There are no heritage items or archaeological sites listed in the Lithgow City Council LEP Schedule 5 – Environmental Heritage within the Angus Place Lease Boundary.

There are no heritage items within the Angus Place Lease Boundary which are listed on the Commonwealth Heritage Register, the s170 registers (state owned items), or on the NSW State Heritage Register (SHR), as searched on 17 August 2016. There are no unlisted heritage items in the Angus Place Lease Boundary.

Impact Assessment

No heritage items are located on Centennial owned land and no heritage listed items exist within Angus Place Siding Lease Boundary. As such there is no identified impact to heritage listed items (Attachment 2 of this HHMP).

Impact Assessment to items on Centennial Owned Land

No heritage items are located on Centennial owned land

Impact Assessment

No heritage items are located on Centennial owned land and no heritage listed items exist within Angus Place Lease Boundary. Therefore there is no identified impact to heritage listed items.

Attachment 3

Charbon

Overview of Operations

Charbon Colliery is an underground and open cut coal mine located approximately three kilometres south of Kandos and approximately 180 kilometres west-northwest of Sydney. Charbon Colliery has existing development approvals in place enabling extraction 700 000t per year using open cut mining methods in the Western and Southern Outliers, Southern Open Cut Extension and 8 Trunk, Central and Western Open Cuts; and ii) 900 000t per year using underground mining methods in the Western Underground.

Historic Heritage Commitments & Consent Conditions

There are no historic heritage consent conditions under Project Approval 08_0211.

Heritage Items within Charbon Lease Boundary

There are no heritage items within the Charbon Lease Boundary listed on the Commonwealth Heritage Register, on the NSW State Heritage Register (SHR), or the s170 registers (state owned items), as searched on 09/02/2017. There are no heritage items or archaeological sites listed in the Mid-Western Regional Council LEP 2012 Schedule 5 – Environmental Heritage in the Charbon Lease Boundary (Table 3 & Attachment 3 of this HHMP).

There are two unlisted potential historic archaeological sites in the Charbon Lease Boundary. These are recorded in the Charbon Environmental Assessment Continued Operation of the Charbon Colliery, November 2009:5-128 (Attachment 3 of this HHMP).

Table 1 - Charbon Colliery Summary of Heritage Searches

Heritage Items within Charbon Lease Boundary not on Centennial land				
Lease Boundary	Centennial owned land	Archaeological Sites	Address	Mid-Western Council LEP Schedule 5 – Environmental Heritage
Charbon	No	CH-HS1 Hut foundations	See Figure 1	Unlisted
Charbon	No	CH-HS2 Concrete foundations	See Figure 1	Unlisted

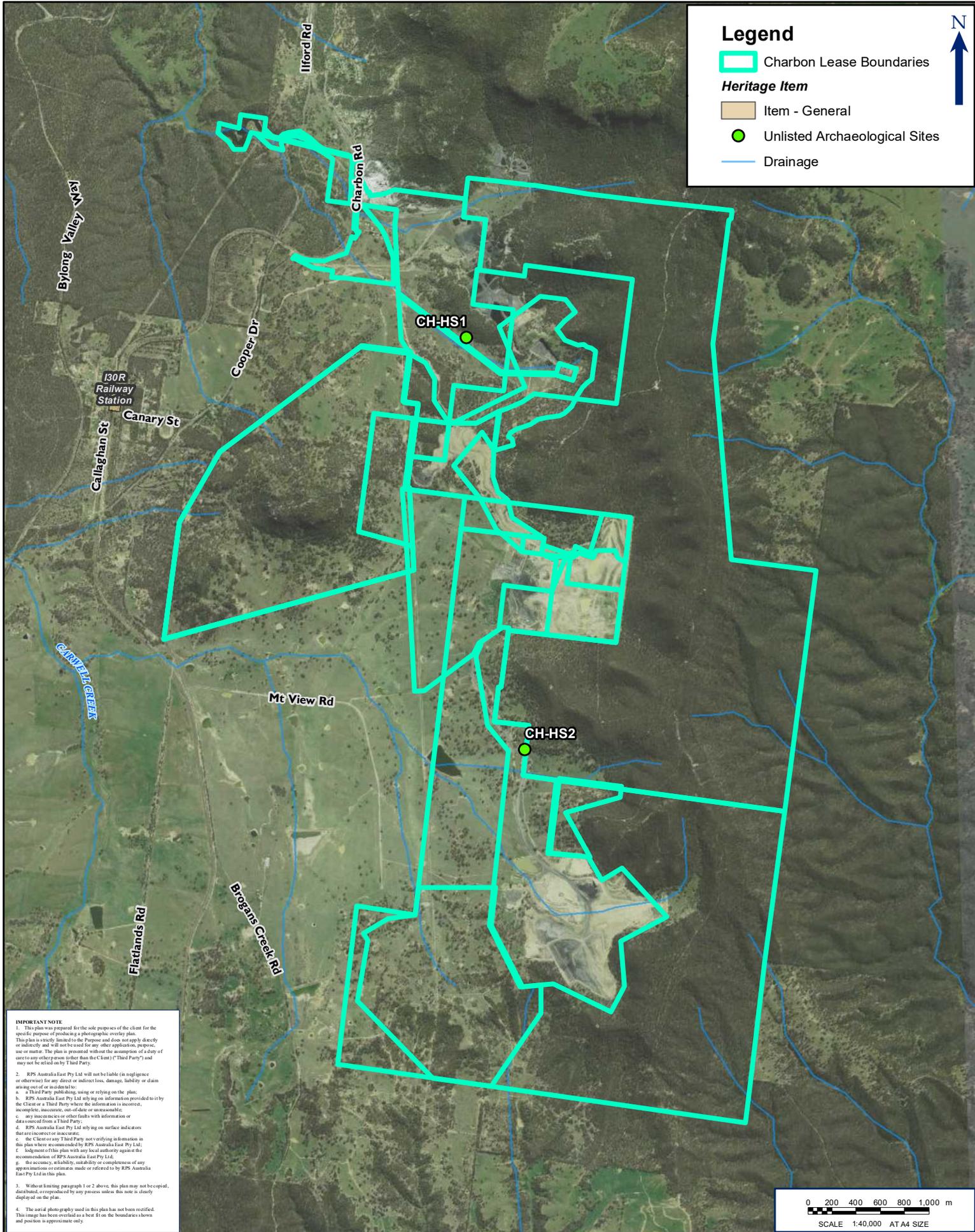
Impact Assessment and Management of Heritage Items

There are no listed heritage items; there are two unlisted potential archaeological sites within the Charbon Lease Boundary.

If surface works or additional impacts are identified to these items then a heritage impact statement will be prepared, refer to Section 5 of the HHMP.

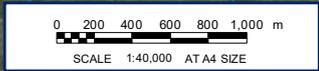
Table 2 Charbon Colliery Heritage items descriptions

Heritage Items	
ITEM: Charbon Site CH-HS1	No image
ADDRESS: See Attachment 3: Charbon Project Area with general location of identified sites	
LISTING: Unlisted	
DESCRIPTION: Foundations of a hut, comprising a small square area. The site is considered to have low local significance	
ITEM: Charbon Site CH-HS2	No image
ADDRESS: See Attachment 3: Charbon Project Area with general location of identified sites	
LISTING: Unlisted	
DESCRIPTION: Concrete foundations/ blocks with some poly pipe plumbing OzArk (2009) considered the site is likely to be younger than 50 years based on the materials present and is likely to have low local significance	



IMPORTANT NOTE

- This plan was prepared for the sole purposes of the client for the specific purpose of producing a photographic overlay plan. This plan is strictly limited to the Purpose and does not apply directly or indirectly and will not be used for any other application, purpose, use or matter. The plan is prepared without the assumption of a duty of care to any other person (other than the Client) ("Third Party") and may not be relied on by Third Party.
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 - the Client or any Third Party not verifying information in this plan where recommended by RPS Australia East Pty Ltd;
 - lodgement of this plan with any local authority against the recommendation of RPS Australia East Pty Ltd;
 - the accuracy, reliability, suitability or completeness of any approximations or estimates made or referred to by RPS Australia East Pty Ltd in this plan.
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- The aerial photography used in this plan has not been rectified. This image has been overlaid as a best fit on the boundaries shown and position is approximate only.



ATTACHMENT 3: CHARBON LEASE BOUNDARIES	LOCATION: CHARBON	DATUM: GDA94
	JOB NO.: Base Map	PROJECTION: MGA Zone 56
	PURPOSE: HERITAGE	Data Sources: RPS Land and Property 2015
Technician: Natalie Wood		Date: 13/02/2017

CLIENT: CENTENNIAL COAL			

RPS AUSTRALIA EAST PTY LTD (ABN 44 140 292 762)
 241 DENISON STREET BROADMEADOW PO BOX 428 HAMILTON NSW 2303
 T: 02 4940 4200 F: 02 4961 6794 www.rpsgroup.com.au



Attachment 4

Clarence

Overview of Operations

Clarence Colliery is an underground coal mine located approximately 10 kilometres east of Lithgow and approximately 100 kilometres west-northwest of Sydney. Clarence Colliery is a partial pillar extraction mine that commenced operations in 1979. Clarence Colliery has existing development approvals in place enabling extraction of up to three million tonnes of coal per annum. The infrastructure at the Clarence Colliery surface facilities area comprises administration buildings, bathhouse, workshop, mine ventilation infrastructure, coal handling infrastructure, a rail loop and train loading facilities.

Historic Heritage Commitments & Consent Conditions

The historic heritage consent conditions for DA 504-00 MOD 3 are presented in Table 1 below. There are no commitments made in DA 504-00 for historic heritage.

Table 1 - Clarence Development Consent (DA 504-00 MOD 3)

Condition Number	Consent Condition	Addressed in HHMP/Implemented
Schedule 3 Condition 30 (d)	be prepared in consultation with relevant Aboriginal stakeholders;	Endorsement of Tessa Boer-Mah of RPS to prepare the Historic Heritage Management Plans granted 2 November 2015.
Schedule 3 Condition 30 (e)	be submitted to the Secretary for approval prior to 31 October 2014;	Western Region Aboriginal Cultural Heritage Management Plan Attachment 8 Consultation Log, submitted on to Secretary on 2 October 2014. HHMP submitted to the Secretary on 18 March 2016. Revised Western Region Historic Heritage Management Plan including Clarence Attachment submitted to DP&E 31 March 2017.
Schedule 3 Condition 30 (f)	include consideration of the Aboriginal and non-Aboriginal cultural context and significance of the site;	Section 1 Introduction, Section 6.2 Assessment of Aboriginal Cultural Heritage Sites and Attachment 3 Clarence Colliery of the Western Region Aboriginal Cultural Heritage Management Plan provide Aboriginal cultural context. Section 3 Historic Heritage Context for this HHMP and this Attachment provide non-Aboriginal cultural context.
Schedule 3 Condition 30 (g)	detail the responsibility of all stakeholders; and	Section 7 Roles and Responsibilities and Table 2 Roles and Responsibilities of personnel involved in this HHMP define roles and responsibilities.

Condition Number	Consent Condition	Addressed in HHMP/Implemented
Schedule 3 Condition 30 (h)	include programs/procedures and management measures for appropriate identification, management, conservation and protection of both Aboriginal and non-Aboriginal heritage items at the site.	Sections 6.2 Archival Recording and Section 6.4 Identification of previously unknown heritage sites & skeletal remains of this HHMP describe the measures for protecting, monitoring and managing heritage items. Section 6 Aboriginal Cultural Heritage Identification, Monitoring and Management within the Western Regional Aboriginal Cultural Heritage Management Plan describes measures for protecting, monitoring and/or management of Aboriginal heritage items at the site.

Heritage Items within Clarence Lease Boundary

There are four heritage items and two archaeological sites listed in the Lithgow City Council LEP 2014 Schedule 5 – Environmental Heritage which are within the Clarence Lease Boundary (Table 1, Figure 1).

There are no heritage items within the Clarence Lease Boundary which are listed on the Commonwealth Heritage Register, on the NSW State Heritage Register (SHR), or the s170 registers (state owned items), as searched on 17 August 2016. There are no unlisted heritage items in the Clarence Lease Boundary.

Table 2 - Clarence Colliery Summary of Heritage Searches

Heritage Items within Clarence Lease Boundary not on Centennial land				
Lease Boundary	Centennial owned land	Part 1 Heritage Sites	Address	Lithgow City Council LEP Schedule 5 – Environmental Heritage
Clarence	No	Great Zig Zag Railway and deviation tunnels	Bells Line of Road, Clarence - Lot 9, DP 788554	I443
Clarence	No	Clarence House	Off Chifley Road, Clarence – Lot 16, 751650	I221
Clarence	No	The Oaks	Off Chifley Road, Clarence– Lot 16, 751650	I222
Clarence	No	Clarence Homestead	855 Chifley Road, Clarence – Lot 191, 875912	I223

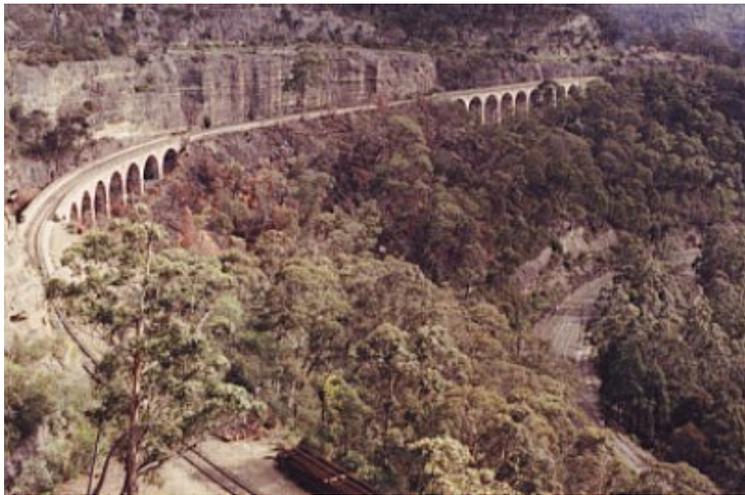
Heritage Items within Airly Lease Boundary on Centennial land				
Lease Boundary	Centennial owned land	Part 3 – Archaeological Sites	Address	Lithgow City Council LEP Schedule 5 – Environmental Heritage
Clarence	No	Lithgow No. 2 Dam	Farmers Creek - Lot 423, DP 1152284	A149
Clarence	No	Dargan Railway Dams	Off Chifley Road, Dargan – Lot 7301, DP 1123766	A148

Impact Assessment and Management of Heritage Items

There are four heritage items and two archaeological sites within the Clarence Lease Boundary.

If surface works or additional impacts are identified to these items then a heritage impact statement will be prepared, refer to Section 5 of this HHMP.

Table 3

Heritage Items	
<p>ITEM: Clarence I443</p> <p>ADDRESS: Bells Line of Road, Clarence - Lot 9, DP 788554</p> <p>LISTING: Lithgow LEP 2014</p>	 <p>Source: OEH 2016</p>

<p>DESCRIPTION: Great Zig Zag Railway and deviation tunnels</p>	
<p>ITEM: Clarence I221</p>	 <p>Source: RG Lauren/Google Images 2016</p>
<p>ADDRESS: off Chifley Road – Lot 16, 751650</p>	
<p>LISTING: Lithgow LEP 2014</p>	
<p>DESCRIPTION: Clarence House, Clarence</p>	
<p>ITEM: Clarence I222</p>	 <p>Source: RG Lauren/Google Images 2016</p>
<p>ADDRESS: Off Chifley Road, Clarence – Lot 16, 751650</p>	
<p>LISTING: Lithgow LEP 2014</p>	

<p>DESCRIPTION: The Oaks</p>	 <p>Source: RG Lauren/Google Images 2016</p>
<p>ITEM: Clarence I223</p>	<p>No photograph available</p>
<p>ADDRESS: 855 Chifley Road, Clarence – Lot 191, 875912</p>	
<p>LISTING: Lithgow LEP 2014</p>	
<p>DESCRIPTION: Clarence Homestead</p>	
<p>Archaeological sites</p>	
<p>ITEM: Lithgow No. 2 Dam</p>	<p>Source WaterNSW</p>
<p>ADDRESS: Farmers Creek - Lot 423, DP 1152284</p>	
<p>LISTING: Lithgow LEP 2014</p>	

DESCRIPTION:



**ITEM: Dargan
Railway Dams,
Dargan**

ADDRESS: Off
Chifley Road –
Lot 7301, DP
1123766

LISTING: Lithgow
LEP

DESCRIPTION:



Source: Clarence Colliery 2016

Attachment 5

Lidsdale Siding

Overview of Operations

Lidsdale Siding is located on the northern edge of Wallerawang and is used as a coal storage and rail loading facility. The site is primarily used to export coal from Centennial’s Western Region mines to Port Kemble, The Lidsdale Siding Rail Loading Facility is located approximately 12 kilometres northwest of Lithgow and approximately 120 kilometres west of Sydney adjacent to the township of Wallerawang.

The principal components of Lidsdale Siding are a rail siding, an overland conveyor which delivers coal from the Centennial Coal Western Coal Services site, coal stockpiles, workshop, office and pollution control dams.

Lidsdale Siding handles thermal coal for distribution to domestic and international markets via the Main Western Railway Line to port facilities on the NSW coast.

Historic Heritage Commitments & Consent Conditions

The historic heritage consent conditions for 08_0023 are presented in Table 1. Consent 08_0023 statement of commitments for historic heritage is presented in Table 2.

Table 1 - Lidsdale Siding Development Consent (08_0023)

Condition No.	Condition	Addressed in HHMP/Implemented
Heritage Management Plan		
The Proponent shall prepare and implement a Heritage Management Plan for the project to the satisfaction of the Director-General. This plan must:		
Schedule 3 Condition 23 (a)	be prepared in consultation with any relevant Aboriginal stakeholders;	Consultation Log of the Western Region Aboriginal Cultural Heritage Management Plan identifies consultation with OEH, Lithgow City Council and Registered Aboriginal Parties.
Schedule 3 Condition 23 (b)	be submitted to the Director-General for approval within 6 months of the date of this approval;	The Consultation Log in Attachment 8 of this HHMP includes the consultation log for all relevant stakeholders.

Condition No.	Condition	Addressed in HHMP/Implemented
<p>Heritage Management Plan</p> <p>The Proponent shall prepare and implement a Heritage Management Plan for the project to the satisfaction of the Director-General. This plan must:</p>		
Schedule 3 Condition 23 (c)	include consideration of the Aboriginal and non-Aboriginal cultural context and significance for the site;	<p>Section 1 Introduction, Section 6.2 Assessment of Aboriginal Cultural Heritage Sites and Attachment 5 Lidsdale Siding of the Western Region Aboriginal Cultural Heritage Management Plan provide Aboriginal cultural context.</p> <p>Section 3 Historic Heritage Context for this HHMP and this Attachment provide non-Aboriginal cultural context.</p>
Schedule 3 Condition 23 (d)	detail the responsibilities of all stakeholders; and	Section 7 Roles and Responsibilities and Table 2 Roles and Responsibilities of personnel involved in this HHMP define roles and responsibilities.
Schedule 3 Condition 23 (e)	include programs/procedures and management measures for appropriate identification, management, conservation and protection of both Aboriginal and non-Aboriginal heritage items identified on the site.	<p>Section 6 Aboriginal Cultural Heritage Identification, Monitoring and Management within the Western Regional Aboriginal Cultural Heritage Management Plan describes the measures for protecting, monitoring and/or managing (including any archaeological investigations and/or salvage measures) of Aboriginal heritage items presented in Attachment 5.</p> <p>Section 5 Historic Heritage Assessment, Section 6.2 Archival Recording and Section 6.4 Identification of previously unknown heritage items or skeletal remains within this HHMP identify the procedure for identification, management and conservation of historical heritage items.</p>
<p>St John Evangelist Church</p>		

Condition No.	Condition	Addressed in HHMP/Implemented
Heritage Management Plan		
The Proponent shall prepare and implement a Heritage Management Plan for the project to the satisfaction of the Director-General. This plan must:		
Within 12 months of the date of this approval, the Proponent shall, in consultation with the owners of the St John Evangelist Church, Main Street, Wallerawang, investigate and report on the likely visual and vibration impacts of the project on the church building and its setting. These investigations must:		
Schedule 3 Condition 24 (a)	be prepared by suitably qualified and experience persons approved by the Director-General;	Statement of Heritage Impact prepared by Deborah Farina (Cultural Heritage Consultant) in consultation with with Friends of St Johns (Wallerawang), and Elizabeth Roberts (Heritage Branch Library) summarised in site specific measures.
Schedule 3 Condition 24 (b)	provide recommendations to mitigate any impacts, other than those considered negligible;	Tree planting on the Lidsdale Siding site be retained and consideration given to supplemental plantings to maintain and improve a low visual impact.
Schedule 3 Condition 24 (c)	Summarise in a report provided to the Director-General along with the Proponent's response to the recommendations in (b) above, including a commitment and a timetable for implementation.	RPS (2014) St John the Evangelist Church, Wallerawang Statement of Heritage Impact.

Table 2 - Lidsdale Siding Statement of Commitments (08_0023)

Condition No.	Condition	Addressed in ACHMP/Implemented
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Condition No. Condition	Addressed in ACHMP/Implemented
A separate Heritage Management Plan is to be prepared covering the St John's Church. This plan will cover visual and vibration issues in relation to the activities of the Siding which may include tree screen planting. The plan will be prepared in consultation with the Church.	RPS (2014) detailed the results of the initial 3D laser scan and monitoring scans conducted in 2014. Based on the results, it was determined that vibration caused by the Lidsdale Siding Coal loading railway and facility upgrade had no impact on St John Church. Hence a separate Heritage Management Plan was not required.

Heritage Items within Lidsdale Lease Boundary

There are no heritage items or archaeological sites, listed in the Lithgow City Council LEP Schedule 5 – Environmental Heritage, in the Lidsdale Siding Lease Boundary.

There are no heritage items within the Lidsdale Siding Lease Boundary which are listed on which are listed on the Commonwealth Heritage Register, on the NSW State Heritage Register (SHR), or the s170 registers (state owned items), as searched on 17 June 2016. There are no unlisted heritage items in the Lidsdale Siding Lease Boundary.

Impact Assessment

No heritage items are located on Centennial owned land and no heritage listed items exist within 50m of the Lidsdale Siding Lease Boundary. Therefore there is no identified impact to heritage listed items.

Site Specific Measures – St Johns Church

Statement of Commitments (08_0023) required that laser scanning be conducted prior to, and following works. Based on the results, it was determined that vibration caused by the Lidsdale Siding Coal loading railway and facility upgrade had no impact on St John Church.

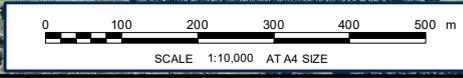
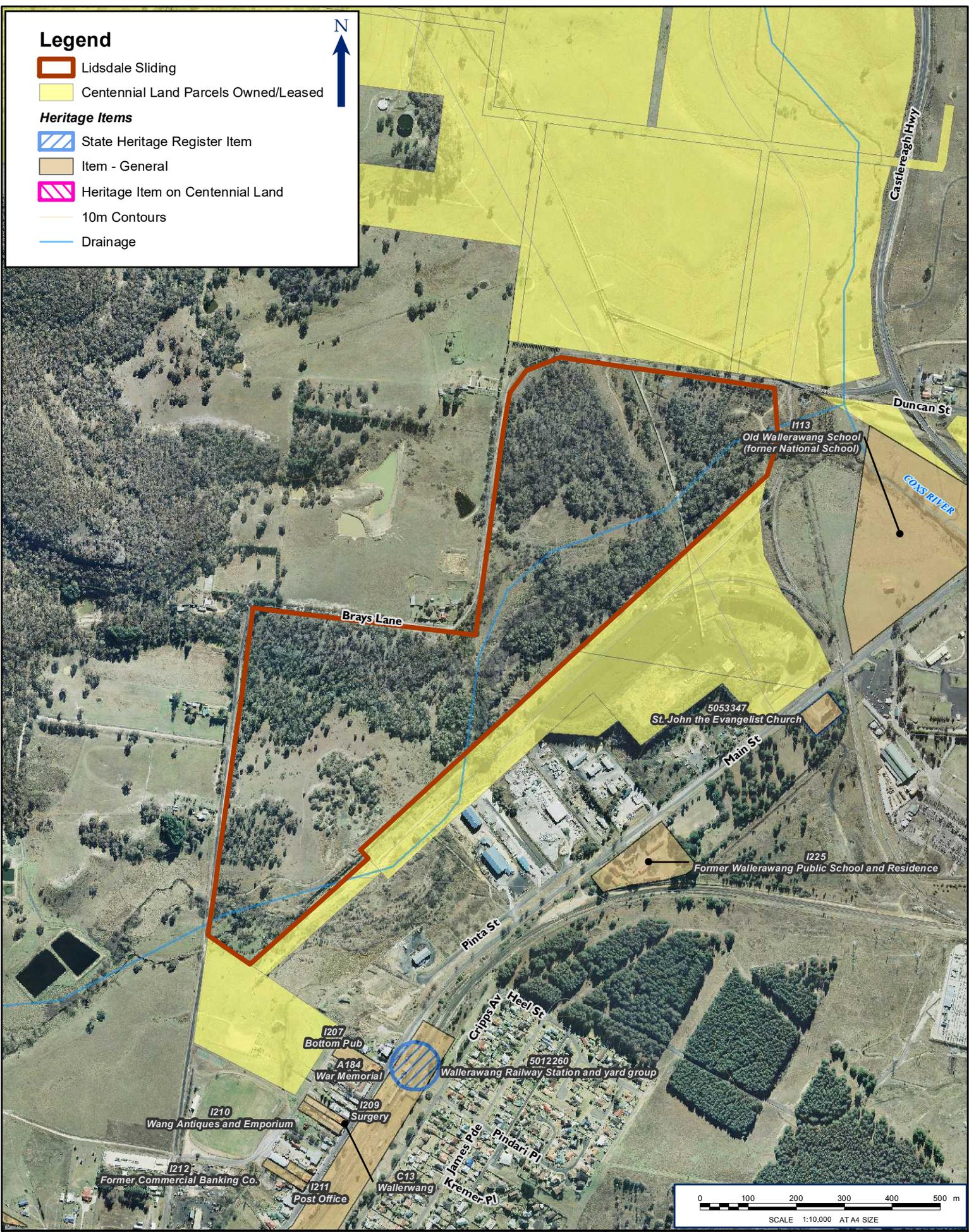
Table 3 - St Johns Church

Recommendation	Implementation and Compliance
It is recommended that tree planting on the Lidsdale Siding site is retained and consideration given to supplemental plantings to maintain and improve a low visual impact.	Centennial committed to undertaking supplemental tree planting along the Main Street frontage of Lidsdale Siding by December 2015.

Recommendation	Implementation and Compliance
<p>A) Centennial give consideration to comissioning a structural engineer’s report to provide a baseline model of the conditionof St Johns Church</p> <p>Or</p> <p>B) 3D laser scan of St Johns Church to provide a three dimensional image of the church in its current condition in order to quantify any damage that may occur in the future.</p> <p>It is recommended that option A or B procedure adopted be commenced prior to construction occuring and then not more than three months after construction. Results should be compared to determine if any changes has occured due to vibration.</p>	<p>Option B - 3D Laser Scan of St John Church was adopted. Baseline scan was conducted on 22/01/2014 and subsequent monitoring scan on the 25/08/2014.</p>

Legend

- Lidsdale Sliding
 - Centennial Land Parcels Owned/Leased
- Heritage Items**
- State Heritage Register Item
 - Item - General
 - Heritage Item on Centennial Land
 - 10m Contours
 - Drainage



ATTACHMENT 5: LIDSDALE SIDING

LOCATION: LIDSDALE	DATUM: GDA94	PROJECTION: MGA Zone 56
JOB NO.: Base Map	Data Sources: RPS Land and Property 2015	
PURPOSE: HERITAGE	Technician: Natalie Wood Date: 16/02/2017	

CLIENT: CENTENNIAL COAL		

RPS AUSTRALIA EAST PTY LTD (ABN 44 140 292 762)
 241 DENISON STREET BROADMEADOW PO BOX 428 HAMILTON NSW 2303
 T: 02 4940 4200 F: 02 4961 6794 www.rpsgroup.com.au



Attachment 6

Springvale Mine

Overview of Operations

Springvale Mine is an existing underground coal mine located approximately 15 kilometres to the northwest of Lithgow and approximately 120 kilometres west-northwest of Sydney. Underground coal mining commenced at Springvale Mine in 1995. The main components of Springvale Mine's operations are an underground longwall mine, accessed via the Springvale pit top, and supporting surface infrastructure within the pit top area and on Newnes Plateau within the Newnes State Forest. The key components of the Springvale surface facilities area comprise administration buildings, bathhouse, workshop, mine ventilation infrastructure and coal handling infrastructure.

Historic Consent Conditions

The Project Development Consent conditions are replicated below (Table 1) for SSD_5594. There are no historic heritage commitments within SSD_5594.

Table 1 - Springvale Mine Development Consent (SSD_5594)

The Applicant shall prepare and implement a Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:		
Condition No.	Consent Condition	Addressed in HHMP/Implemented
Schedule Condition 1	3 The Applicant shall ensure that the development does not cause any exceedances of the performances measures in Table 1, to the satisfaction of the Secretary.	Site specific measures of this Attachment identify an Extraction Plan will be prepared in accordance with Schedule 3 Condition 1. The Extraction Plan will be prepared to not exceed performance measures in Table 1 and approved by the Secretary.
Schedule Condition 7	3 The Applicant shall ensure that the development does not cause any exceedances of the performance measures in Table 1, to the satisfaction of the Secretary.	Site specific measures of this Attachment identify an Extraction Plan will be prepared in accordance with Schedule 3 Condition 1. The Extraction Plan will be prepared to not exceed performance measures in Table 1 and approved by the Secretary.
Schedule Condition 10(h)(vii)	3 Heritage Management Plan which has been prepared in consultation with OEH and relevant stakeholders for both Aboriginal and non-Aboriginal heritage, which provides for the management of potential environmental consequences of the proposed second workings on Aboriginal and non-Aboriginal heritage and includes all requirements under condition 24 of Schedule 4.	Site specific measures of this Attachment identify an Extraction Plan will be prepared in accordance with Schedule 3 Condition 1. The Extraction Plan will be prepared to not exceed performance measures in Table 1 and approved by the Secretary. A Heritage Management Plan will be prepared for the Extraction Plan in consultation with OEH and stakeholders for non-Aboriginal heritage. The Heritage Management Plan will meet the requirements of condition 24 (this Management Plan).

The Applicant shall prepare and implement a Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:

Condition No.	Consent Condition	Addressed in HHMP/Implemented
Schedule 4 Condition 24 (a)	be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary;	Endorsement of Tessa Boer-Mah of RPS to prepare the Historic Heritage Management Plans granted 2 November 2015.
Schedule 4 Condition 24 (b)	be prepared in consultation with OEH, Council and local Aboriginal stakeholders (in relation to management of Aboriginal heritage values);	Refer to the Attachment 8 consultation log for all relevant stakeholders in this HHMP. The consultation log attached to this HHMP identifies consultation with OEH, Lithgow City Council and Registered Aboriginal Parties.
Schedule 4 Condition 24 (c)	be submitted to the Secretary for approval within 6 months of the date of this consent, unless the Secretary agrees otherwise;	Attachment 8 consultation log identifies all relevant consultation undertaken for the HHMP.
Schedule 4 Condition 24 (d)	include a description of the measures that would be implemented for:	
	managing the discovery of human remains or previously unidentified heritage items on site; and	Section 6.7.2 Skeletal Remains of this HHMP identifies that the NSW Police will be called immediately in the event skeletal remains are uncovered. Section 6.7 Identification of Previously Unknown Aboriginal Cultural Heritage Sites in the Western Region Aboriginal Cultural Heritage Management Plan identifies NSW Police will be called immediately in the event skeletal remains are uncovered. In the event remains are identified as Aboriginal OEH will be notified.
	ensuring any workers on site receive suitable heritage inductions and that suitable records are kept of these inductions;	Section 7.2 Inductions of this HHMP - requires a heritage component and that a record be kept of inductions.

The Applicant shall prepare and implement a Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:

Condition No.	Consent Condition	Addressed in HHMP/Implemented
<p>Schedule 4 Condition 24 (e)</p>	<p>include the following for the management of non-Aboriginal heritage items: a description of the measures that would be implemented for:</p>	
	<p>protecting, monitoring and managing the heritage items in Table 1 (including any proposed archaeological investigations and/or salvage measures);</p>	<p>Section 6 Aboriginal Cultural Heritage, Monitoring and Management of the Western Region Aboriginal Cultural Heritage Management Plan identify measures for all Aboriginal cultural heritage sites.</p>
	<p>managing the discovery of previously unidentified cultural heritage items on site;</p>	<p>Section 6.7 Identification of Previously Unknown Aboriginal Cultural Heritage Sites in the Western Region Aboriginal Cultural Heritage Management Plan identifies the management of previously unidentified cultural heritage items.</p>
	<p>conserving the sites outside approved disturbance areas (see Appendix 6), including measures that would be implemented to secure, analyse and record any sites at risk of subsidence impacts;</p>	<p>Section 6.0 Aboriginal Cultural Heritage Identification, Monitoring and Management within the Western Regional Aboriginal Cultural Heritage Management Plan describe the measures for conserving the sites outside surface disturbance areas.</p>
	<p>Maintaining and managing reasonable access for Aboriginal stakeholders to heritage items on site;</p>	<p>Section 7.0 Access to Aboriginal Cultural Heritage within the Western Regional Aboriginal Cultural Heritage Management Plan provides for reasonable access for Aboriginal stakeholders to heritage items on site.</p>

The Applicant shall prepare and implement a Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:

Condition No.	Consent Condition	Addressed in HHMP/Implemented
	Ongoing consultation with the Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage on site; and	Section 5.3 Aboriginal Heritage Committee within the Western Regional Aboriginal Cultural Heritage Management Plan identifies the formal process for ongoing consultation with Aboriginal stakeholders, including conservation and management of Aboriginal cultural heritage on site.
Schedule 4 Condition 24 (e)	Include the following for the management of non-Aboriginal heritage items;	
	A description of measures that would be implemented for:	
	Protecting, monitoring and managing the heritage items identified in Appendix 6;	No non-Aboriginal heritage items are identified in Appendix 6. Sites within Springvale’s Mine lease boundaries are presented in this Appendix – Heritage Items within Springvale Mines leas boundaries.
Managing the discovery of previously unidentified cultural heritage items on site.	The management of discovery of previously unidentified cultural heritage items on site is identified in Section 6.4 Identification of previously unknown heritage sites or skeletal remains of this HHMP.	
<p>Note: This plan can be incorporated in a Regional Aboriginal Cultural Heritage Management Plan for Centennial’s other mines and mine infrastructure in the Lithgow Local Government Area.</p>		

Heritage Items within Springvale Lease Boundary

There are no heritage items in the Springvale Lease Boundary which are listed on the Commonwealth Heritage Register, on the NSW State Heritage Register (SHR), or the s170 registers (state owned items), as searched on 7 Jan 2016. There are no unlisted heritage items in the Springvale Lease Boundary.

There are three heritage items listed in the Lithgow City Council LEP Schedule 5 – Environmental Heritage in the Springvale Lease Boundary (Table 1 and 2, Figure 1). There is one unlisted heritage item which does not meet the criteria for local listing on the LEP, it is in the Springvale Lease Boundary, but not in Centennial land. There are no items (listed or unlisted) on Centennial land and there are no identified impacts to these items, they will be managed in accordance with the below.

A full description of these items is provided in Table 2.

Table 2 - Springvale Mine Summary of Heritage Searches

Heritage Items within Springvale Lease Boundary not on Centennial land			
Centennial Owned Land	Items	Address	Listing
No	Cottage and Stone Barn (Lidsdale)	10 Skelly Road Lot 2, DP 829137	LEP (I196)
No	The Cottage (Lidsdale)	Castlereagh Highway Lot 101, DP 829410	LEP (I191)
No	Wolgan Valley Railway (Newnes to Zig Zag)	Newnes	LEP (I245)
No	Springvale Tree	GDA 94, Zone 56 Easting 240216, Northing 6303317	Unlisted

Impact Assessment to items on Centennial Owned Land

There are no heritage items in Centennial land.

Impact Assessment and Management of Heritage Items not on Centennial Land

There are four heritage items in the Springvale Lease Boundary on land not owned by Centennial. The supporting documents for the Springvale EIS do not identify a risk of impact to these sites.

If surface works or additional impacts are identified to these items then a heritage impact statement will be prepared, refer to Section 4 of the Management Plan.

Table 3 - Springvale Mine Heritage Items

ITEM: Lidsdale Cottage and Stone Barn (I196)	No photo available
ADDRESS: 10 Skelly Rd	
LISTING: Lithgow LEP	
DESCRIPTION: No details available	
ITEM: Farmhouse (Lidsdale)	
ADDRESS: 1449 Castlereagh Highway Lot 101, DP 1145705	
LISTING: Lithgow LEP	
DESCRIPTION: No details available	
ITEM: The Cottage (Lidsdale) (I191)	No photo available
ADDRESS: Castlereagh Highway Lot 101, DP 829410	
LISTING: Lithgow LEP	
DESCRIPTION: No details available	
ITEM: Wolgan Valley Railway (Newnes to Zig Zag) (I245)	No photo available
ADDRESS: Newnes	
LISTING: Lithgow LEP	
DESCRIPTION: No details available	

Site Specific Measures

An Extraction Plan will be prepared in accordance with Schedule 3 Condition 1. The Extraction Plan will be prepared to not exceed performance measures in Table 1 and approved by the Secretary.

A Heritage Management Plan will be prepared for the Extraction Plan in consultation with OEHL and stakeholders for non-Aboriginal heritage. The Heritage Management Plan will meet the requirements of condition 24 (this Management Plan).

Attachment 7

Western Coal Services

Overview of Operations

The Western Coal Services operation comprises the haul roads between Angus Place Colliery and Mount Piper and Wallerawang Power Stations, an overland conveyor linking Springvale Coal Mine to the Wallerawang and Mt Piper Power Stations, a washery, coal storage and handling facilities and the Kerosene Vale Coal Stockpile Area.

Historic Heritage Commitments & Consent Conditions

The historic heritage consent conditions for SSD_5579 are presented in Table 1. There are no commitments for historic heritage management in SSD_5579.

Table 1 - Western Coal Services Development Consent (SSD_5579)

The Applicant shall prepare and implement a Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:		
Condition No.	Consent Condition	Addressed in HHMP/Implemented
Schedule 2 Condition 32 (a)	be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary;	Endorsement of Tessa Boer-Mah of RPS to prepare the Historic Heritage Management Plans granted 2 November 2015.
Schedule 4 Condition 24 (b)	be prepared in consultation with OEH, Council and local Aboriginal stakeholders (in relation to management of Aboriginal heritage values);	Attachment 8 consultation log for this HHMP includes the correspondence with all relevant stakeholders. Attachment 8 for the Western Region ACHMP identifies consultation with OEH, Lithgow City Council and Registered Aboriginal Parties.
Schedule 4 Condition 24 (c)	be submitted to the Secretary for approval within 6 months of the date of this consent, unless the Secretary agrees otherwise;	Attachment 8 of this HHMP identifies consultation undertaken for the HHMP. Attachment 8 of the Western Region Aboriginal Cultural Heritage Management Plan identifies consultation undertaken for the plan.

The Applicant shall prepare and implement a Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:

Condition No.	Consent Condition	Addressed in HHMP/Implemented
Schedule 4 Condition 24 (d)	include a description of the measures that would be implemented for:	
	addressing relevant statutory requirements under the <i>NSW National Parks and Wildlife Act 1974</i> ;	Section 2.2.2 <i>National Parks and Wildlife Act 1974</i> within the Western Region Aboriginal Cultural Heritage management Plans describes the regulatory requirements.
	Protecting, monitoring and managing sites outside the approved disturbance area including sites shown on the figure in Appendix 6, with particular attention to site 45-1-0218);	Section 6 Aboriginal Cultural Heritage, Monitoring and Management of the Western Region Aboriginal Cultural Heritage Management Plan identifies measures for all Aboriginal cultural heritage sites. Site Specific Measures in Attachment 6 Western Coal Services include 45-1-2018. Sections 6.1-6.2 Archival Recording and 6.7.2 Identification of previously unknown heritage sites of skeletal remains of this HHMP describe the measures for protecting, monitoring and managing heritage items presented in Attachment 7 of this HHMP.
	maintaining and managing reasonable access for Aboriginal stakeholders to cultural heritage items on site;	Section 7 Access to Aboriginal Cultural Heritage within the Western Regional Aboriginal Cultural Heritage Management Plan provides for reasonable access for Aboriginal stakeholders to heritage items on site.

The Applicant shall prepare and implement a Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:

Condition No.	Consent Condition	Addressed in HHMP/Implemented
	managing the discovery of human remains or previously unidentified heritage items on site; and	<p>Section 6.7.2 Skeletal Remains of this HHMP identifies that the NSW Police will be called immediately in the event skeletal remains are uncovered.</p> <p>Section 6.7 Identification of Previously Unknown Aboriginal Cultural Heritage Sites in the Western Region Aboriginal Cultural Heritage Management Plan identifies NSW Police will be called immediately in the event skeletal remains are uncovered. In the event remains are identified as Aboriginal OEH will be notified.</p>
	Ongoing consultation with local Aboriginal stakeholders the conservation and management of Aboriginal cultural heritage both on-site and in the Biodiversity Offset Strategy area; and	Section 5.3 Aboriginal Heritage Committee identifies the formal process for ongoing consultation with Aboriginal stakeholders, including conservation and management of Aboriginal cultural heritage on site.
	ensuring any workers on site receive suitable heritage inductions and that suitable records are kept of these inductions;	Section 7.2 of this HHMP identifies inductions to site will include heritage and records of the inductions will be kept.

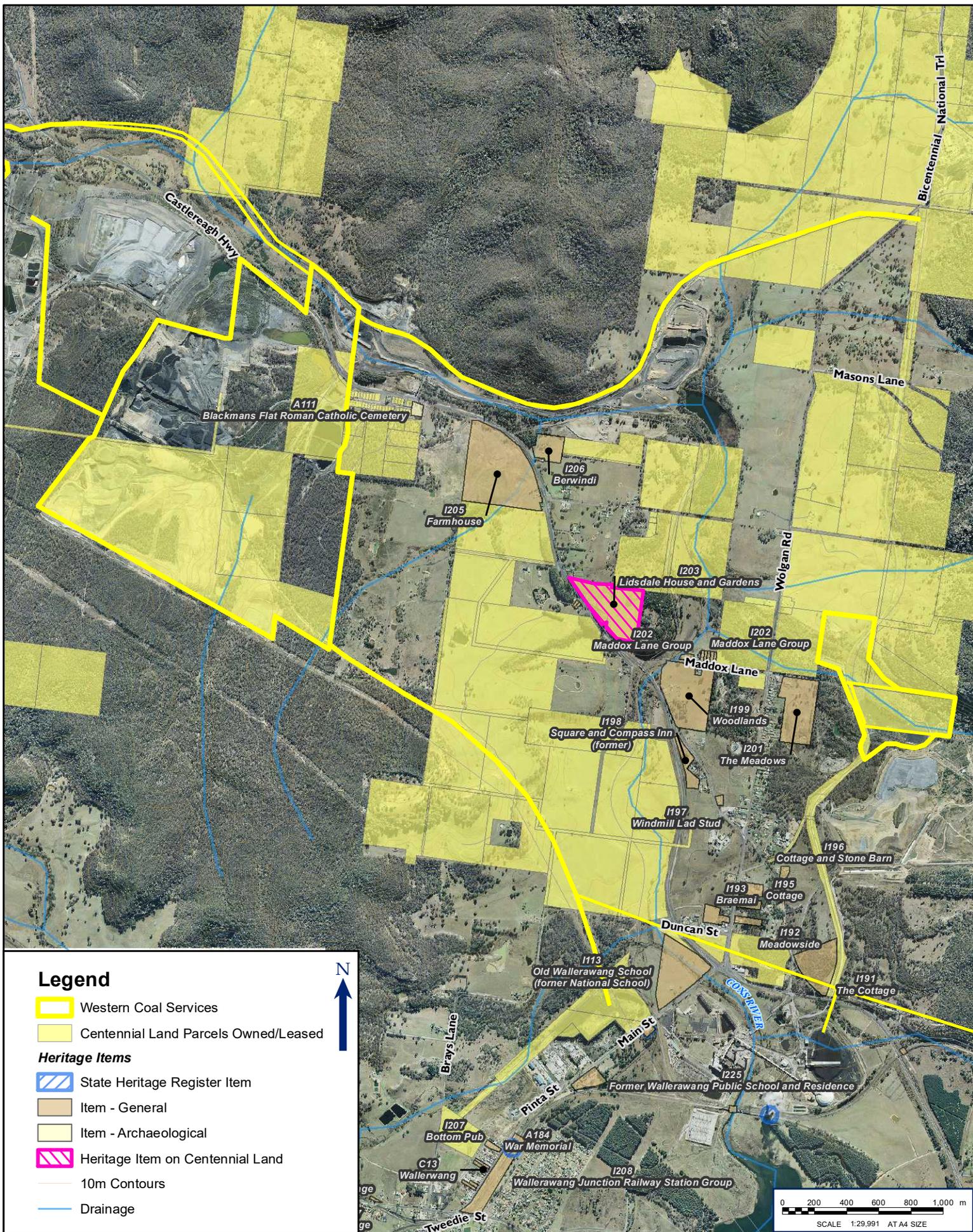
Heritage Items within Western Coal Services Lease Boundary

There are no heritage items or archaeological sites listed in the Lithgow City Council LEP Schedule 5 – Environmental Heritage which are in the Western Coal Services Lease Boundary.

There are no heritage items within the Western Coal Services Lease Boundary which are listed on which are listed on the Commonwealth Heritage Register, on the NSW State Heritage Register (SHR), or the s170 registers (state owned items), as searched on 19 August 2016. There are no unlisted heritage items in the Western Coal Services Boundary.

Impact Assessment

No heritage items are located on Centennial owned land and no heritage listed items exist within the Western Coal Services Lease Boundary. There is no identified impact to heritage listed items (Table 2).



ATTACHMENT 7: WESTERN COAL SERVICES PAA

LOCATION: COAL SERVICES	DATUM: GDA94
JOB NO.: PR 130153	PROJECTION: MGA Zone 56
PURPOSE: HERITAGE	Data Sources: RPS Land and Property 2015
Technician: Natalie Wood	Date: 16/02/2017

CLIENT: CENTENNIAL COAL

RPS AUSTRALIA EAST PTY LTD (ABN 44 140 292 762)
241 DENISON STREET BROADMEADOW PO BOX 428 HAMILTON NSW 2303
T: 02 4940 4200 F: 02 4961 6794 www.rpsgroup.com.au



Attachment 8

Consultation Log

Table 1 – Consultation Log

Consultation Log Date	Description of Consultation
2 November 2015	Letter to NSW Department of Planning and Environment (DPE) seeking endorsement of consultant to prepare HHMP.
2 November 2015	Letter from NSW DPE approving consultant to prepare HHMP.
19 February 2016	Letter to the Office of Environment and Heritage (OEH) seeking feedback on the HHMP.
22 February 2016	Letter to Lithgow City Council (LCC) seeking feedback on the HHMP.
3 March 2016	Letter from LCC indicating they are satisfied with the content of HHMP.
18 March 2016	Letter from OEH providing comment on the HHMP, specifically the relationship to the Western Region Aboriginal Cultural Heritage Management Plan, confirmation of a stages approach to the HHMP and delineation of lease area and impact areas.
24 March 2016	Letter to DPE seeking approval of the HHMP.
8 July 2016	Revised final draft submitted to DPE for approval.
22 July 2016	Letter from DPE approving HHMP.
21 February 2017	Letter to OEH, LCC, Mid-Western Regional Council and Rylstone and District Historical Society Inc seeking feedback on the revised HHMP.
3 March 2017	Letter from LCC indicating they are satisfied with the content of HHMP.
31 March 2017	Revised draft HHMP submitted to DPE for approval.
11 July 2017	Email from DPE comments revised draft HHMP.
24 July 2017	Revised draft HHMP submitted to DPE for approval.
15 June 2018	Email from DPE providing comment on submitted draft Management Plan.
25 June 2018	Email to DPE seeking approval of the final draft HHMP.

Attachment 8A

Consultation Comments



Table 1 – Consultation Comments

Description of Consultation	How Addressed in Management Plan
Letter from NSW Office of Environment and Heritage 18 March 2016	
<p>Scope of Historic Heritage Management Plan – Regional Historic Heritage Management Plan at time of review only included Springvale Mine.</p> <p>Three items within the Springvale boundary listed within the Local Environmental Plan are not listed. A Heritage Impact is requested for the three items.</p>	<p>Revised Historic Heritage Management Plan document includes Airly, Angus Place, Charbon, Clarence, Lidsdale Siding and Western Coal Services operations.</p> <p>This Historic Heritage Management Plan has been developed to include the mining tenements for Springvale Mine. Springvale Mine SSD_5594 development consent boundary is less than the mining tenements. The three items listed are within the mining tenements of Springvale mine but outside of Springvale Mine SSD_5594 development consent.</p>
Email from the Department of Planning and Environment 10 July 2017	
<p>Conditions</p> <p>Management Plan missing a number of conditions; Airly Mine SSD_5581 Schedule 3 Condition 2 and Schedule 3 Condition 7(vi), Airly Mine DA 162/91 Schedule 2 Condition 19(b), and Springvale Mine SSD_5594 Schedule 3 Condition 1 and Schedule 3 Condition 10h(vii).</p> <p>Consultation</p> <p>Provide copies of the latest consultation letters in an Appendix with the Consultation Log and a table showing how issues raised by agencies have been resolved.</p> <p>General</p> <p>Remove references to such language as ‘may’, ‘where</p>	<p>Attachment 1 Airly Mine has been updated to include reference to SSD_5581 Schedule 3 Condition 2, Schedule 3 Condition 7(vi). Reference has been removed to Airly Mine DA 162/91.</p> <p>This Attachment 8B identifies content of consultation letters presented in Attachment 8 Consultation log and how addressed.</p> <p>Where appropriate language may’,</p>

Description of Consultation	How Addressed in Management Plan
<p>possible' & 'should' and replace with 'will' and 'would'.</p> <p>Incorrect References</p> <p>Some references to Sections included in Attachment 4 Table 1 and Attachment 7 Table 1 are incorrect.</p> <p>Numbering of Clarence Colliery Development Consent Condition 30, Schedule 3 is incorrect.</p> <p>Some conditions included in Attachment 5 Table 1 are numbered incorrectly.</p>	<p>'where possible' & 'should' have been replaced with 'will' and 'would'.</p> <p>Where appropriate references to the Western Region Aboriginal Cultural Heritage Management Plan have been removed.</p> <p>The numbering of Clarence Colliery Development Consent conditions have been reviewed. The current numbering of the Table commencing 30(d) is correct.</p> <p>Attachment 5 Table 1 conditions of consent have been reviewed.</p>
<p>Email from the Department of Planning and Environment 15 June 2018</p>	
<p>Section 6.3</p> <p>word 'immediately' – consider practicality of this commitment (should this replaced with as soon as practicable) and also the need for ongoing monitoring during/post subsidence settlement.</p> <p>Include further description of monitoring, inspections and surveys</p>	<p>Section 6.3 has been updated to change immediately to within 3 months.</p> <p>Section 6.3 has generally been updated to be consistent with the Centennial Coal Northern Region Historic Heritage Management Plan.</p>
<p>General Comment – Avoid using passive language (Example is 6.2). Supplement various sections throughout the MP with a clear statement that Centennial will implement (X or Y).</p>	<p>Section 6.2 and the document have been reviewed to identify and change passive language.</p>
<p>Confirm that EIS commitments associated with Historic Heritage include monitoring only.</p>	<p>Site specific appendices identify Statement of Commitments where made during the EIS processes. Commitments have been made by Airly and Springvale:</p> <p>Airly – monitoring of historic heritage items during mining, consistency with the Mugii Murum-ban State</p>

Description of Consultation	How Addressed in Management Plan
	<p>Conservation Area Plan of Management and response to identification of skeletal remains.</p> <p>Lidsdale Siding – monitoring of St Johns Church has been completed.</p>
