APPENDIX A:

RECOMMENDED DEVELOPMENT CONSENT

Development Consent

Section 89E of the Environmental Planning & Assessment Act 1979

As delegate of the Minister for Planning, the Planning Assessment Commission approves the development 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 development.

Member of the Commission

Member of the Commission

Sydney

SCHEDULE 1

Application Number:

SSD-4960

Applicant:

Bulga Coal Management Pty Ltd

Consent Authority:

Minister for Planning

Land:

See Appendix 1

Bulga Optimisation Project

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DEFINITIONS

Annual review ARI

Applicant

BCA

Biodiversity offset strategy

Blast misfire Blast damage

Bulga mine complex

Conditions of this consent

Council Day

Development Development area

Department

NSW Trade & Investment

EEC

EIS

EPA EP&A Act **EP&A** Regulation

EPL Evening Feasible

На

Heritage item

Incident

Land

Listed heritage items Material harm to the environment

Mine water

Mining operations

Minister Minor Mitigation Mushroom composting facility land

MSB Negligible The review required by condition 4 of schedule 5

Average recurrence interval

Bulga Coal Management Pty Limited, or anyone else who relies on this consent to carry out the development that is subject to this consent Building Code of Australia

The conservation and enhancement strategy described in the EIS, and depicted conceptually in the figures in Appendix 8

The failure of one or more holes in a blast pattern to initiate

Any permanent effect of blasting vibration that makes a building or site more unstable, causes the enlargement of existing cracks or the creation of new cracks, or accelerates the degradation of the building or site The Bulga Coal Surface Operations and the Bulga Coal Underground Operations in the area outlined in red on the figure in Appendix 3

Community Consultative Committee

Conditions contained in schedules 1 to 5 inclusive

Singleton Shire Council

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

Sundays and Public Holidays

The development described in the EIS

All land to which the development application applies, as listed in

Appendix 1 and shown in Appendix 2 Department of Planning and Environment

Department of Trade & Investment, Regional Infrastructure & Services Endangered ecological community, as defined under the Threatened Species Conservation Act 1995

Environmental impact statement titled Bulga Optimisation Project, Environmental Impact Statement (8 volumes), dated April 2013, as modified by the Response to Submissions and Revised and Amended

Project Application Assessment Report dated August 2013

Environment Protection Authority

Environmental Planning and Assessment Act 1979 Environmental Planning and Assessment Regulation 2000 Environment Protection Licence issued under the POEO Act

The period from 6pm to 10pm

Feasible relates to engineering considerations and what is practical to build or to implement

Hectare

An item as defined under the Heritage Act 1977 and/or an Aboriginal object or Aboriginal place as defined under the National Parks and Wildlife Act 1974

A set of circumstances that:

- causes or threatens to cause material harm to the environment; and/or
- breaches or exceeds the limits or performance measures/criteria in this consent

As defined in the EP&A Act, except for where the term is used in the noise and air quality conditions in Schedule 3 of this consent 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 consent

The heritage items shown in the figures in Appendix 9

Actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial

Water that accumulates within, or drains from, active mining and infrastructure areas and any other areas where run-off may have come into contact with coal or carbonaceous material (synonymous with 'dirty water)

Includes the removal and emplacement of overburden and extraction. processing, handling, storage and transport of coal on site

Minister for Planning, or delegate Not very large, important or serious

Activities associated with reducing the impacts of the development Lot 1 DP136366, Lot 82 DP1006883 and Lot 81 DP1006883

Mine Subsidence Board

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

NSW Office of Water

NOW

NP&W Act

OEH

National Parks and Wildlife Act 1974

Office of Environment and Heritage within the Department of Premier and

POEO Act

Privately-owned land

Protection of the Environment Operations Act 1997

Land that is not owned by a public agency or a mining company (or its

subsidiary)

Public infrastructure

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

Rehabilitation

The restoration of land disturbed by the development to a good condition

to ensure it is safe, stable and non-polluting

Run-of-mine

ROM

RMS

Roads and Maritime Services

Secretary

Site

Secretary of the Department, or nominee
The land listed in Appendix 1, including any subdivided lot that may be

created from the listed land lots

VPA

Voluntary Planning Agreement that is made under Division 6 of Part 4 of

the EP&A Act

SCHEDULE 2 ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

In addition to meeting the specific performance criteria established under this consent, the Applicant 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 development.

TERMS OF CONSENT

- 2. The Applicant shall carry out the development generally in accordance with the:
 - (a) EIS; and
 - (b) conditions of this consent.

Note: The general layout of the development is shown in Appendix 2.

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

LIMITS ON CONSENT

Mining Operations

5. The Applicant may carry out mining operations on the site until 31 December 2035.

Note: Under this consent, the Applicant is required to rehabilitate the site and perform additional undertakings to the satisfaction of either the Secretary or the Secretary NSW Trade & Investment. Consequently this consent 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.

Coal Extraction

The Applicant shall not extract more than 12.2 million tonnes of ROM coal from the open cut mining operations on site in any calendar year.

Coal Transport

- 7. The Applicant shall:
 - (a) not transport more than 20 million tonnes of product coal from the Bulga mine complex in any calendar year; and
 - (b) only transport coal from the site by rail.

NOTIFICATION OF COMMENCEMENT

The Applicant shall notify the Department prior to the commencement of mining operations under this
consent.

SURRENDER OF EXISTING DEVELOPMENT CONSENT

By the end of December 2015, or as otherwise agreed by the Secretary, the Applicant shall surrender the
existing development consents for open cut mining operations on site in accordance with Section 104A of
the EP&A Act.

Prior to the surrender of these consents, the conditions of this consent shall prevail to the extent of any inconsistency with the conditions of these consents.

STRUCTURAL ADEQUACY

- 10. The Applicant shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structure, are constructed in accordance with:
 - (a) the relevant requirements of the BCA;
 - (b) the relevant requirements of AS 3959-2009 Construction of buildings in bush fire-prone areas, and
 - (c) any additional requirements of the MSB.

Notes:

- Under Part 4A of the EP&A Act, the Applicant 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 development.
- Under Section 15 of the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the MSB's approval before constructing any improvements in a Mine Subsidence District.

DEMOLITION

11. The Applicant 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

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

Note: This condition does not apply to any damage to roads caused as a result of general road usage.

OPERATION OF PLANT AND EQUIPMENT

- 13. The Applicant shall ensure that all plant and equipment used on site or any equipment used off site for monitoring the performance of the development 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

14. With the approval of the Secretary, the Applicant may submit any strategies, plans or programs required by this consent on a progressive basis.

Notes:

- While any strategy, plan or program may be submitted on a progressive basis, the Applicant must 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.

VOLUNTARY PLANNING AGREEMENT

- 15. By the end of December 2014, or as otherwise agreed by the Secretary, the Applicant shall establish a VPA for the development with Council in accordance with:
 - (a) Division 6 of Part 4 of the EP&A Act; and
 - (b) the terms of the Applicant's offer in Appendix 4.

SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS

ACQUISITION UPON REQUEST

 Upon receiving a written request for acquisition from the owner of the land listed in Table 1, the Applicant shall acquire the land in accordance with the procedures in conditions 5 and 6 of schedule 4.

Table 1: Land subject to acquisition upon request

Acquisition Basis	Land
Noise	149, 150

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

ADDITIONAL MITIGATION UPON REQUEST

- 2. Upon receiving a written request from the owner of any residence on the land listed in Table 1 (unless the landowner of that land has requested acquisition) or Table 2, the Applicant shall implement additional:
 - (a) noise mitigation measures (such as double-glazing, insulation and/or air conditioning); and/or
 - (b) air quality mitigation measures (such as air filters, a first flush roof water drainage system 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 and/or air quality impacts of the development on the residence.

If within 3 months of receiving this request from the owner, the Applicant 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 2: Land subject to additional noise and/or air quality mitigation upon request

Mitigation Basis	Residence	
Noise & Air Quality	8	
Noise	1A, 97, 157, 179, 195, 232, 234, 235, 237, 239, 240, 261, 262	
Air Quality	3, 323, 324, 325	

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

NOISE

Noise Criteria

3. Except for the noise affected land in Table 1, the Applicant shall ensure that the noise generated by the Bulga mine complex does not exceed the criteria in Table 3 at any residence on privately-owned land.

Table 3: Noise Criteria dB(A)

Location	Day L _{Aeq (15 min)}	Evening L _{Aeq (15 min)}	Night L _{Aeg (15 min)}	Night L _{A1 (1 min)}
1A, 8	38	38	38	45
97	38	38	36	45
217n, 230, 232, 234, 323, 324, 325	37	37	37	45
1B, 94, 95,103, 105A, 105C, 142A, 143B, 145, 164, 165, 179, 195, 217s, 217m, 222, 226, 227, 228, 229, 231, 233, 235, 237, 239, 240, 241, 261, 262, 263, 264, 265, 266, 272	36	36	36	45
All other privately-owned residences	35	35	35	45

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

However, these criteria do not apply if the Applicant has a written agreement with the relevant landowner to exceed the noise criteria, and the Applicant has advised the Department in writing of the terms of this agreement.

Noise generated by the Bulga mine complex is to be measured in accordance with the relevant requirements of the NSW Industrial Noise Policy. Appendix 7 sets out the meteorological conditions under which these criteria apply, and the requirements for evaluating compliance with these criteria.

4. At the direction of the Secretary, Table 3 above shall be replaced with the Table in Appendix 6.

Note: This direction will be given following the construction of the proposed noise and visual bund (see the figure in Appendix 2) to a height of 150 m AHD or the start of year 7 of the development under this consent, whichever occurs sooner.

Construction Noise - Broke Road Realignment

Notwithstanding the requirements in condition 3 above, during the daytime construction of the Broke Road realignment, the Applicant shall ensure that the noise generated by the Bulga mine complex and the construction of the realignment does not exceed 40dB L_{Aeq (15 min)} at any residence on privately-owned land in the vicinity of the road realignment works.

Noise generated under this condition is to be measured in accordance with the relevant requirements of the *NSW Industrial Noise Policy*. Appendix 7 sets out the meteorological conditions under which these criteria apply, and the requirements for evaluating compliance with these criteria.

Operating Conditions

- The Applicant shall:
 - implement all reasonable and feasible measures to minimise the construction, operational, road and rail noise of the development;
 - (b) only undertake works on the outer face of the bund along Charlton Road between 7am and 7pm;
 - (c) 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 consent;
 - (d) minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 7); and
 - (e) monitor and report on compliance with the relevant noise conditions of this consent,
 - to the satisfaction of the Secretary.

Noise Management Plan

- 7. The Applicant shall prepare and implement a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with the EPA, and submitted to the Secretary for approval within 12 months of the date of this consent or prior to commencing vegetation clearing or topsoil stripping for the Eastern Overburden Emplacement, whichever occurs sooner;
 - (b) describe the measures that would be implemented to ensure compliance with the relevant conditions of this consent;
 - (c) describe the proposed noise management system in detail; and
 - (d) include a noise monitoring program that:
 - · evaluates and reports on:
 - o the effectiveness of the noise management system;
 - o compliance against the noise criteria in this consent; and
 - o compliance against the noise operating conditions;
 - 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 trigger for further attended monitoring where there is a risk of non-compliance with the noise
 criteria in this consent); 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 Applicant shall ensure that blasting on the site 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
	120	10	0%
Residence on privately owned land	115	5	5% of the total number of blasts over a period of 12 months
330kV Suspension Towers, PID Pipeline, and public roads	5	100	0%
All other public infrastructure	-	(Unless the Director-General has agreed to an alternative a specific limit determined in accordance with the structural design methodology in AS 2187.2-2006, or its latest version)	0%

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

Blasting Hours

The Applicant shall only carry out blasting on site between 9 am and 5 pm 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 Applicant shall carry out a maximum of:
 - (a) 3 blasts a day; and
 - (b) 5 blasts a week, averaged over a calendar year, on the site.

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, blast 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 Applicant receives a written request from the owner of any privately-owned land within 2 kilometres of the approved open cut mining pit/s 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 Applicant 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 development 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 Applicant 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 Applicant 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 Applicant 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 Applicant 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. During mining operations on site, the Applicant shall:
 - (a) implement best management practice 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) ensure that blasting on site does not damage the 'Mount Leonard' Homestead, Mt Leonards Public School (Scout Hall), Charlton (BH14), Bulga Bridge, St Andrews Anglican Church, or the Loders Creek grinding groove site (prior to relocation);
 - (c) minimise the frequency and duration of any road closures, and avoid road closures for blasting during peak traffic periods;
 - (d) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site and associated road closures;
 - (e) co-ordinate the timing of blasting on site with the timing of blasting at the Mt Thorley and Warkworth mines to minimise any cumulative blasting impacts;
 - (f) monitor and report on compliance with the relevant blasting conditions in this consent,

to the satisfaction of the Secretary.

- 14. The Applicant shall not undertake blasting on site within 500 metres of:
 - (a) any public road; or
 - (b) any land outside the site that is not owned by the Applicant,

unless:

- the Applicant has a written agreement with the applicable roads authority or landowner to allow blasting to be carried out closer to the public road or land, and the Applicant has advised the Department in writing of the terms of this agreement; or
- the Applicant has:
 - demonstrated to the satisfaction of the Secretary that the blasting can be carried out closer to the road or land without compromising the safety of people or livestock, or damaging buildings and/or 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 road or land.

Blast Management Plan

- 15. The Applicant shall prepare and implement a Blast Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with the EPA, and submitted to the Secretary for approval within 12 months of the date of this consent;
 - (b) describe the measures that would be implemented to ensure compliance with the blasting criteria and operating conditions of this consent;
 - (c) propose and justify any alternative ground vibration limits for any public infrastructure in the vicinity of the site (if relevant); and
 - (d) include a monitoring program for evaluating and reporting on compliance with the blasting criteria and operating conditions.

AIR QUALITY

Air Quality Criteria

16. The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that the particulate emissions generated by the Bulga mine complex do not exceed the criteria listed in Tables 5, 6 and 7 at any residence on privately-owned land.

Table 5: Long term criteria for particulate matter

Pollutant	Averaging period	^d Criterion
Total suspended particulate (TSP) matter	Annual	^а 90 µg/m ³
Particulate matter < 10 µm (PM ₁₀)	Annual	^а 30 µg/m ³

Table 6: Short term criterion for particulate matter

Pollutant	Averaging period	^d Criterion
Particulate matter < 10 µm (PM ₁₀)	24 hour	^a 50 µg/m ³

Table 7: Long term 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 for Tables 5 to 7:

- "Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to other sources):
- b Incremental impact (i.e. incremental increase in concentrations due to the development on its own);
- Composited 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, sea fog, fire incidents, illegal activities or any other activity agreed to by the Secretary.

Mine-owned Land

- 17. The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the Bulga mine complex do not cause exceedances of the criteria in Tables 5, 6 and 7 at any occupied residence on mine-owned land (including land owned by another mining company) unless:
 - the tenant or landowner (if the residence is owned by another mining company) has been notified of any health risks associated with such exceedances in accordance with the notification requirements in schedule 4 of this consent;
 - (b) the tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice;
 - (c) air quality monitoring is regularly undertaken to inform the tenant or landowner (if the residence is owned by another mining company) of the actual particulate emissions at the residence; and
 - (d) data from this monitoring is presented to the tenant or landowner (if the residence is owned by another mining company) in an appropriate format for a medical practitioner to assist the tenant or landowner in making informed decisions on the health risks associated with occupying the residence, to the satisfaction of the Secretary.

Operating Conditions

- 18. The Applicant shall:
 - (a) implement all reasonable and feasible measures to minimise the:
 - odour, fume and dust emissions of the development; and
 - release of greenhouse gas emissions from the site;
 - (b) minimise any visible off-site air pollution generated by the development;
 - (c) minimise the surface disturbance of the site;
 - (d) operate a comprehensive air quality management system that uses a combination of predictive meteorological forecasting, predictive air dispersion modelling and real-time air quality monitoring data to guide the day-to-day planning of mining operations and implementation of both proactive and reactive air quality mitigation measures to ensure compliance with the relevant conditions of this consent:
 - (e) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d to Tables 5-7 above);
 - (f) schedule activities at the Eastern Overburden Emplacement Area to minimise potential air quality impacts on the mushroom composting facility during its operating hours, to the greatest extent practicable:
 - (g) co-ordinate the air quality management at the Bulga mine complex with the air quality management at the Mt Thorley and Warkworth mines to minimise any cumulative air quality impacts; and

(h) monitor and report on compliance with the relevant air quality conditions in this consent, to the satisfaction of the Secretary.

Air Quality Management Plan

- 19. The Applicant shall prepare and implement a detailed Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with the EPA and the owner of the mushroom composting facility, and submitted to the Secretary for approval within 12 months of the date of this consent or prior to commencing vegetation clearing or topsoil stripping for the Eastern Overburden Emplacement, whichever occurs sooner;
 - (b) describe the measures that would be implemented to ensure compliance with air quality criteria and operating conditions of this consent:
 - (c) describe the proposed air quality management system; and
 - (d) include an air quality monitoring program that:
 - uses a combination of real-time monitors and supplementary monitors to evaluate the performance of the development against the air quality criteria in this consent;
 - adequately supports the proactive and reactive air quality management system;
 - · evaluates and reports on:
 - o the effectiveness of the air quality management system; and
 - o compliance with the air quality operating conditions; and
 - 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

- 20. During the life of the development, the Applicant shall ensure that there is a suitable meteorological station operating 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 Industrial Noise Policy, unless a suitable alternative is approved by the Secretary following consultation with the EPA.

WATER

Water Supply

21. The Applicant shall ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of mining operations to match its available water supply.

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

Water Transfers

22. The Applicant may receive water from, and transfer water to, the Mt Thorley mine.

Water Pollution

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

Water Management Performance Measures

24. The Applicant shall comply with the performance measures in Table 8 to the satisfaction of the Secretary.

Table 8: Water management performance measures

Feature	Performance Measure		
Water management – General	Minimise the use of clean water on site Minimise the need for make-up water from external supplies Minimise cumulative water impacts with the other mines in the region		
Construction and operation of 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		

Feature	Performance Measure		
	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, install and maintain any creek crossings generally in accordance with the <i>Policy and Guidelines for Fish Friendly Waterway Crossings</i> (NSW Fisheries, 2003) and <i>Why Do Fish Need To Cross The Road? Fish Passage Requirements for Waterway Crossings</i> (NSW Fisheries 2003), or their latest versions		
Clean water diversion &	Design, install and maintain the clean water system to capture and convey the 100 year ARI flood		
storage infrastructure	Maximise as far as reasonable and feasible the diversion of clean water around disturbed areas on site		
Sediment dams	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		
	Design, install and maintain mine water storage infrastructure to ensure no unlicensed or uncontrolled discharge of mine water off-site		
Mine water storages	Except for the Bayswater Pit tailings storage and final void, 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, or a suitable alternative which has been agreed to by the Secretary		
	Adequate freeboard within the pit void at all times to minimise the risk of discharge to surface waters		
Overburden emplacements	Design, install and maintain emplacements to encapsulate and prevent migration of tailings, acid forming and potentially acid forming materials, and saline and sodic material		
emplacements	Design, install and maintain emplacements to prevent and/or manage long term saline groundwater seepage		
Chemical and hydrocarbon storage	Chemical and hydrocarbon products to be stored in bunded areas in accordance with the relevant Australian Standards		
	Maintain or improve baseline channel stability		
Aquatic and riparian ecosystem	Develop site-specific in-stream water quality objectives in accordance with ANZECC 2000 and <i>Using the ANZECC Guidelines and Water Quality Objectives in NSW</i> procedures (DECC 2006), or its latest version		

Water Management Plan

- 25. The Applicant shall prepare and implement a Water Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with the EPA and NOW, by suitably qualified and experienced person/s whose appointment has been approved by the Secretary;
 - (b) be submitted to the Secretary for approval within 12 months of the date of this consent; and
 - (c) in addition to the standard requirements for management plans (see condition 3 of schedule 5), include a:
 - (i) Site Water Balance that:
 - includes details of:
 - sources and security of water supply, including contingency planning for future reporting periods;
 - o water use and management on site,
 - o any off-site water transfers and discharges;
 - reporting procedures, including the preparation of a site water balance for each calendar year; and
 - investigates and implements all reasonable and feasible measures to minimise water use on site.
 - (ii) Surface Water Management Plan, that includes:
 - detailed baseline data on surface water flows and quality in the watercourses that could potentially be affected by the development;
 - a detailed description of the water management system on site, including the:

- o clean water diversion systems;
- o erosion and sediment controls (mine water system); and
- o mine water management systems including irrigation areas;
- detailed plans, including design objectives and performance criteria, for:
 - o design and management of final voids;
 - o design and management for the emplacement of coal reject materials;
 - o reinstatement of drainage lines on the rehabilitated areas of the site; and
 - o control of any potential water pollution from the rehabilitated areas of the site;
- performance criteria for the following, including trigger levels for investigating any potentially adverse impacts associated with the development:
 - o mine water management system;
 - o surface water quality of Loders Creek and Wollombi Brook; and
 - channel stability, stream and riparian vegetation health of Loders Creek and Wollombi Brook;
- a program to monitor and report on:
 - o the effectiveness of the mine water management system; and
 - surface water flows and quality, stream and riparian vegetation health in Loders Creek and Wollombi Brook potentially affected by the development;
- a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the development; and
- (iii) Groundwater Management Plan, which includes:
 - detailed baseline data on groundwater levels, yield and quality in the region, and privatelyowned groundwater bores, that could be affected by the development;
 - groundwater assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts;
 - a program to monitor and report on:
 - o groundwater inflows to the open cut pits;
 - the seepage/leachate from water storages, emplacements, backfilled voids, and final voids;
 - o the impacts of the development on:
 - regional and local (including alluvial) aquifers;
 - groundwater supply of potentially affected landowners; and
 - groundwater dependent ecosystems and riparian vegetation, and
 - o base flows to Wollombi Brook;
 - a program to validate the groundwater model for the development, including an independent review of the model with every independent environmental audit, and compare the monitoring results with modelled predictions; and
 - a plan to respond to any exceedances of the groundwater assessment criteria.

BIODIVERSITY

Biodiversity Offset Strategy

26. The Applicant shall implement the biodiversity offset strategy described in the EIS, summarised in Table 9 and shown conceptually in Appendix 8.

Table 9: Summary of the Biodiversity Offset Strategy

Area	Offset Type	Minimum Size (hectares)
Reedy Valley Offset Area	Existing vegetation to be enhanced and additional vegetation to be established, with the restoration of at least 42 ha of White Box – Yellow Box – Blakely's Red Gum Woodland and Derived Native Grassland CEEC and 44 ha of the Central Hunter Grey Box-Ironbark Woodland EEC	1,486
Broke Road Offset Area	Existing vegetation to be enhanced and additional vegetation to be established, with the restoration of at least 189 ha of the Central Hunter Grey Box-Ironbark Woodland EEC	241
Wollombi Brook Conservation Area	Existing vegetation to be enhanced and additional vegetation to be established, with the restoration of at least 10 ha of the Warkworth Sands Woodland EEC and 16 ha of the Central Hunter Grey Box-Ironbark Woodland EEC	65
Condran Property Biodiversity Offset Area	Existing vegetation to be enhanced and additional vegetation to be established, with the restoration of at least 6.9 ha of Central Hunter Ironbark-Spotted Gum-	50

Area	Offset Type	Minimum Size (hectares)
	Grey Box Forest EEC	
Rehabilitation Area	Vegetation to be established, with the restoration of at least 2,200 ha of Central Hunter Grey Box-Ironbark Woodland EEC, 250 ha of Central Hunter Ironbark-Spotted Gum-Grey Box Forest EEC and 50 ha of Central Hunter Swamp Oak Forest	2,500
TOTAL		4,342

Note: To identify the areas referred to in Table 9 refer to the applicable figures in Appendix 8...

Habitat for Threatened Fauna Species

27. The Proponent shall ensure that the biodiversity strategy provides potentially suitable habitat for the following threatened fauna species, to the satisfaction of the Secretary: Little Eagle, Little Lorikeet, Brown Treecreeper, Diamond Firetail, Speckled Warbler, Swift Parrot, Regent Honeyeater, Grey-crowned Babbler, Varied Sitella, Scarlet Robin, Hooded Robin, Grey-headed Flying-fox, Yellow-bellied Sheathtail-bat, Eastern Freetail-bat, Large-eared Pied Bat, Eastern False Pipistrelle, Little Bentwing-bat, Eastern Bentwing-bat, Large-footed Myotis, Greater Broad-nosed Bat and Eastern Cave Bat.

Hunter Ironbark Research Program

28. The Applicant shall implement any relevant findings of the Hunter Ironbark Research Program for the Ravensworth complex during the establishment of the vegetation in the Rehabilitation Area (see Table 9 above) to the satisfaction of the Secretary.

Regent Honeyeater Recovery Plan Contribution

29. The Applicant shall contribute at least \$200,000 over 2 years towards the implementation of actions under the National Regent Honeyeater Recovery Plan. The initial payment of at least \$100,000 must be made within 6 months of the date of this consent.

Long Term Security of Offsets

30. By the end of December 2015, unless the Secretary agrees otherwise, the Applicant shall make suitable arrangements to provide appropriate long term security for the land within the Biodiversity Offset Strategy identified in Table 9 (excluding the Rehabilitation Area), to the satisfaction of the Secretary.

Biodiversity Management Plan

(d)

- 31. The Applicant shall prepare and implement a Biodiversity Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with OEH, and submitted to the Secretary for approval within 6 months of the date of this consent;
 - (b) describe how the implementation of the biodiversity offset strategy would be integrated with the overall rehabilitation of the site;
 - (c) establish baseline data for the existing habitat in the offsite biodiversity offset area and on the site;
 - describe the short, medium, and long term measures that would be implemented to:
 - manage the impacts of clearing vegetation, including pre-clearance surveys;
 - manage the remnant vegetation and habitat on the site; and
 - implement the biodiversity offset strategy;
 - (e) include detailed performance and completion criteria for evaluating the performance of the biodiversity offset strategy, and triggering remedial action (if necessary);
 - (f) include a detailed description of the measures that would be implemented over the next 3 years, including the procedures to be implemented for:
 - enhancing the quality of existing vegetation and fauna habitat in the biodiversity offset areas;
 - restoring native vegetation and fauna habitat on the biodiversity areas and rehabilitation area 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
 and soil resources for beneficial reuse in the enhancement of the biodiversity areas or
 rehabilitation area;
 - · collecting and propagating seed;
 - protecting vegetation and fauna habitat outside the approved disturbance area on site;

- 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;
- · controlling weeds and feral pests;
- controlling erosion;
- · managing grazing and agriculture on site;
- · controlling access; and
- bushfire management;
- (g) include a seasonally-based program to monitor and report on the effectiveness of these measures, and progress against the detailed performance and completion criteria;
- (h) identify the potential risks to the successful implementation of the biodiversity offset strategy, and include a description of the contingency measures that would be implemented to mitigate these risks; and
- (i) include details of who would be responsible for monitoring, reviewing, and implementing the plan.

Conservation Bond

32. Within 6 months of the approval of the Biodiversity Management Plan, the Applicant shall lodge a conservation bond with the Department to ensure that the biodiversity offset strategy is implemented in accordance with the performance and completion criteria described in the Biodiversity Management Plan.

The sum of the bond shall be determined by:

- (a) calculating the full cost of implementing the offset strategy (other than land acquisition costs); and
- (b) employing a suitably qualified person whose appointment has been endorsed by the Secretary, to verify the calculated costs.

The calculation of the Conservation Bond must be submitted to the Department for approval no later than 30 June 2015.

If the offset strategy 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 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.

With the agreement of the Secretary, this bond may be combined with the rehabilitation security deposit administered by NSW Trade & Investment.

Notes:

- Alternative funding arrangements for long-term management of the biodiversity offset strategy, such as provision
 of capital and management funding as agreed by OEH 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.
- The sum of the bond may be reviewed in conjunction with any revision to the biodiversity offset strategy.

HERITAGE

Human Remains

33. This consent does not allow the Applicant to disturb any human remains found on the site.

Protection of Heritage Items

34. Unless otherwise authorised under the NP&W Act, the Applicant shall ensure that the project does not damage any of the identified Aboriginal sites located outside the approved disturbance area of the project.

Note: Identified heritage items outside the approved disturbance area are listed in Table 1 of Appendix 9.

Loders Creek Grinding Grooves

35. The Applicant shall relocate the Loders Creek Grinding Grooves and any associated objects to a suitable site within the local area, to the satisfaction of the Secretary.

Wollombi Brook Conservation Area

 The Applicant shall establish the 120 ha Wollombi Brook Conservation Area shown in Figure 2 of Appendix 9, to the satisfaction of the Secretary. Note: The Aboriginal heritage conservation area/s may be combined with the biodiversity conservation areas required under this consent.

Long Term Aboriginal Heritage Conservation

37. The Applicant shall make suitable arrangements for the long-term protection and management of the Wollombi Brook Conservation Area and Loders Creek Grinding Grooves Relocation Site, in consultation with OEH and Aboriginal stakeholders, and to the satisfaction of the Secretary.

Heritage Management Measures

- 38. The Applicant shall implement the:
 - (a) Aboriginal heritage mitigation and management measures summarised in Table 5.20 of the EIS and Tables 4.11 and 4.12 of the RTS;
 - (b) Aboriginal archaeological management measures summarised in Table 2 of Appendix 9;
 - (c) historic heritage management measures summarised in Table 3 of Appendix 9.

to the satisfaction of the Secretary.

Heritage Management Plan

- 39. The Applicant shall prepare and implement a Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary;
 - (b) be prepared in consultation with OEH and the relevant Aboriginal stakeholders;
 - (c) be submitted to the Secretary for approval prior to carrying out any development under this consent;
 - (d) include a detailed plan for:
 - · the relocation of the Loders Creek Grinding Grooves; and
 - conservation of the Wollombi Brook Conservation Agreement Area;
 - (e) include a detailed description of the proposed implementation of the heritage management measures required under condition 39 above;
 - (f) include a program to monitor and report on the effectiveness of the management measures carried out under the plan.

TRANSPORT

Road/Rail Works

40. Prior to the closure of the relevant section of Broke Road, the Applicant shall realign Broke Road and associated intersections, to the satisfaction of Council.

Note: The proposed realignment of Broke Road is shown in the figure in Appendix 10.

- 41. The Applicant shall design, construct, and maintain the two proposed haul road bridges over the realignment of Broke Road, to the satisfaction of Council.
- 42. The Applicant shall:
 - (a) design, construct and maintain the proposed haul road crossing of the Crown Road between the two parts of the Eastern Emplacement Area:
 - (b) design, construct and maintain the new rail siding adjacent to the existing Saxonvale Rail Spur; and
 - (c) ensure neither the proposed haul road crossing nor the new rail siding compromises the existing access to the mushroom composting facility land,

to the satisfaction of the Secretary.

Transport Management Plan

- 43. The Applicant shall prepare and implement a Transport Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with RMS, Council, the Department of Lands, and the owner of the mushroom composting facility, and submitted to the Secretary for approval prior to commencing construction of the Broke Road realignment:
 - (b) describe the measures that would be implemented to minimise the construction traffic impacts of the development, particularly on the Golden Highway/Putty Road/Mitchell Line of Road intersection:
 - (c) include the detailed plans for the:
 - proposed haul road crossing of the Crown Road between the two parts of the Eastern Emplacement Area; and
 - new rail siding adjacent to the existing Saxonvale Rail Spur; and

(d) include a program to monitor and report on the amount of coal transported from the Bulga mine complex in each calendar year.

VISUAL

Noise & Visual Bund

- 44. The Applicant shall design, construct and maintain the proposed noise and visual bund to the satisfaction of the Secretary. This bund must:
 - (a) be completed as soon as practicable after the commencement of development under this consent; and
 - (b) be generally consistent with the concept plan in the EIS and the figure in Appendix 11

Visual Screening - Broke Road

- 45. The Applicant shall install and maintain suitable planting and screening to minimise the views of on-site mining infrastructure from Broke Road, in consultation with Council and to the satisfaction of the Secretary. This planting and screening must:
 - (a) be installed in conjunction with the road works and prior to the use of the realignment; and
 - (b) be strategically located along the realignment of Broke Road or within the site.

Visual & Lighting

- 46. The Applicant shall:
 - implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development;
 - (b) ensure no fixed outdoor lights shine above the horizontal or above the building line or any illuminated structure;
 - (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;
 - take all practical measures to shield views of mining operations from users of public roads and privately-owned residences,

to the satisfaction of the Secretary.

Visual Impact Management Plan

- 47. The Applicant shall prepare and implement a Visual Impact Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - be prepared in consultation with Council, and submitted to the Secretary for approval within 6 months
 of the date of this consent;
 - (b) include the detailed plans for:
 - Noise & Visual Bund; and
 - visual screening along the Broke Road realignment;
 - (c) describe the measures that would be implemented to minimise the visual and lighting impacts of the development; and
 - (d) include a program to monitor and report on the implementation of the detailed plans and the effectiveness of the proposed visual and lighting mitigation measures.

BUSHFIRE MANAGEMENT

- 48. The Applicant shall:
 - (a) ensure that the development is suitably equipped to respond to any fires on site; and
 - (b) assist the Rural Fire Service and emergency services as much as possible if there is a fire in the surrounding area.

WASTE

- 49. The Applicant shall:
 - (a) implement all reasonable and feasible measures to minimise the waste generated by the development;
 - (b) ensure that the waste generated by the development is appropriately stored, handled and disposed of; and
 - (c) monitor and report on effectiveness of the waste minimisation and management measures each calendar year,

to the satisfaction of the Secretary.

REHABILITATION

Rehabilitation Objectives

50. The Applicant shall rehabilitate the site to the satisfaction of the Secretary NSW Trade & Investment. This rehabilitation must be generally consistent with the proposed rehabilitation strategy in the EIS (and depicted conceptually in the figures in Appendix 12), and comply with the objectives in Table 10.

Table 10: Rehabilitation Objectives

Feature	Objective		
Mine site (as a whole)	Safe, stable and non-polluting Final landforms to: be designed to minimise the visual impacts of the development; be in keeping with the natural terrain features of the area; incorporate micro-relief; and avoid straight run drainage drop structures		
Final Void	Designed as long term groundwater sinks and to maximi groundwater flows across back-filled pits to the final void Minimise:		
Revegetation	Restore self-sustaining ecosystems, including establishing at least: 2,200 ha of Central Hunter Grey Box–Ironbark Woodland EEC; 250 ha of Central Hunter Ironbark–Spotted Gum–Grey Box Forest EEC; and 50 ha of Central Hunter Swamp Oak Forest.		
Agriculture	 Return at least 260 hectares of land within the project disturbance area to be suitable for agricultural use 		
Surface infrastructure	 To be decommissioned and removed, unless the Secretary NSW Trade & Investment agrees otherwise 		
Community	Ensure public safety Minimise the adverse socio-economic effects associated with mine closure		

Progressive Rehabilitation

51. The Applicant 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 development.

Rehabilitation Management Plan

- 52. The Applicant shall prepare and implement a Rehabilitation Management Plan for the development to the satisfaction of the Secretary NSW Trade & Investment. This plan must:
 - (a) be prepared in consultation with the Department, NOW, OEH and Council;
 - (b) be submitted to the Secretary NSW Trade & Investment for approval within 6 months of the date of this consent;
 - (c) be prepared in accordance with any relevant NSW Trade & Investment guideline;
 - (d) describe how the rehabilitation of the site would be integrated with the implementation of the biodiversity offset strategy;
 - (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 consent, and address all aspects of rehabilitation including mine closure, final landform, and final land use;

- (g) provide for detailed mine closure planning, including measures to minimise socio-economic effects due to mine closure, to be conducted prior to the site being placed on care and maintenance;
 (h) include interim rehabilitation where necessary to minimise the area exposed for dust generation;
- include a program to monitor and report on the effectiveness of the measures, and progress against the detailed performance and completion criteria; and
- build to the maximum extent practicable on the other management plans required under this consent.

Note: The Biodiversity Management Plan and Rehabilitation Management Plan need to be substantially integrated for achieving biodiversity objectives for the rehabilitated mine-site.

SCHEDULE 4 ADDITIONAL PROCEDURES

NOTIFICATION OF LANDOWNERS/TENANTS

- 1, Within 1 month of the date of this consent, the Applicant shall:
 - (a) notify in writing the owners of:
 - the land listed in Table 1 of schedule 3 that they have the right to require the Applicant to acquire
 their land at any stage during the development and/or request the Applicant to ask for additional
 noise and/or air quality mitigation measures (whichever is relevant) to be installed at their
 residence at any stage during the development (if they have not requested acquisition);
 - any residence on the land listed in Table 2 of schedule 3 that they have the right to request the Applicant to ask for additional noise and/or air quality mitigation measures (whichever is relevant) to be installed at their residence at any stage during the development; 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 consent (see condition 17 of schedule 3); and
 - (c) 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 EIS identify that dust emissions generated by the development are likely to be greater than the relevant air quality criteria in schedule 3 at any time during the life of the development.
- 2. Prior to entering into any tenancy agreement for any land owned by the Applicant that is predicted to experience exceedances of the recommended dust and/or noise criteria, or for any of the land listed in condition 1 that is subsequently purchased by the Applicant, the Applicant 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 consent.
- 3. As soon as practicable after obtaining monitoring results showing:
 - (a) an exceedance of any relevant criteria in schedule 3, the Applicant shall notify the affected landowners in writing of the exceedance, and provide regular monitoring results to these landowners until the development is again complying with the relevant criteria; and
 - (b) an exceedance of any relevant air quality criteria in schedule 3, the Applicant 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 development to be exceeding the relevant criteria in schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development 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 Applicant shall:

- (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:
 - · consult with the landowner to determine his/her concerns;
 - conduct monitoring to determine whether the development is complying with the relevant criteria in schedule 3;
 - if the development is not complying with these criteria then identify the measures that could be implemented to ensure compliance with the relevant criteria; and
 - in cases where there is an exceedance of any air quality criteria, and more than one mine is
 responsible for the exceedance, determine the relative share of each mine regarding the impact
 of the development; and
- (b) give the Secretary and landowner a copy of the independent review.

LAND ACQUISITION

- 5. Within 3 months of receiving a written request from a landowner with acquisition rights, the Applicant shall make a binding written offer to the landowner based on:
 - 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 development, 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 condition 2 of
 schedule 3;
 - (b) the reasonable costs associated with:
 - relocating within the Singleton, Cessnock or Muswellbrook 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 Applicant 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 Applicant 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 Applicant 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 Applicant's binding written offer under this condition within 6 months of the offer being made, then the Applicant's obligations to acquire the land shall cease, unless the Secretary determines otherwise.

6. The Applicant shall pay all reasonable costs associated with the land acquisition process described in condition 5 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, REPORTING AND AUDITING

ENVIRONMENTAL MANAGEMENT

Environmental Management Strategy

- The Applicant shall prepare and implement an Environmental Management Strategy for the Bulga mine complex to the satisfaction of the Secretary. This strategy must:
 - (a) be submitted to the Secretary for approval within 12 months of the date of this consent;
 - (b) provide the strategic framework for environmental management of the Bulga mine complex;
 - (c) identify the statutory approvals that apply to the development;
 - (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;
 - (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 development;
 - · receive, handle, respond to, and record complaints;
 - · resolve any disputes that may arise during the course of the development;
 - · respond to any non-compliance:
 - · respond to emergencies; and
 - (f) include:
 - copies of any strategies, plans and programs approved under the conditions of this consent; and
 - a clear plan depicting all the monitoring required to be carried out under the conditions of this
 consent.

Adaptive Management

The Applicant shall assess and manage development-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 consent 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 Applicant 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 Applicant shall ensure that the management plans required under this consent 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 development 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 development;
 - 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 development 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.

Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.

Annual Review

- 4. By the end of March each year, unless the Secretary agrees otherwise, the Applicant shall review the environmental performance of the development to the satisfaction of the Secretary. This review must:
 - (a) describe the development (including any rehabilitation) that was carried out in the past financial year, and the development that is proposed to be carried out over the next year;
 - (b) include a comprehensive review of the monitoring results and complaints records of the development over the past financial year, which includes a comparison of these results against the:
 - relevant statutory requirements, limits or performance measures/criteria;
 - · requirements of any plan or program required under this consent:
 - · monitoring results of previous years; and
 - relevant predictions in the EIS:
 - identify any non-compliance over the past financial 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 development;
 - (e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
 - (f) describe what measures will be implemented over the current financial year to improve the environmental performance of the development.

Revision of Strategies, Plans and Programs

- 5. Within 3 months of:
 - (a) the submission of an annual review under Condition 4 above;
 - (b) the submission of an incident report under Condition 7 below;
 - (c) the submission of an audit report under Condition 9 below; or
 - (d) any modification to the conditions of this consent (unless the conditions require otherwise),

the Applicant shall review, and if necessary revise, the strategies, plans, and programs required under this consent to the satisfaction of the Secretary.

Where this review leads to revisions in any such document, then within 4 weeks of the review, unless the Secretary agrees otherwise, 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 development.

Community Consultative Committee

6. The Applicant shall operate a Community Consultative Committee (CCC) for the Bulga 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 Developments* (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 Applicant complies with this consent.
- In accordance with the guideline, the Committee should be comprised of an independent chair and appropriate representation from the Applicant, Council, recognised environmental groups and the local community.

REPORTING

Incident Reporting

7. The Applicant shall immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Applicant 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 Applicant shall provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.

INDEPENDENT ENVIRONMENTAL AUDIT

- 9. By the end of 2015, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. 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 development and assess whether it is complying with the requirements in this consent and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals);
 - (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and
 - (e) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under the abovementioned approvals.

Note: This audit team must be led by a suitably qualified auditor and include experts in any field specified by the Secretary.

10. Within 6 weeks of the completion of this audit, unless the Secretary agrees otherwise, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

ACCESS TO INFORMATION

- 11. Within 6 months of the date of this consent, the Applicant shall:
 - (a) make copies of the following publicly available on its website:
 - · the EIS:
 - current statutory approvals for the development;
 - approved strategies, plans and programs required under the conditions of this consent;
 - a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs:
 - a complaints register, which is to be updated monthly:
 - minutes of CCC meetings:
 - the annual reviews of the development (for the last 5 years, if applicable);
 - any independent environmental audit of the development, and the Applicant's response to the recommendations in any audit;
 - · any other matter required by the Secretary; and
 - (b) keep this information up-to-date,

to the satisfaction of the Secretary.

APPENDIX 1 SCHEDULE OF LAND

Lot	DP	Owner
25	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
80	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
56	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
2	102103	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
44	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
49	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	563668	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
54	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
35	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	621145	Bulga Coal Management Pty Ltd
61	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
126	729952	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
39	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	376892	Bulga Coal Management Pty Ltd
6	704474	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
22	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	435160	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
46	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	745971	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
50	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
98	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
79	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
29	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
2	133168	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
38	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
86	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
3	133168	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
14	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
37	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
68	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
75	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
34	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
52	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
15	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
6	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
44	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
3	133135	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
40	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
6	248448	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
В	174788	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
77	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
	561424	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%

Lot	DP	Owner
1	133168	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	729923	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
7	704474	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
11	244826	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
43	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
26	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
43	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
45	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
73	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
83	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
31	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
8	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	102103	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
7	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
81	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
41	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
28	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
105	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
85	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
111	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
7	248448	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	784032	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	133135	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
23	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
10	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
113	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	662301	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
36	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
2	133135	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
5	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
3	561424	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
72	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
51	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
78	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
33	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
Α	174788	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
27	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
127	856361	Crown Land
24	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
48	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
12	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
9	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	205613	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
74	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%

Lot	DP	Owner
62	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	445449	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	821150	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
109	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
60	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
19	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	1145329	Bulga Coal Management Pty Ltd
2	1143947	Commonwealth of Australia
8	248448	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
5	248448	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
3	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
84	856359	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
11	730762	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
20	263943	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
4	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
10	730762	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
274	260663	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
85	856359	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
271	260663	Miller Pohang Coal Co. Pty Limited
3	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
6	561424	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
82	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
11	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
103	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
13	247398	Bulga Coal Management Pty Ltd
10	244826	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
52	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
125	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
6	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
18	247398	Bulga Coal Management Pty Ltd
53	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
5	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
4	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
16	247398	Saxonvale Coal Pty Limited 97.5% and Nippon Steel Australia Pty Limited 2.5%
76	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
2	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
5	561424	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	247398	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
51	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
17	247398	Bulga Coal Management Pty Limited
30	755264	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
709	749857	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
852	612261	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%
1	62544	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%

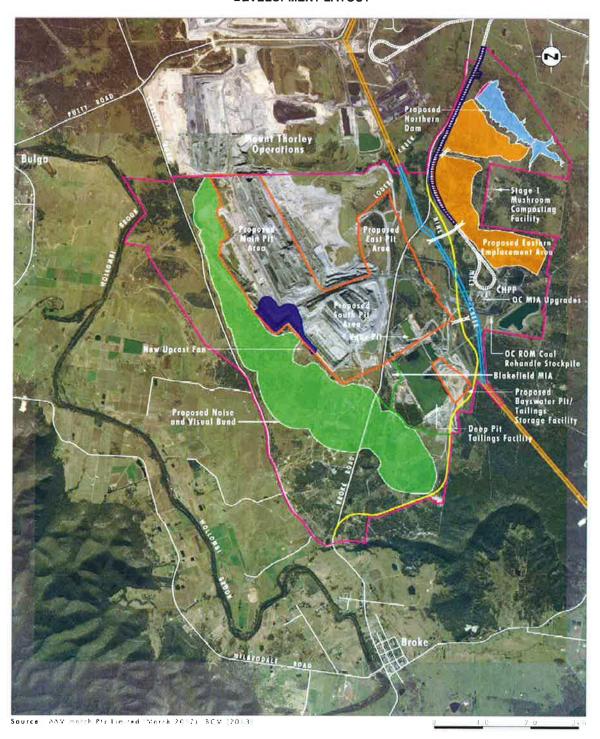
Lot	DP	Owner			
2	62544	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%			
1	657988	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%			
1	47305	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%			
69	755270	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%			
191	545559	Bulga Coal Management Pty Ltd			
21	811613	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%			
6	10022	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%			
192	545559	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%			
7	10022	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%			
125	755270	Bulga Coal Management Pty Ltd			
17	10022	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%			
20	811613	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%			
1	564480	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%			
1	171648	Saxonvale Coal Pty Limited 87.5% and Nippon Steel Australia Pty Limited 12.5%			
Part Cl	harlton Road				
Part Br	oke Road				
Various	s Unnamed	Crown Roads			

Note: Some minor works associated with the realignment of utilities may also be required on the following lots owned by Mushroom Composters Pty Ltd:

• Lot 1 DP136366

- Lot 82 DP1006883
- Lot 81 DP1006883

APPENDIX 2 DEVELOPMENT LAYOUT



Legend

Projec Area

Cool Extraction Area

Proposed Noise and Visual Bund
Proposed Eustern Employeement Area
Proposed Northern Dam
Proposed Roll Siding
Proposed Broka Road Realignment

- Proposed BCC Access Roods

Existing 330kV Transmission Line
Proposed 330kV Transmission Line Realignment
Proposed Underground Access via Open Cut

Existing Roll Line

Revised Project - Key Features

APPENDIX 3 BULGA MINE COMPLEX



Legend

Saxonya e Collery Holding Boundary
Project Area
Existing 330kV Transmission Line

Wa'n Mine Water Storage Dam
Completed Underground Mining Operations in Whybrow Seam
Blacefield South Underground Workings

Wybrow Highwolf
Buiga Pit
Wybrow P I

Existing Mining Operations in Project Area

APPENDIX 4 TERMS OF THE VOLUNTARY PLANNING AGREEMENT

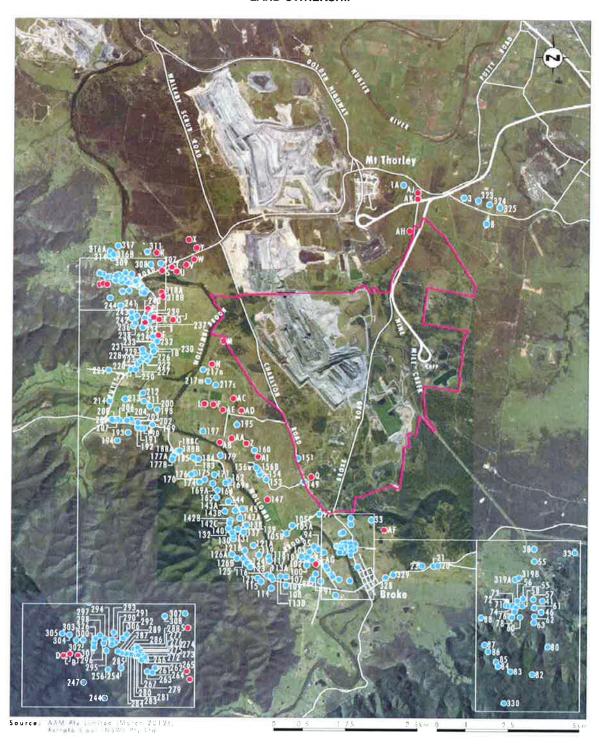
Road MaintenanceAnnual contribution to Singleton Council for the maintenance of Broke Road

\$TBA

Community Infrastructure

Project	Cost	Total
Local		
Village Master Plan		
To desalop a consultative master plan for the Villages of Broke, flulga and immediate surrounds	SHIOK	SALOX
Collaboration Februaren Bulga Coal, SSC and the Consolinity to determine projects for the local Area Implementation of Villagos & Surrounds Master		
Plan- Village Trust		
Implymentation of the Master Plan through a Trust well tacelitate the engoing sustainability of the Bulga Briske Milbrodale community	\$500.000	
Project already raised in the Our Villages Our Vision project that will be considered in this funding include		5655,(VA)
valuge Entrance Signage & Associated Writik Provision of services Redevelopment of the Broke	\$155.000	
Recreation Ground/ Skate Park • Development of McNamara		
Provision of a Cyclessay on the re-aligned section of Iriske Road for SSC, and provision of funding to undertake a roos epi-study for cycle ways in the Broke ad Aldbrodale area	\$20,000 (study element celly)	\$20,000
Broke Village Events	\$15,000 per year for 10 years	\$150,000
Local Education and Child Development	\$10000 per your for 10	\$100,000
Local Total		\$985,000
LGA Projects		
Significant Strategic Project to Be Determined by agreement Glencore & Singleton Council	5700,000	\$760,000
Singleton Performing Arts Planning Study	\$80,000	\$80,000
Replacement of Mobile Preschool Vehicle Services sural areas	\$65,009	\$65,000
Singleton CBD Master Plan Implementation Contribution – Stage 1 Development of children playground, pedestrian sroas	\$56(00)	\$50,000
IBA – Singleton Council Choice	590,000	\$90,000
GA Projects		\$985,000
Sub Total		\$ 1,970 ,000

APPENDIX 5 LAND OWNERSHIP



Legend Project Area Private Residence Mine Owned Residence

Location of Properties Included in Noise Assessment

Figure 1: Surrounding Residences

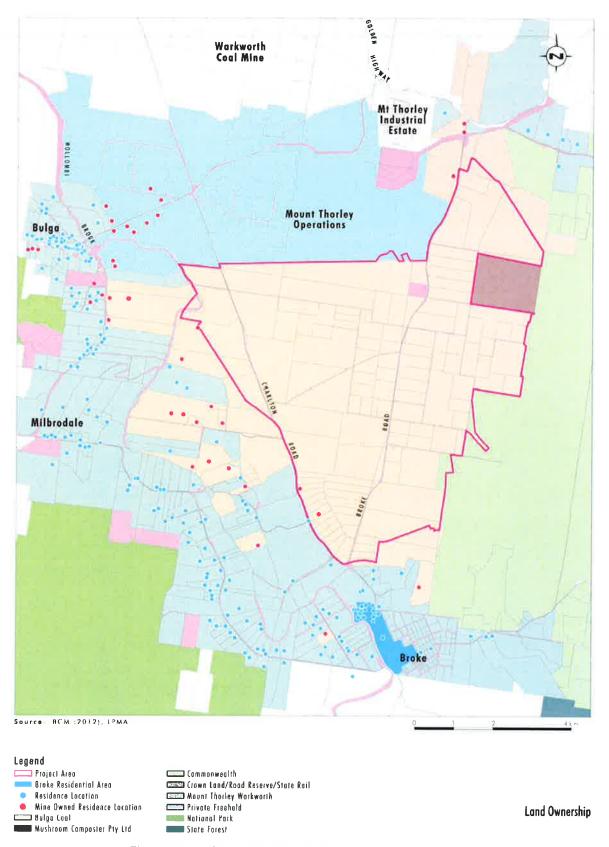


Figure 2: Land Ownership Within the Development Application Area

APPENDIX 6 ALTERNATE NOISE CRITERIA

Location	Day L _{Aeg (15 min)}	Evening L _{Aeg (15 min)}	Night L _{Aeg (15 min)}	Night L _{A1 (1 min)}
95,142A, 143B, 164, 165, 195, 217s	36	36	36	45
All other privately-owned residences	35	35	35	45

APPENDIX 7 NOISE COMPLIANCE ASSESSMENT

Applicable Meteorological Conditions

- 1. The noise criteria in Table 3 of schedule 3 are to apply under all meteorological conditions except the following:
 - (a) during periods of rain or hail;
 - (b) average wind speed at microphone height exceeds 5 m/s;
 - (c) wind speeds greater than 3 m/s measured at 10 m above ground level; or
 - (d) temperature inversion conditions greater than 3°C/100 m.

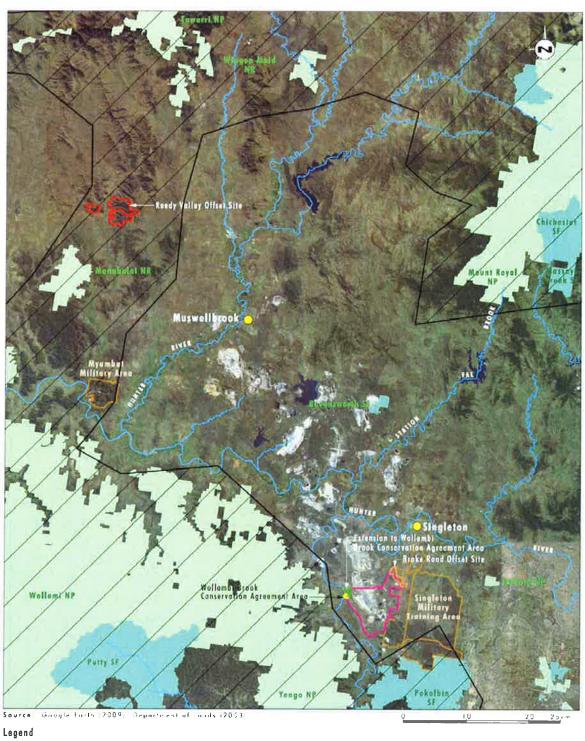
Determination of Meteorological Conditions

2. 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

- 3. Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.
- 4. This monitoring must be carried out at least once a month (but at least two weeks apart) unless the Director General directs otherwise.
- 5. Unless otherwise agreed with the Director General, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the NSW Industrial Noise Policy (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 8 BIODIVERSITY OFFSET STRATEGY



- geno
 Project Area
 Reedy Valley Offset Site
 Broke Road Offset Site
 Wollombi Brook Conservation Agreement Area
 Extension to Wallombi Brook Conservation Agreement Area
- National Park/Nature Reserve (NP/NR)
- State Forest (SF)
- Military Arno
 Great Eastern Ranges Conservation Correcor Initiative

Location of Ecology Offset Sites

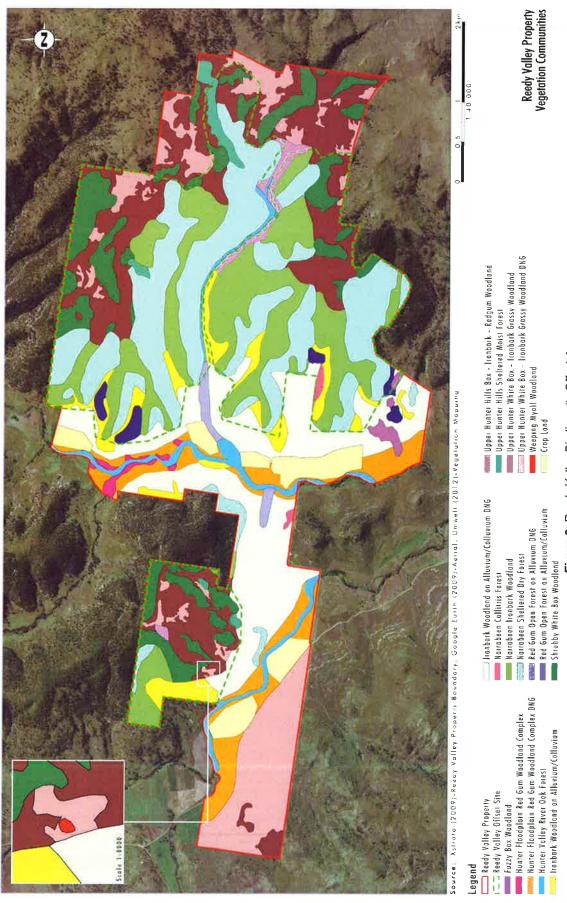


Figure 2: Reedy Valley Biodiversity Offset Area

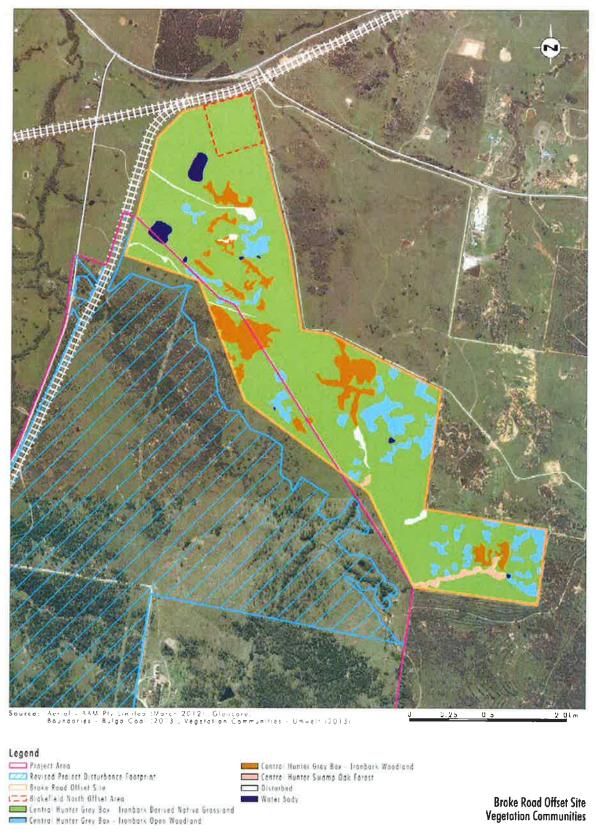
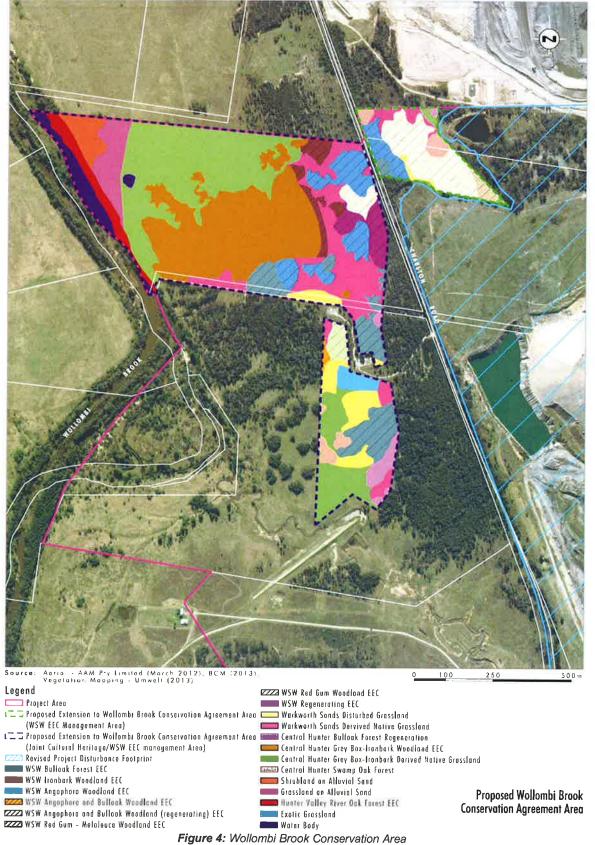


Figure 3: Broke Road Offset Area





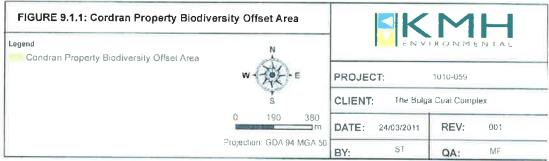


Figure 5: Location of the Condran Property Biodiversity Offset Area

APPENDIX 9 HERITAGE

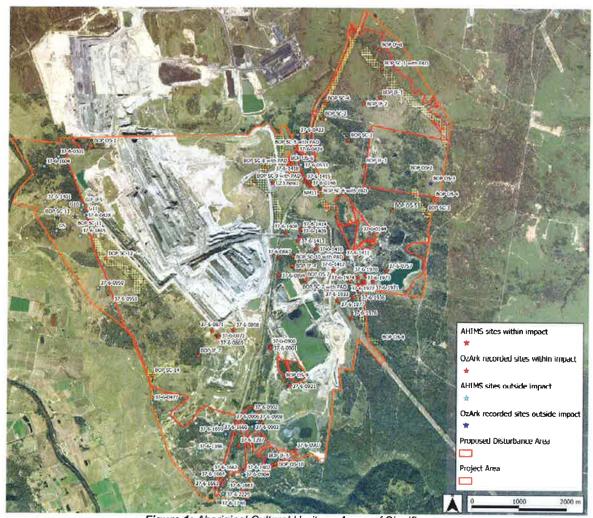


Figure 1: Aboriginal Cultural Heritage Areas of Significance

Table 1: Aboriginal sites not impacted by the Development

Site Name/AHIMS Number	Site Type			
37-6-0950	Open site			
37-6-0902	Open site			
37-6-0903	Open site			
37-6-0908	Open site			
37-6-1659	Open site			
37-6-0424	Open site			
37-6-0425	Open site			
37-6-0533	Open site			
37-6-0423	Open site			
37-6-1661	Open site			
37-6-1663 (also 37-6-1664?)	Open site			
37-6-0904	Open site			
37-6-0301	Open site			
37-6-1604	Open site			
37-6-1401	Open site			
37-6-0144	Open site			
37-6-0977	Open site			
37-6-1740	Open site			
37-6-2229	Open site			
BOP OS-8	Open site			
BOP IF-5	Isolated find			
37-6-0951	Isolated find			
37-6-1396	Isolated find			
37-6-1402	Isolated find			
37-6-1662	Isolated find			

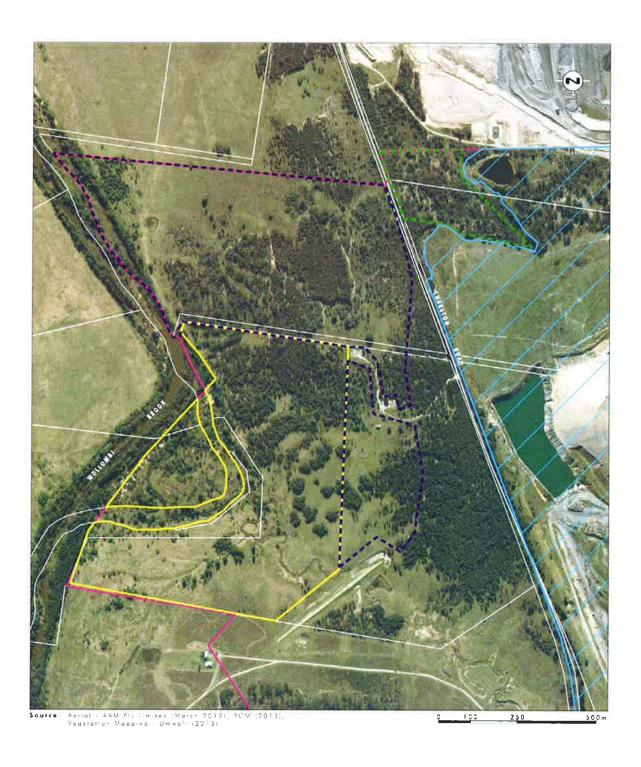
Table 2: Aboriginal sites impacted by the Development

Site Name/AHIMS Number	Site Type	Management Category
Loders Creek Grinding Groove Site (#37-6-0148). Within BOP SC-9 with PAD	Grinding grooves	1
BMU1 Grinding Groove Site (#37-6-0967). Within BOP SC-12	Grinding grooves	1
BOP SC-8 with PAD	Site complex	1 (Exposures 4, 9 and 10 only) 2 (Exposures 1, 5, 7, 8 and 12 only)
BOP SC-9 with PAD	Site complex	1 (Exposures 2, 4, 8 and 9 only) 2 (Exposures 1, 6, 7 and 10 and the margins around the Loders Creek Grinding Grooves site only)
BOP SC-1 with PAD	Site complex	2 (Exposures 19, 32, 33 and 38- 40)
BOP SC-5 with PAD	Site complex	2 (western bank of Nine Mile Creek only)
BOP SC-6 with PAD	Site complex	2 (eastern bank of Nine Mile Creek only, Exposures 1-4 only)
BOP SC-7 with PAD	Site complex	3
BOP SC-10 with PAD	Site complex	2 (Exposures 3-4 only)
BOP SC-12	Site complex	1 (BMU 1 grinding groove site only) 2 (Exposures 4-7 and 9 only)
BOP SC-14	Site complex	2
BOP SC-2	Site complex	3
BOP SC-3	Site complex	3
BOP SC-4	Site complex	3
37-6-1415	Open site	2
37-6-1418	Open site	2
37-6-0146	Open site	3
NM11: not listed	Open site	2
37-6-1414	Open site	2

Site Name/AHIMS Number	Site Type	Management Category
BOP OS-1	Open site	3
BOP OS-4	Open site	3
BOP OS-5	Open site	3
BOP OS-6	Open site	3
BOP OS-7	Open site	3
BOP OS-9	Open site	3
BOP OS-10	Open site	3
37-6-1969	Open site	3
37-6-0871	Open site	3
37-6-0898	Open site	3
37-6-0872	Open site	3
37-6-0490	Open site	3
37-6-0907	Open site	3
37-6-0931	Open site	3
37-6-0900	Open site	3
37-6-1975	Open site	3
37-6-1977	Open site	3
37-6-1408	Open site	3
37-6-1409	Open site	3
37-6-1410	Open site	3
37-6-1411	Open site	3
37-6-1412	Open site	3
CZ3 new1: not listed	Isolated Find	3
BOP-IF-1	Isolated find	3
BOP-IF-2	Isolated find	3
BOP-IF-3	Isolated find	3
BOP-IF-4	Isolated find	3
BOP-IF-6	Isolated find	3
BOP-IF-7	Isolated find	3
37-6-0869	Isolated find	3
37-6-0901	Isolated find	3
37-6-1933	Isolated find	3
37-6-1936	Isolated find	3
37-6-1970	Isolated find	3
37-6-1971	Isolated find	3
37-6-1972	Isolated find	3
37-6-1973	Isolated find	3
37-6-1974	Isolated find	3
37-6-1976	Isolated find	3
37-6-0757	Isolated find	3
37-6-1413	Isolated find	3
37-6-0887	Isolated find	3
37-6-0894	Isolated find	3
37-6-0906	Isolated find	3

Management Categories

Category 1: Archaeological research and salvage Category 2: Limited archaeological research and salvage; and Category 3: Surface collection and research



Legend

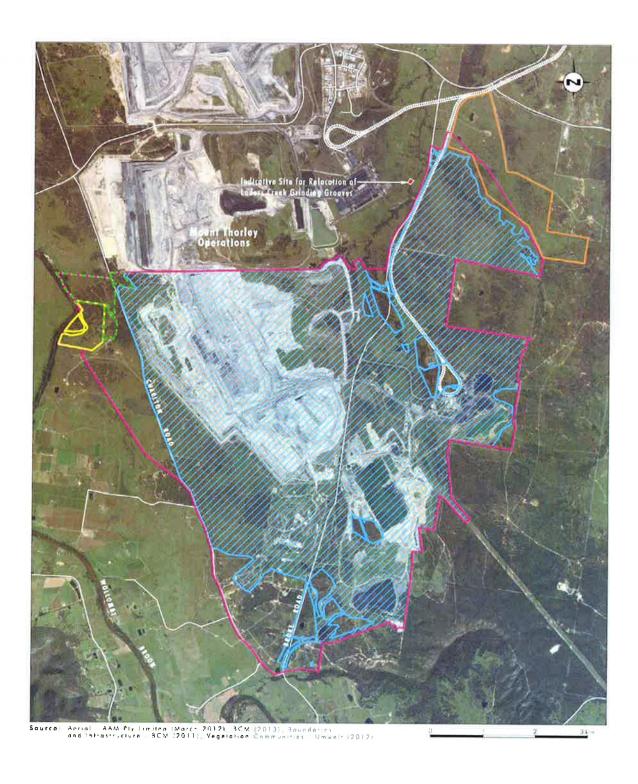
Project Area
Proposed Wolfambi Brook Conservation Agreement Area
(WSW EEC Management Area)

Throposed Extension to Wolfombi Brook Conservation Agreement Area
(MSW EEC Management Area)

Revised Project Disturbance Footpinal

Proposed Wollombi Brook Conservation Agreement Area

Figure 2: Wollombi Brook Conservation Area



Legend

- Project Aren
- Revised Project Disturbance Footpilat Proposed Broke Road Offset Site

- Existing Wollombi Brook Conservation Agreement Area

 Traposed Extension to Wollombi Brook Conservation Agreement Area

 indicative Sire for Relocation of Loders Creek Grinding Grooves

Indicative Site for Relocation of Loders Creek Grinding Grooves

Figure 3: Loders Creek Conservation Area

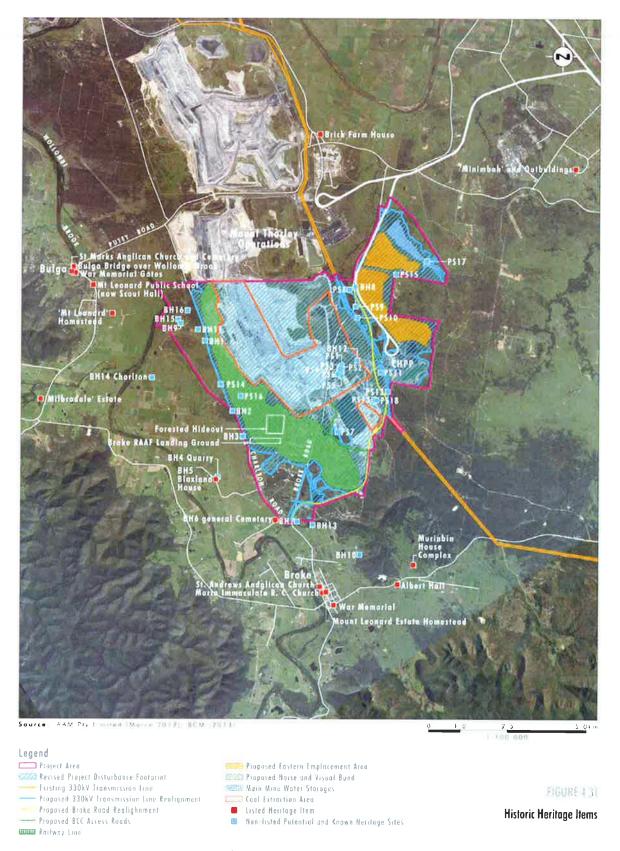


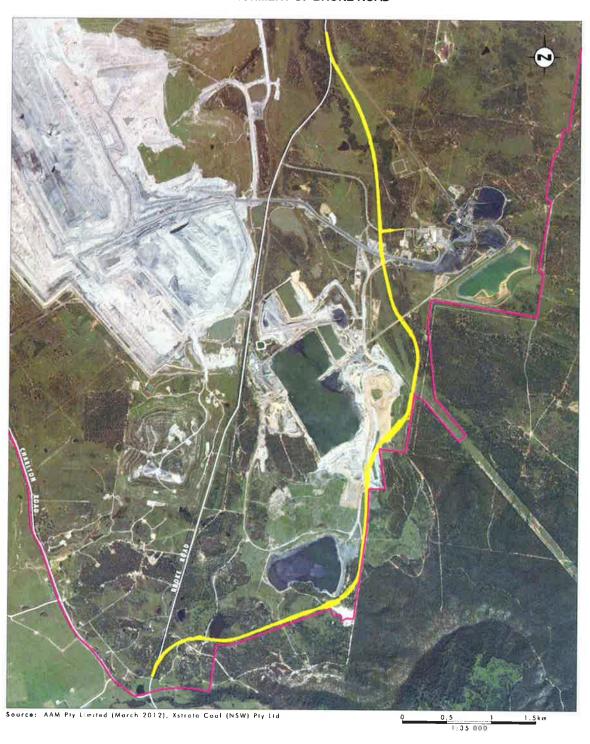
Figure 4: Historic Heritage Items

Table 3: European Heritage sites in the vicinity of the Development

Item ID	Listing/s	Location	Impact	Mitigation Proposed
BH7 – McNamara's	Unlisted	Outside	Indirect –	A photographic/archival recording
Dairy Cottage		Project	Potential indirect	in accordance with Heritage
		Area	impact as a result	Branch, OEH guidelines
			of ground	Photographic Recording of
			vibration	Heritage Items Using Film or
			associated with	Digital Capture (2006) is
			blasting.	recommended prior to any blasting
				impacts as a result of the Project.
BH13 - Stone Wall	Unlisted	Outside	Indirect -	An individual structural analysis of
alongside Monkey		Project	Potential indirect	Site BH13 should be undertaken
Place Creek		Area	impact as a result	by a suitably qualified structural
			of ground	engineer in order to identify if the
			vibration	recommended and predicted
			associated with	maximum vibration of up to 3
			blasting.	mm/s is appropriate for the site
			J	and any potential mitigation
		l .		measures that may be required (in
				terms of its structural stability)
				based on the findings of the
				analysis.
General Cemetery	Singleton LEP	Outside	Indirect -	A maximum vibration of 3mm/s
(Site BH6)	"	Project	Potential indirect	should be adopted for this site.
,		Area	impact as a result	oriodia de daspitoa for uno sito.
			of ground	BCC currently contributes to the
			vibration	maintenance of Broke Cemetery
			associated with	and intends to continue this
			blasting.	maintenance.
'Charlton' (Site	Singleton LEP	Outside	Indirect –	Blast sizes will be managed to 3
BH14)	J	Project	Potential indirect	mm/s for this heritage item, unless
·		Area	impact as a result	a structural assessment is
			of ground	conducted which confirms
			vibration	tolerance for higher vibration
			associated with	levels.
			blasting.	.0.0.0
Murinbin House	Register of the	Outside	Indirect –	Blast sizes will be managed to 3
Group (RNE Place	National Estate	Project	Potential indirect	mm/s for this heritage item, unless
ED 103881)	Commonwealth	Area	impact as a result	a structural assessment is
	Heritage List		of ground	conducted which confirms
	Australian		vibration	tolerance for higher vibration
	Heritage Places		associated with	levels.
	Inventory		blasting	10.0.0
	,			Blasting should be undertaken in
				accordance with any relevant
				recommendations of the
				Conservation Management Plan
				(CMP) for the Murinbin House
				Group.
St Andrews	Singleton LEP	Outside	Indirect -	Blast sizes will be managed to 3
Anglican Church	Register of the	Project	Potential indirect	mm/s for this heritage item, unless
(RNE Place ID	National Estate	Area	impact as a result	a structural assessment is
1398)			of ground	conducted which confirms
•			vibration	tolerance for higher vibration
			associated with	levels.
			blasting	
			3	

Item ID	Listing/s	Location	Impact	Mitigation Proposed
'Mt Leonard'	Singleton LEP	Outside	Indirect -	Blast sizes will be managed to 3
Homestead		Project	Potential indirect	mm/s for this heritage item, unless
		Area	impact as a result	a structural assessment is
			of ground	conducted which confirms
			vibration	tolerance for higher vibration
			associated with	levels.
			blasting	
PS17 - Former hut	Unlisted	Within	Direct - Likely to	This site has been recorded as
site		Project	be impacted as a	part of the preparation of this
		Area	result of the	report. This site has been
			construction and	assessed as having local
			use of a new	significance and low research
			water storage	potential.
			dam in the	
			northeast portion	It is recommended that this site be
			of the Project	retained in the landscape for as
			Area.	long as possible prior to impact.
				However, it can be removed as
				part of the Project.
				The Historic Heritage Assessment
				for the Project is considered to be
				a sufficient record of the site.
				a sufficient record of the site.
				Any potential additional associated
				features that are identified during
				any works in the area should be
				managed in accordance with
				Section 146 of the Heritage Act
				1977 (NSW).

APPENDIX 10 REALIGNMENT OF BROKE ROAD



Legend
Project Area
Proposed Broke Road Realignment

Proposed Broke Road Realignment

APPENDIX 11 CONCEPTUAL PROFILE OF THE NOISE AND VISUAL BUND

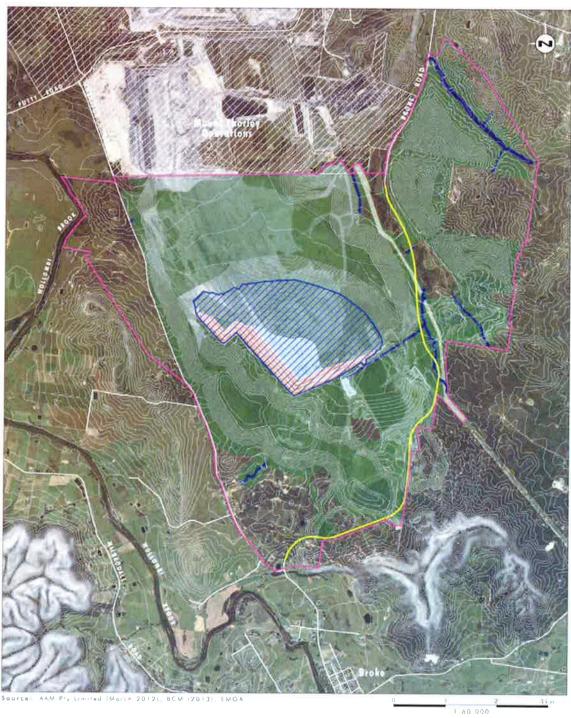


Figure 3.13 | Example of a typical bund with suggested modifications to ridge profile as considered in Workshop One overlaid.



Figure 3.14 | Montage illustrating suggested modifications to the typical bund profile to achieve key workshop outcomes of more natural ridge lines and vegetation patterns.

APPENDIX 12 REHABILITATION



Legend
Project Area
Woodland
Water
Grassland
Ripourin Revegetation
Highwoll
Proposed Road Realignment

FIGURE 2.7

Conceptual Final Landform and Rehabilitation Areas