Project Approval

Section 75J of the Environmental Planning and Assessment Act 1979

I approve the project application referred to in schedule 1, subject to the conditions in schedules 2 to 5.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- · require regular monitoring and reporting; and
- provide for the ongoing environmental management of the project.

Red type represents the November 2008 modification (MOD 1)

Blue type represents the December 2008 modification (MOD 2)

Green type represents the June 2009 modification (MOD 4)

Purple type represents the October 2009 modification (MOD 5)

Orange type represents the January 2010 modification (MOD 6)

Pink type represents the May 2010 modification (MOD 8)

Violet text represents the January 2011 modification (MOD 7)

Aqua text represents the June 2014 modification (MOD 9)

Maroon text represents the January 2015 modification (MOD3)

Olive green type represents the April 2015 modification (MOD 10)

Brown type represents the July 2015 modification (MOD 11)

Light green type represents the February 2016 modification (MOD 12)

Gold type represents the December 2016 Modification (MOD 13)

Grey type represents the June 2019 Modification (MOD 14)

Dark orange type represents the June 2020 modification (MOD 15)

Frank Sartor MP **Minister for Planning**

SIGNED 6 SEPTEMBER 2007

Sydney 2007

SCHEDULE 1

Application Number: 05_0117

Proponent: Moolarben Coal Mines Pty Limited

Approval Authority: Minister for Planning

Land: See Appendix 1

Project: Moolarben Coal Project Stage 1

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DEFINITIONS

Annual review

The review required by condition 4 of Schedule 5

ANZECC Guidelines

Australian and New Zealand Guidelines for Fresh and Marine Water Quality

ARTC BCA

Australian Rail Track Corporation Ltd Building Code of Australia

BC Act

Biodiversity Conservation Act 2016

BCD

Biodiversity and Conservation Division, within the Department

BCT Blast misfires **NSW Biodiversity Conservation Trust** The failure of one or more holes in a blast pattern to initiate

Built features

Includes any building or work erected or constructed on land, and includes dwellings and infrastructure such as any formed road, street, path, walk, or driveway; any pipeline, water, sewer, telephone, gas or other service main

CCC

Community Consultative Committee Conditions contained in Schedules 2 to 5 inclusive

Conditions of this approval Council

Mid-Western Regional Council

CPI DAWE Australian Bureau of Statistics Consumer Price Index

Department of Planning, Industry and Environment

Commonwealth Department of Agriculture, Water and the Environment

Day

The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on

Department

Sundays and Public Holidays

DoE DPI

Department of Education

DPIE Water

Department of Primary Industries Water Group, within the Department

EA

The Moolarben Coal Project Environmental Assessment, Volumes 1-5, dated September 2006, as modified by the:

- Preferred Project Report dated December 2006 and associated response to submissions:
- Application to Make Modifications to the Project Approval for the Moolarben Coal Project, dated August 2008 (MOD 1);
- Environmental Assessment Section 75W Modification Application, dated December 2008 (MOD 2);
- Relevant aspects of the Environmental Assessment for Stage 2 of the Moolarben Coal Project, dated March 2009, and associated environmental assessment (MOD 3);
- Documentation in Support of the Balloon Loop Modification, dated April 2009 (MOD 4):
- Environmental Assessment Section 75W Modification Application, dated July 2009, associated response to submissions dated August 2009, and supplementary information dated September 2009 (MOD 5);
- Environmental Assessment Section 75W Modification Application, prepared by Coffey Natural Systems and dated December 2009 (MOD 6):
- Environmental Assessment Section 75W Modification Application, dated March 2010, and associated response to submissions dated June 2010, and supplementary information dated 2 November 2010 and 6 December 2010 (MOD 7);
- Environmental Assessment Section 75W Modification Application, dated April 2010 (MOD 8);
- Environmental Assessment for the Moolarben Coal Project Stage 1 Optimisation Modification, dated May 2013, associated response to submissions dated September 2013, and supplementary information dated 2 October 2013, 14 October 2013 and 15 October 2013 (MOD 9);
- Modification Application 05_0117 MOD 10 and accompanying letters dated 24 February 2015 and 17 March 2015 (MOD 10);
- OC4 South West Modification Environmental Assessment, dated April 2015 and associated response to submission dated June 2015 (MOD 11);
- UG1 Optimisation Modification Environmental Assessment, dated June 2015 and associated response to submissions dated September 2015 (MOD 12);
- Modification Application 05_0117 MOD 13 and accompanying letter dated 24 November 2016:
- Environmental Assessment Open Cut Optimisation Modification, Volumes 1 and 2, dated November 2017 and associated response to submissions dated May 2018; and supplementary information dated 24 August 2018 (MOD 14): and
- Modification Report Moolarben Coal Complex UG4 Ancillary Works Modification, dated 1 October 2019, associated Submissions Report dated November 2019, Supplementary Submissions Report dated November 2019 and supplementary information dated 9 March 2020 (MOD 15).

EEC Endangered ecological community, as defined under the BC Act

EPA Environment Protection Authority

EP&A Act Environmental Planning and Assessment Act 1979 **EP&A Regulation** Environmental Planning and Assessment Regulation 2000

Commonwealth Environment Protection and Biodiversity Conservation Act 1999 **EPBC** Act

EPL Environment Protection Licence under the POEO Act Evening is defined as the period from 6pm to 10pm Evenina

Feasible relates to the engineering coordinates and what is practical to build or Feasible

An item as defined under the *Heritage Act 1977* and/or an Aboriginal Object or Heritage Item

Aboriginal Place as defined under the National Parks and Wildlife Act 1974

A set of circumstances that: Incident

causes, or threatens to cause, material harm to the environment; and/or

breaches or exceeds the limits or performance measures/criteria in this

As defined in the EP&A Act, except for where the term is used in the noise and Land air quality conditions in Schedules 3 and 5 of this approval where it is defined to mean the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this approval

Actual or potential harm to the health or safety of human beings or to ecosystems

that is not trivial.

Material harm to the environment

Minister

NP&W Act

Rehabilitation

Regional NSW - Mining, Exploration and Geoscience **MEG** Mine water

Water that accumulates within, or drains from active mining and infrastructure

areas (synonymous with dirty water)

Mining operations Includes the removal and emplacement of overburden, and extraction,

processing, handling, storage and transport of coal on site Minister for Planning and Public Spaces, or delegate

Minor Not very large, important or serious

Mitigation Activities associated with reducing the impacts of the project

Moolarben mine complex The combined operations of the Moolarben Stage 1 and Stage 2 mines Moolarben Stage 1 mine

The approved mining operations and associated development enclosed within the blue dashed line on the figure in Appendix 2.

Moolarben Stage 1 mine

The approved surface infrastructure area, including the coal handling and surface infrastructure area preparation plant and the rail loop, as shown on the figures in Appendix 2 Moolarben Stage 2 mine The approved mining operations and associated development enclosed within

the yellow dashed line on the figure in Appendix 2.

Mtpa Million tonnes per annum

Negligible Small and unimportant, such as to be not worth considering

Night The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on

Sundays and Public Holidays National Parks & Wildlife Act 1974

NRAR Natural Resources Access Regulator

POEO Act Protection of the Environment Operations Act 1997 Privately-owned land Land that is not owned by a public agency, or a mining company (or its subsidiary)

The development as described in the EA, and adequately modified by other EAs **Project** Proponent Moolarben Coal Mines Pty Limited, or any other person or persons who rely on this approval to carry out the development that is subject to this approval

Public Infrastructure Linear and related infrastructure that provides services to the general public, such

as roads, railways, water supply, drainage, sewerage, gas supply, electricity,

telephone, telecommunications, etc.

Reasonable Reasonable relates to the application of judgement in arriving at a decision, taking

into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements

The restoration of land disturbed by the project to a good condition, and ensure

it is safe, stable and non-polluting

Resources Regulator NSW Resources Regulator within the Department of Regional NSW

Rural Fire Service **RFS** ROM Run-of-mine

Secretary Secretary of the Department, or nominee Site The land referred to in Appendix 1

Statement of The Proponent's commitments in Appendix 3 commitments

TfNSW Transport for NSW

Ulan Road Strategy The strategy prepared by the Arrb Group Limited, dated December 2011 as

amended by the Director-General's letter dated 25 May 2013

VPA Voluntary planning agreement under the EP&A Act

NSW Government

4

SCHEDULE 2 ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

1. In addition to meeting the specific performance criteria established under this approval, the Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the project.

TERMS OF APPROVAL

- 2. The Proponent shall carry out the project:
 - (a) generally in accordance with the EA; and
 - (b) in accordance with the statement of commitments and the conditions of this approval.

Notes:

- The general layout of the project is shown in Appendix 2; and
- The statement of commitments is shown in Appendix 3.
- 3. If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.
- 4. The proponent shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:
 - (a) any reports, plans, programs, strategies, reviews, audits or correspondence that are submitted in accordance with this approval;
 - (b) any reports, reviews or audits commissioned by the Department regarding compliance with this approval;
 - (c) the implementation of any actions or measures contained in these documents

LIMITS ON APPROVAL

Mining Operations

5. The Proponent may carry out mining operations on the site until 31 December 2038.

Note: Under this approval, the Proponent is required to rehabilitate the site and perform additional undertakings to the satisfaction of both the Secretary and Resources Regulator. Consequently, this approval will continue to apply in all other respects other than the right to conduct mining operations until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.

Longwall Sequencing

- 5A. The Proponent shall ensure longwall mining of panels LW9 to LW14 (as marked in figure 7.1 of Appendix 7):
 - (a) does not commence until LW1-LW8 have been completed; and
 - (b) progresses in the sequence numbered, i.e. panel LW9 is to be completed first and panel LW14 is to be completed last.

Note: The Proponent is also required to satisfy the requirements of condition 78A of Schedule 3.

Coal Extraction

- 6. The Proponent shall not extract more than:
 - (a) 10 million tonnes of ROM coal from the open-cut mining operations of the project in any calendar year except 2015 and 2016;
 - (b) 9 million tonnes of ROM coal from the open-cut mining operations of the project in the calendar years 2015 and 2016; and
 - (c) 8 million tonnes total of ROM coal from the underground mining operations of the project in any calendar year.

Coal Handling and Processing

- 7. The Proponent shall not:
 - (a) wash more than 16 million tonnes of coal at the coal handling and preparation plant on site in any calendar year, except in the year 2017;
 - (b) handle a total of more than 16 million tonnes of ROM coal on site that have been extracted from the open cut mining operations at the Moolarben Coal Complex in any calendar year; and
 - (c) handle a total of more than 8 million tonnes of ROM coal on site that have been extracted from the underground mining operations at the Moolarben mine complex in any calendar year.

7A. In the 2017 calendar year, the Proponent may wash up to 13.5 million tonnes of coal at the coal handling and preparation plant.

Coal Transport

- 8. The Proponent shall ensure that:
 - (a) all product coal is transported from the site by rail; and
 - (b) no more than 8 laden trains leave the site each day on average when calculated over any calendar vear:
 - (c) no more than 11 laden trains leave the site each day; and
 - (d) no more than 22 million tonnes are transported from the site in any calendar year.

STRUCTURAL ADEQUACY

9. The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

Notes:

- Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works.
- Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.

DEMOLITION

10. The Proponent shall ensure that all demolition work is carried out in accordance with *Australian Standard AS 2601-2001: The Demolition of Structures*, or its latest version.

PROTECTION OF PUBLIC INFRASTRUCTURE

- 11. Unless the Proponent and the applicable authority agree otherwise, the Proponent shall:
 - (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project; and
 - (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the project.

Note: This condition does not apply to any damage to public infrastructure subject to compensation payable under the Mine Subsidence Compensation Act 1961, or to damage to roads caused as a result of general road usage.

OPERATION OF PLANT AND EQUIPMENT

- 12. The Proponent shall ensure that all plant and equipment used at the site, or in connection with the project, is:
 - (a) maintained in a proper and efficient condition; and
 - (b) operated in a proper and efficient manner.

STAGED SUBMISSION OF STRATEGIES, PLANS OR PROGRAMS

- 13. With the approval of the Secretary, the Proponent may:
 - (a) submit any strategy, plan or program required by this approval on a progressive basis; and
 - (b) combine any strategy, plan, program, review, audit or report required by this approval with any similar strategy, plan, program, review, audit or report required under Project Approval 08_0135 for the Moolarben Coal Project Stage 2.

Notes:

- While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that
 the existing operations on site are covered by suitable strategies, plans or programs at all times; and
- If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.
- 13A. With the agreement of the Secretary, the Proponent may prepare a revision of or a stage of a strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this consent.

VOLUNTARY PLANNING AGREEMENT

- 14. Within 12 months of this approval, the Proponent shall enter into a planning agreement with Council in accordance with:
 - (a) Division 6 of Part 4 of the EP&A Act: and
 - (b) the terms of the Proponent's offer to the Minister on 4 September 2007, which includes the matters set out in Appendix 4.

SCHEDULE 3

ENVIRONMENTAL CONDITIONS - GENERAL

NOISE

Noise Criteria

Acquisition Upon Request

1A. (deleted)

Note: The Proponent has acquired all properties provided acquisition rights under this approval.

Transitional Acquisition and Mitigation Arrangements

1B. (deleted)

1. The Proponent shall ensure that the noise generated by the Moolarben mine complex does not exceed the noise criteria in Table 1 at any residence on privately-owned land or the other specified locations.

Table 1: Noise criteria dB(A)

Land Number	Day	Evening	Night	
Land Number	L _{Aeq(15min)}	L _{Aeq(15min)}	LAeq(15min)	L _{A1(1min)}
70	37	37	37	45
75	36	36	36	45
All other privately owned residences	35	35	35	45
Ulan Primary School	35 (internal) when in use		-	
Ulan Anglican Church	35 (internal) when in use			-
Goulburn River National Park Munghorn Gap Nature Reserve		50 when in use		-

Note: To interpret the land referred to in Table 1 see the applicable figures in Appendix 5.

Noise generated by the Moolarben mine complex is to be measured in accordance with the relevant requirements of the NSW Noise Policy for Industry. Appendix 6 sets out the meteorological conditions under which these criteria apply, and the requirements for evaluating compliance with these criteria.

However, these noise criteria do not apply if the Proponent has an agreement with the owner/s of the relevant residence or land to generate higher noise levels, and the Proponent has advised the Department in writing of the terms of this agreement.

Land Acquisition Criteria

2. If the noise generated by the Moolarben mine complex exceeds the criteria in Table 2A, then upon receiving a written request for acquisition from an owner of the land listed in Table 2A, the Proponent shall acquire the land in accordance with the procedures in conditions 10 and 11 of Schedule 4.

Table 2A: Acquisition criteria dB(A) L_{Aeq (15min)}

Receiver ID	Day	Evening	Night
	(L _{Aeq (15min)})	(L _{Aeq (15min)})	(L _{Aeq (15min)})
All other privately-owned residences	40	40	40

Note: To interpret the land referred to Table 2A, see the applicable figures in Appendix 5.

3. If the noise generated by the Moolarben mine complex contributes to exceedances of the relevant criteria in Table 2 on more than 25% of any privately-owned land (and a dwelling could be built on that land under existing planning controls), the Proponent shall, upon receiving a written request for acquisition from the landowner, acquire the land in accordance with the procedures in conditions 10-11 of Schedule 4.

Table 2: Land acquisition criteria

Day/Evening/Night	Receiver
LAeq(period)	
55/50/45	All privately-owned land

Note: Noise generated by the complex is to be measured in accordance with the relevant requirements of the NSW Noise Policy for Industry. Appendix 6 sets out the meteorological conditions under which these criteria apply, and the requirements for evaluating compliance with these criteria.

However, these noise criteria do not apply if the Proponent has an agreement with the owner/s of the relevant residence or land to generate higher noise levels, and the Proponent has advised the Department in writing of the terms of this agreement.

Noise Mitigation Criteria

4. If the noise generated by the Moolarben mine complex exceeds the criteria in Table 3A, then upon receiving a written request the Proponent shall implement additional noise mitigation measures (such as double-glazing, insulation and/or air conditioning) at the residence in consultation with the landowner. These measures must be reasonable and feasible, and directed towards reducing the noise impacts of the project on the residence.

If within 3 months of receiving this request from the owner, the Proponent and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution.

Table 3A: Mitigation criteria dB(A) LAeg (15min)

Receiver ID	Day	Evening	Night
	(LAeq (period))	(L _{Aeq (15min)})	(LAeq (15min))
All privately owned residences other than those in Table 3	37	37	37

Note: To interpret the land referred to Table 3A, see the applicable figures in Appendix 5.

Mitigation Upon Request

5. (deleted)

Note: The Proponent has acquired all properties provided mitigation upon request rights under this approval.

Operating Conditions

- 6. The Proponent shall:
 - (a) implement best management practice to minimise the operational, road and rail noise of the project;
 - (b) operate a comprehensive noise management system on site that uses a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations, and the implementation of both proactive and reactive noise mitigation measures to ensure compliance with the relevant conditions of this approval;
 - (c) minimise the noise impacts of the project during meteorological conditions when the noise limits in this approval do not apply (see Appendix 6);
 - (d) only use locomotives and rolling stock that are approved to operate on the NSW rail network in accordance with the noise limits in ARTC's EPL;
 - (e) co-ordinate noise management with the noise management at Ulan and Wilpinjong mines to minimise cumulative noise impacts: and
 - (f) carry out regular monitoring to determine whether the project is complying with the relevant conditions of this approval,

to the satisfaction of the Secretary.

Noise Management Plan

- 7. The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with the EPA and be submitted to the Secretary for approval by 31 March 2015;
 - (b) describe the measures that would be implemented to ensure compliance with the noise criteria and operating conditions in this approval;
 - (c) describe the proposed noise management system in detail;
 - (d) include a monitoring program that:
 - uses attended noise monitoring to evaluate compliance of the project against the noise criteria in this approval;
 - includes a program to calibrate and validate the real-time noise monitoring results with the attended monitoring results over time (so the real-time noise monitoring program can be used

as a better indicator of compliance with the noise criteria in this approval and trigger for further attended monitoring);

- evaluates and reports on:
 - the effectiveness of the noise management system; and
 - compliance against the noise operating conditions; and
- defines what constitutes a noise incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any noise incidents.

BLASTING

Blasting Criteria

8. The Proponent shall ensure that the blasting on the Moolarben mine complex does not cause exceedances of the criteria in Table 4.

Table 4: Blasting criteria

Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance
Residence on privately owned	120	10	0%
land, churches and schools	115	5	5% of the total number of blasts over a period of 12 months
All public infrastructure	-	(or a limit determined by the structural design methodology in AS 2187.2-2006, or its latest version, or other alternative limit for public infrastructure, to the satisfaction of the Secretary)	0%

However, these criteria do not apply if the Proponent has a written agreement with the relevant owner, and has advised the Department in writing of the terms of this agreement.

Blasting Hours

9. The Proponent shall only carry out blasting on the site between 9am and 5pm Monday to Saturday inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the Secretary.

Blasting Frequency

- 10. The Proponent may carry out a maximum of:
 - (a) 2 blasts a day; and
 - (b) 9 blasts a week, averaged over a calendar year,

at the Moolarben mine complex.

This condition does not apply to blasts that generate ground vibration of 0.5 mm/s or less at any residence on privately-owned land, blasts misfires or blasts required to ensure the safety of the mine or its workers.

Note: For the purposes of this condition, a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the mine.

Property Inspections

- 11. If the Proponent receives a written request from the owner of any privately-owned land within 2 kilometres of any approved open cut mining pit on site for a property inspection to establish the baseline condition of any buildings and/or structures on his/her land, or to have a previous property inspection updated, then within 2 months of receiving this request the Proponent shall:
 - (a) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to:
 - establish the baseline condition of any buildings and other structures on the land, or update the previous property inspection report; and
 - identify measures that should be implemented to minimise the potential blasting impacts of the project on these buildings and/or structures; and
 - (b) give the landowner a copy of the new or updated property inspection report.

If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Proponent or the landowner disagrees with the findings of the property inspection report, either party may refer the matter to the Secretary for resolution.

Property Investigations

- 12. If the owner of any privately-owned land claims that buildings and/or structures on his/her land have been damaged as a result of blasting on the site, then within 2 months of receiving this claim the Proponent shall:
 - (a) commission a suitably qualified, experienced and independent person, whose appointment is acceptable to both parties to investigate the claim; and
 - (b) give the landowner a copy of the property investigation report.

If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall repair the damage to the satisfaction of the Secretary.

If there is a dispute over the selection of the suitably qualified, experienced and independent person, or the Proponent or the landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Secretary for resolution.

Operating Conditions

- 13. The Proponent shall:
 - (a) implement best practice blasting management to:
 - protect the safety of people and livestock in the surrounding area;
 - protect public or private infrastructure/property in the surrounding area from any damage; and
 - minimise the dust and fume emissions of any blasting;
 - (b) operate a suitable system to enable the public to get up-to-date information on the proposed blasting Schedule on site; and
 - (c) co-ordinate the timing of blasting on site with the timing of blasting at the Ulan and Wilpinjong mines to minimise cumulative blasting impacts,

to the satisfaction of the Secretary.

- 14. The Proponent shall not undertake blasting on site within 500 metres of:
 - (a) any public road;
 - (b) the Gulgong to Sandy Hollow Railway Line;
 - (c) the Wollar-Wellington 330kV Transmission Line; or
 - (d) any land outside the site not owned by the Proponent,

unless the Proponent has:

- demonstrated to the satisfaction of the Secretary that the blasting can be carried out closer to
 the infrastructure or land without compromising the safety of people or livestock or damaging
 the infrastructure and/or other buildings and structures; and
- updated the Blast Management Plan to include the specific measures that would be implemented while blasting is being carried out within 500 metres of the infrastructure or land; or
- a written agreement with the relevant infrastructure owner or landowner to allow blasting to be carried out closer to the infrastructure or land, and the Proponent has advised the Department in writing of the terms of this agreement.

Blast Management Plan

- 15. The Proponent shall prepare and implement a Blast Management Plan for the project prior to undertaking any blasting on site to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with the EPA and be submitted to the Secretary for approval by 31 March 2015:
 - (b) describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this approval;
 - (c) propose and justify any alternative ground vibration limits for public infrastructure in the vicinity of the site (if relevant); and
 - (d) include a monitoring program for evaluating compliance with the blasting criteria and operating conditions of this approval.

AIR QUALITY

Odour

16. The Proponent shall ensure that no offensive odours, as defined under the POEO Act, are emitted from the site.

Air Quality Criteria

17. The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the Moolarben mine complex do not cause exceedances of the criteria listed in Tables 5, 6 and 7 at any residence on privately owned land.

Table 5: Long term impact assessment criteria for particulate matter

Pollutant	Averaging period	^d Criterion
Total suspended particulate (TSP) matter	Annual	^a 90 μg/m ³
Particulate matter < 10 µm (PM ₁₀)	Annual	^{a, d} 25 μg/m ³
Particulate Matter <2.5 µm (PM2.5)	Annual	^{а, d} 8 µg/m3

Table 6: Short term impact assessment criterion for particulate matter

Pollutant	Averaging period	^d Criterion
Particulate matter < 10 µm (PM ₁₀)	24 hour	^a 50 μg/m ³
Particulate Matter <2.5 µm (PM _{2.5})	24 hour	^b 25 μg/m ³

Table 7: Long term impact assessment criteria for deposited dust

Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level
^c Deposited dust	Annual	^b 2 g/m ² /month	^a 4 g/m ² /month

Notes to Tables 5-7:

Mine-owned Land

- 18. The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the Moolarben mine complex do not cause exceedances of the criteria listed in Tables 8, 9 and 10 at any occupied residence on mine-owned land (including land owned by another mine) unless:
 - (a) the tenant and landowner has been notified of any health risks associated with such exceedances in accordance with the notification requirements under Schedule 4 of this approval;
 - (b) the tenant of any land owned by the Proponent can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice, and the Proponent uses its best endeavours to provide assistance with relocation and sourcing of alternative accommodation;
 - (c) air mitigation measures such as air filters, a first flush roof water drainage system and/or air conditioning) are installed at the residence, if requested by the tenant and landowner (if the residences is owned by another mine);
 - (d) particulate matter air quality monitoring is regularly undertaken to inform the tenant and landowner of the actual particulate emissions; and
 - (e) data from this monitoring is presented to the tenant in an appropriate format, for a medical practitioner to assist the tenant in making informed decisions on the health risks associated with occupying the property.

to the satisfaction of the Secretary.

Air Quality Acquisition Criteria

19. If particulate matter emissions generated by the Moolarben mine complex exceed the incremental criteria, or contribute to an exceedance of the relevant cumulative criteria, in Tables 8, 9 and 10 at any residence on privately-owned land or on more than 25% of any privately-owned land (and a dwelling could be built on that land under existing planning controls), then upon receiving a written request for acquisition from the landowner, the Proponent shall acquire the land in accordance with the procedures in conditions 10-11 of Schedule 4.

Table 8: Long term land acquisition criteria for particulate matter

^a Cumulative (i.e. incremental increase in concentrations due to the Moolarben mine complex plus background concentrations due to all other sources);

b Incremental impact (i.e. incremental increase in concentrations due to the Moolarben mine complex on its own) with up to 5 allowable exceedances over the life of the project;

^C Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method; and

^d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents, **illegal activities** or any other activity agreed by the Secretary.

Pollutant	Averaging period	^d Criterion
Total suspended particulate (TSP) matter	Annual	^а 90 µg/m ³
Particulate matter < 10 µm (PM ₁₀)	Annual	^{a, d} 25 μg/m ³
Particulate Matter <2.5 µm (PM _{2.5})	Annual	^{а, d} 8 µg/m ³

Table 9: Short term land acquisition criteria for particulate matter

Pollutant	Averaging period	^d Criterion	Basis
Particulate matter < 10 µm (PM ₁₀)	24 hour	^b 50 μg/m ³	Increment ^b
Particulate Matter <2.5 µm (PM _{2.5})	24 hour	^b 25 μg/m ³	Increment b

Table 10: Long term land acquisition criteria for deposited dust

Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level
^c Deposited dust	Annual	^b 2 g/m ² /month	^a 4 g/m ² /month

Notes to Tables 8-10:

- ^a Cumulative (i.e. incremental increase in concentrations due to the Moolarben mine complex plus background concentrations due to all other sources);
- ^b Incremental impact (i.e. incremental increase in concentrations due to the Moolarben mine complex on its own) with up to 5 allowable exceedances over the life of the project
- ^C Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air Determination of Particulate Matter Deposited Matter Gravimetric Method; and
- ^d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents, **illegal activities** or any other activity agreed by the Secretary.

Operating Conditions

- 20. The Proponent shall:
 - (a) implement best management practice to minimise the off-site odour, fume and particulate matter (including PM₁₀ and PM_{2.5}) emissions of the project;
 - (b) implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site;
 - (c) minimise any visible off-site air pollution generated by the project;
 - (d) minimise the surface disturbance of the site;
 - (e) operate a comprehensive air quality management system that uses a combination of predictive meteorological forecasting and real-time air quality monitoring data to guide the day to day planning of mining operations and the implementation of both proactive and reactive air quality mitigation measures to ensure compliance with the relevant conditions of this approval;
 - (f) minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see Note d under Table 9); and
 - (g) co-ordinate the air quality management on site with the air quality management at the Ulan and Wilpinjong mines to minimise cumulative air quality impacts,

to the satisfaction of the Secretary.

Air Quality Management Plan

- 20A. The Proponent shall prepare and implement an Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with the EPA and be submitted to the Secretary for approval by 31 March 2015:
 - (b) describe the measures that would be implemented to ensure compliance with the relevant air quality criteria and operating conditions of this approval:
 - (c) describe the air quality management system;
 - (d) include an air quality monitoring program that:
 - uses a combination of real-time and supplementary monitors, including a real-time PM_{2.5}
 monitor, to evaluate the performance of the project against the air quality criteria in this
 approval;
 - adequately supports the air quality management system;
 - evaluates and reports on the:
 - the effectiveness of the air quality management system; and
 - compliance against the air quality operating conditions;
 - defines what constitutes an air quality incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any air quality incidents.

METEOROLOGICAL MONITORING

- 20B. For the life of the project, the Proponent shall ensure that there is a meteorological station in the vicinity of the site that:
 - (a) complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and
 - (b) is capable of continuous real-time measurement of temperature lapse rate in accordance with the NSW Noise Policy for Industry unless a suitable alternative is approved by the Secretary following consultation with the EPA.

ULAN PUBLIC SCHOOL

- 20C. The Proponent shall consult with DoE and, if requested:
 - (a) implement agreed reasonable and feasible measures to ameliorate potential noise and/or dust impacts to Ulan Public School; or
 - (b) on a reasonable basis relating to the adverse effect of noise and/or dust from the project, contribute to or meet reasonable costs toward relocating the school.

21-25. (deleted)

26-28. (deleted)

WATER

Water Supply

- 29. The Proponent shall ensure that:
 - (a) it has sufficient water for all stages of the project, and if necessary, adjust the scale of operations on site to match its available water supply; and
 - (b) any water supply constraints do not compromise any aspect of the environmental performance of the

Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Proponent is required to obtain the necessary water licences for the project.

Compensatory Water Supply

30. The Proponent shall provide a compensatory water supply to any landowner of privately owned land whose water supply is adversely and directly impacted (other than an impact that is negligible) as a result of the project, in consultation with DPIE Water, and to the satisfaction of the Secretary.

The compensatory water supply measures must provide an alternative long-term supply of water that is equivalent to the loss attributed to the project. Equivalent water supply should be provided (at least on an interim basis) within 24 hours of the loss being identified.

If the Proponent and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution.

If the Proponent is unable to provide an alternative long-term supply of water, then the Proponent shall provide alternative compensation to the satisfaction of the Secretary.

Water Pollution

31. Unless an EPL authorises otherwise, the Proponent shall comply with section 120 of the POEO Act.

Water Management Performance Measures

32. The Proponent shall comply with the performance measures in Table 11 to the satisfaction of the Secretary.

Table 11: Water Management Performance Measures

Feature	Performance Measure
Water Management - General	Minimise cumulative water impacts with the other mines in the region
	 Maximise water sharing with the other mines in the region Minimise the use of clean water on site
The Drip	Nil impact on the water supply to the Drip
Construction and operation of linear infrastructure	 Design, install and maintain erosion and sediment controls generally in accordance with the series Managing Urban Stormwater: Soils and Construction including Volume 1, Volume 2A – Installation of Services and Volume 2C – Unsealed Roads Design, install and maintain the infrastructure within 40 m of watercourses generally in accordance with the Guidelines for Controlled Activities on Waterfront Land (DPI 2007), or its latest version Design, installation and maintenance of creek crossings generally in accordance with the Policy and Guidelines for Fish Friendly Waterway Crossings (NSW Fisheries, 2003) and Why Do Fish Need To Cross The Road? Fish Passage Requirements for Waterway Crossings (NSW Fisheries 2003), or their latest
Mine Sediment Dams	versions Design, install and maintain the dams generally in accordance with the series Managing Urban Stormwater: Soils and Construction – Volume 1 and Volume 2E Mines and Quarries
Clean water diversion & storage infrastructure	 Use best endeavours to upgrade the existing clean water systems to capture and convey the 100 year ARI flood Maximise as far as reasonable and feasible the
Mine water storages	 diversion of clean water around disturbed areas on site Mine water storage infrastructure is designed to store a 50 year ARI 72 hour storm event On-site storages (including tailings dams, mine infrastructure dams, groundwater storage and treatment dams) are suitably lined to comply with a permeability standard of < 1 x 10⁻⁹ m/s
Tailings, acid forming and potentially acid forming materials	In-pit emplacement, encapsulation or capping to prevent the migration of pollutants beyond the pit shell
In-pit emplacement of tailings, acid forming and potentially acid forming materials	 Emplacement, encapsulation and capping to prevent or minimise the migration of pollutants beyond the pit shell of seepage from out of pit emplacement areas Adequate freeboard within the pit void to minimise the risk of discharge to surface waters
Chemical and hydrocarbon storage	Chemical and hydrocarbon products to be stored in bunded areas in accordance with the relevant Australian Standard
Aquatic and riparian ecosystem, including the relevant sections of Moolarben Creek, Bora Creek and the Goulburn River	 Maintain or improve baseline channel stability Develop site-specific in-stream water quality objectives in accordance with ANZECC 2000 and Using the ANZECC Guidelines and Water Quality Objectives in NSW procedures (DECC 2006), or its latest version
Treated Water Discharge Volume	 Up to 10ML/day for the following periods (unless the Secretary agrees otherwise): until the commencement of mining operations in UG4; and following completion of mining operations in UG4 Up to 15 ML/day during mining operations in UG4 Greater than 15 ML/day during prolonged wet periods, with the approval of EPA.
Treated Water Discharge Quality	 Electrical conductivity limit of 685 µS/cm (100th percentile discharge limit) for up to 10ML/day until 30 June 2022 (unless the Secretary agrees otherwise) After 30 June 2022 (unless the Secretary agrees otherwise) an alternative electrical conductivity limit for treated water discharges as determined under condition 32A

Feature	Performance Measure
Storages constructed for the Water Treatment Facility	 Brine and feedwater storages designed to store a 100 year ARI 72 hour storm event Brine storages are suitably lined to comply with a permeability standard of < 1 x 10⁻⁹ m/s over 1000mm or equivalent standard

Independent Water Quality Study

- 32A. By 1 December 2021, unless the Secretary agrees otherwise, the Proponent must complete an Independent Water Quality Study in accordance with the ANZECC Guidelines, in consultation with EPA and to the satisfaction of the Secretary. The study must:
 - (a) be undertaken by an independent scientific organisation with suitable water expertise whose appointment has been approved by the Secretary;
 - (b) collect and utilise water quality monitoring data in the Goulburn River using locations endorsed by the EPA;
 - (c) determine appropriate background salinity and heavy metal levels for the Goulburn River upstream of the project site;
 - (d) recommend an electrical conductivity limit for treated water discharges to the Goulburn River from the Moolarben Coal Complex based on the process outlined in the ANZECC Guidelines.

Water Management Plan

- 33. The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with DPIE Water, NRAR and the EPA, by suitably qualified and experienced persons whose appointment has been approved by the Secretary and be revised and submitted to the Secretary for approval by 31 October 2016;
 - (a1) include reference to the National Water Quality Management Strategy;
 - (a2) include detailed performance criteria and describe measures to ensure that the Proponent complies with the Water Management Performance Measures (see Table 11);
 - (b) in addition to the standard requirements for management plans (see Condition 3 of Schedule 5), this plan must include a:
 - i. Site Water Balance that:
 - includes details of:
 - sources and security of water supply, including contingency planning for future reporting periods;
 - water use and management on site, including details of water sharing between neighbouring mining operations;
 - reporting procedures, including the preparation of a site water balance for each calendar year;
 - describes the measures that would be implemented to:
 - minimise clean water use on site;
 - maximise water sharing with the other mines in the region;
 - ii. <u>Surface Water Management Plan</u>, that includes:
 - detailed baseline data on water flows and quality in the water bodies that could be affected by the project;
 - a detailed description of the water management system on site;
 - detailed plans, including design objectives and performance criteria, for the:
 - in-pit emplacement areas for tailings, acid forming and potentially acid forming materials:
 - final voids (see the Rehabilitation Objectives in Table 13);
 - detailed performance criteria for the following, including trigger levels for investigating any potentially adverse impacts associated with the project:
 - the water management system;
 - downstream surface water quality;
 - downstream flooding impacts and
 - stream and riparian vegetation health for Moolarben Creek, Bora Creek, and the Goulburn River:
 - a program to monitor and report on:
 - the effectiveness of the water management system; and
 - surface water flows and quality, stream and riparian vegetation health in the watercourses that could be affected by the project;
 - daily flow levels upstream and downstream of the treated mine water discharge point in the Goulburn River Diversion; and
 - downstream flooding impacts;
 - reporting procedures for the results of the monitoring program; and
 - a plan to respond to any exceedances of the performance criteria, and mitigate any adverse surface water impacts of the project;

- iii. Groundwater Management Plan, that includes:
 - detailed baseline data on groundwater levels, yield and quality in the region and privately-owned groundwater bores that could be affected by the project;
 - groundwater assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts and detailed justification for those trigger levels;
 - a program to monitor and report on:
 - groundwater inflows to the underground and open cut mining operations;
 - the seepage/leachate from water storages, emplacements, backfilled voids and final voids:
 - background changes in groundwater yield/quality against mine-induced changes;
 - impacts of the project on:
 - regional and local (including alluvial) aquifers;
 - groundwater supply of potentially affected landowners; and
 - groundwater dependent ecosystems (including the Drip) and riparian vegetation:
 - brine emplacement in underground workings and potential changes to groundwater and surface water quality;
 - a program to validate the groundwater model for the project, and compare the monitoring results with modelled predictions; and
 - a plan to respond to any exceedances of the groundwater assessment criteria.
- iv. a protocol that has been prepared in consultation with the owners of the Ulan and Wilpinjong mines to:
 - minimise cumulative water quality impacts;
 - review opportunities of increased water sharing between these projects;
 - co-ordinate water quality and flow monitoring programs as far as practicable;
 - undertake joint investigations/studies in relation to complaints/exceedences of trigger levels where cumulative impacts are considered likely; and
 - co-ordinate modelling programs for validation, re-calibration and re-running of groundwater models.

Brine Management Plan

- 33A. Prior to operating the Water Treatment Facility, the Proponent shall prepare a Brine Management Plan for the project, in consultation with the EPA, and to the satisfaction of the Secretary. This plan must:
 - (a) be prepared by suitably qualified and experienced persons whose appointment has been approved by the Secretary;
 - (b) detail the methods that would be used to manage brine, the proposed brine storage locations and the volumes of brine that would be managed at each location;
 - (c) detail the measures that would be implemented to avoid and/or minimise impacts from the storage of brine at the surface, and the transfer and disposal of brine in underground workings;
 - (d) include a program to investigate options to decrease the quantity of brine over time; and
 - (e) include a program to monitor potential impacts of brine storage, transfer and disposal in underground workings.

Following approval, the Proponent must implement the Brine Management Plan for the project.

Note: Water Treatment Facility operations commence following commissioning.

BIODIVERSITY

Biodiversity Offset Strategy

34. The Proponent shall implement the biodiversity offset strategy for the project summarised in Table 12, and shown conceptually in Appendix 8, to the satisfaction of the Secretary.

Table 12: Summary of Biodiversity Offset Strategy

Area	Offset Type	Minimum Size Hectares
Area 3 Property 6	Conserve: • 6 ha of existing EEC Enhance and conserve: • 2.6 ha of regenerating EEC	8.6
Areas 1, 2 and 3 Properties 6, 10, 12, 13, 14 and 15	 Enhance existing vegetation: 1282 ha of native vegetation Revegetate: 48 ha of existing disturbed land to EEC 	1330

Area	Offset Type	Minimum Size Hectares
Area 1 Properties 12, 13, 14 and 15	Revegetate: 153 ha of cleared land to native vegetation	153
Clark	Enhance existing vegetation:300 ha of existing native vegetation32 ha of EEC	332
Clifford	Enhance existing vegetation:19 ha of native vegetation62 ha of EEC	81
Elward	Enhance existing vegetation:146 ha of native vegetation24 ha of EEC	170
Property 5	Enhance existing vegetation:40 ha of native vegetation25 ha of EEC	65
Properties 24 and 25	Enhance existing vegetation:59 ha of native vegetation4 ha of EEC	63
Bobadeen	Enhance existing vegetation:8 ha of native vegetation159 ha of EEC	167
Moolarmoo	Enhance existing vegetation:25 ha of native vegetation19 ha of EEC	44

Note: The EEC referred to in this table is the White Box Yellow Box Blakely's Red Gum Woodland as defined under the BC Act and White Box Yellow Box Blakely's Red Gum Grassy Woodland as defined under the EPBC Act.

Supplementary Biodiversity Offset Strategy

34A. The Proponent shall implement the supplementary biodiversity offset strategy for the project as summarised in Table 12A, and shown conceptually in Appendix 8A, to the satisfaction of the Secretary.

Table 12A: Summary of Supplementary Biodiversity Offset Strategy

Gilgal property credit type	Credits required	Gilgal property credits (area)	Residual credits
Ecosystem Credits			
PCT 281 ¹			
Rough-Barked Apple - red gum - Yellow Box woodland on alluvial clay to loam soils on valley flats in the northern NSW South Western Slopes Bioregion and Brigalow Belt South Bioregion	35	35 (5 ha)	-
PCT 618 ¹			
White Box - Grey Box - red gum - Rough- barked Apple grassy woodland on rich soils on hills in the upper Hunter	73	0	73
PCT 1606			
White Box – Narrow-leaved Ironbark – Blakely's Red Gum shrubby open forest of the central and upper Hunter	150	150 (14 ha)	-
PCT 1660 ²			
Narrow-leaved Ironbark heathy woodland on sandstone ranges of the Sydney Basin and Brigalow Belt South	411	411 (53 ha)	-
PCT 479 ³			
Narrow-leaved Ironbark- Black Cypress Pine - stringybark +/- Grey Gum +/- Narrow-leaved Wattle shrubby open forest on sandstone hills in the southern Brigalow Belt South Bioregion and Sydney Basin Bioregion	204	204 (22.5 ha)	-

Gilgal property credit type	Credits required	Gilgal property credits (area)	Residual credits
PCT 1176 ⁴ Slaty Box - Grey Gum shrubby woodland on footslopes of the upper Hunter Valley, Sydney Basin Bioregion	233	233 (27 ha)	-
PCT 1696 Blakely's Red Gum - Rough-barked Apple shrubby woodland of central and upper Hunter	331	0	331
Total	1,437	1,033 (121.5 ha)	404
Species Credits			
Regent Honeyeater	1,568	1,568 (221 ha)	-
Koala	77	64 (9 ha)	13
Brush-tailed Rock Wallaby	693	693 (98 ha)	-

- Listed as or meets the criteria for White Box-Yellow Box-Blakely's Red Gum Woodland EEC under the BC Act and White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC under the EPBC Act
- 2. Under the FBA offsetting option rules PCT 1660 can be used to offset impacts on PCT 1629 Narrow-leaved Stringybark Grey Gum shrubby open forest on sandstone ridges of the Sydney Basin.
- 3. Under the FBA offsetting option rules PCT 479 can be used to offset impacts on PCT 1661 Narrow-leaved Ironbark Black Pine Sifton Bush heathy open forest on sandstone ranges of the upper Hunter and Sydney Basin.
- 4. Under the FBA offsetting option rules PCT 1176 can be used to offset impacts on PCT 1669 Red Ironbark Grey Gum Narrow-leaved Stringybark Brown Bloodwood shrubby open forest on sandstone ranges of the Sydney Basin.

Note: The credits in Table 12A have been calculated in accordance with Framework for Biodiversity Assessment of the NSW Biodiversity Offset Policy for Major Projects (OEH, 2014) and may need to be converted to reasonably equivalent 'biodiversity credits', within the meaning of the BC Act, if the credits are to be retired in accordance with the Biodiversity Offsets Scheme of the BC Act.

Long Term Security of Offsets

35. By the end of June 2015, unless otherwise agreed by the Secretary, the Proponent shall make suitable arrangements to provide appropriate long-term security for the offset areas in Table 12 in perpetuity, in consultation with BCD and to the satisfaction of the Secretary.

Note: The preferred mechanisms for the provision of long-term conservation security are via Biobanking Arrangements and additions to the BCD Estate.

35A. By 30 September 2021, the Proponent shall make an application to secure the credits associated with the areas of the Gilgal property identified in Table 12A under a Biodiversity Stewardship Agreement, unless otherwise agreed by the Secretary.

Rehabilitation Offsets

Within 12 months of the commencement of activities under MOD 14, unless otherwise agreed by the Secretary, the proponent must, in consultation with BCD, the Department and DAWE and to the satisfaction of the Secretary, develop suitable rehabilitation performance and completion criteria for the vegetation communities to be established in the rehabilitated OC2 and/or OC3 landforms to generate the residual ecosystem and species credits for Koala listed in Table 12A.

The performance and completion criteria must include consideration of the effect of climatic conditions, such as drought, the NSW Biodiversity Offsets Policy for Major Projects 2014 and the associated Fact sheet: Mine Site Rehabilitation (OEH, 2014).

Notes:

- The rehabilitation offset performance and completion criteria form a component of the Rehabilitation Management Plan required under condition 69 of this schedule.
- The indicative final rehabilitation areas are shown in Appendix 8.
- 35C If at the end of 10 years after landform establishment in OC2 and/or OC3, unless otherwise agreed by the Secretary, the rehabilitation does not meet the performance and completion criteria in condition 35B to the

satisfaction of the Secretary, the Proponent must retire the relevant number of residual credits listed in Table 12A under other mechanisms provided by the Biodiversity Offsets Scheme of the BC Act, to the satisfaction of the Secretary.

Notes:

- Landform establishment is a recognised stage of rehabilitation when the final land shape has been developed prior to growth medium development and ecosystem development.
- As landform establishment stage will progressively occur across the mine site, the performance criteria for new
 areas progressing into the landform establishment stage will need to be assessed by the Secretary on a regular
 basis, for example every 3 years, to determine whether the requirements of the condition are being met.
- In accordance with the NSW Biodiversity Offsets Policy for Major Projects, additional biodiversity credits can be
 generated for the ongoing management of the rehabilitation area to ensure its biodiversity values are continually
 improved. Any additional credits could be secured through a Biobanking Agreement and used to offset future
 developments.
- 35D Notwithstanding the requirements in conditions 35B and 35C, the Proponent may retire the residual credits listed in Table 12A earlier than the specified timeframe in condition 35C by other mechanisms under the BC Act in place of rehabilitation, to the satisfaction of the Secretary.
- 35E. Within two years of the determination of Modification 15, unless otherwise agreed by the Secretary, the Proponent must retire the biodiversity credits specified in Table 12B below in accordance with the *Biodiversity Offsets Scheme* of the BC Act.

 Table 12B: Summary of Supplementary Biodiversity Offset Strategy (MOD 15)

Biodiversity Credit Type		
Ecosystem Credits		
PCT 281 ¹		
Rough-Barked Apple - red gum - Yellow Box woodland on alluvial clay to loam soils on valley flats in the northern NSW South Western Slopes Bioregion and Brigalow Belt South Bioregion ¹	42	
PCT 479		
Narrow-leaved Ironbark- Black Cypress Pine - stringybark +/- Grey Gum +/- Narrow-leaved Wattle shrubby open forest on sandstone hills in the southern Brigalow Belt South Bioregion and Sydney Basin Bioregion	59	
PCT 1711	10	
Tantoon - Lepyrodia leptocaulis shrubland on sandstone drainage lines of the Sydney Basin		
Total	111	
Species Credits		
Gang-Gang Cockatoo		
Glossy-Black Cockatoo		
Large-eared Pied Bat		
Eastern Cave Bat		
Tylophora linearis		

- Portions of this community are listed as or meets the criteria for White Box-Yellow Box-Blakely's Red Gum Woodland EEC under the BC Act and White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC under the EPBC Act.
- 2. The credits listed in Table 12B have been calculated in accordance with the Biodiversity Assessment Method (as at 1 October 2019).
- 35F. Within two years of the determination of Modification 15, unless otherwise agreed with the Secretary, the Proponent must retire ecosystem credits equivalent to the 3.25 ha area of surface disturbance activities approved under Modification 15 located within Offset Area 2 and include at least:
 - (a) 0.75 hectares of PCT 281 Rough-Barked Apple red gum Yellow Box woodland on alluvial clay to loam soils on valley flats in the northern NSW South Western Slopes Bioregion and Brigalow Belt South Bioregion¹; and
 - (b) 2.5 hectares of PCT 479 Narrow-leaved Ironbark- Black Cypress Pine stringybark +/- Grey Gum +/- Narrow-leaved Wattle shrubby open forest on sandstone hills in the southern Brigalow Belt South Bioregion and Sydney Basin Bioregion.

The retirement of ecosystem credits must be carried out in accordance with the *Biodiversity Offsets Scheme* of the BC Act.

Note 1: Portions of this community is listed as or meets the criteria for *White Box-Yellow Box-Blakely's Red Gum Woodland EEC* under the BC Act and *White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC* under the EPBC Act.

Biodiversity Management Plan

- 36. The Proponent shall prepare and implement a Biodiversity Management Plan for the project to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with BCD and be submitted to the Secretary for approval by 31 March 2015:
 - (b) describe the short, medium, and long term measures that would be implemented to:
 - manage the remnant vegetation and habitat on the site and in the offset areas;
 - minimise biodiversity impacts of the project; and
 - implement the biodiversity offset strategy described in Table 12, including detailed performance and completion criteria;
 - (c) include detailed performance and completion criteria for evaluating the performance of the biodiversity offset strategy described in Table 12, and triggering remedial action (if necessary):
 - (d) include a detailed description of the measures that would be implemented for:
 - enhancing the quality of existing vegetation and fauna habitat;
 - restoring native vegetation and fauna habitat on the biodiversity offset areas through focusing
 on assisted natural regeneration, targeted vegetation establishment and the introduction of
 naturally scarce fauna habitat features (where necessary);
 - maximising the salvage of resources within the approved disturbance area including vegetative, soil and cultural heritage resources – for beneficial reuse in the enhancement of the biodiversity areas or rehabilitation area;
 - rehabilitating the environmental bunds on site as soon as practicable and maintaining the landscaping on the bunds once it has been established;
 - collecting and propagating seed;
 - minimising the impacts on fauna on site, including undertaking pre-clearance surveys;
 - managing any potential conflicts between the proposed restoration works in the biodiversity areas and any Aboriginal heritage values (both cultural and archaeological);
 - managing salinity;
 - avoid and mitigate the spread of Phytophthora cinnamomi (*P.cinnamomi*) with consideration
 of actions identified in the relevant threat abatement plan;
 - controlling weeds and feral pests;
 - controlling erosion;
 - managing grazing and agriculture on site;
 - controlling access; and
 - bushfire management;
 - (e) include a seasonally-based program to monitor and report on the effectiveness of these measures, and progress against the detailed performance and completion criteria;
 - (f) identify the potential risks to the successful implementation of the biodiversity offset strategy described in Table 12, and include a description of the contingency measures that would be implemented to mitigate against these risks; and
 - (g) include details of who would be responsible for monitoring, reviewing, and implementing the plan.

Conservation Bond

- 37. By 30 September 2021 unless otherwise agreed by the Secretary, the Proponent shall lodge a Conservation Bond with the Department to ensure that the biodiversity offset strategy described in Table 12 is implemented in accordance with the performance and completion criteria of the Biodiversity Management Plan. The sum of the bond shall be determined by:
 - (a) calculating the full cost of implementing the biodiversity offset strategy described in Table 12 (other than land acquisition costs); and
 - (b) employing a suitably qualified quantity surveyor to verify the calculated costs, to the satisfaction of the Secretary.

If the offset strategy described in Table 12 is completed generally in accordance with the completion criteria in the Biodiversity Management Plan to the satisfaction of the Secretary, the Secretary will release the bond.

If the offset strategy described in Table 12 is not completed generally in accordance with the completion criteria in the Biodiversity Management Plan, the Secretary will call in all, or part of, the conservation bond, and arrange for the satisfactory completion of the relevant works.

Notes:

• Existing bonds which have been paid for biodiversity offset areas listed in Table 12 remain current and are satisfactory to fulfil the requirements of this condition for those areas;

- Alternative funding arrangements for long-term management of the Biodiversity Offset Strategy, such as provision of
 capital and management funding as agreed by BCD as part of a Biobanking Agreement or transfer to conservation
 reserve estate can be used to reduce the liability of the conservation and biodiversity bond, and
- The sum of the bond may be reviewed in conjunction with any revision to the biodiversity offset strategy described in Table 12.

HERITAGE

Protection of Aboriginal Heritage Items

38. Unless otherwise authorised under the NP&W Act, the Proponent shall ensure that the project does not cause any direct or indirect impact on the identified Aboriginal heritage items located outside the approved disturbance area of the project.

Note: Identified Aboriginal heritage items are listed in Appendix 9. The details in Appendix 9 are subject to revision following ongoing survey and assessment in accordance with the Heritage Management Plan required under this Project Approval.

Heritage Management Plan

- 39. The Proponent shall prepare and implement a Heritage Management Plan for the project to the satisfaction of the Secretary within six (6) months from the date of approval for MOD 9. This plan must:
 - (a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary;
 - (b) be prepared in consultation with BCD and the Aboriginal stakeholders (in relation to the management of Aboriginal heritage values);
 - (c) include results of further archaeological survey of the 10 hectares of land (as identified on Figure 10 of Appendix F of the EA) that has not been surveyed, and any land adjacent to the open cut mines that has not been surveyed and may be subject to blasting impacts;
 - (d) include the following for the management of Aboriginal Heritage:
 - a detailed archaeological test excavation and potential salvage program for site S1MC331;
 - a detailed archaeological test excavation and potential salvage program for sites S1MC343 and S1MC344, if it is determined by a qualified archaeologist that these sites may be subject to impacts associated with blasting;
 - a description of the measures that would be implemented for:
 - protecting, monitoring and/or managing the heritage sites/items identified in Appendix 9 and any sites identified during the surveys required in (c) above;
 - conserving the sites outside the surface disturbance area, including measures that would be implemented to secure, analyse and record the sites at risk of subsidence and/or blasting;
 - managing the discovery of any human remains or previously unidentified Aboriginal objects on site;
 - maintaining and managing reasonable access for Aboriginal stakeholders to heritage items on site:
 - ongoing consultation with the Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage both on site and within any Aboriginal heritage conservation areas; and
 - ensuring any workers on site receive suitable heritage inductions prior to carrying out any development on site, and that suitable records are kept of these inductions;
 - a strategy for the storage of any heritage items salvaged on site, both during the project and in the long term:
 - (e) include a detailed plan for the implementation of the mitigation and management measures outlined for the specified heritage items in Appendix 10, including archival recording, historical research and archaeological assessment prior to any disturbance.

40-53. (deleted)

TRANSPORT

Road Works

- 54. Prior to the commencement of mining operations in open cut 2, the Proponent shall divert or close Carrs Gap Road to the satisfaction of Council.
- 55. Prior to the commencement of mining operations in open cut 3, the Proponent shall divert or close Moolarben Road to the satisfaction of Council.

Note: These road works must be constructed in accordance with the relevant TfNSW or Austroads standards, and signposted and lit in accordance AS 1742 – Manual of Uniform Traffic Control Devices and AS/NZS 1158: 2005 – Lighting for Roads and Public Spaces.

- 55A. Prior to the commencement of construction works associated with the northern dewatering sites (described in MOD 15), the Proponent must upgrade the intersection of Ulan Road and Saddlers Creek Road to the satisfaction of the appropriate roads authority and in consultation with DPIE Crown Lands. The intersection upgrade is to be designed and constructed in accordance with the *Guide to Road Design* (Austroads) and any relevant TfNSW supplements.
- 55B. Prior to the commencement of the operation of the new downcast ventilation shaft compound (described in MOD 15), the Proponent must construct a new intersection on Ulan Road to the satisfaction of the appropriate roads authority. The intersection upgrade is to be designed and constructed in accordance with the *Guide to Road Design* (Austroads) and any relevant TfNSW supplements.

Ulan Road Strategy

- 56. The Proponent shall:
 - (a) work with Council and the owners of the Ulan and Wilpinjong mines to agree to develop a detailed plan for the implementation of the Ulan Road Strategy; and
 - (b) make financial contributions towards the implementation of this detailed plan, in accordance with the requirements in the plan, with its share of the mining companies' contribution for the implementation of the strategy to be proportionate to its share of mining-related traffic to be generated on the road during the life of the strategy.

If there is any dispute between the various parties involved in either the development of the detailed plan for the implementation of the strategy, or the implementation of the strategy, then any of the parties may refer the matter to the Secretary for resolution.

57. (deleted)

TRAFFIC MANAGEMENT

- 58. The Proponent shall:
 - (a) schedule the shift changes on site to occur outside of school bus hours;
 - (b) co-ordinate the shift changes on site with the shift changes of the adjoining Ulan and Wilpinjong mines to minimise the potential cumulative traffic impacts of the shift changes at the three mines; and
 - (c) take all reasonable steps to minimise traffic safety issues and disruption to local road users during road upgrade works.

Rail Transport - West

- 59. The Proponent shall not transport any coal west of the site through Gulgong and Mudgee without the written approval of the Secretary. In seeking this approval, the Proponent shall submit a report to the Secretary that:
 - (a) has been prepared in consultation with Council;
 - (b) demonstrates that the railway line has been suitably upgraded to accommodate the proposed coal train traffic:
 - (c) describes:
 - the expected tonnages, train size, number, and rail scheduling of the proposed coal train movements (both laden and unladen);
 - the measures that would be implemented to minimise, mitigate and/or manage the ongoing environmental effects of these coal train movements; and
 - how the performance of these measures would be monitored.

Monitoring of Coal Transport

- 60. The Proponent shall monitor the:
 - (a) amount of coal transported from the site each year; and
 - (b) date and time of each train movement generated by the project.

VISUAL

Additional Visual Impact Mitigation

61. Upon receiving a written request from the owner of any residence on privately-owned land which has, or would have, significant direct views of the mining operations and infrastructure on site during the project, the Proponent shall implement additional visual impact mitigation measures (such as landscaping treatments or vegetation screens) to reduce the visibility of these mining operations and infrastructure from the residences on their properties.

These mitigation measures must be reasonable and feasible, and must be implemented within a reasonable timeframe.

If the Proponent and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution.

Notes.

- The additional visual impact mitigation measures must be aimed at reducing the visibility of the mining operations on site from significantly affected residences, and do not require measures to reduce the visibility of the mining operations from other locations on the affected properties.
- The additional visual impact mitigation measures do not necessarily have to include the implementation of measures on the affected property itself (i.e. the additional measures could involve the implementation of measures outside the affected property boundary that provide an effective reduction in visual impacts).

Operating Conditions

- 62. The Proponent shall:
 - (a) implement best management practice to minimise the visual and off-site lighting impacts of the project;
 - (b) ensure no fixed outdoor lights shine above the horizontal;
 - (c) ensure no in-pit mobile lighting rigs shine above the pit wall and other mobile lighting rigs do not shine above the horizontal;
 - (d) ensure that all external lighting associated with the project complies with Australian Standard AS4282 (INT) 1997 Control of Obtrusive Effects of Outdoor Lighting or its latest version;
 - (e) provide for the establishment of trees and shrubs and/or the construction of mounding or bunding to minimise visual and lighting impacts on the Proponent's land adjoining public roads with views of the site:
 - (f) ensure that the visual appearance of all buildings, structures, facilities or works (including paint colours and specifications) is aimed at blending as far as possible with the surrounding landscape, to the satisfaction of the Secretary.

BUSHFIRE MANAGEMENT

- 63. The Proponent shall:
 - (a) ensure that the project is suitably equipped to respond to any fires on site; and
 - (b) assist the RFS and emergency services as much as practicable if there is a fire in the vicinity of the site.

WASTE

- 64. The Proponent shall:
 - (a) implement all reasonable and feasible measures to minimise the waste (including coal reject) generated by the project;
 - (b) ensure that the waste generated by the project is appropriately stored, handled and disposed of; and
 - (c) monitor and report on effectiveness of the waste minimisation and management measures in the Annual Review.

REHABILITATION

Rehabilitation Objectives

65. The Proponent shall rehabilitate the site to the satisfaction of Resources Regulator. This rehabilitation must be generally consistent with the proposed rehabilitation described in the EA (and depicted conceptually in the figure in Appendix 8), and comply with the objectives in Table 13.

Table 13: Rehabilitation Objectives

Feature	Objective
Mine site (as a whole)	 Safe, stable and non-polluting; Constructed landforms are to drain to the natural environment (excluding the final voids); Final landforms are to be consistent with the surrounding topography of the area, taking into account relief patterns and principles; and Minimise visual impact of final landforms as far as is reasonable and feasible.
Final Voids	 Minimise the size and depth of final voids so far as is reasonable and feasible, subject to meeting the objectives below; Minimise the drainage catchment of the final void so far as is reasonable and feasible; Negligible high wall instability risk;

Feature	Objective
	 The size and depth of the final voids must be designed having regard to their function as long-term groundwater sinks, to ensure that groundwater flows across the back-filled pit towards the final void; and Minimise risk of flood interaction for all flood events up to and including the Probable Maximum Flood level.
Water quality	 Water retained on site is fit for the intended land use (s) for the post-mining domain(s). The potential ecological, hydrological and geomorphic impacts from post-mining water discharges on receiving creeks are assessed and appropriate mitigation measures are effectively implemented as part of the closure plan.
Surface infrastructure	To be decommissioned and removed, unless the Executive Director, Mineral Resources agrees otherwise.
Agricultural land	• Establish agricultural land in areas indicated in the figure in Appendix 8 to a similar agricultural suitability to that existing prior to mining.
Other Land	 Restore ecosystem function, including maintaining or establishing self-sustaining ecosystems comprised of: native forests and woodland, including EECs; habitat for threatened fauna species; and wildlife corridors (as indicated in the figure in Appendix 8).
Community	 Ensure public safety; and Minimise the adverse socio-economic effects associated with mine closure.

Progressive Rehabilitation

66. The Proponent shall rehabilitate the site progressively. That is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim rehabilitation strategies shall be employed when areas prone to dust generation cannot yet be permanently rehabilitated.

Note: It is accepted that some parts of the site that are progressively rehabilitated may be subject to further disturbance at some later stage of the project.

67. The Proponent shall progressively landscape the environmental bunds on site.

Rehabilitation Management Plan

- 68. The Proponent shall prepare and implement a Rehabilitation Management Plan for the project to the satisfaction of the Resources Regulator. This plan must:
 - (a) be prepared in consultation with the Department, DPIE Water, BCD, Council and the CCC;
 - (b) be submitted to the Resources Regulator for approval by 31 March 2015;
 - (c) be prepared in accordance with any relevant MEG guideline;
 - (c1) provide for the periodic review and updating of the rehabilitation plans and management strategies to ensure best practice landform design and establishment strategies are employed
 - (d) describe how the rehabilitation of the site would be integrated with the implementation of the biodiversity offset strategies in Table 12 and Table 12A;
 - (e) include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, and triggering remedial action (if necessary);
 - (f) describe the measures that would be implemented to ensure compliance with the relevant conditions of this approval, and address all aspects of rehabilitation including mine closure, final landform, and final land use;
 - (g) include interim rehabilitation where necessary to minimise the area exposed for dust generation;
 - (h) include a program to monitor, independently audit and report on the effectiveness of the measures, and progress against the detailed performance and completion criteria; and
 - (i) build to the maximum extent practicable on the other management plans required under this approval.

The Drip

69. Notwithstanding the approval of Modification 9, there is to be no extraction of the additional coal resource approved under Modification 9 until the land tenure and surrounds associated with the natural feature known as 'the Drip' is resolved to ensure its conservation to the satisfaction of the Secretary and the Office of Environment and Heritage.

This does not prohibit the implementation of the components for Modification 9 including construction and operation the approved water management infrastructure upgrade works.

GREENHOUSE GAS

70. Deleted.

Gas Drainage

- 71. The Proponent shall implement all reasonable and feasible measures to minimise the greenhouse gas emissions from the underground mining operations to the satisfaction of the Secretary.
- 72. Prior to carrying out underground mining operations, the Proponent shall submit an updated Greenhouse Gas Minimisation Plan to the Secretary. This plan must:
 - (a) identify options for minimising greenhouse gas emissions from underground mining operations, with a particular focus on capturing and/or using these emissions;
 - (b) investigate the feasibility of implementing each option;
 - (c) propose the measures that would be implemented in the short to medium term on site; and
 - (d) include a research program to inform the continuous improvement of the greenhouse gas minimisation measures on site.

SUBSIDENCE

Performance Measures – Natural and Heritage Features

73. The Proponent shall ensure that the project does not cause any exceedances of the performance measures in Table 14, to the satisfaction of the Secretary.

Table 14: Subsidence Impact Performance Measures

Table 14: Subsidence Impact Performance Measures			
Special Feature			
The Drip and Goulburn River Gorge (see Appendix 7)	Nil impact or environmental consequences		
Water Resources			
Goulburn River and the bed of the Goulburn River (see Appendix 7)	Negligible impact or environmental consequences. Remain outside the zone of recorded subsidence damage for longwall mining.		
Land			
Cliff Line 3	Minimise subsidence damage		
Heritage Sites			
Aboriginal heritage sites 264, 282, 283, 286 and 287 (see Appendix 7)	Reduce the likelihood of subsidence damage to low.		
Aboriginal heritage site 280 (see Appendix 7)	Reduce the likelihood of subsidence damage to moderate.		
Historic heritage sites	No greater subsidence impact or environmental consequences than predicted in the EA		
Mine workings			
First workings under an approved Extraction Plan beneath any feature where performance measures in this table require negligible impact, negligible consequence or negligible loss			
Second workings	To be carried out only within the longwall mining domains, in accordance with an approved Extraction Plan.		

Notes:

- The locations of the features referred to in Table 14 are shown in Appendix 7.
- The Proponent will be required to define more detailed performance indicators (including impact assessment criteria) for each of these performance measures in the various management plans that are required under this approval.
- Measurement and/or monitoring of compliance with performance measures and performance indicators is to be
 undertaken using generally accepted methods that are appropriate to the environment and circumstances in which
 the feature or characteristic is located. These methods are to be fully described in the relevant management plans.
 In the event of a dispute over the appropriateness of proposed methods, the Secretary will be the final arbiter.
- The requirements of this condition only apply to the impacts and consequences of mining operations, construction or demolition undertaken following the date of this approval.

Offsets

- 74. If the Proponent exceeds the performance measures in Table 14 and the Secretary determines that:
 - (a) it is not reasonable or feasible to remediate the impact or environmental consequence; or

(b) remediation measures implemented by the Proponent have failed to satisfactorily remediate the impact or environmental consequence;

then the Proponent shall provide a suitable offset to compensate for the impact or environmental consequence, to the satisfaction of the Secretary.

Note: Any offset required under this condition must be proportionate with the significance of the impact or environmental consequence.

Impacts to the Drip cannot be offset and consequently the proponent shall ensure that the project has no impact on the Drip or the water supply to the Drip.

Performance Measures – Built Features

75. The Proponent shall ensure that the project does not cause any exceedances of the performance measures in Table 15, to the satisfaction of the Secretary.

Table 15: Subsidence Impact Performance Measures – Built Features

Table 15: Subsiderice Impact Performance Measures – Built Features		
Key public infrastructure:		
	Always safe and serviceable. Damage that does not affect safety or serviceability must be fully repairable, and must be fully repaired.	
Other infrastructure:		
	Safe, serviceable and repairable unless the owner agrees otherwise in writing.	
Other built features and improvements, including fences	Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated.	
	Damage must be fully repairable, and must be fully repaired or else replaced or fully compensated.	
Public Safety		
Public safety	Negligible additional risk	

Notes:

- The locations of the features referred to in Table 15 are shown in Appendix 7.
- The Proponent will be required to define more detailed performance indicators for each of these performance measures in Built Features Management Plans or Public Safety Management Plan (see condition 74 below).
- Measurement and/or monitoring of compliance with performance measures and performance indicators is to be undertaken using generally accepted methods that are appropriate to the environment and circumstances in which the feature or characteristic is located. These methods are to be fully described in the relevant management plans. In the event of a dispute over the appropriateness of proposed methods, the Secretary will be the final arbiter.
- The requirements of this condition only apply to the impacts and consequences of mining operations undertaken following the date of this approval.
- Requirements under this condition may be met by measures undertaken in accordance with the Mine Subsidence Compensation Act 1961.
- Requirements regarding safety or serviceability do not prevent preventative or mitigatory actions being taken prior to or during mining in order to achieve or maintain these outcomes.
- 76. Any dispute between the Proponent and the owner of any built feature over the interpretation, application or implementation of the performance measures in Table 15 is to be settled by the Secretary, following consultation with Resources Regulator. Any decision by the Secretary shall be final and not subject to further dispute resolution under this approval.

Extraction Plan

- 77. The Proponent shall prepare and implement an Extraction Plan for all second workings on site to the satisfaction of the Secretary. Each extraction plan must:
 - (a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary:
 - (b) be approved by the Secretary before the Proponent carries out any of the second workings covered by the plan;
 - (c) include detailed plans of existing and proposed first and second workings and any associated surface development;
 - (d) include detailed performance indicators for each of the performance measures in Tables 14 and 15;
 - (e) provide revised predictions of the potential subsidence effects, subsidence impacts and environmental consequences of the proposed second workings, incorporating any relevant information obtained since this approval;
 - (f) describe the measures that would be implemented to ensure compliance with the performance measures in Tables 14 and 15, and manage or remediate any impacts and/or environmental consequences;

- (g) include a Built Features Management Plan, which has been prepared in consultation with Resources Regulator and the owners of affected public infrastructure, to manage the potential subsidence impacts and/or environmental consequences of the proposed second workings, and which:
 - addresses in appropriate detail all items of key public infrastructure and other public infrastructure and all classes of other built features;
 - ii. has been prepared following appropriate consultation with the owner/s of potentially affected feature/s:
 - iii. recommends appropriate remedial measures and includes commitments to mitigate, repair, replace or compensate all predicted impacts on potentially affected built features in a timely manner; and
 - iv. in the case of all key public infrastructure, and other public infrastructure except roads, trails and associated structures, reports external auditing for compliance with ISO 31000 (or alternative standard agreed with the infrastructure owner) and provides for annual auditing of compliance and effectiveness during extraction of longwalls which may impact the infrastructure:
- (h) include a Water Management Plan, which has been prepared in consultation with EPA and DPIE Water, which provides for the management of the potential impacts and/or environmental consequences of the proposed second workings on watercourses and aquifers, including:
 - surface and groundwater impact assessment criteria, including trigger levels for investigating any potentially adverse impacts on water resources or water quality;
 - ii. a program to monitor and report stream flows, assess any changes resulting from subsidence impacts and remediate and improve stream stability;
 - iii. a program to monitor and report groundwater inflows to underground workings;
 - iv. a program to predict, manage and monitor impacts on groundwater bores on privately-owned land; and
- (i) include a Biodiversity Management Plan, which has been prepared in consultation with BCD, which provides for the management of the potential impacts and/or environmental consequences of the proposed second workings on aquatic and terrestrial flora and fauna, with a specific focus on threatened species, populations and their habitats; endangered ecological communities; and water dependent ecosystems;
- (j) include a Land Management Plan, which has been prepared in consultation with any affected public authorities, to manage the potential impacts and/or environmental consequences of the proposed second workings on land in general;
- (k) include a Heritage Management Plan, which has been prepared in consultation with BCD and relevant stakeholders for both Aboriginal and historic heritage, to manage the potential environmental consequences of the proposed second workings on both Aboriginal and non-Aboriginal heritage items, and reflects all requirements under conditions 38-39 of schedule 3;
- (I) include a Public Safety Management Plan, which has been prepared in consultation with DRG, to ensure public safety in the mining area;
- (m) include a Subsidence Monitoring Program, which has been prepared in consultation with Resources Regulator, to:
 - i. describe the on-going subsidence monitoring program;
 - ii. provide data to assist with the management of the risks associated with subsidence;
 - iii. validate the subsidence predictions;
 - iv. analyse the relationship between the predicted and resulting subsidence effects and predicted and resulting impacts under the plan and any ensuing environmental consequences; and
 - v. inform the contingency plan and adaptive management process.
 - vi. (deleted)
- include a contingency plan that expressly provides for adaptive management where monitoring indicates that there has been an exceedance of any performance measure in Tables 14 and 15, or where any such exceedance appears likely;
- (o) proposes appropriate revisions to the Rehabilitation Management Plan required under condition 68 of Schedule 3; and
- (p) include a program to collect sufficient baseline data for future Extraction Plans.

Note: To identify the longwall mining domains referred to in this condition, see Appendix 2.

78A. Prior to the commencement of second workings in longwall LW12, the Proponent shall:

- (a) prepare a report:
 - i. analysing the subsidence, surface water, and groundwater impacts of the cumulative progress of longwall mining for the project, including consideration of data collected from the previously mined panels up to and including commencement in longwall LW11;
 - ii. updating the predicted impacts based on the available local data and current scientific understanding of these relevant fields (demonstrating compliance with the requirements of this approval):
- (b) commission suitably qualified subsidence and groundwater experts whose appointment has been approved by the Secretary to review the report, and if necessary recommend changes to the monitoring programs and/or mine plan for subsequent panels; and
- (c) submit a copy of the report and expert review to the Department, Resources Regulator, BCD and DPIE Water, including a response to any recommendations contained in the expert review; to the satisfaction of the Secretary.

Note: The locations of LW9-LW14 are marked in Appendix 7, figure 7.1.

- 78. The Proponent shall ensure that the management plans required under conditions 77(g)-(l) above include:
 - (a) an assessment of the potential environmental consequences of the Extraction Plan, incorporating any relevant information that has been obtained since this approval; and
 - (b) a detailed description of the measures that would be implemented to remediate predicted impacts.

First Workings

79. The Proponent may carry out first workings on site other than in accordance with an approved Extraction Plan, provided that Resources Regulator is satisfied that the first workings are designed to remain long-term stable and non-subsiding, except insofar as they may be impacted by approved second workings.

Payment of Reasonable Costs

80. The Proponent shall pay all reasonable costs incurred by the department to engage suitably qualified, experienced and independent experts to review the adequacy of any aspect of an Extraction Plan.

SCHEDULE 4 ADDITIONAL PROCEDURES

NOTIFICATION OF LANDOWNERS/TENANTS

- 1. By the end of March 2015, the Proponent shall:
 - (a) notify in writing the owners of:
 - (a) any land in Table 1A and any land or residence exceeding the criteria in Tables 2A and 2 (respectively) of Schedule 3 that they have the right to require the Proponent to acquire their land at any stage during the project;
 - (b) any residence on the land listed in Table 3 and any residence exceeding the criteria in Table 3A of Schedule 3 that they have the right to request the Proponent for additional noise mitigation measures to be installed at their residence at any stage during the project; and
 - any privately-owned land within 2 kilometres of the approved open cut mining pit/s that they
 are entitled to ask for an inspection to establish the baseline condition of any buildings or
 structures on their land, or to have a previous property inspection report updated;
 - (b) notify the tenants of any mine-owned land of their rights under this approval; and
 - send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the owners and/or existing tenants of any land (including mine-owned land) where the predictions in the EA identify that dust emissions generated by the project are likely to be greater than the relevant air quality criteria in Schedule 3 at any time during the life of the project.
- 2. Prior to entering into any tenancy agreement for any land owned by the Proponent that is predicted to experience exceedances of the recommended dust and/or noise criteria, or for any of the land listed in Table 3 that is subsequently purchased by the Proponent, the Proponent shall:
 - (a) advise the prospective tenants of the potential health and amenity impacts associated with living on the land, and give them a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time); and
 - (b) advise the prospective tenants of the rights they would have under this approval, to the satisfaction of the Secretary.
- 3. As soon as practicable after obtaining monitoring results showing:
 - (a) (a) an exceedance of any relevant criteria in Schedule 3, the Proponent shall notify affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the project is again complying with the relevant criteria; and
 - (b) an exceedance of the relevant air quality criteria in Schedule 3, the Proponent shall send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and/or existing tenants of the land (including the tenants of any mine-owned land).

INDEPENDENT REVIEW

4. If an owner of privately-owned land considers the project to be exceeding the criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the project on his/her land.

If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision, the Proponent shall:

- (a) commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Secretary, to:
 - consult with the landowner to determine his/her concerns;
 - conduct monitoring to determine whether the project is complying with the relevant impact assessment criteria in Schedule 3; and
 - if the project is not complying with these criteria then:
 - o determine if more than one mine is responsible for the exceedance, and if so the relative share of each mine regarding the impact on the land;
 - identify the measures that could be implemented to ensure compliance with the relevant criteria; and
- (b) give the Secretary and landowner a copy of the independent review.

5-9. (deleted)

LAND ACQUISITION

- 10. Within 3 months of receiving a written request from a landowner with acquisition rights, the Proponent shall make a binding written offer to the landowner based on:
 - (a) the current market value of the landowner's interest in the land at the date of this written request, as if the land was unaffected by the project, having regard to the:
 - existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and

- presence of improvements on the land and/or any approved building or structure which has been physically commenced at the date of the landowner's written request, and is due to be completed subsequent to that date, but excluding any improvements that have resulted from the implementation of the additional noise and/or air quality mitigation measures in conditions 4 and 5 of Schedule 3;
- (b) the reasonable costs associated with:
 - relocating within the Mid-western Regional local government area, or to any other local government area determined by the Secretary; and
 - obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired; and
- (c) reasonable compensation for any disturbance caused by the land acquisition process.

However, if at the end of this period, the Proponent and landowner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Secretary for resolution.

Upon receiving such a request, the Secretary will request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer to:

- consider submissions from both parties;
- determine a fair and reasonable acquisition price for the land and/or the terms upon which the land is to be acquired, having regard to the matters referred to in paragraphs (a)-(c) above;
- prepare a detailed report setting out the reasons for any determination; and
- provide a copy of the report to both parties.

Within 14 days of receiving the independent valuer's report, the Proponent shall make a binding written offer to the landowner to purchase the land at a price not less than the independent valuer's determination.

However, if either party disputes the independent valuer's determination, then within 14 days of receiving the independent valuer's report, they may refer the matter to the Secretary for review. Any request for a review must be accompanied by a detailed report setting out the reasons why the party disputes the independent valuer's determination. Following consultation with the independent valuer and both parties, the Secretary will determine a fair and reasonable acquisition price for the land, having regard to the matters referred to in paragraphs (a)-(c) above, the independent valuer's report, the detailed report of the party that disputes the independent valuer's determination and any other relevant submissions.

Within 14 days of this determination, the Proponent shall make a binding written offer to the landowner to purchase the land at a price not less than the Secretary's determination.

If the landowner refuses to accept the Proponent's binding written offer under this condition within 6 months of the offer being made, then the Proponent's obligations to acquire the land shall cease, unless the Secretary determines otherwise.

11. The Proponent shall pay all reasonable costs associated with the land acquisition process described in condition 10 above, including the costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.

SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, AUDITING AND REPORTING

ENVIRONMENTAL MANAGEMENT

Environmental Management Strategy

- 1. The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:
 - (a) be submitted to the Secretary for approval within 6 months of the date of this approval;
 - (b) provide the strategic framework for environmental management of the project;
 - (c) identify the statutory approvals that apply to the project;
 - (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;
 - (e) describe the procedures that would be implemented to:
 - keep the local community and relevant agencies informed about the operation and environmental performance of the project;
 - receive, handle, respond to, and record complaints;
 - resolve any disputes that may arise;
 - respond to any non-compliance;
 - respond to emergencies; and
 - (f) include:
 - copies of any strategies, plans and programs approved under the conditions of this approval;
 and
 - a clear plan depicting all the monitoring to be carried out in relation to the project.

Adaptive Management

2. The Proponent must assess and manage project-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this approval and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.

Where any exceedance of these criteria and/or performance measures has occurred, the Proponent must, at the earliest opportunity:

- (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur;
- (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and
- (c) implement remediation measures as directed by the Secretary,
- to the satisfaction of the Secretary.

Management Plan Requirements

- 3. The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:
 - (a) detailed baseline data;
 - (b) a description of:
 - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
 - any relevant limits or performance measures/criteria;
 - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures;
 - (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
 - (d) a program to monitor and report on the:
 - impacts and environmental performance of the project;
 - effectiveness of any management measures (see c above);
 - (e) a contingency plan to manage any unpredicted impacts and their consequences;
 - (f) a program to investigate and implement ways to improve the environmental performance of the project over time;
 - (g) a protocol for managing and reporting any:
 - incidents;
 - complaints;
 - non-compliances with statutory requirements; and
 - exceedances of the impact assessment criteria and/or performance criteria; and
 - (h) a protocol for periodic review of the plan.

Annual Review

- 4. By the end of March each year, or other timing as may be agreed by the Secretary, the Proponent shall review the environmental performance of the project to the satisfaction of the Secretary. This review must:
 - (a) describe the development that was carried out in the previous calendar year, and the development that is proposed to be carried out over the next year;
 - (b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against the
 - the relevant statutory requirements, limits or performance measures/criteria;
 - the monitoring results of previous years; and
 - the relevant predictions in the EA;
 - (c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;
 - (d) identify any trends in the monitoring data over the life of the project;
 - (e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and
 - (f) describe what measures will be implemented over the next year to improve the environmental performance of the project.

Revision of Strategies, Plans and Programs

- 5. Within 3 months of the submission of:
 - (a) the submission for annual review under condition 4 above;
 - (b) the submission for incident report under condition 7 below;
 - (c) the submission for audit under condition 9 below; or
 - (d) any modification of this approval,

the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within four weeks of the review the revised document must be submitted to the Secretary for approval.

Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.

Community Consultative Committee

6. The Proponent shall operate a Community Consultative Committee (CCC) for the Moolarben mine complex to the satisfaction of the Secretary. This CCC must be operated in general accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (Department of Planning, 2007, or its latest version).

Notes:

- The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval; and
- The CCC should be comprised of an independent chair and appropriate representation from the Proponent, Council, recognised environmental groups and the local community.

REPORTING

Incident Reporting

7. The Proponent shall immediately notify the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the project, the Proponent shall notify the Secretary and any other relevant agencies as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of the date of the incident, the Proponent shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

Regular Reporting

8. The Proponent shall provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval.

AUDITING

- 9. By 31 December 2015, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:
 - (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
 - (b) include consultation with the relevant agencies;

- (c) assess the environmental performance of the project and assess whether it is complying with the requirements in this approval, and any other relevant approvals, relevant EPL/s and/or Mining Lease (including any assessment, plan or program required under these approvals);
- (d) review the adequacy of any approved strategy, plan or program required under the abovementioned approvals; and
- (e) recommend measures or actions to improve the environmental performance of the Moolarben mine complex, and/or any strategy, plan or program required under these approvals.

Note:

- Notwithstanding the timing referred to above, audits must be carried out prior to the completion of longwall panels 4 and 8. The Proponent must liaise with the Department to determine the precise date of these audits.
- This audit team should be led by a suitably qualified auditor, and include experts in the field of subsidence, surface water and groundwater management, noise, ecology and mine rehabilitation.
- 10. Within 6 weeks of completing this audit, or as otherwise agreed by the Secretary, the Proponent shall submit a copy of the audit report to the Secretary with a response to any recommendations contained in the audit report.

ACCESS TO INFORMATION

- 11. The Proponent shall:
 - (a) make the following information publicly available on its website:
 - the EA:
 - current statutory approvals for the project;
 - approved strategies, plans or programs required under the conditions of this approval;
 - a comprehensive summary of the monitoring results of the project, which have been reported
 in accordance with the various plans and programs approved under the conditions of this
 approval:
 - a complaints register, which is to be updated on a monthly basis;
 - minutes of CCC meetings;
 - the last five annual reviews;
 - any independent environmental audit, and the Proponent's response to the recommendations in any audit;
 - any other matter required by the Secretary; and
 - (b) keep this information up to date,
 - (c) investigate and report on reasonable and feasible measures to make predictive meteorological data and real time monitoring data publicly available on its website

to the satisfaction of the Secretary.

APPENDIX 1: SCHEDULE OF LAND

Lot and Deposited Plan Number	Tenure Type
Lot 1 DP115031	Freehold
Pt Lot 1 DP803204	Freehold
Lot 1 DP817487	Freehold
Pt Lot 102 DP755442	Freehold
Lot 107 DP755442	Freehold
Lot 108 DP755442	Freehold
Lot 109 DP755442	Freehold
Pt Lot 11 DP1152406	Freehold
Lot 110 DP755442	Freehold
Pt Lot 112 DP755454	Freehold
Pt Lot 113 DP755454	Freehold
Lot 119 DP755442	Freehold
Pt Lot 140 DP755442	Freehold
Lot 145 DP755442	Freehold
Lot 146 DP755442	Freehold
Pt Lot 157 DP755442	Freehold
Lot 16 DP755442	Freehold
Pt Lot 167 DP755442	Freehold
Lot 17 DP755442	Freehold
Pt Lot 170 DP755442	Freehold
Pt Lot 172 DP755442	Freehold
Lot 18 DP755442	Freehold
Pt Lot 183 DP755442	Freehold
Lot 19 DP755442	Freehold
Pt Lot 192 DP755442	Freehold
Pt Lot 193 DP755442	Freehold
Lot 2 DP115031	Freehold
Pt Lot 2 DP878678	Freehold
Pt Lot 205 DP755442	Freehold
Pt Lot 218 DP755442	Freehold
Lot 223 DP755442	Freehold
Pt Lot 228 DP755442	Freehold
Pt Lot 229 DP755442	Freehold
Lot 234 DP755442	Freehold
Pt Lot 238 DP755442	Freehold
Lot 248 DP755442	Freehold
Pt Lot 260 DP755442	Freehold
Pt Lot 261 DP755442	Freehold
Pt Lot 262 DP755442	Freehold
Pt Lot 289 DP704098	Freehold
Pt Lot 3 DP878678	Freehold
Pt Lot 37 DP755442	Freehold
Lot 40 DP755442	Freehold

Lot and Deposited Plan Number	Tenure Type
Lot 44 DP755442	Freehold
Lot 45 DP755442	Freehold
Lot 50 DP755442	Freehold
Lot 51 DP755442	Freehold
Lot 52 DP755442	Freehold
Lot 53 DP755442	Freehold
Pt Lot 6 DP115031	Freehold
Pt Lot 6 DP878678	Freehold
Pt Lot 60 DP755442	Freehold
Pt Lot 61 DP755442	Freehold
Pt Lot 62 DP755442	Freehold
Lot 63 DP755442	Freehold
Lot 64 DP755442	Freehold
Pt Lot 7 DP878678	Freehold
Lot 89 DP755442	Freehold
Pt Lot 93 DP755442	Freehold
Pt Lot 93 DP755454	Freehold
Pt Lot 95 DP755442	Freehold
Pt Lot 96 DP755454	Freehold
Pt Lot 97 DP755454	Freehold
Lot 98 DP755442	Freehold
Lot 99 DP755442	Freehold
Pt Lot 65 DP755442	Freehold
Pt Lot 208 DP755442	Freehold
Pt Lot 4 DP575167	Freehold
Pt Lot 88 DP755442	Freehold
Lot 152 DP755442	Crown
Lot 290 DP704098	Crown
Pt Lot 125 DP755442	Freehold
Pt Lot 91 DP755442	Freehold
Lot 242 DP755442	Freehold
Pt Lot 7009 DP1025321	Crown
Pt Lot 204 DP755442	Crown
Lot 176 DP755442	Crown
Lot 7010 DP1025345	Crown
Pt Lot 92 DP755442	Freehold
Lot 277 DP755442	Freehold
Pt Lot 253 DP755442	Freehold
Lot 272 DP755442	Freehold
Pt Lot 1 DP1089166	Freehold
Pt Lot 1 DP1099037	Freehold
Lot 179 DP755442	Freehold
Lot 1 DP722881	Freehold
Lot 55 DP722794	Crown
Lot 20 DP755439	Freehold

Lot and Deposited Plan Number	Tenure Type
Lot 33 DP755439	Crown
Lot 178 DP755442	Freehold
Pt Lot 1 DP720332	Freehold
Lot 2 DP722882	Freehold
Lot 56 DP722795	Crown
Pt Lot 75 DP750773	Freehold
Lot 45 DP736630	Freehold
Lot 3 DP722882	Freehold
Lot 7005 DP1096180	Crown
Lot 34 DP755439	Crown
Lot 7004 DP1116207	Crown
Pt Lot 7303 DP1143562	Crown
Lot 7302 DP1143562	Crown
Pt Lot 13 DP1152406	Freehold
Lot 17 DP1140073	Freehold
Lot 16 DP1140073	Freehold
Lot 18 DP1140073	Freehold
Lot 20 DP1140073	Freehold
Lot 1 DP1214133	Freehold
Pt Lot 3 DP1214133	Freehold
Pt Lot 5 DP1240416	Freehold
Pt Lot 31 DP755439	Crown
Pt Lot 44 DP736630	Freehold
Pt Lot 43 DP736630	Crown
Pt Lot 1 DP1246895	Freehold
Pt Lot 2 DP1246895	Freehold
Other Land	
Roads located between or adjacent to the above parcels of land Creeks or streams located between or adjacent to the above	Council and Crown
parcels of land	Crown
Sandy Hollow – Gulgong Railway	State Rail Authority

APPENDIX 2: GENERAL LAYOUT OF PROJECT

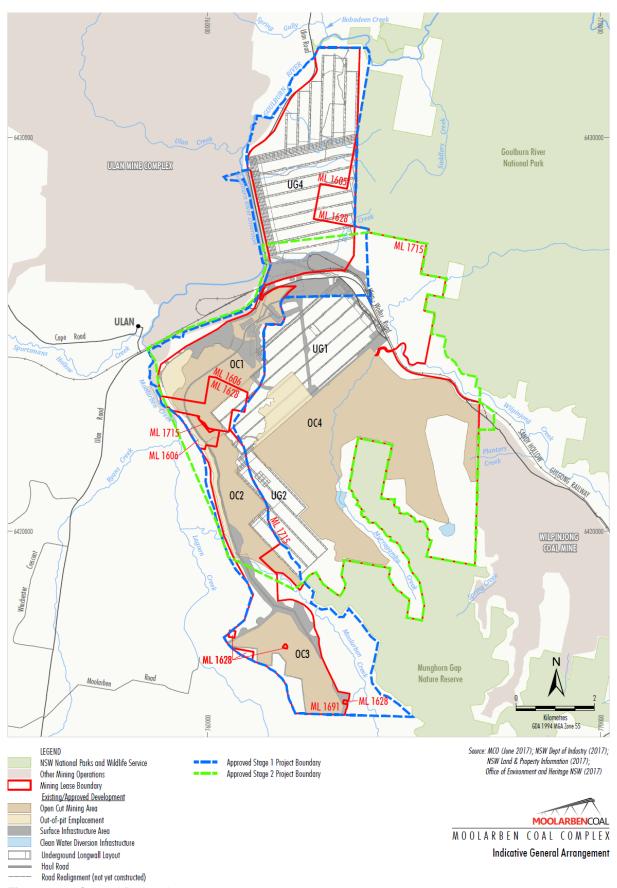


Figure 2.1 – General Project Arrangement

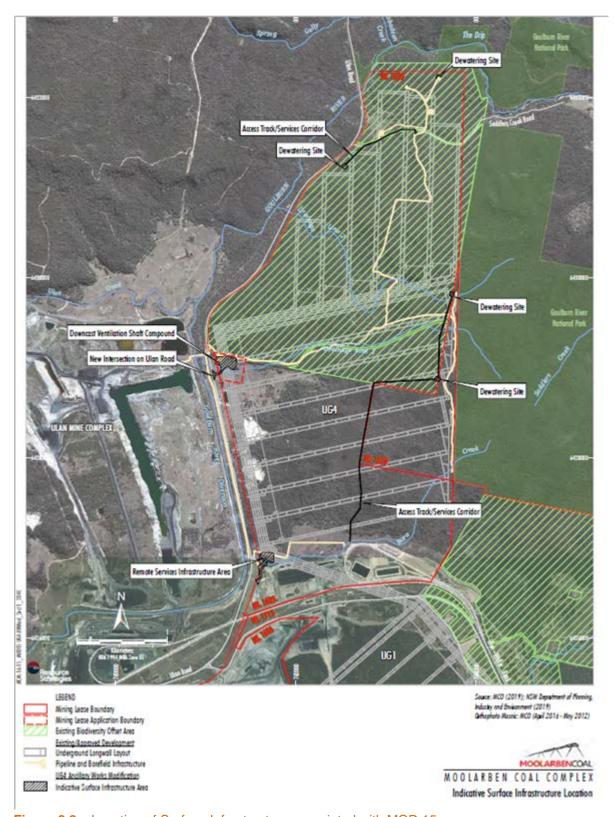


Figure 2.2 – Location of Surface Infrastructure associated with MOD 15

APPENDIX 3: STATEMENT OF COMMITMENTS

(1) Protect The Drip and Goulburn River Corner Gorge

The Drip and the Goulburn River Corner Gorge are shown on the plan titled "Moolarben Coal Mine – Preferred Mine Plan General Layout" contained in Appendix A9 to the "Moolarben Coal Project Response to Submissions".

Moolarben will conduct its underground mining operations consistent with the Preferred Project Underground No. 4 layout to protect the Goulburn River features known as the Drip, the Goulburn River Corner Gorge and associated cliffs so that there is no damage whilst seeking to maximise recovery of coal resources and as may be required by any conditions of project approval for the Moolarben Coal Project.

(2) Shift Change

Moolarben undertakes to schedule its major employee shift changes to times outside the hours of 8.15 to 9.00 am and 3.15 to 4.00 pm Monday to Friday to seek to reduce overlap of employee traffic and school transport and as may be required by any conditions of project approval for the Moolarben Coal Project.

(3) Replace Water

Moolarben will compensate or replace waters (similar quality and quantity) lost by a private landholder as a consequence of the Moolarben Coal Project in accordance with the adopted protocols and procedures contained in the Moolarben Coal Project Environmental Management System and as may be required by any conditions of project approval for the Moolarben Coal Project.

(4) Environmental Management System

Moolarben will prepare and implement an Environmental Management System containing Environmental Management Plans, and Mine Operating Plan for the life of the Moolarben Coal Project consistent with the Environmental Assessment Report, the Response to Submissions Report, the Preferred Project Report, subsequent modification applications and as may be required by any conditions of project approval for the Moolarben Coal Project.

(5) Noise in School Rooms

Moolarben in consultation with the Ulan Public School and the Department of Education will undertake agreed works to ameliorate potential noise and dust impacts associated with the Moolarben Coal Project upon classrooms and general school operations.

Moolarben will, should the Department of Education request, on a reasonable basis relating to the effect of noise and dust from the Moolarben Coal Project, negotiate to contribute to or meet reasonable costs toward relocating the school.

(6) Land Purchase Commitment

Moolarben will accept an obligation to purchase (if so required by any affected private landholder) any land affected by operations of the Moolarben Coal Project in accordance with any requirement to do so as provided in any project approval for the Moolarben Coal Project.

(7) Mine Water Sharing Plan

Moolarben will seek to enter into a mine water sharing plan in respect of mining operations of the Ulan Coal Mine and Wilpinjong Coal Mine under the auspices of the Director General of the Department of Planning and as may be required by any conditions of project approval for the Moolarben Coal Project.

(8) **Voluntary Planning Agreement**

Moolarben will enter into a Voluntary Planning Agreement with Mid Western Regional Council and the Minister for Planning incorporating the principles contained in the offer by Moolarben to the Minister for Planning on 4 September 2007 to enter into the Voluntary Planning Agreement.

(9) Employ Local People

Moolarben will, wherever possible and feasible, employ appropriately qualified persons residing within the local area.

(10) Traineeships

Moolarben will provide traineeships for the youth of the local community.

(11) Dronvisa Quarry

Moolarben will seek to enter into an operational agreement with Dronvisa Quarry with regard to the safe continuation of its operations in conjunction with underground mining.

(12) Ecology

Moolarben will enter into such arrangements as may be required by the Secretary to provide for ecological offsets as proposed in the Environmental Assessment, Preferred Project Report, subsequent modification applications and as may be required by any conditions of project approval for the Moolarben Coal Project.

(13) Flows in the Goulburn River – Co-operative Monitoring Program

Moolarben will use its reasonable endeavours to agree and implement a monitoring program in cooperation with the Ulan and Wilpinjong mines (and to the reasonable requirement of the Director General who will consult with the NOW) to identify any potential for any change in the water flows in the Goulburn River due to mining at the Moolarben, Ulan and Wilpinjong mines and as may be required by any conditions of project approval for the Moolarben Coal Project.

(14) Mine Water Management and Salinity – Sharing with Ulan and Wilpinjong
Moolarben will use its reasonable endeavours to agree and implement a co-operative
arrangement with and enter into a life of mine agreement between the Ulan and
Wilpinjong mines (the "Mines") to establish, implement and operate water sharing and
use plans and procedures with the objective of minimising the removal by the Mines of
water from the environment and the discharge of minewaters by the Mines to the
environment and which shall address the ability of the Mines to utilise mine water
produced by the Mines between the Mines and as may be required by any conditions of

project approval for the Moolarben Coal Project.

(15) Salinity Off Sets

- Bobadeen Irrigation Scheme ("BIS") - Salinity Offset Management Plan ("SOMP") In the event that the Moolarben Coal Project reduces the capacity for the removal of salt from the Salinity Offset Management Plan area operated by Ulan Mine in conjunction with the Bobadeen Irrigation Scheme under Environment Protection Licence 394, then Moolarben will, at its election, either:

- take from Ulan that volume of water that would otherwise have been used in the BIS; OR
- provide an area of land with equivalent salt removal capacity; AND
- any disputed issue will be determined by an appropriately qualified expert agreed between Moolarben and Ulan and in default appointed by the Director General of Planning.

(16) Haulage of Coal to the West by Rail

Prior to the haulage of coal by rail to the west of the Moolarben Coal Project, Moolarben shall notify the Secretary with details of expected tonnages, train size and rail scheduling and where practicable schedule rail haulage during daylight hours only through the town of Mudgee as may otherwise be required by any conditions of project approval for the Moolarben Coal Project.

(17) Traffic Management – Mid Western Regional Council

Moolarben acknowledges the need for it to contribute to the upgrade and maintenance of aspects of the local road system affected by the operation of the Moolarben Coal Project and commits to implement the Voluntary Planning Agreement in satisfaction of the principles of that agreement.

(18) Additional Management and Mitigation – Modification of Stage 1

Moolarben commits to implementing the following management and mitigation measures to ensure that impacts associated with modifications to the Moolarben Coal Project are minimised.

Environmental Aspect	Management and Mitigation Commitments
Air quality	 Management and monitoring of air quality will continue to be undertaken in accordance with the best management practices set out in an approved Air Quality Management Plan. Dust control measures will be used on internal haul roads. Raw coal transfer and rejects conveyors will be partially enclosed. Dust sprays will be fitted to the dump hopper. Water carts will be used to minimise dust generation from unsealed access tracks and construction areas, where required. A TEOM will be located to the southwest of the project to enable pro-active dust management and compliance monitoring for private residences to the south of the project prior to mining in Open Cut 2. Use of a TEOM located to the northeast of the project for measuring background dust levels. MCO will continue to report annually in the AEMR, the total amount of greenhouse gas emissions from the MCP and the effectiveness of measures implemented to achieve energy savings.
Noise	 Management and monitoring of noise will continue to be undertaken in accordance with an approved Noise Management Plan, including proactive and reactive management. MCO further commits to: Limiting northern borefield construction hours from 7am to 6pm Monday to Friday (inclusive). Fitting haul trucks with noise attenuation equipment to meet sound power levels assumed in the Stage 1 EA and subsequent noise Impact assessments Specifying sound power levels in supply contracts for mobile plant and equipment, where appropriate. Fitting northern borefield water supply/dewatering bores with submersible pumps. Use of a temporary power supply generator located near the borefield pipeline outlet, at least 4km from the nearest private residence, unless power is provided from the electricity network. Maintaining awareness of best practice noise mitigation technologies and alternative operating methodologies, and continuing to investigate the potential for further noise reductions to the haul truck fleet through potential additional noise attenuation and mitigation opportunities (such as Duratray). Designing and locating the haul roads behind earthen bunds as far as practically possible.

Environmental Aspect	Management and Mitigation Commitments
	 Where possible, construction works in areas of known and potential threatened woodland species habitat will be avoided during their breeding cycle. Pre-clearing fauna surveys will be undertaken prior to ground clearing disturbance. One of two hollow bearing trees within the rail loop alignment will be retained (where possible). Tree hollows and other habitat features will be salvaged for use as compensatory habitat, in rehabilitation areas. The cleared area along the mining lease boundary will be rehabilitated and revegetated to enable cleared EEC to re-establish. Disturbed areas not required for ongoing access and maintenance will be rehabilitated. Endemic species will be used to supplement natural vegetation regeneration, where required. Groundcover will be maintained to minimise the risk of soil erosion, wherever practicable. Feral animals, weeds and pests will be controlled. MCO further commits to: Undertake a detailed flora and fauna inventory and mapping of the vegetation types and threatened species for properties proposed to offset the clearing impacts of the Open Cut 1 and Open Cut 2 extension areas. Manage offset and rehabilitation areas in accordance with a Rehabilitation and Offset Management Plan (ROMP or equivalent plan) to improve biodiversity outcomes. Provide adequate funds to implement the management measures described in the ROMP. Implement the management actions specific to each property and report annually on the implementation of the plan to relevant stakeholders. Provide long-term security of offset areas through an appropriate mechanism (such as a conservation covenant) agreed to with relevant stakeholders. Provide long-term security of a nominated offset property is not achievable. Investigate potential roosting sites for bat activity on properties proposed to offset the impacts of Open Cut 1 and Open Cut 2 extension areas. Investigate vas of ar
	 Investigate potential roosting sites for bat activity on properties proposed to offset the impacts of Open Cut 1 and Open Cut 2 extension areas. Investigate use of artificial roosting sites for microbat habitat augmentation where offset areas are determined not to have sufficient roosting habitat. Carry out targeted spring surveys for Diuris Tricolor in potential habitat areas
	 2004). Review land use history of Derived Native Grassland offset areas (including, where possible, cultivation, fertiliser application, soil nutrient levels and ground cover species) to inform appropriate management and performance and completion criteria. Where monitoring indicates these areas are not recovering as expected within the first five years of management alternative management measures will be investigated. Maintain existing third party access arrangements on offset properties, where required. Progressive rehabilitation of disturbed areas and re-use of habitat features (e.g. hollow logs, rocks) in rehabilitation areas to minimise the habitat resource

Environmental Aspect	Management and Mitigation Commitments
Cultural heritage	Cultural heritage sites will be monitored and managed according to the measures described in an approved Heritage Management Plan.
	 Cultural heritage sites adjacent to and outside construction, mining and general disturbance areas will have appropriate controls in place to prevent potential disturbance.
	 Cultural heritage monitoring and salvage will be undertaken by a qualified archaeologist and members of the Aboriginal Stakeholder community groups (Mudgee Local Aboriginal Land Council based in Mudgee; North-East Wiradjuri Pty Ltd, based in Ulan; Murong Gialinga Aboriginal and Torres Strait Islander Corporation, based in Mudgee; and Warrabinga Native Title Claimants Aboriginal Corporation, based in Kandos).
	Where additional cultural heritage sites are identified, these sites will be managed in accordance with the measures described in the Heritage Management Plan.
	 Local Aboriginal community representatives will be involved in the recording, salvaging and storing of cultural heritage objects impacted by site works.
	The Heritage Management Plan will be updated to include:
	- Additional registered parties as necessary.
	- Sub-surface testing and potential salvage of S1MC343-345 and S1MC352 where
	blasting is assessed to adversely impact these sites.
	- Test excavation and potential salvage of \$1MC331.
Water	Erosion and sediment control measures detailed in an approved Erosion and Sediment Control Plan (or equivalent) will be implemented.
	Water pressure will be monitored at the inlet and outlet of the water sharing and borefield pipeline network, and the entire length of pipeline will be inspected regularly.
	 In the event that a leak or loss of pressure is detected in the water sharing or borefield pipeline network, pumping in that portion of the pipeline network will cease and the resultant cause investigated and remediated.
	 Management and monitoring of surface water and groundwater will be undertaken in accordance with an approved Water Management Plan, which will be reviewed and updated, as necessary, to include the Open Cut 1 and Open Cut 2 extension areas and additional surface water management infrastructure. As part of this review, MCO will liaise with the NOW on the water licensing requirements for the open cut extension areas.
	 MCO is committed to the effective management of water in the modified landform and where required will develop strategies to this effect, including returning rehabilitated areas to clean water catchments as promptly as practically possible.
	 MCO will abide by the rules of any relevant water sharing plan and return water where required.
Rehabilitation	Soils will be stockpiled and used to rehabilitate areas not required for ongoing operations.
	MCO is committed to progressively rehabilitating mined areas as soon as practical following disturbance, in accordance with an approved Rehabilitation Management Plan. The plan will be updated, as required, to include the Open Cut 1 and Open Cut 2 extension areas. The plan will consider use of terrestrial riparian buffers.
	The majority of the Open Cut 1 and Open Cut 2 extension areas will be rehabilitated for biodiversity outcomes.
Traffic	Appropriate traffic management will be implemented for Ulan Road for construction vehicles entering and leaving the site to Ulan Road and along Saddlers Creek Road, where required.
	 MCO is committed to participate in the Ulan Road Strategy and will continue to consult with MWRC in relation to local road strategies.

Environmental Aspect	Management and Mitigation Commitments
	Trees and shrubs will be planted to provide a visual screen: To the switch and bore pads located adjacent to Saddiers Creek Road, where required. Along the southern edge of Cope Road, where views of Open Cut 1 extension areas will be possible, subject to landowner consent. The Landscape Management Plan (or equivalent) will be reviewed and updated to describe the measures that will be implemented to manage visual impacts associated with the Open Cut 1 and Open Cut 2 extension areas, such as: Vegetation screen planting, subject to land owner's consent, along the southern edge of Cope Road, in areas visually affected by direct views of the Open Cut 1 extension area. Investigating the feasibility of targeted vegetation screen planting for affected properties along Ridge Road (with direct views from the residence to both Open Cut 1 and Open Cut 2 extension areas), to mitigate the visual and lighting impacts of Open Cut 1 and Open Cut 2 extension areas, subject to landowner consent. Building-up out-of-pit embankments first so that continued operations are obscured by the embankment. Wherever possible out-of-pit emplacements around the perimeter will be established first, providing a visual screen while work is undertaken in the central part of the emplacement. Seeding and grassing embankment outer faces visually exposed to private residents as soon as practically possible to soften the view. Where possible, maintaining a strip of vegetation along the leading face of the ridgeline associated with the Open Cut 1 extension area to provide a visual screen to workings for as long as practical. Use of operational screening measures such as landform re-establishment sequencing and lighting management. Progressive rehabilitation. As far as practically possible, and where mine safety allows, management protocols will be established and implemented to: Locate mobile lighting plant to be directed away from private residences. Direct stationary lighting sources below the horizon
Social	 Design lighting systems that minimise light spillage. Avoid lighting of light coloured surfaces that have greater reflectivity. MCO is committed to prevent or minimise negative social impacts resulting from the MCP and will use its best endeavours to enhance the social benefits of the Project in accordance with its Environment and Community Policy.

APPENDIX 4: VOLUNTARY PLANNING AGREEMENT

Funding Area	Minimum Proponent Contribution	Funding Time Frame
Monetary Contribution – open cut product coal	\$1,000,000	Three equal instalments to be paid over a three year period, with the first annual instalment to be paid within seven days of the first loading and dispatch of coal produced from the open cut operations from the Project.
Monetary Contribution – underground product coal	\$300,000	One instalment to be paid within seven days of the first loading and dispatch of coal produced from the underground operations of the Project.
Road Maintenance Contribution – Cope Road and Ulan Road	\$1,000,000	Three equal instalments to be paid over a three year period, with the first instalment to be paid within seven days of the commencement of construction \$62,500 each year for a period of 20 years with
Road Maintenance Contribution – General	\$1,250,000	the first instalment to be paid on the first anniversary of the first loading and dispatch of coal produced from the operations of the Project.
Community Infrastructure Contribution	\$1,000,000	\$100,000 each year for a period of 10 years with the first instalment to be paid on the first anniversary of the first loading and dispatch of coal produced from the operations of the Project.

Note: The "Road Maintenance Contribution – General" and "Community Infrastructure Contribution" must be reviewed and adjusted to take into account any increase in the CPI over time.

APPENDIX 5: PROPERTY NUMBERS AND LAND OWNERSHIP

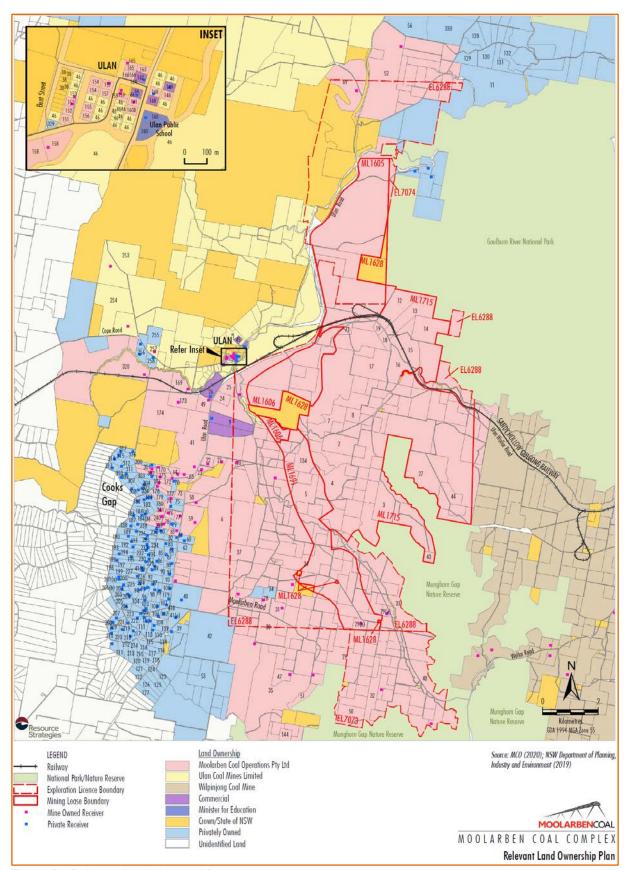


Figure 5.1 Relevant Land Ownership

Ref No	Landholder	Ref No	Landholder	Ref No	Landholder	Ref No	Landholder
	Moolarben Coal Operations Pty Ltd	101	RD & DMZ Hull	188	KR & T Fielding	304	G Balajan
	Orica Australia Pty Limited		PJ Kearns		GA Fay	305	L Barisic & M Aul
	Moolarben Coal Operations Pty Ltd		KA Roberts		T & LK Sahyoun	306	E Armstrong
	JE Mullins & CD Imrie		SB Burnett & SL Grant		BW & TS Lasham	307	M Chant & NK Young
	Moolarben Coal Operations Pty Ltd		RA & LA Deeben		D Williams	308	NA Dower
	Forty North Pty Limited		DJ & N Katsikaris		DJ Moloney	309	GS Maher
	Moolarben Coal Operations Pty Ltd		TB & JH Reid		PM & K Potts	310	KI Death
	T Rheinberger		ZJ & M & AA Raso	195	R Cottam	311	BJ & LC Williamson
	Moolarben Coal Operations Pty Ltd		R Varga		F Saxberg & M Weir	312	MS & JJ Ioannou
	The State of New South Wales		DA Evans		PGG & I Neilsen	313	NJ & BDE Pracy
	RM & DJ Sprigg		SM & JH Papps		GR & ME Metcalfe PGG & I Nielsen	314 315	SL Ford
	JM Devenish		GJ & NJ McEwan				WJ Richards & BJ Uzelac
	Moolarben Coal Operations Pty Ltd		MJ & LM Croft CPG Ratcliff	200 201	VK Grimshaw KR & GM Towerton	316	CR Vassel & CM Williams
	PP Libertis C & L Schmidt		TF & K Holland		H & VF Butler	317 320	RJ Hore & V Bingham Moolarben Coal Operations Pt
	Moolarben Coal Operations Pty Ltd		PR McLean	202	DJ Miller	329	G Tuck-Lee
	Advance Energy		DJ & SM Reid		RB & JE Donnan	330	Nwiran Pty Limited
	Moolarben Coal Operations Pty Ltd/		IM Dick		DW Sparrow & M Tallan	000	minum rry Milliou
	Ulan Coal Mines Limited		A Scott		CA Marshall & R Vella		
			PJ Kearns		AA & DM Smith		
	Moolarben Coal Operations Pty Ltd		PS & DR Ord		SA & CR Hasaart		
	WD & MS Bryant		EJ Cullen		F Mawson		
	V Cundy		WF Wirth		JM & AM Tebutt		
	Moolarben Coal Operations Pty Ltd	123	G Tuck-Lee & Symons	211	SA McGregor & WJ Gray		
	CL Rayner & DM Mundey		WJ & HE Bailey		E & M Lepik		
	TJ O'Malley	125	DB McBride		D & J Parsonage		
	R Menchin	126	MP Julian		RK & EG O'Neil		
3	Moolarben Coal Operations Pty Ltd	127	BKT & SA Bracken	215	SG & PM Green		
4	Moolarben Coal Operations Pty Ltd	128	AW Sims	216	G Holland & FA Handicott		
	Rostherne Pty Limited	129	M Yelds		CA Francis		
9	Moolarben Coal Operations Pty Ltd	130	GP McEwen	219	T & S Riger		
	DJ & A Coventry	131	GR & RA King		SJ Rusten & NJ Smith		
	Moolarben Coal Operations Pty Ltd		N Atkins		The State of New South Wales		
	Moolarben Coal Operations Pty Ltd		Moolarben Coal Operations Pty Ltd	222	BJ Purtell		
	P Ban		Moolarben Coal Operations Pty Ltd		EW Palmer & JM Stewart		
	Moolarben Coal Operations Pty Ltd		Moolarben Coal Operations Pty Ltd		RS & PCC Dupond		
	PTJ & SE Nagle		Mid-Western Regional Council		G & RF Doualetas		
	W & D Sebelic		Moolarben Coal Operations Pty Ltd		LAA & FC Muscat		
	Moolarben Coal Operations Pty Ltd		Ulan Coal Mine Limited		WP & JA Hughes		
	SC Hungerford & MC Clemens		Moolarben Coal Operations Pty Ltd		JJ & BA Lowe		
	CF & CR Wall DS Sebelic		Minister For Education And Training		DA Hoole & DT Rawlinson		
	DS Sederic J & Z Nikolovski		Moolarben Coal Operations Pty Ltd Moolarben Coal Operations Pty Ltd		T Morrison & SM Benny L & JA Haaring		
	NW Harris		Rowmint Pty Limited		K & D Boal		
	BJ & K Howe		Moolarben Coal Operations Pty Ltd		D & L Gaw		
	BC Mayers		PJL Constructions Pty Limited		LM & RS Wilson		
	MV & HM Glover & E & BJ Tomlinson		Moolarben Coal Operations Pty Ltd	236	RG & CA Donovan		
	SA Powell		AD & SA McGregor	237	B & S Stokes		
	HM Graham		Moolarben Coal Operations Pty Ltd	238	B Powell		
	VA Pullicino & J, S & G Bonnici		PR Stone		Moolarben Coal Operations Pty Ltd		
	F & M Fenech		Moolarben Coal Operations Pty Ltd		Ulan Coal Limited		
	LK Mittemayer		CD & LL Barrett	255	M Puckeridge		
	BJ Withington		SM Forster	256	RC Campbell		
	D Lazido	182	J Dutoitcook	257	Ulan Coal Limited		
7	DJ & MD Smith	183	R & EA Steines	258	PM & CD Elias		
8	ME & JJ Piper	184	(a&b) LA Stevenson	300	CM Collins & CY Marshall		
9.	JR Moles & AJ Newton	186	RW & IJ Adamson	301-302	Moolarben Coal Operations Pty Ltd		
00	W Ellem	187	BT & KM Feeney	303	HJ Ungaro		

Table 5.1: Landowners

APPENDIX 6: NOISE COMPLIANCE ASSESSMENT

Applicable Meteorological Conditions

- 1. The noise criteria in Table 2 of the conditions are to apply under all meteorological conditions except the following:
 - (a) wind speeds greater than 3 m/s at 10 metres above ground level; or
 - (b) stability category F temperature inversion conditions and wind speeds greater than 2 m/s at 10 m above ground level; or
 - (c) stability category G temperature inversion conditions.

Determination of Meteorological Conditions

1. Except for wind speed at microphone height, the data to be used for determining meteorological conditions shall be that recorded by the meteorological station located on the site.

Compliance Monitoring

- 2. Attended monitoring is to be used to evaluate compliance with the relevant conditions of this approval.
- 3. This monitoring must be carried out at least 12 times a year, unless the Secretary directs otherwise.
- 4. Unless the Secretary agrees otherwise, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the NSW Noise Policy for Industry (as amended from time to time), in particular the requirements relating to:
 - (a) monitoring locations for the collection of representative noise data;
 - (b) meteorological conditions during which collection of noise data is not appropriate;
 - (c) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and
 - (d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.

APPENDIX 7: UNDERGROUND MINE LAYOUT AND LOCATION OF SENSITIVE FEATURES

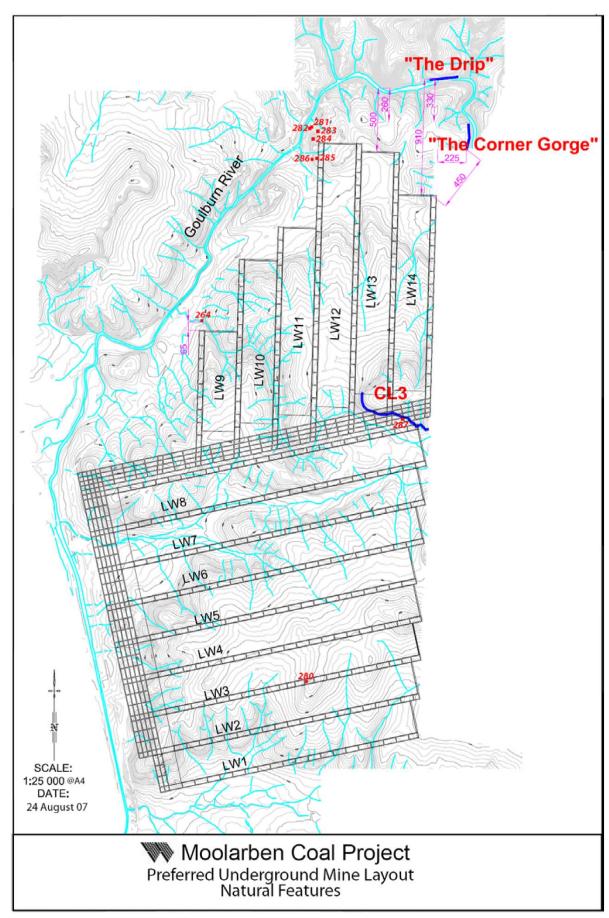


Figure 7.1 Sensitive Natural Features

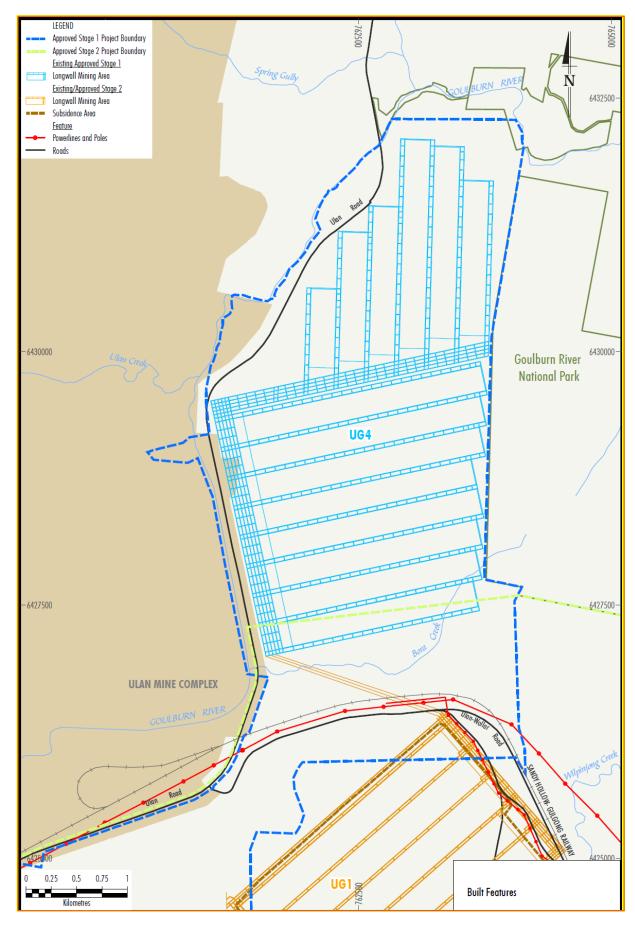


Figure 7.2: Sensitive Built Features

APPENDIX 8: REHABILITATION AND BIODIVERSITY OFFSET STRATEGY

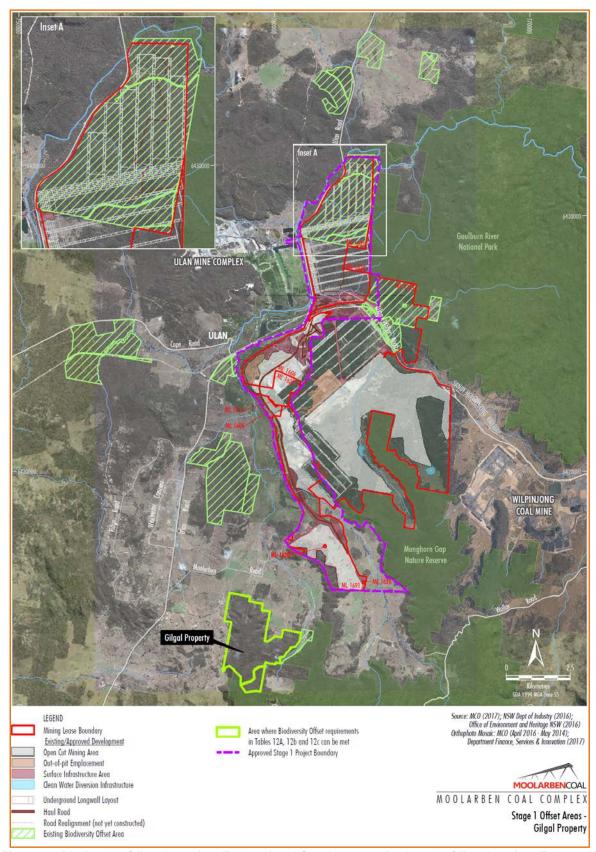


Figure 8.1 Biodiversity Offset Areas (see Table 12) and Supplementary Biodiversity Offset Area (see Table 12A)

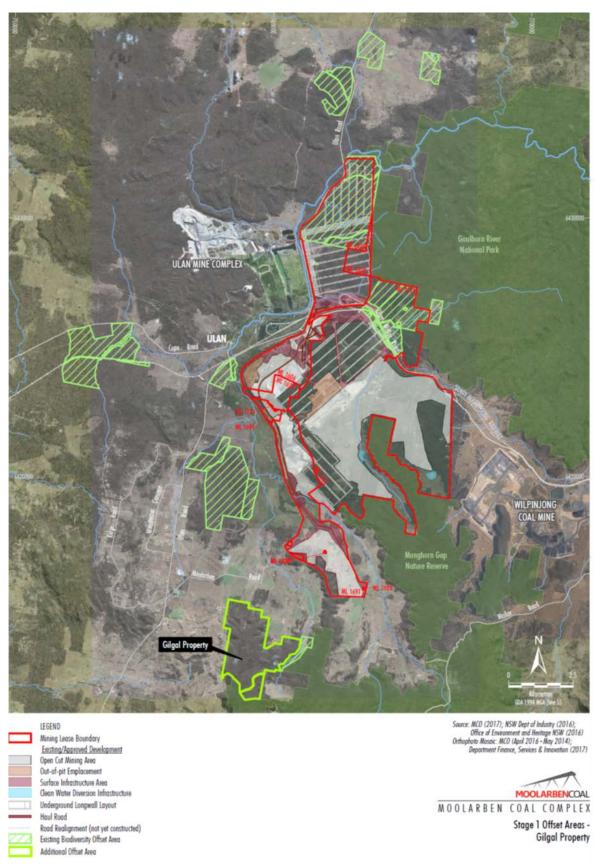


Figure 8.2: Indicative Rehabilitation Areas

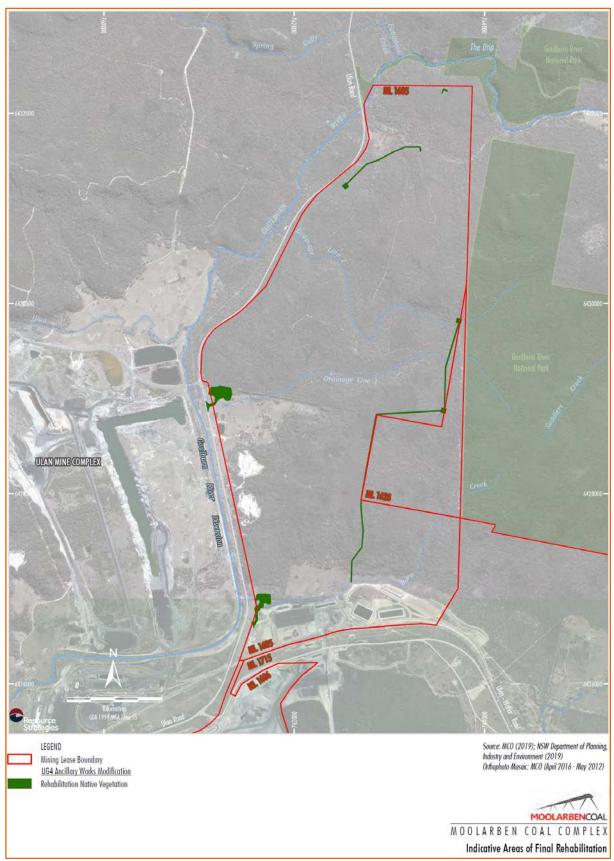
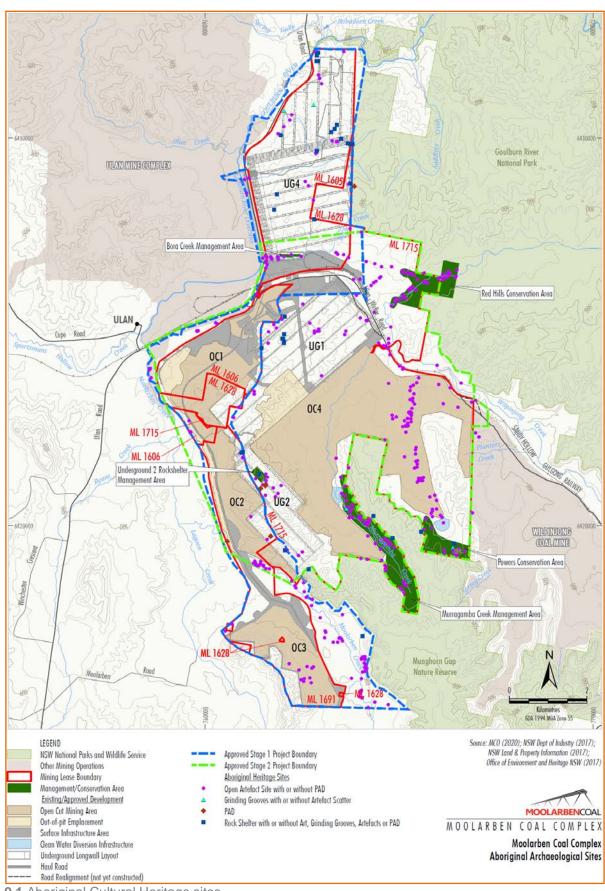


Figure 8.3: Indicative Rehabilitation Areas associated with MOD 15

APPENDIX 9: ABORIGINAL HERITAGE



9.1 Aboriginal Cultural Heritage sites

AHIMS	Site Name	Site Type	AHIMS	Site Name	Site Type
36-3-0691	CE-15-IF	Isolated Find	36-3-2621	S1MC339	Rock shelter with PAD
36-3-0091	MC11	Open Artefact Site	36-3-2622	S1MC339	Rock shelter with PAD
36-3-0237	MC2	Open Artefact Site	36-3-2623	S1MC341	Rock shelter with PAD
36-3-0223	MC4	Open Artefact Site	36-3-2624	S1MC341	Rock shelter with PAD
36-3-0241	MC6	Artefact Scatter	36-3-2625	S1MC342	Rock shelter with PAD
36-3-0240	MC7	Open Artefact Site	36-3-2626	S1MC344	Rock shelter with
30-3-0337	IVIC7	Open Arteract Site	30-3-2020	311010344	artefacts
36-3-0239	MC8	Open Artefact Site	36-3-2627	S1MC345	Rock shelter with PAD
36-3-0222	Moolarben Creek MC1	Artefact Scatter	36-3-2628	S1MC346	Rock shelter with PAD
36-3-3144	MUG1-Mod 1	Isolated Find	36-3-2629	S1MC347	Rock shelter with PAD
36-3-0837	PAD 1 Moolarben Coal	Rock Shelter and PAD	36-3-2630	S1MC348	Rock shelter with PAD
36-3-0956	PAD 10 Moolarben Coal	PAD	36-3-2631	S1MC349	Rock shelter with PAD
36-3-0957	PAD 11	PAD	36-3-2632	S1MC350	Rock shelter with PAD
36-3-0958	Moolarben Coal PAD 12	PAD and Rockshelter	36-3-2633	S1MC351	Rock shelter with PAD
30-3-0936	Moolarben Coal	PAD and Rocksheller	30-3-2033	3 11010331	Rock Stieller with PAD
36-3-0838	PAD 2 Moolarben Coal	Artefact Scatter and PAD	36-3-2634	S1MC352	Rock shelter with PAD
36-3-0839	PAD 3 Moolarben Coal	Artefact Scatter and PAD	36-3-2635	S1MC353	Rock shelter with PAD
36-3-0883	PAD 4 Moolarben Coal	PAD	36-3-2636	S1MC354	Rock shelter with PAD
36-3-0884	PAD 5 Moolarben Coal	PAD	36-3-2660	S1MC355	Artefact Scatter
36-3-0885	PAD 6 Moolarben Coal	PAD	36-3-2661	S1MC356	Isolated Find
36-3-0113	PAD 7 Moolarben Coal	PAD	36-3-2662	S1MC357	Artefact Scatter
36-3-0954	PAD 8 Moolarben Coal	Artefact Scatter and PAD	36-3-1150	S2MC001	Isolated Find
36-3-0955	PAD 9 Moolarben Coal	PAD	36-3-1151	S2MC002	Isolated Find
36-3-0798	S1MC001	Scarred Tree	36-3-1152	S2MC003	Artefact Scatter
36-3-0799	S1MC002	Artefact Scatter	36-3-1153	S2MC004	Isolated Find
36-3-0800	S1MC003	Isolated Find	36-3-1154	S2MC005	Artefact Scatter
36-3-0801	S1MC004	Isolated Find	36-3-1155	S2MC006	Artefact Scatter
36-3-0802	S1MC005	Artefact Scatter	36-3-1156	S2MC007	Isolated Find
36-3-0803	S1MC006	Isolated Find	36-3-1157	S2MC008	Isolated Find
36-3-0804	S1MC007	Isolated Find	36-3-1158	S2MC009	Isolated Find
36-3-0805	S1MC008	Isolated Find	36-3-1159	S2MC010	Artefact Scatter
36-3-0806	S1MC009	Isolated Find	36-3-1160	S2MC011	Isolated Find
36-3-0807	S1MC010	Isolated Find	36-3-1161	S2MC012	Isolated Find
36-3-0808	S1MC011	Artefact Scatter	36-3-1162	S2MC013	Isolated Find
36-3-0809	S1MC012	Isolated Find	36-3-1163	S2MC014	Artefact Scatter
36-3-0810	S1MC013	Isolated Find	36-3-1164	S2MC015	Artefact Scatter
36-3-0811	S1MC014	Isolated Find	36-3-1165	S2MC016	Artefact Scatter
36-3-0812	S1MC015	Isolated Find	36-3-1166	S2MC017	Artefact Scatter
36-3-0813	S1MC016	Isolated Find	36-3-1167	S2MC018	Artefact Scatter and PAD
36-3-0814	S1MC017	Isolated Find	36-3-1168	S2MC019	Isolated Find
36-3-0815	S1MC018	Isolated Find	36-3-1169	S2MC020	Artefact Scatter
36-3-0816	S1MC019	Isolated Find	36-3-1170	S2MC021	Isolated Find
36-3-0817	S1MC020	Isolated Find	36-3-1171	S2MC022	Artefact Scatter
36-3-0818	S1MC021	Isolated Find	36-3-1172	S2MC023	Isolated Find
36-3-0819	S1MC022	Isolated Find	36-3-1173	S2MC024	Isolated Find
36-3-0820	S1MC023	Isolated Find	36-3-1174	S2MC025	Isolated Find
36-3-0821	S1MC024	Isolated Find	36-3-0238	S2MC028, MC10	Open Artefact Site
36-3-0822	S1MC025	Isolated Find	36-3-1175	S2MC029	Artefact Scatter
36-3-0823	S1MC026	Isolated Find	36-3-1176	S2MC030	Artefact Scatter
36-3-0824	S1MC027	Isolated Find	36-3-1177	S2MC031	Isolated Find
36-3-0825	S1MC028	Isolated Find	36-3-1178	S2MC032	Artefact Scatter
36-3-0826	S1MC029	Isolated Find	36-3-1179	S2MC033	Artefact Scatter

	AHIMS	Site Name	Site Type	AHIMS	Site Name	Site Type
363-30828 SIMC031 Isolated Find 363-31181 SZMC036 Isolated Find 363-30830 SIMC033 Isolated Find 363-31183 SZMC037 Isolated Find 363-30831 SIMC033 Isolated Find 363-31184 SZMC038 Infected Scatter 363-30831 SIMC035 Isolated Find 363-31185 SZMC043 Artefact Scatter 363-30831 SIMC036 Isolated Find 363-31185 SZMC040 Artefact Scatter 363-30835 SIMC037 Isolated Find 363-31185 SZMC040 Artefact Scatter 363-30836 SIMC038 Isolated Find 363-31185 SZMC040 Artefact Scatter 363-30845 SIMC040 Artefact Scatter 363-31188 SZMC043 Artefact Scatter 363-30846 SIMC040 Artefact Scatter 363-31189 SZMC044 Artefact Scatter 363-30847 SIMC042 Isolated Find 363-31191 SZMC045 Artefact Scatter 363-30848 SIMC044 Isolated Find 363-31193 SZMC044 Artefact						
363-08029 SIMC032						
363-0831 SIMC034 Solated Find \$36-3-1186 SZMCO39 Artefact Scatter						
363-0832 SIMC036 Solated Find \$63-3-1186 SZMC040 Artefact Scatter 363-0833 SIMC037 Isolated Find \$63-3-1186 SZMC040 Isolated Find 186-3 SIMC037 Isolated Find \$63-3-186 SZMC041 Isolated Find 186-3 SIMC038 Isolated Find 363-3-188 SZMC041 Isolated Find 363-3-186 SZMC043 Artefact Scatter 363-0846 SIMC038 Isolated Find 363-3-1188 SZMC043 Artefact Scatter 363-0846 SIMC040 Artefact Scatter 363-3-1189 SZMC044 Artefact Scatter 363-3-184 SZMC044 Artefact Scatter 363-3-185 SZMC045 Artefact Scatter 363-3-8649 SIMC044 Artefact Scatter 363-3-185 SZMC048 Artefact Scatter 363-3-865 SIMC046 Solated Find 363-3-1193 SZMC048 Artefact Scatter 363-3-865 SIMC046 Solated Find 363-3-1195 SZMC049 Isolated Find 363-3-195 SZMC049 Artefact Scatter 363-3-865 SIMC047 Solated Find 363-3-1195 SZMC050 Artefact Scatter 363-3-865 SIMC047 Solated Find 363-3-1195 SZMC051 Artefact Scatter 363-3-865 SIMC048 Artefact Scatter 363-3-195 SZMC051 Artefact Scatter 363-3-865 SIMC049 Solated Find 363-3-1190 SZMC052 Solated Find 363-3-1190 SZMC052 Artefact Scatter 363-3-865 SIMC051 Solated Find 363-3-1200 SZMC054 Artefact Scatter 363-3-866 SIMC051 Solated Find 363-3-1201 SZMC054 Artefact Scatter 363-3-866 SIMC055 Artefact Scatter 363-3-1201 SZMC054 Artefact Scatter 363-3-868 SIMC055 Artefact Scatter 363-3-1201 SZMC056 Artefact Scatter 363-3-868 SIMC056 Artefact Scatter 363-3-1201 SZMC056 Artefact Scatter 363-3-868 SIMC056 Artefact Scatter 363-3-1204 SZMC056 Artefact Scatter 363-3-868 SIMC056 Artefact Scatter 363-3-86						
363-0833 S1MC036 Isolated Find 363-31186 S2MC040 Artefact Scatter						
1186b						
36-3-0836 S1MC039 Isolated Find 36-3-188 S2MC043 Antefact Scatter 36-3-0846 S1MC041 Isolated Find 36-3-1189 S2MC045 Antefact Scatter 36-3-0846 S1MC042 Isolated Find 36-3-1191 S2MC046 Antefact Scatter 36-3-0848 S1MC043 Antefact Scatter 36-3-1191 S2MC046 Antefact Scatter 36-3-0849 S1MC044 Isolated Find 36-3-1193 S2MC048 Antefact Scatter 36-3-0851 S1MC046 Isolated Find 36-3-1195 S2MC0048 Antefact Scatter 36-3-0851 S1MC046 Isolated Find 36-3-1195 S2MC050 Antefact Scatter 36-3-0852 S1MC047 Isolated Find 36-3-1195 S2MC050 Antefact Scatter 36-3-0853 S1MC048 Isolated Find 36-3-1195 S2MC050 Antefact Scatter 36-3-0855 S1MC050 Isolated Find 36-3-1197 S2MC052 Isolated Find 36-3-1201 S2MC054 Antefact Scatter 36-3-0856 S1MC050 Isolated Find 36-3-1201 S2MC054 Antefact Scatter 36-3-1201 S2MC055 Antefact Scatter 36-3-0857 S1MC052 Isolated Find 36-3-1201 S2MC054 Antefact Scatter 36-3-1201 S2MC055 Antefact Scatter				1186b		
36-3-0846 S1MC040 Artefact Scatter 36-3-1189 S2MC044 Artefact Scatter 36-3-0846 S1MC041 Isolated Find 36-3-1191 S2MC046 Artefact Scatter 36-3-0848 S1MC042 Isolated Find 36-3-1191 S2MC046 Artefact Scatter 36-3-0849 S1MC043 Artefact Scatter 36-3-1192 S2MC047 Artefact Scatter 36-3-0850 S1MC044 Isolated Find 36-3-1193 S2MC046 Artefact Scatter 36-3-0850 S1MC045 Isolated Find 36-3-1194 S2MC049 Isolated Find 36-3-0851 S1MC047 Isolated Find 36-3-1195 S2MC050 Artefact Scatter 36-3-0852 S1MC047 Isolated Find 36-3-1196 S2MC051 Artefact Scatter 36-3-0855 S1MC0504 Isolated Find 36-3-1198 S2MC053 Artefact Scatter 36-3-0855 S1MC050 Isolated Find 36-3-1198 S2MC054 Artefact Scatter 36-3-0855 S1MC050 Isolated Find 36-3-1198 S2MC054 Artefact Scatter 36-3-0856 S1MC051 Isolated Find 36-3-1198 S2MC054 Artefact Scatter 36-3-0858 S1MC053 Artefact Scatter 36-3-1200 S2MC055 Artefact Scatter 36-3-0859 S1MC055 Artefact Scatter 36-3-1201 S2MC056 Artefact Scatter 36-3-0861 S1MC055 Artefact Scatter 36-3-1206 S2MC059 Artefact Scatter 36-3-0862 S1MC055 Artefact Scatter 36-3-1206 S2MC059 Artefact Scatter 36-3-0868 S1MC065 Artefact Scatter 36-3-1206 S2MC059 Artefact Scatter<	36-3-0835	S1MC038	Isolated Find	36-3-1187	S2MC042	Artefact Scatter
36-3-0846 S1MC041 Isolated Find 36-3-1940 S2MC046 Artefact Scatter 36-3-0847 S1MC042 Isolated Find 36-3-1192 S2MC047 Artefact Scatter 36-3-0848 S1MC043 Artefact Scatter 36-3-1193 S2MC047 Artefact Scatter 36-3-0850 S1MC044 Isolated Find 36-3-1193 S2MC047 Artefact Scatter 36-3-0851 S1MC044 Isolated Find 36-3-1195 S2MC050 Artefact Scatter 36-3-0852 S1MC048 Isolated Find 36-3-1195 S2MC051 Artefact Scatter 36-3-0853 S1MC048 Isolated Find 36-3-1197 S2MC052 Isolated Find 36-3-0855 S1MC050 Isolated Find 36-3-1199 S2MC054 Artefact Scatter 36-3-0856 S1MC050 Isolated Find 36-3-1201 S2MC055 Artefact Scatter 36-3-0857 S1MC052 Isolated Find 36-3-1201 S2MC056 Artefact Scatter 36-3-0868 S1MC053 Artefact Scatter 36-3-1203 S2MC057 Artef	36-3-0836	S1MC039	Isolated Find	36-3-1188	S2MC043	Artefact Scatter
363-09487 SIMCO42 Isolated Find 363-1191 SZMCO46 Artefact Scatter 363-0948 SIMCO44 Isolated Find 363-1193 SZMCO48 Artefact Scatter 363-0849 SIMCO44 Isolated Find 363-1194 SZMCO49 Solated Find 363-0851 SZMCO59 Artefact Scatter 363-0850 SIMCO44 Isolated Find 363-1195 SZMCO50 Artefact Scatter 363-0851 SIMCO44 Isolated Find 363-1196 SZMCO50 Artefact Scatter 363-0852 SIMCO47 Isolated Find 363-1196 SZMCO50 Artefact Scatter 363-0852 SIMCO47 Isolated Find 363-1196 SZMCO51 Artefact Scatter 363-0853 SIMCO49 Isolated Find 363-1198 SZMCO53 Artefact Scatter 363-0855 SIMCO59 Isolated Find 363-1198 SZMCO53 Artefact Scatter 363-0856 SIMCO50 Isolated Find 363-1199 SZMCO54 Artefact Scatter 363-0856 SIMCO51 Isolated Find 363-1201 SZMCO55 Artefact Scatter 363-0857 SIMCO52 Isolated Find 363-1201 SZMCO55 Artefact Scatter 363-0857 SIMCO52 Artefact Scatter 363-1203 SZMCO55 Artefact Scatter 363-0859 SIMCO55 Artefact Scatter 363-1203 SZMCO55 Artefact Scatter 363-0868 SIMCO55 Artefact Scatter 363-1205 SZMCO55 Artefact Scatter 363-0868 SIMCO55 Artefact Scatter 363-1205 SZMCO55 Artefact Scatter 363-0868 SIMCO55 Artefact Scatter 363-1205 SZMCO56 Artefact Scatter 363-0868 SIMCO56 Artefact Scatter 363-1205 SZMCO56 Artefact Scatter 363-0868 SIMCO56 Artefact Scatter 363-0868 SIMCO56 Artefact Scatter 363-1213 SZMCO66 Isolated Find 363-0868 SIMCO56 Isolated Find 363-1213 SZMCO56 Artefact Scatter 363-0867 SIMCO56 Isolated Find 363-1215 SZMCO66 Isolated Find 363-0867 SIMCO66 Isolated Find 363-1215 SZMCO66 Artefact Scatter 363-0868 SIMCO66	36-3-0845	S1MC040	Artefact Scatter	36-3-1189	S2MC044	Artefact Scatter
36-3-0848 S1MC044 Artefact Scatter 36-3-1192 SZMC047 Artefact Scatter 36-3-0849 S1MC044 Isolated Find 36-3-1193 SZMC049 Isolated Find 36-3-195 SZMC049 Isolated Find 36-3-1195 SZMC050 Artefact Scatter 36-3-0852 S1MC047 Isolated Find 36-3-1195 SZMC051 Artefact Scatter 36-3-0852 S1MC047 Isolated Find 36-3-1196 SZMC051 Artefact Scatter 36-3-0852 S1MC048 Isolated Find 36-3-1197 SZMC052 Isolated Find 36-3-1197 SZMC052 Isolated Find 36-3-1198 SZMC053 Artefact Scatter 36-3-0855 S1MC050 Isolated Find 36-3-1199 SZMC054 Artefact Scatter 36-3-0855 S1MC050 Isolated Find 36-3-1199 SZMC054 Artefact Scatter 36-3-0857 S1MC052 Isolated Find 36-3-1201 SZMC056 Artefact Scatter 36-3-0858 S1MC052 Isolated Find 36-3-1201 SZMC056 Artefact Scatter 36-3-0859 S1MC054 Artefact Scatter 36-3-1203 SZMC056 Artefact Scatter 36-3-0859 S1MC055 Artefact Scatter 36-3-1203 SZMC056 Artefact Scatter 36-3-0860 S1MC056 Artefact Scatter 36-3-1204 SZMC056 Artefact Scatter 36-3-0861 S1MC056 Artefact Scatter 36-3-1204 SZMC056 Artefact Scatter 36-3-0862 S1MC056 Artefact Scatter 36-3-1204 SZMC056 Artefact Scatter Artefact Scatter 36-3-0862 S1MC056 Artefact Scatter 36-3-1204 SZMC059 Artefact Scatter 36-3-0862 S1MC056 Artefact Scatter 36-3-1207 SZMC060 Isolated Find Artefact Scatter 36-3-0866 S1MC057 Artefact Scatter 36-3-1207 SZMC060 Artefact Scatter 36-3-0866 S1MC061 Artefact Scatter 36-3-1210 SZMC064 Artefact Scatter 36-3-0866 S1MC061 Isolated Find 36-3-1211 SZMC064 Artefact Scatter 36-3-0866 S1MC061 Isolated Find 36-3-1211 SZMC064 Artefact Scatter 36-3-0867 S1MC066 Artefact Scatter 36-3-1214 SZMC066 Artefact Scatter 36-3-0867 S1MC066 Artefact Scatter 36-3-1214 SZMC066 Artefact Scatter 36-3-0868 S1	36-3-0846	S1MC041	Isolated Find	36-3-1190	S2MC045	Artefact Scatter
36-3-0860 SIMCO44 Isolated Find 36-3-1193 SZMCO48 Artefact Scatter 36-3-0865 SIMCO45 Isolated Find 36-3-1196 SZMCO59 Artefact Scatter 36-3-0865 SIMCO47 Isolated Find 36-3-1196 SZMCO50 Artefact Scatter 36-3-0853 SIMCO48 Isolated Find 36-3-1196 SZMCO51 Artefact Scatter 36-3-0853 SIMCO49 Isolated Find 36-3-1198 SZMCO52 Isolated Find 36-3-0855 SIMCO50 Isolated Find 36-3-1199 SZMCO54 Artefact Scatter 36-3-0855 SIMCO50 Isolated Find 36-3-1199 SZMCO54 Artefact Scatter 36-3-0856 SIMCO50 Isolated Find 36-3-1200 SZMCO55 Artefact Scatter 36-3-0857 SIMCO52 Isolated Find 36-3-1200 SZMCO55 Artefact Scatter 36-3-0858 SIMCO53 Artefact Scatter 36-3-1202 SZMCO55 Artefact Scatter 36-3-0868 SIMCO53 Artefact Scatter 36-3-1202 SZMCO55 Artefact Scatter 36-3-0869 SIMCO55 Artefact Scatter 36-3-1203 SZMCO58 Artefact Scatter 36-3-0861 SIMCO56 Artefact Scatter 36-3-1200 SZMCO59 Artefact Scatter 36-3-0862 SIMCO55 Artefact Scatter 36-3-1200 SZMCO59 Artefact Scatter 36-3-0862 SIMCO58 Artefact Scatter 36-3-1206 SZMCO59 Artefact Scatter 36-3-0863 SIMCO58 Artefact Scatter 36-3-1206 SZMCO59 Artefact Scatter 36-3-0866 SIMCO68 Artefact Scatter <td< td=""><td>36-3-0847</td><td></td><td>Isolated Find</td><td>36-3-1191</td><td></td><td>Artefact Scatter</td></td<>	36-3-0847		Isolated Find	36-3-1191		Artefact Scatter
36-3-0850 S1MCO45 Isolated Find 36-3-1194 S2MC049 Isolated Find 36-3-0851 S1MC047 Isolated Find 36-3-1196 S2MC050 Artefact Scatter 36-3-0852 S1MC048 Isolated Find 36-3-1198 S2MC051 Artefact Scatter 36-3-0854 S1MC049 Isolated Find 36-3-1198 S2MC053 Artefact Scatter 36-3-0854 S1MC050 Isolated Find 36-3-1198 S2MC054 Artefact Scatter 36-3-0857 S1MC050 Isolated Find 36-3-1199 S2MC055 Artefact Scatter 36-3-0865 S1MC051 Isolated Find 36-3-1201 S2MC056 Artefact Scatter 36-3-0867 S1MC052 Isolated Find 36-3-1201 S2MC056 Artefact Scatter 36-3-0868 S1MC053 Artefact Scatter 36-3-1202 S2MC056 Artefact Scatter 36-3-0880 S1MC055 Rock Shelter with Artefacts 36-3-1208 S2MC059 Artefact Scatter 36-3-0881 S1MC056 Artefact Scatter 36-3-1206 S2MC069	36-3-0848		Artefact Scatter	36-3-1192		Artefact Scatter
66-3-0851 S1MCO46 Isolated Find 36-3-1195 S2MC050 Artefact Scatter 36-3-0852 S1MC047 Isolated Find 36-3-1197 S2MC051 Artefact Scatter 36-3-0853 S1MC049 Isolated Find 36-3-1198 S2MC053 Artefact Scatter 36-3-0855 S1MC0501 Isolated Find 36-3-1199 S2MC054 Artefact Scatter 36-3-0855 S1MC051 Isolated Find 36-3-1200 S2MC055 Artefact Scatter 36-3-0857 S1MC052 Isolated Find 36-3-1201 S2MC056 Artefact Scatter 36-3-0858 S1MC053 Artefact Scatter 36-3-1202 S2MC056 Artefact Scatter 36-3-0868 S1MC054 Artefact Scatter 36-3-1203 S2MC059 Artefact Scatter 36-3-0861 S1MC056 Rock Shelter with 36-3-1204 S2MC059 Artefact Scatter 36-3-0862 S1MC057 Artefact Scatter 36-3-1208 S2MC060 Isolated Find 36-3-0863 S1MC056 Artefact Scatter 36-3-1208 S2MC061						
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36-3-0898 S1MC090 Isolated Find 36-3-1239 S2MC093 Artefact Scatter	36-3-0896			36-3-1237		Isolated Find
	36-3-0897	S1MC089		36-3-1238		Isolated Find
36-3-0899 S1MC091 Isolated Find 36-3-1240 S2MC094 Isolated Find	36-3-0898		Isolated Find			Artefact Scatter
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AHIMS	Site Name	Site Type	AHIMS	Site Name	Site Type
36-3-0900	S1MC092	Isolated Find	36-3-1241	S2MC095	Isolated Find
36-3-0901	S1MC093	Isolated Find	36-3-1242	S2MC096	Artefact Scatter
36-3-0902	S1MC094	Artefact Scatter	36-3-1243	S2MC097	Artefact Scatter
36-3-0903	S1MC095	Isolated Find	36-3-1244	S2MC098	Isolated Find
36-3-0904	S1MC096	Isolated Find	36-3-1245	S2MC099	Isolated Find
36-3-0905	S1MC097	Isolated Find	36-3-1246	S2MC100	Artefact Scatter
36-3-0906	S1MC098	Isolated Find	36-3-1247	S2MC101	Artefact Scatter
36-3-0907	S1MC099	Isolated Find	36-3-1248	S2MC102	Isolated Find
36-3-0908	S1MC100	Isolated Find	36-3-1249	S2MC103	Isolated Find
36-3-0909	S1MC101	Isolated Find	36-3-1250	S2MC104	Artefact Scatter
36-3-0910	S1MC102	Artefact Scatter	36-3-1251	S2MC105	Isolated Find
36-3-0912	S1MC103	Artefact Scatter	36-3-1252	S2MC106	Isolated Find
36-3-0911	S1MC103a	Artefact Scatter	36-3-1253	S2MC107	Isolated Find
36-3-0913	S1MC104	Artefact Scatter	36-3-1254	S2MC108	Artefact Scatter
36-3-0914	S1MC105	Isolated Find	36-3-1255	S2MC109	Artefact Scatter
36-3-0915	S1MC106	Isolated Find	36-3-1256	S2MC110	Isolated Find
36-3-0916	S1MC107	Isolated Find	36-3-1257	S2MC111	Artefact Scatter
36-3-0917	S1MC108	Isolated Find	36-3-1258	S2MC112	Artefact Scatter
36-3-0918	S1MC109	Isolated Find	36-3-1259	S2MC113	Isolated Find
36-3-0919	S1MC110	Isolated Find	36-3-1260	S2MC114	Artefact Scatter
36-3-0920	S1MC111	Isolated Find	36-3-1261 36-3-1262	S2MC115	Isolated Find Artefact Scatter
36-3-0921	S1MC112	Isolated Find	1	S2MC116	
36-3-0922 36-3-0923	S1MC113 S1MC114	Isolated Find Isolated Find	36-3-1263 36-3-1264	S2MC117 S2MC118	Isolated Find Isolated Find
36-3-0923	S1MC114	Isolated Find	36-3-1265	S2MC118	Artefact Scatter
36-3-0925	S1MC116	Isolated Find	36-3-1266	S2MC119	Isolated Find
36-3-0926	S1MC117	Isolated Find	36-3-1267	S2MC121	Isolated Find
36-3-0927	S1MC117	Isolated Find	36-3-1268	S2MC121	Artefact Scatter
36-3-0928	S1MC119	Isolated Find	36-3-1269	S2MC123	Artefact Scatter
36-3-0929	S1MC120	Isolated Find	36-3-1270	S2MC124	Artefact Scatter
36-3-0930	S1MC121	Isolated Find	36-3-1271	S2MC125	Artefact Scatter
36-3-0931	S1MC122	Isolated Find	36-3-1272	S2MC126	Artefact Scatter
36-3-0932	S1MC123	Isolated Find	36-3-1273	S2MC127	Isolated Find
36-3-0933	S1MC124	Isolated Find	36-3-1274	S2MC128	Artefact Scatter
36-3-0934	S1MC125	Isolated Find	36-3-1275	S2MC129	Artefact Scatter
36-3-0935	S1MC126	Isolated Find	36-3-1276	S2MC130	Artefact Scatter
36-3-0936	S1MC127	Isolated Find	36-3-1277	S2MC131	Isolated Find
36-3-0937	S1MC128	Isolated Find	36-3-1278	S2MC132	Artefact Scatter
36-3-0938	S1MC129	Isolated Find	36-3-1279	S2MC133	Artefact Scatter
36-3-0939	S1MC130	Artefact Scatter	36-3-1280	S2MC134	Artefact Scatter
36-3-0940	S1MC131	Isolated Find	36-3-1281	S2MC135	Artefact Scatter
36-3-0941	S1MC132	Artefact Scatter	36-3-1282	S2MC136	Isolated Find
36-3-0942	S1MC133	Artefact Scatter	36-3-1283	S2MC137	Isolated Find
36-3-0943	S1MC134	Isolated Find	36-3-1284	S2MC138	Isolated Find
36-3-0944	S1MC135	Artefact Scatter	36-3-1285	S2MC139	Isolated Find
36-3-0945	S1MC136	Artefact Scatter	36-3-1286	S2MC140	Artefact Scatter
36-3-0946	S1MC137	Isolated Find	36-3-1287	S2MC141	Artefact Scatter Isolated Find
36-3-0947 36-3-0948	S1MC138 S1MC139	Isolated Find Artefact Scatter	36-3-1288 36-3-1289	S2MC142 S2MC143	Isolated Find
36-3-0949	S1MC139	Artefact Scatter	36-3-1299	S2MC143	Isolated Find
36-3-0950	S1MC140	Isolated Find	36-3-1291	S2MC145	Artefact Scatter
36-3-0951	S1MC142	Artefact Scatter	36-3-1292	S2MC146	Artefact Scatter
36-3-0952	S1MC143	Artefact Scatter	36-3-1293	S2MC147	Isolated Find
36-3-0953	S1MC144	Isolated Find	36-3-1294	S2MC148	Artefact Scatter
36-3-1029	S1MC213	Isolated Find	36-3-1295	S2MC149	Isolated Find
36-3-1041	S1MC225	Isolated Find	36-3-1296	S2MC150	Artefact Scatter
36-3-1042	S1MC226	Isolated Find	36-3-1297	S2MC151	Grinding Grooves and Artefact Scatter
36-3-1043	S1MC227	Isolated Find	36-3-1298	S2MC152	Artefact Scatter
36-3-1044	S1MC228	Artefact scatter	36-3-1299	S2MC153	Artefact Scatter
36-3-1045	S1MC229	Isolated Find	36-3-1300	S2MC154	Artefact Scatter
36-3-1046	S1MC230	Artefact Scatter	36-3-1301	S2MC155	Isolated Find
36-3-1047	S1MC231	Isolated Find	36-3-1302	S2MC156	Artefact Scatter
36-3-1048	S1MC232	Isolated Find	36-3-1303	S2MC157	Artefact Scatter
36-3-1049	S1MC233	Artefact Scatter	36-3-1304	S2MC158	Artefact Scatter
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AHIMS	Site Name	Site Type	AHIMS	Site Name	Site Type
36-3-1050	S1MC234	Isolated Find	36-3-1305	S2MC159	Artefact Scatter
36-3-1051	S1MC235	Isolated Find	36-3-1306	S2MC160	Isolated Find
36-3-1052	S1MC236	Artefact Scatter	36-3-1307	S2MC161	Artefact Scatter
36-3-1053	S1MC237	Isolated Find	36-3-1308	S2MC162	Artefact Scatter
36-3-1054	S1MC238	Isolated Find	36-3-1309	S2MC163	Artefact Scatter
36-3-1055	S1MC239	Isolated Find	36-3-1310	S2MC164	Isolated Find
36-3-1056	S1MC240	Artefact Scatter	36-3-1311	S2MC165	Artefact Scatter
36-3-1057	S1MC241	Artefact Scatter	36-3-1312	S2MC166	Isolated Find
36-3-1058	S1MC242	Isolated Find	36-3-1313	S2MC167	Isolated Find
36-3-1059	S1MC243	Isolated Find	36-3-1314	S2MC168	Artefact Scatter
36-3-1060	S1MC244	Artefact Scatter	36-3-1315	S2MC169	Isolated Find
36-3-1113	S1MC244a	Artefact Scatter	36-3-1316	S2MC170	Artefact Scatter
36-3-1061	S1MC245	Isolated Find	36-3-1317	S2MC171	Artefact Scatter
36-3-1062	S1MC246	Isolated Find	36-3-1318	S2MC172	Artefact Scatter
36-3-1063	S1MC247	Isolated Find	36-3-1319	S2MC173	Isolated Find
36-3-1064	S1MC248	Isolated Find	36-3-1320	S2MC174	Isolated Find
36-3-1065	S1MC249	Isolated Find	36-3-1321	S2MC175	Isolated Find
36-3-1066	S1MC250	Isolated Find	36-3-1322	S2MC176	Artefact Scatter
36-3-1067	S1MC252	Isolated Find	36-3-1323	S2MC177	Artefact Scatter
36-3-1068	S1MC253	Isolated Find	36-3-1324	S2MC178	Artefact Scatter
36-3-1069	S1MC254	Artefact Scatter	36-3-1325	S2MC179	Artefact Scatter
36-3-1070	S1MC255	Artefact Scatter and	36-3-1326	S2MC180	Artefact Scatter
00.0.1071	04140050	PAD	00.0.1007	00040464	A-4-44-0 "
36-3-1071	S1MC256	Artefact Scatter	36-3-1327	S2MC181	Artefact Scatter
36-3-1072	S1MC257	Artefact Scatter	36-3-1328	S2MC182	Isolated Find
36-3-1073	S1MC258	Artefact Scatter	36-3-1329	S2MC183	Artefact Scatter
36-3-1074	S1MC259	Isolated Find	36-3-1330	S2MC184	Isolated Find
36-3-1075 36-3-1076	S1MC260 S1MC261	Isolated Find Rock Shelter with	36-3-1331 36-3-1332	S2MC185 S2MC186	Isolated Find Artefact Scatter
30-3-1076	31100201	Artefacts	30-3-1332	32IVIC 100	Arteract Scatter
36-3-1077	S1MC262	Isolated Find	36-3-1333	S2MC187	Isolated Find
36-3-1078	S1MC263	Isolated Find	36-3-1334	S2MC188	Artefact Scatter
36-3-1079	S1MC264	Grinding Grooves and	36-3-1335	S2MC189	Isolated Find
00 0 1070	O TWO ZO T	Artefact Scatter	00 0 1000	021110100	loolated i ilia
36-3-1080	S1MC265	Artefact Scatter	36-3-1336	S2MC190	Isolated Find
36-3-1081	S1MC266	Isolated Find	36-3-1337	S2MC191	Artefact Scatter
36-3-1082	S1MC267	Rock Shelter with	36-3-1338	S2MC192	Isolated Find
		Artefacts			
36-3-1083	S1MC268	Isolated Find	36-3-1339	S2MC193	Artefact Scatter
36-3-1084	S1MC269	Isolated Find	36-3-1340	S2MC194	Artefact Scatter
36-3-1085	S1MC270	Isolated Find	36-3-1341	S2MC195	Artefact Scatter
36-3-1086	S1MC271	Rock Shelter with	36-3-1342	S2MC196	Artefact Scatter
		Artefacts			
36-3-1087	S1MC272	Artefact Scatter	36-3-1343	S2MC197	Artefact Scatter
36-3-1088	S1MC273	Isolated Find	36-3-1344	S2MC198	Artefact Scatter
36-3-1089	S1MC274	Isolated Find	36-3-1345	S2MC199	Artefact Scatter
36-3-1090	S1MC275	Isolated Find	36-3-1346	S2MC200	Artefact Scatter
36-3-1091	S1MC276	Isolated Find	36-3-1347,	S2MC201	Artefact Scatter
26.2.4000	CAMCOZZ	looloted Find	36-3-1348	COMCOCC	Artofoot Cootton
36-3-1092	S1MC277	Isolated Find	36-3-1349	S2MC202	Artefact Scatter
36-3-1093	S1MC278 S1MC279	Isolated Find	36-3-1350	S2MC203	Artefact Scatter
36-3-1094 36-3-0042	S1MC279 S1MC280; Ulan	Isolated Find Rock Shelter with	36-3-1351 36-3-1352	S2MC204 S2MC205	Artefact Scatter Artefact Scatter
30-3-0042	Creek 2	Artefacts and Grinding	30-3-1352	SZIVICZUS	AITEIAUI SUAITEI
	JIOUR Z	Grooves			
36-3-1095	S1MC281	Artefact Scatter	36-3-1353	S2MC206	Artefact Scatter
36-3-1096	S1MC282	Artefact Scatter	36-3-1354	S2MC207	Artefact Scatter
36-3-0098	S1MC283	Rock Shelter with	36-3-1355	S2MC208	Artefact Scatter
		Artefacts			
36-3-1098	S1MC284	Rock Shelter with	36-3-1356	S2MC209	Artefact Scatter
		Artefacts		<u> </u>	
36-3-1099	S1MC285	Rock Shelter with	36-3-1357	S2MC210	Artefact Scatter
		Artefacts			
36-3-1100	S1MC286	Rock Shelter with	36-3-1358	S2MC211	Isolated Find
		Artefacts			
·	·			· · · · · · · · · · · · · · · · · · ·	<u></u>

AHIMS	Site Name	Site Type	AHIMS	Site Name	Site Type
36-3-1101	S1MC287	Rock Shelter with	36-3-1359	S2MC212	Artefact Scatter
		Artefacts			
36-3-1102	S1MC288	Rock Shelter with	36-3-1360	S2MC213	Isolated Find
		Artefacts			
36-3-1103	S1MC289	Rock Shelter with	36-3-1361	S2MC214	Isolated Find
		Artefacts			
36-3-1104	S1MC290	Rock Shelter with	36-3-1362	S2MC215	Artefact Scatter
00 0 1105	04140004	Artefacts	00.0.1000	00140040	1 1 1 1 2 11
36-3-1105	S1MC291	Isolated Find	36-3-1363	S2MC216	Artefact Scatter
36-3-1106	S1MC292	Isolated Find	36-3-1364	S2MC217	Artefact Scatter
36-3-1107	S1MC293	Isolated Find	36-3-1365	S2MC218	Artefact Scatter
36-3-1108	S1MC294	Rock Shelter with Artefacts	36-3-1366	S2MC219	Artefact Scatter
36-3-1109	S1MC295	Isolated Find	36-3-1367	S2MC220	Artefact Scatter
36-3-1110	S1MC295	Rock Shelter with	36-3-1368	S2MC221	Isolated Find
30-3-1110	311/10/290	Artefacts	30-3-1300	SZIVICZZ I	Isolated Filld
36-3-1111	S1MC297	Rock Shelter with	36-3-1369	S2MC222	Artefact Scatter
30-3-1111	01W0297	Artefacts	30-3-1303	OZIVIOZZZ	Arteract Scatter
36-3-0840	S1MC298	Artefact Scatter	36-3-1370	S2MC223	Isolated Find
36-3-0841	S1MC299	Isolated Find	36-3-1371	S2MC224	Isolated Find
36-3-0842	S1MC300	Artefact Scatter	36-3-1372	S2MC225	Artefact Scatter
36-3-0843	S1MC301	Artefact Scatter	36-3-1373	S2MC226	Artefact Scatter
36-3-0844	S1MC302	Artefact Scatter	36-3-1374	S2MC227	Artefact Scatter
36-3-1140	S1MC303	Artefact Scatter	36-3-1375	S2MC228	Artefact Scatter
36-3-1141	S1MC304	Artefact Scatter	36-3-1376	S2MC229	Rock Shelter with
					Artefacts
36-3-1142	S1MC305	Artefact Scatter	36-3-1377	S2MC230	Isolated Find
36-3-1143	S1MC306	Isolated Find	36-3-1378	S2MC231	Rock Shelter with
					Artefacts
36-3-1144	S1MC307	Isolated Find	36-3-1379	S2MC232	Rock Shelter with
					Artefacts
36-3-1145	S1MC308	Artefact Scatter and	36-3-1380	S2MC233	Rock Shelter with
		PAD			Artefacts
36-3-1146	S1MC309	Isolated Find	36-3-1381	S2MC234	Artefact Scatter
36-3-1137	S1MC310	Isolated Find	36-3-0016	S2MC236	Rock Shelters with Art
			& 36-3-		and Artefacts
	0.1100.11	<u> </u>	0134	00110000	<u> </u>
36-3-1138	S1MC311	Isolated Find	36-3-1382	S2MC237	Isolated Find
36-3-1149	S1MC312	Isolated Find	36-3-1383	S2MC238	Artefact Scatter
36-3-1407	S1MC313 (NB1)	Artefact Scatter	36-3-1384	S2MC239	Artefact Scatter
36-3-1408	S1MC314 (NB2)	Artefact Scatter and	36-3-1385	S2MC240	Artefact Scatter
26.2.4400	CAMCOAE (NDO)	PAD Included Find	26.2.4206	COMCO44	Artefact Coatton
36-3-1409	S1MC315 (NB3) S1MC316 (NB4)	Isolated Find	36-3-1386	S2MC241 S2MC242	Artefact Scatter Isolated Find
36-3-1410 36-3-1411	S1MC317 (NB5)	Artefact Scatter Isolated Find	36-3-1387 36-3-1388	S2MC243	Isolated Find
36-3-1411	S1MC317 (NB3)	Isolated Find	36-3-1389	S2MC244	Isolated Find
36-3-1413	S1MC319 (NB7)	Isolated Find	36-3-1390	S2MC245	Isolated Find
36-3-1414	S1MC320 (NB8)	Isolated Find	36-3-1391	S2MC246	Isolated Find
36-3-1415	S1MC321 (NB9)	Isolated Find	36-3-1392	S2MC247	Artefact Scatter
36-3-1416	S1MC322 (NB3)	Artefact Scatter and	36-3-1393	S2MC248	Artefact Scatter
55 5 1 110	(NB10)	PAD			
36-3-1417	S1MC323	Isolated Find	36-3-1394	S2MC249	Artefact Scatter
	(NB11)	1			
36-3-2597	S1MC324	Isolated Find	36-3-1395	S2MC250	Artefact Scatter and
	(NB12)		<u> </u>	<u> </u>	PAD
36-3-2607	S1MC325	Isolated Find	36-3-1396	S2MC251	Artefact Scatter and
					PAD
36-3-2608	S1MC326	Rock shelter with PAD	36-3-1397	S2MC252	Isolated Find
36-3-2609	S1MC327	Rock shelter with PAD	36-3-1398	S2MC253	Isolated Find
36-3-2610	S1MC328	Isolated Find	36-3-1399	S2MC254	Isolated Find
36-3-2611	S1MC329	Rock shelter with PAD	36-3-1400	S2MC255	Isolated Find
36-3-2612	S1MC330	Rock shelter with PAD	36-3-1401	S2MC256	Artefact Scatter
36-3-2613	S1MC331	Rock shelter with	36-3-1402	S2MC257	Isolated Find
00 0 2010				1	i e
		artefacts			
36-3-2614	S1MC332	Rock shelter with PAD	36-3-1403	S2MC258	Artefact Scatter and PAD

AHIMS	Site Name	Site Type	AHIMS	Site Name	Site Type
36-3-2615	S1MC333	Rock shelter with PAD	36-3-1404	S2MC259	Isolated Find
36-3-2616	S1MC334	Rock shelter with PAD	36-3-1405	S2MC260	Isolated Find
36-3-2617	S1MC335	Rock shelter with PAD	36-3-1406	S2MC261a	Grinding Grooves and Isolated Find
36-3-2618	S1MC336	Rock shelter with PAD	36-3-2602	S2MC262	Artefact Scatter
36-3-2619	S1MC337	Rock shelter with PAD	36-3-3222	S2MC404	Artefact Scatter
36-3-2620	S1MC338	Rock shelter with PAD	36-3-0720; 36-3-0287	WC1 - Wilpinjong Creek 1	Open Artefact Site
36-3-3470	S1MC460	Isolated find			
36-3-3471	S1MC461	Isolated find			

APPENDIX 10: NON-ABORIGINAL HERITAGE

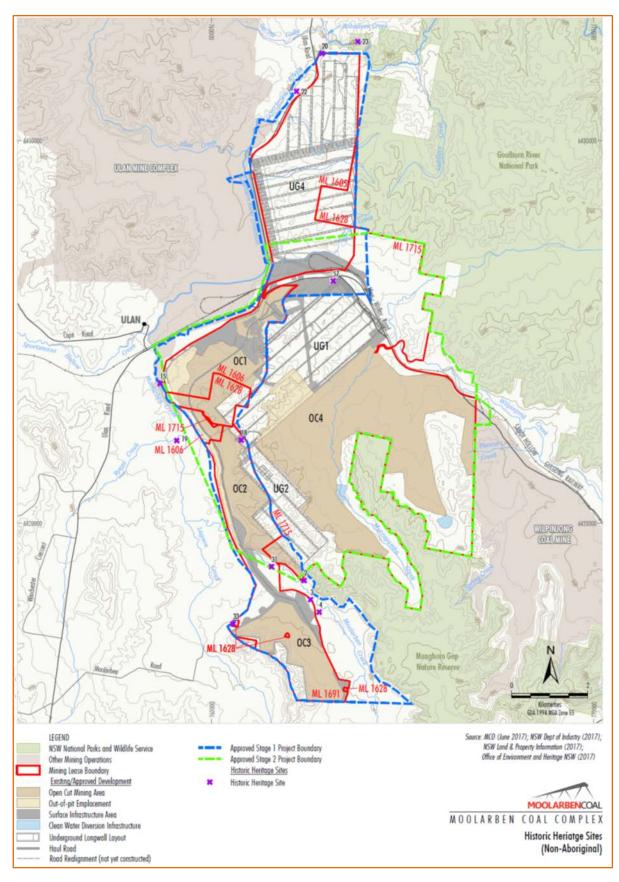


Figure 10.1: Historic Heritage Sites

No	Place Name	Impact Status	Significance	Summary Recommendation
2	Farm site. Portion 218. Ph Moolarben	No impact	Local – moderate	No further action required In situ conservation.
3	Burial site, Roberts family. Portion 146, Ph Moolarben	Impact by Open Cut 3 development	Local – high	Archival recording. Exhumation if impacts unavoidable. Discussion to be held with related families if exhumation to occur.
4	House & burial site. Portion 63, Ph Moolarben	Impact by Open Cut 3 development	Local – moderate	Archival recording. Exhumation if impacts unavoidable. Discussion to be held with related families if exhumation to occur.
14	House site. Portion 178 Ph Moolarben	Impact by Open Cut 1 development	Local – moderate	Archival recording
15	Moolarben Dam	No impact	Local – moderate	In situ conservation
18	Carr's Gap Road. Portion 30. Ph Moolarben	Impact by Open Cut 2 development likely	Local – moderate	Archival recording In situ conservation. If impacted recovery works to be recommended
19	Farm site. 'Glen Moor', Portion 203 Ph Moolarben	No impact	Local – exceptional	Archival recording. In situ conservation.
20	Grave & memorial garden. Portion 30 Ph Lennox	No impact	Local - high	Area to be maintained.
22	Stock yards. Portion 34 Ph Lennox	No impact	Local – moderate	Archival recording. In situ conservation.
23	Natural environment. 'The Drip'	No impact	Local – high	Ensure public access is maintained
29	House site. Portion 45 Ph Moolarben	Impact by Open Cut 3 development	Local – moderate	Archival recording.
30	School site. Portion 176 Ph Moolarben	Impact by Open Cut 3 development	Local – moderate	Archival recording.
31	House site, Portion 228, Ph Moolarben	No impact	Local – moderate	Archival recording. In situ conservation.
32	House site. Portion 89 Ph Moolarben	Impact by Open Cut 3 development	Local – moderate	Archival recording.
33	Recreation Ground. Portion 204. Ph Moolarben	No impact	Local – moderate	Archival recording. In situ conservation.

APPENDIX 11: INDEPENDENT DISPUTE RESOLUTION PROCESS

Independent Dispute Resolution Process (Indicative only)

