# **Development Consent**

# Section 101 of the Environmental Planning and Assessment Act 1979

I determine the application to carry out the proposed development by granting consent to the application, subject to the conditions in schedules 1 to 5.

2 May 1983

Eric Bedford Minister for Planning and Environment

|                     | SCHEDULE 1  |
|---------------------|---|
| Development Number: | DA 80/952   |
| Applicant:          | Mt Owen Pty Limited   |
| Land:               | See Appendix 1  |
| Development:        | The Glendell Open Cut Coal Mine and Associated Infrastructure |
| Development:        | The Glendell Open Cut Coal Mine and Associated Infrastructure |

Black type represents Feb 2008 modification – replaced all previous conditions Blue type represents Dec 2016 modification Green type represents February 2020 modification Orange type represents July 2024 modification

The Department has prepared a consolidated version of the approval which is intended to include all modifications to the original determination instrument.

The consolidated version of the approval has been prepared by the Department with all due care. This consolidated version is intended to aid the approval holder by combining all approvals relating to the original determination instrument, but it does not relieve an approval holder of its obligation to be aware of and fully comply with all approval obligations as they are set out in the legal instruments, including the original determination instrument and all subsequent modification instruments.

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# DEFINITIONS

| Acquisition Zone   | The privately-owned land listed in Table 1 where there are no negotiated  |
|--|---|
|  | agreements in place between the Applicant and the applicable landowner  |
| Annual Review<br>Applicant   | The review required by condition 5 of schedule 5<br>Mt Owen Pty Limited, or its successors, including any person/s who rely   |
| Applicant  | on this consent to carry out development that is subject to this consent  |
| ARTC<br>BCA  | Australian Rail Track Corporation Ltd<br>Building Code of Australia   |
| BC Act   | Biodiversity Conservation Act 2016  |
| BCS  | Biodiversity Conservation and Science Group of NSW Department of  |
| ВСТ  | Climate Change, Energy, the Environment and Water<br>Biodiversity Conservation Trust  |
| CCC  | Community Consultative Committee  |
| Conditions of this consent   | Conditions contained in Schedules 2 to 5 inclusive  |
| Council<br>Crown Lands   | Singleton Council<br>Crown Lands Division within the Department of Planning, Housing and  |
|  | Infrastructure  |
| Day  | The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and Public Holidays   |
| Department   | NSW Department of Planning, Housing and Infrastructure  |
| Development  | The development as described in the documents listed in 2(a) of   |
| DST  | schedule 2<br>Daylight Savings Time   |
| EA (Mod 2)   | Environmental assessment for Modification 2 of DA 80/952, titled  |
|  | Environmental Assessment for Modification of Glendell Mine Operations,  |
|  | <i>Volumes 1-3</i> , dated August 2007 and prepared by Umwelt (Australia) Pty Limited, including the response to submissions document dated October   |
|  | 2007  |
| EA (Mod 3)   | Environmental assessment for Modification 3 of DA 80/952, titled  |
|  | Glendell Mine 132 kV Powerline Relocation Modification 3 Environmental Assessment, dated August 2016 and prepared by Hansen Bailey,   |
|  | including the response to submissions document dated September 2016   |
| EP&A Act<br>EP&A Regulation  | Environmental Planning and Assessment Act 1979<br>Environmental Planning and Assessment Regulation 2021   |
| EPA  | Environment Protection Authority  |
| EPL  | Environment Protection Licence issued under the Protection of the   |
| EST  | Environment Operations Act 1997   |
|  |   |
| Evening  | Eastern Standard Time<br>The period from 6pm to 10pm  |
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| Evening<br>Feasible<br>Heritage Branch<br>Incident<br>Land<br>Material harm                              | <ul> <li>Eastern Standard Time</li> <li>The period from 6pm to 10pm</li> <li>Means what is possible and practical in the circumstances. Feasible relates to engineering considerations and what is practical to build or carry out</li> <li>Heritage NSW within the Department</li> <li>An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance</li> <li>As defined in the EP&amp;A Act, except for where the term is used in the noise and air quality conditions in Schedules 3 and 4 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</li> <li>Is harm to the environment that:</li> <li>involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or</li> <li>results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment)</li> <li>This definition excludes "harm" that is authorised under either this consent or any other statutory approval'</li> <li>Water that accumulates within, or drains from, active mining areas, coal</li> </ul>  |
| Evening<br>Feasible<br>Heritage Branch<br>Incident<br>Land<br>Material harm<br>Mine water<br>Mining Area | Eastern Standard Time<br>The period from 6pm to 10pm<br>Means what is possible and practical in the circumstances. Feasible<br>relates to engineering considerations and what is practical to build or<br>carry out<br>Heritage NSW within the Department<br>An occurrence or set of circumstances that causes or threatens to cause<br>material harm and which may or may not be or cause a non-compliance<br>As defined in the EP&A Act, except for where the term is used in the<br>noise and air quality conditions in Schedules 3 and 4 of this consent<br>where it is defined to mean the whole of a lot, or contiguous lots owned<br>by the same landowner, in a current plan registered at the Land Titles<br>Office at the date of this consent<br>Is harm to the environment that:<br>• involves actual or potential harm to the health or safety of human<br>beings or to the environment that is not trivial, or<br>• results in actual or potential loss or property damage of an amount, or<br>amounts in aggregate, exceeding \$10,000, (such loss includes the<br>reasonable costs and expenses that would be incurred in taking all<br>reasonable and practicable measures to prevent, mitigate or make<br>good harm to the environment)<br>This definition excludes "harm" that is authorised under either this<br>consent or any other statutory approval'<br>Water that accumulates within, or drains from, active mining areas, coal<br>reject emplacement areas, tailings dams and infrastructure areas and<br>any other areas where runoff may have come into contact with coal or<br>carbonaceous material<br>The area hatched green on the Development Layout Plan in Appendix 2 |
| Evening<br>Feasible<br>Heritage Branch<br>Incident<br>Land<br>Material harm                              | Eastern Standard Time<br>The period from 6pm to 10pm<br>Means what is possible and practical in the circumstances. Feasible<br>relates to engineering considerations and what is practical to build or<br>carry out<br>Heritage NSW within the Department<br>An occurrence or set of circumstances that causes or threatens to cause<br>material harm and which may or may not be or cause a non-compliance<br>As defined in the EP&A Act, except for where the term is used in the<br>noise and air quality conditions in Schedules 3 and 4 of this consent<br>where it is defined to mean the whole of a lot, or contiguous lots owned<br>by the same landowner, in a current plan registered at the Land Titles<br>Office at the date of this consent<br>Is harm to the environment that:<br>• involves actual or potential harm to the health or safety of human<br>beings or to the environment that is not trivial, or<br>• results in actual or potential loss or property damage of an amount, or<br>amounts in aggregate, exceeding \$10,000, (such loss includes the<br>reasonable costs and expenses that would be incurred in taking all<br>reasonable and practicable measures to prevent, mitigate or make<br>good harm to the environment)<br>This definition excludes "harm" that is authorised under either this<br>consent or any other statutory approval'<br>Water that accumulates within, or drains from, active mining areas, coal<br>reject emplacement areas, tailings dams and infrastructure areas and<br>any other areas where runoff may have come into contact with coal or<br>carbonaceous material  |

NSW Government Department of Planning, Housing and Infrastructure

# **CONSOLIDATED CONSENT**

| Mining operations                               | Includes the removal and emplacement of overburden and extraction, processing, handling, storage and transport of coal on site   |
|---|--|
| Minister  | NSW Minister for Planning and Public Spaces, or delegate   |
| Mitigation                                      | Activities associated with reducing the impacts of the development   |
| Modification 4                                  | The modification to the development as described in SEE (Mod 4)  |
| Modification 5                                  | The modification to the development as described in Modification Report (Mod 5)  |
| Modification Report (Mod 5)                     | Modification application DA 80/952 MOD 5 and accompanying documents titled 'Glendell Mine Modification 5 Modification Report For Mt Owen Pty Ltd', dated 20 December 2023, including the submissions report titled 'Glendell Mine Modification 5 Submissions Report For Mt Owen Pty Ltd', dated 3 May 2024 |
| Mt Owen Complex                                 | The combined operations of the Mt Owen, Ravensworth East and Glendell mines  |
| Night   | The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays  |
| Non-compliance                                  | An occurrence, or set of circumstances or development that is a breach<br>of this consent  |
| Privately-owned land                            | Land that is not owned by a public agency, or a mining company (or its subsidiary)   |
| Public infrastructure                           | Linear and related infrastructure that provides services to the general public, such as roads, railways, water supply, drainage, sewerage, gas supply, electricity, telephone, telecommunications, etc.  |
| Reasonable                                      | Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements   |
| Registered Aboriginal Parties<br>Rehabilitation | As described in the <i>National Parks and Wildlife Regulation 2009</i><br>The restoration of land disturbed by the development to a good condition,<br>to ensure it is safe, stable and non-polluting  |
| ROM   | Run-of-Mine  |
| Resources Regulator                             | NSW Resources Regulator within the Department of Regional NSW  |
| Secretary                                       | Planning Secretary under the EP&A Act, or nominee  |
| SEE (Mod 4)                                     | Statement of Environmental Effects titled "Modification 4 Statement of Environmental Effects Glendell Mine' dated November 2018 and prepared by Umwelt, including the Response to Submissions document titled "Glendell Mine Modification 4 Response to Submissions" dated May                             |
|   | 2019   |
| Site  | The land referred to in Appendix 1   |
| Statement of Commitments                        | The Applicant's commitments in Appendix 3  |
| TfNSW   | Transport for NSW  |
| Water Group                                     | Water Group within the NSW Department of Climate Change, Energy the Environment and Water  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |

#### SCHEDULE 2 ADMINISTRATIVE CONDITIONS

#### Obligation to Minimise Harm to the Environment

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

# **Terms of Consent**

- 2. The Applicant must carry out the development:
  - (a) generally in accordance with the EA (Mod 2), EA (Mod 3), SEE (Mod 4), Modification Report (Mod 5) and the Development Layout Plan; and
  - (b) in accordance with the Statement of Commitments and the conditions of this consent.

Notes:

- The Development Layout Plan is shown in Appendix 2.
- The Statement of Commitments is reproduced in Appendix 3.
- **3.** If there is any inconsistency between the above documents, the most recent document must prevail to the extent of the inconsistency. However, the conditions of this consent must prevail to the extent of any inconsistency.
- The Applicant must comply with any requirement/s of the Secretary arising from the Department's assessment of:
  - (a) any strategies, plans 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; and
  - (c) the implementation of any actions or measures contained in these documents.

#### **Limits on Consent**

5. Mining operations may take place until the end of June 2026.

Note: Under this consent, the Applicant is required to rehabilitate the site and provide offsets to the satisfaction of the Secretary and Resources Regulator. Consequently this consent will continue to apply in all other respects other than the right to conduct mining operations until the site has been rehabilitated and the offsets provided to a satisfactory standard.

- 6. The Applicant must not extract more than 4.5 million tonnes of ROM coal from the site in any calendar year.
- 7. The Applicant must not transport any coal from the site using public roads.
- 8. (deleted)
- 9. *(deleted)*

#### **Structural Adequacy**

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

Notes:

- Under Part 6 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.

# **Operation of Plant and Equipment**

- 11. The Applicant must ensure that all plant and equipment used on site is:
  - (a) maintained in a proper and efficient condition; and
  - (b) operated in a proper and efficient manner.

#### **Development Contributions**

12. By the end of July 2008 (unless otherwise agreed by the Secretary), the Applicant must enter into an agreement with Singleton Council to provide development contributions to Council for the development, in accordance with Division 6 of Part 4 of the EP&A Act.

If the Applicant and Council cannot agree on the level or composition of the development contributions, then either party may refer the matter to the Secretary for resolution.

# **Demolition**

**13.** The Applicant must ensure that all demolition work undertaken in relation to the development is carried out in accordance with *AS 2601-2001: The Demolition of Structures*, or its latest version.

# **Protection of Public Infrastructure**

- 14. Unless the Applicant and the applicable authority agree otherwise, the Applicant must:
  - (a) 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 public infrastructure subject to compensation payable under the Coal Mine Subsidence Compensation Act 2017, or to damage to roads caused as a result of general road usage.

# **Transmission Line**

- 15. Prior to mining within 200 metres of the existing electrical 132 kilovolt transmission line, that traverses the site, the Applicant must:
  - (a) relocate the affected section of transmission line to a new alignment as shown conceptually in Appendix 2 (see blue easement) and to the satisfaction of Ausgrid;
  - (b) ensure that any aspects of the new transmission line that occur within or interact with the Main Northern Railway corridor are designed and constructed to the satisfaction of ARTC; and
  - (c) design, install and maintain any infrastructure within 40 metres of watercourses generally in accordance with DPI Water's *Guidelines for Controlled Activities on Waterfront Land*.

# EVIDENCE OF CONSULTATION

- 16. Where conditions of this consent require consultation with an identified party, the Applicant must:
  - (a) consult with the relevant party prior to submitting the subject document; and
- (b) provide the Department with details of the consultation undertaken including:
  - the outcome of that consultation, matters resolved and unresolved; and
  - details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.

# STAGING, COMBINING AND UPDATING STRATEGIES, PLANS OR PROGRAMS

- 17. With the approval of the Secretary, the Applicant may:
  - (a) prepare and submit any strategy, plan or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program);
  - (b) combine any strategy, plan or program required by this consent (if a clear relationship is demonstrated between the strategies, plans or programs that are proposed to be combined);
  - update any strategy, plan or program required by this consent (to ensure the strategies, plans and programs required under this consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development); and
  - (d) combine any strategy, plan or program required by this consent with any similar strategy, plan or program required by an adjoining mining consent or approval, in common ownership or management.

If the Secretary agrees, a strategy, plan or program may be staged or updated without consultation being undertaken with all parties required to be consulted in the relevant condition in this consent.

# COMPLIANCE

18. The Applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.

#### **APPLICABILITY OF GUIDELINES**

- 19. References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent.
- 20. However, consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Planning Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.

# **CROWN LAND**

21. The Applicant must consult with Crown Lands prior to undertaking any development on Crown Land or Crown Roads.

#### Notes:

- Under section 265 of the Mining Act 1992, the Applicant is required to enter into a compensation agreement with Crown Lands prior to undertaking any mining operations or related activities on Crown land or Crown roads within a mining lease.
- Under section 141 of the Mining Act 1992, the Applicant is required to enter into an access arrangement with Crown Lands prior to undertaking any prospecting operations on Crown land or Crown roads within an exploration licence.

NSW Government Department of Planning, Housing and Infrastructure

# SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS

# **ACQUISITION OF AFFECTED PROPERTIES**

#### Acquisition Upon Request

1. Upon receiving a written request for acquisition from the owner of the land<sup>a</sup> listed in Table 1, the Applicant must acquire the land in accordance with the procedures in conditions 9-11 of schedule 4.

Table 1: Land subject to acquisition upon request

| 37a & 37b – Richards | Lot 13 DP 6830 – Gardner |
|----------------------|--------------------------|
| 61 – Donellan        | Lot 12 DP 6830 – Noble   |
| 62 – Noble (b)       | Lot 1 DP 770733 – Noble  |
| 65 – Noble           |                          |

<sup>a</sup> The locations of the land referred to in Table 1 are shown in Appendix 4

Note: Lands titled 62 – Noble (b), 65 – Noble, Lot 13 DP 6830 – Gardner, Lot 12 DP 6830 – Noble and Lot 1 DP 770733 – Noble have been acquired and are now mine-owned.

# NOISE

# **Noise Impact Assessment Criteria**

2. The Applicant must ensure that the noise generated by the development does not exceed the noise impact assessment criteria in Table 2 at any residence on privately-owned land<sup>a</sup>, or on more than 25% of any privately-owned land.

Table 2: Noise impact assessment criteria dB(A)

| Land Number / Receiver   | Day/Evening/Night<br>L <sub>Aeq(15 minute)</sub> | Night<br>LA1(1 minute) |
|--|--|------------------------|
| Camberwell Village A   |  |                        |
| 30 – Ninness<br>33 – Peachey<br>37c – Richards<br>53 – Yates                         | 42   | 45                     |
| 11 – Chisholm<br>22b – Turner<br>35 – Pugh   | 41   | 45                     |
| Other privately-owned land in Camberwell<br>Village A                                | 40   | 45                     |
| Camberwell Village B   |  |                        |
| 20 – Foord<br>21a & 21b – Merchant<br>38 – Roberton<br>47 & 50 – Vollebregt & Clarke | 42   | 45                     |
| 6 – Bennett<br>24 – Lopes  | 40   | 45                     |
| 4 – Standing<br>40 – Smiles  | 39   | 45                     |
| 32 – Green<br>44 – Stapleton   | 38   | 45                     |
| Other privately-owned land in Camberwell<br>Village B                                | 37   | 45                     |
| Camberwell Village C   |  |                        |
| 27 – McInerney   | 40   | 45                     |
| 31 – Olofsson  | 38   | 45                     |
| Other privately-owned land in Camberwell<br>Village C                                | 35   | 45                     |
| Other Privately-owned Land   |  |                        |
| 37a & 37b – Richards<br>83 – Westcott<br>110 – Hall                                  | 38   | 45                     |

# CONSOLIDATED CONSENT

| Land Number / Receiver                        | Day/Evening/Night<br>L <sub>Aeq(15 minute)</sub> | Night<br>LA1(1 minute) |
|---|--|------------------------|
| 34 – Poulton<br>87 – Fairfull                 | 37   | 45                     |
| 9 – Burgess<br>18 – Hall<br>45 & 46 – Tisdell | 36   | 45                     |
| All other privately-owned land                | 35   | 45                     |
| Camberwell Hall and St Clements Church        | 40   | -                      |

<sup>a</sup> The locations of the land and receiver numbers as described in EA (Mod 2) and referred to in Table 2 are shown in Appendix 4

However, if the Applicant has a written negotiated noise agreement with any landowner of the land listed in Table 2, and a copy of this agreement has been forwarded to the Department and EPA, then the Applicant may exceed the noise limits in Table 2 in accordance with the negotiated noise agreement.

Notes:

- Lands titled 30 Ninness, 33 Peachey, 37c Richards, 53 Yates, 11 Chisholm, 35 Pugh, 20 Foord, 21a & 21b Merchant, 38 Roberton, 6 Bennett, 24 Lopes, 4 Standing, 40 Smiles, 32 Green and 44 Stapleton have been acquired and are now mine-owned.
- 2A. 'Noise generated by the development' as described in conditions 2, 3, 4 and 6 of this Schedule is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the *NSW Industrial Noise Policy*.

The 'cumulative noise generated by the development' as described in condition 5 of this Schedule, combined with the noise generated by other mines is to be measured in accordance with the relevant procedures in the *NSW Industrial Noise Policy*.

# Land Acquisition Criteria

3. If the noise generated by the development exceeds the criteria in Table 3 at any residence on privately-owned land, or on more than 25% of any privately-owned land, the Applicant must, upon receiving a written request for acquisition from the landowner, acquire the land<sup>a</sup> in accordance with the procedures in conditions 9-11 of schedule 4.

Table 3: Land acquisition criteria dB(A)

| Land  | Day/Evening/Night |
|---|-------------------|
|   | LAeq(15 minute)   |
| Camberwell Village A  | 45                |
| Camberwell Village B  | 42                |
| Camberwell Village C  | 40                |
| All other privately-owned land, excluding the land listed in Table 1.                 | 40                |
| <sup>a</sup> The locations of the land referred to in Table 3 are shown in Appendix 4 |                   |

# **Cumulative Noise Criteria**

- 4. The Applicant must take all reasonable and feasible measures to ensure that the noise generated by the development combined with the noise generated by other mines does not exceed the following amenity criteria at any residence on privately-owned land, or on more than 25% of any privately-owned land, excluding the land listed in Table 1, to the satisfaction of the Secretary:
  - L<sub>Aeq(11 hour)</sub> 50 dB(A) Day;
  - LAeq(4 hour) 45 dB(A) Evening; and
  - $L_{Aeq(9 hour)}$  40 dB(A) Night.
- 5. If the noise generated by the development combined with the noise generated by other mines exceeds the following amenity criteria at any residence on privately-owned land, or on more than 25% of any privately-owned land, excluding the land listed in Table 1, then upon receiving a written request for acquisition from the landowner, the Applicant must acquire the land on as equitable basis as possible with the relevant mines, in accordance with the procedures in conditions 9-11 of schedule 4, to the satisfaction of the Secretary:
  - LAeq(11 hour) 53 dB(A) Day;
  - LAeq(4 hour) 48 dB(A) Evening; and
  - LAeq(9 hour) 43 dB(A) Night.

# **Construction Noise**

5A. The Applicant must manage noise associated with construction of the realigned transmission line, the removal of the redundant transmission line and any road works in accordance with the noise management levels defined in Table 2 of the *Interim Construction Noise Guideline*.

#### **Additional Noise Mitigation Measures**

- 6. Upon receiving a written request from:
  - a landowner of the land listed in Table 1 (unless the landowner has requested acquisition); or
  - a landowner of the land listed in Table 4 (except where a negotiated noise agreement is in place); or
  - the owner of any residence where subsequent noise monitoring shows the noise generated by the development is greater than, or equal to, the criteria in Table 5 (except where a negotiated noise agreement is in place),

the Applicant must implement additional noise mitigation measures such as double glazing, insulation, and/or air conditioning at any residence on the land in consultation with the landowner.

These additional mitigation measures must be reasonable and feasible.

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

By the end of April 2008, the Applicant must notify all applicable landowners that they are entitled to receive additional noise mitigation measures, to the satisfaction of the Secretary.

Table 4: Land subject to additional noise mitigation upon request

| 6 – Bennett          | 37a – Richards                |
|----------------------|-------------------------------|
| 20 – Foord           | 38 – Roberton                 |
| 21a & 21b – Merchant | 47 & 50 – Vollebregt & Clarke |
| 24 – Lopes           | 83 – Westcott                 |
| 27 – McInerney       | 110 – Hall                    |
| 31 – Olofsson        |                               |

Table 5: Additional noise mitigation criteria dB(A)

| Land  | Day/Evening/Night |
|---|-------------------|
|   | LAeq(15 minute)   |
| Camberwell Village A  | 43                |
| Camberwell Village B  | 40                |
| Camberwell Village C  | 38                |
| All other privately-owned land, excluding the land listed in Table 1. | 38                |

Notes to Tables 4-5:

 Lands titled 6 – Bennett, 20 – Foord, 21a & 21b – Merchant, 24 – Lopes, 38 – Roberton have been acquired and are now mine-owned.

# **Continuous Improvement**

The Applicant must:

- (a) implement all reasonable and feasible best practice noise mitigation measures;
- (b) investigate ways to reduce the noise generated by the development, including maximum noise levels which may result in sleep disturbance; and
- (c) report on these investigations and the implementation and effectiveness of these measures in the Annual Review.

## Monitoring

7.

- 8. The Applicant must prepare a Noise Monitoring Program for the development to the satisfaction of the Secretary. This program must:
  - (a) be prepared in consultation with EPA;
  - (b) be submitted to the Secretary for approval by the end of April 2008; and
  - (c) include a:
    - combination of real-time and supplementary attended monitoring measures; and
    - noise monitoring protocol for evaluating compliance with the noise impact assessment and land acquisition criteria in this consent.

# The Applicant must implement the approved program as approved from time to time by the Secretary.

# **BLASTING AND VIBRATION**

## Airblast Overpressure Impact Assessment Criteria

9. The Applicant must ensure that the airblast overpressure level from blasting at the development does not exceed the criteria in Table 6 at any residence on privately-owned land.

Table 6: Airblast overpressure impact assessment criteria

| Airblast overpressure level (dB(Lin Peak)) | Allowable exceedance  |  |
|--|---|--|
| 115  | 5% of the total number of blasts over a period of 12 months |  |
| 120  | 0%  |  |

#### **Ground Vibration Impact Assessment Criteria**

10. The Applicant must ensure that the ground vibration<sup>a</sup> level from blasting at the development does not exceed the criteria at the receivers<sup>b</sup> in Table 7.

Table 7: Ground vibration impact assessment criteria

| Receiver                                      | Peak particle velocity<br>(mm/s) | Allowable exceedance  |
|---|----------------------------------|---|
| Residence on privately-owned land             | 5                                | 5% of the total number of blasts over a period of 12 months |
|   | 10                               | 0%  |
| St Clements Church                            | 2                                | 5% of the total number of blasts over a period of 12 months |
|   | 5                                | 0%  |
| Main Northern Railway<br>culverts and bridges | 25                               | 0%  |
| Electricity transmission poles                | 50                               | 0%  |

<sup>a</sup> Vibration must be measured in accordance with applicable guidelines, including EPA's Assessing Vibration: A Technical Guideline (2006).

<sup>b</sup>The receivers referred to in Table 7 are shown in Appendix 4

However, if the Applicant has a written negotiated agreement with the relevant service provider, and a copy of this agreement has been forwarded to the Department and EPA, then the Applicant may exceed the criteria for the Main Northern Railway culverts and bridges and electricity transmission poles in accordance with the negotiated agreement.

# **Blasting Hours**

11. The Applicant must only carry out blasting on site between 9am and 5pm Monday to Saturday (EST) inclusive, and 9am to 6pm Monday to Saturday (DST) inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the Secretary.

# **Blasting Frequency**

- 12. The Applicant may carry out a maximum of:
  - (a) 2 single blast events<sup>a</sup> a day; and
  - (b) 5 single blast events<sup>a</sup> a week, averaged over a 12 month period.

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, or to blast misfires or blasts required to ensure the safety of the mine, its workers or the general public.

Notes:

<sup>a</sup> A 'single blast event' means a blast which involves either a single detonation or a number of individual blasts fired in quick succession in a discrete area of the development. Should an additional blast be required after a blast misfire, this additional blast and the blast misfire are counted as a single blast event.

# **Operating Conditions**

- 13. During mining operations on site, the Applicant must implement best blasting practice to:
  - (a) protect the safety of people, property, public infrastructure, and livestock from blasting impacts in the areas surrounding blasting operations; and
  - (b) minimise the dust and fume emissions from blasting at the development,

to the satisfaction of the Secretary.

14. The Applicant must not undertake blasting within 500 metres of any privately-owned land or any land not owned by the Applicant, unless suitable arrangements have been made with the landowner and any tenants to minimise the risk of flyrock-related impact to the property to the satisfaction of the Secretary.

# **Road Closure**

15. Prior to blasting within 500 metres of any public road, the Applicant must prepare a Road Closure Management Plan for the development in consultation with Council and to the satisfaction of the Secretary.

The Applicant must implement the approved plan as approved from time to time by the Secretary.

# **Public Notice**

- 16. During mining operations on site, the Applicant must:
  - (a) notify the landowner/occupier of any residence within 2 kilometres of the mining area who registers an interest in being notified about the blasting schedule at the mine;
  - (b) operate a Blasting Hotline, or alternate system agreed to by the Secretary, to enable the public to get up-to-date information on the blasting schedule at the development;
  - (c) advertise the blasting hotline number in a local newspaper at least 4 times each year, and
  - (d) publish an up-to-date blasting schedule on its website,
  - to the satisfaction of the Secretary.

# **Property Inspections**

17. At least 6 months prior to blasting within 2 kilometres of any privately-owned land, the Applicant must advise applicable landowners that they are entitled to a structural property inspection.

If the Applicant receives a written request for a structural property inspection from the landowner, the Applicant must within 3 months of receiving this request and prior to blasting within 2 kilometres of the property:

- (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to inspect the condition of any building or structure on the land, and recommend measures to mitigate any potential blasting impacts; and
- (b) give the landowner a copy of the property inspection report.

# **Property Investigations**

- 18. If any landowner of privately-owned land within 2 kilometres of the mining area claims that buildings and/or structures on his/her land have been damaged as a result of blasting at the development, the Applicant must within 3 months of receiving this claim:
  - (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, 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 must repair the damages to the satisfaction of the Secretary.

If the Applicant or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Secretary for resolution.

# Blast Monitoring Program

19. The Applicant must prepare a Blast Monitoring Program for the development to the satisfaction of the Secretary. This program must:

(a) be prepared in consultation with the EPA;

- (b) be submitted to the Secretary for approval by the end of April 2008; and
- (c) include a protocol for evaluating blasting impacts on, and demonstrating compliance with the blasting criteria in this consent for:
  - privately-owned residences and structures;
  - St Clements Church;
  - Main Northern Railway; and
  - electricity transmission lines.

The Applicant must implement the approved program as approved from time to time by the Secretary.

# **AIR QUALITY**

#### **Impact Assessment Criteria**

20. The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria listed in Tables 8 and 9 at any residence on privately-owned land, except for the residences shown in Table 1 as being eligible for acquisition on request on the basis of air quality impacts.

| Pollutant  | Averaging period | <sup>d</sup> Criterion            |
|--|------------------|-----------------------------------|
| Total suspended particulate (TSP) matter         | Annual           | <sup>a</sup> 90 µg/m <sup>3</sup> |
| Particulate matter < 10 µm (PM <sub>10</sub> )   | Annual           | <sup>a</sup> 25 μg/m <sup>3</sup> |
| Particulate matter < 2.5 µm (PM <sub>2.5</sub> ) | Annual           | ² 8 µg/m³                         |

Table 8: Long term impact assessment criteria for particulate matter

Table 9: Short term impact assessment criterion for particulate matter

| Pollutant  | Averaging period | d Criterion                       |
|--|------------------|-----------------------------------|
| Particulate matter < 10 µm (PM <sub>10</sub> )   | 24 hour          | <sup>b</sup> 50 μg/m³             |
| Particulate matter < 2.5 µm (PM <sub>2.5</sub> ) | 24 hour          | <sup>b</sup> 25 μg/m <sup>3</sup> |

Table 10: (deleted)

Notes to Tables 8-9:

- a Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources).
- b Incremental impact (i.e. incremental increase in concentrations due to the development on its own).
- c (deleted).

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

#### 21. (deleted)

# **Operating Conditions**

- 22. The Applicant must:
  - (a) take all reasonable steps to:
    - (i) minimise odour, fume and particulate matter emissions of the development, paying particular attention to minimising wheel-generated haul road emissions;
    - (ii) eliminate or minimise the risk of spontaneous combustion;
    - (iii) minimise any visible off-site air pollution generated by the development; and

- (iv) minimise the extent of potential dust generating surfaces exposed on the site at any given point in time;
- (b) operate a comprehensive air quality management system that uses real-time air quality monitoring data to guide the day to day planning of mining operations and the implementation of both proactive and reactive air quality mitigation measures to ensure compliance with the relevant conditions of this consent;
- (c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see Note c to Tables 8 - 10 above);
- (d) use all reasonable efforts to co-ordinate air quality management on the site with the air quality management at nearby mines to minimise cumulative air quality impacts;
- (e) carry out regular air quality monitoring to determine whether the development is complying with the relevant conditions of this consent; and
- (f) regularly assess meteorological and air quality monitoring data, and modify operations on the site to ensure compliance with the relevant conditions of this consent.
- 23. Until approval of the Air Quality and Greenhouse Gas Management Plan required under condition 23A of this Schedule, the Applicant must continue to implement its approved Air Quality Monitoring Program (as previously required by condition 23 of this Schedule) and approved Greenhouse and Energy Efficiency Plan (as previously required by condition 51 of this Schedule).

# Air Quality and Greenhouse Gas Management Plan

- 23A. Within 3 months of approval of Modification 4 the Applicant must prepare an Air Quality and Greenhouse Gas Management Plan for the development to the satisfaction of the Secretary. This plan must:
  - (a) be prepared by a suitably qualified and experienced person/s;
  - (b) be prepared in consultation with the EPA;
  - (c) describe the measures to be implemented to ensure:
    - (i) compliance with the air quality criteria and operating conditions of this consent;
    - (ii) best practice management is being employed to:
      - minimise the development's air quality impacts;
      - minimise the development's Scope 1 and 2 greenhouse gas emissions; and
      - improve the development's energy efficiency;
    - (iii) the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events;
  - (d) include a program to monitor greenhouse gas emissions and energy use generated by the development;
  - (e) describe the air quality management system in detail; and
  - (f) include an air quality monitoring program, undertaken in accordance with the *Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales* (DEC, 2007), that:
    - (i) establishes a diesel combustion emissions baseline;
    - (ii) uses monitors to evaluate the performance of the development against the air quality criteria in this consent and to guide day to day planning of mining operations;
    - (iii) adequately supports the air quality management system; and
    - (iv) includes a protocol for identifying any air quality-related exceedance, incident or noncompliance and for notifying the Department and relevant stakeholders of these events.

The Applicant must implement the Air Quality and Greenhouse Gas Management Plan as approved by the Secretary.

Note: With the introduction of the EPA's Climate Change Policy and Climate Change Action Plan, the Applicant will be required to prepare and implement a Greenhouse Gas Mitigation Plan and a Climate Change Adaptation Plan in accordance with requirements provided by the EPA. On implementation, these plans could be referenced to meet the requirements of this condition in relation to greenhouse gas emissions.

#### **METEOROLOGICAL MONITORING**

24. During the life of the development, the Applicant must ensure that there is a suitable meteorological station in the vicinity of the site that complies with the requirements in the *Approved Methods for Sampling of Air Pollutants in New South Wales* guideline.

## SURFACE AND GROUND WATER

#### **Discharge Limits**

25. The Applicant must only discharge mine water from the site in accordance with the provisions of an EPL or the *Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002.* 

#### **Bettys Creek and Swamp Creek Diversions**

- 26. The Applicant must design, construct, maintain, and rehabilitate the proposed diversion of Bettys Creek and Swamp Creek, to the satisfaction of the Secretary.
- 27. Within one month of completing the construction of the Bettys Creek and Swamp Creek diversions, the Applicant must submit an as-executed report, certified by a practising registered engineer, to the Secretary and Water Group.
- 28. Prior to destroying the original creek lines, the Applicant must demonstrate that the Bettys Creek and Swamp Creek diversions are operating successfully, in consultation with Water Group, and to the satisfaction of the Secretary.

#### Site Water Management Plan

- 29. The Applicant must prepare a Site Water Management Plan for the development to the satisfaction of the Secretary. This plan must:
  - (a) be prepared in consultation with EPA and Water Group by suitably qualified expert/s whose appointment/s have been approved by the Secretary;
  - (b) be submitted to the Secretary for approval by the end of April 2008; and
  - (c) include:
    - a Bettys Creek and Swamp Creek Diversion Plan/s;
    - a Site Water Balance;
    - an Erosion and Sediment Control Plan;
    - a Surface Water Management and Monitoring Plan;
    - a Ground Water Monitoring Program; and
    - a Surface and Ground Water Response Plan.

# The Applicant must implement the approved plan as approved from time to time by the Secretary.

Note: The Department accepts that the initial Site Water Management Plan may not include the detailed plans for the proposed diversions of Bettys Creek and Swamp Creek. However, if this occurs, the Applicant will be required to seek approval from the Secretary for an alternative timetable for completion and approval of the diversion plan/s.

# Bettys Creek and Swamp Creek Diversion Plan/s

- 30. The Bettys Creek and Swamp Creek Diversion Plan/s must include:
  - (a) a vision statement for the creek relocation;
  - (b) an assessment of the water quality, ecological, hydrological and geomorphic baseline conditions in the creek;
  - (c) the detailed design specifications for the creek relocation;
  - (d) a construction program for the creek relocation, describing how the work would be staged, and integrated with mining operations;
  - (e) a revegetation program for the relocated creek using a range of suitable native species;
  - (f) water quality, ecological, hydrological and geomorphic performance and completion criteria for the creek relocation based on the assessment of baseline conditions; and
  - (g) a program to monitor and maintain the water quality, ecological, hydrological and geomorphic integrity of the creek relocation.

#### Site Water Balance

(a)

- 31. The Site Water Balance must:
  - include details of:
    - sources and security of water supply;
    - water use on site;
    - water management on site;
    - off-site water transfers; and
  - (b) investigate and describe measures to minimise water use by the development.

## **Erosion and Sediment Control**

- 32. The Erosion and Sediment Control Plan must:
  - (a) be consistent with the requirements of *Managing Urban Stormwater: Soils and Construction Volume 1 and Volume 2E Mines and Quarries*, or its latest version;
  - (b) identify activities that could cause soil erosion and generate sediment, including activities on waterfront land (within 40 metres of a watercourse);
  - (c) describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters;
  - (d) describe the location, function, and capacity of erosion and sediment control structures; and
  - (e) describe what measures would be implemented to maintain these structures over time.

#### Surface Water Monitoring

- 33. The Surface Water Management and Monitoring Plan must include:
  - (a) detailed baseline data on surface water flows and quality in creeks and other waterbodies that could potentially be affected by the development;
  - (b) surface water and stream health impact assessment criteria;
  - (c) a program to monitor surface water flows, quality and impacts on water users (upstream and downstream of the development in Bettys Creek, Swamp Creek and Bowmans Creek);
  - (d) a program to assess stream health conditions in Bettys Creek, Swamp Creek and Bowmans Creek;
  - (e) a program to monitor channel stability in Bettys Creek, Swamp Creek and Bowmans Creek; and
  - (f) reporting procedures for the results of the monitoring program.

# Groundwater Monitoring

(e)

- 34. The Groundwater Monitoring Program must include:
  - (a) detailed baseline data, based on sound statistical analysis, to benchmark the pre-mining natural variation in groundwater levels, yield and quality (including privately-owned groundwater bores within the predicted drawdown impact zone);
  - (b) groundwater impact assessment criteria (including for monitoring bores);
  - (c) a program for accurately delineating the boundary of the Bettys Creek and Swamp Creek alluvial aquifers in any areas intersected by mining;
  - (d) a program to monitor:
    - impacts on the groundwater supply of potentially affected landowners;
    - impacts on the Bettys Creek and Swamp Creek alluvial aquifers;
    - connectivity and groundwater leakage to/from Bettys Creek and Swamp Creek following diversion;
    - impacts on groundwater dependent ecosystems and riparian vegetation;
    - the volume of ground water seeping into the open cut mine workings;
    - regional ground water levels and quality in the alluvial, coal seam, and overburden/interburden aquifers; and
    - the groundwater pressure response in the surrounding coal measures;
      - procedures for the verification of the groundwater model; and
  - (f) reporting procedures for the results of the monitoring program and model verification.

# Surface and Ground Water Response Plan

35. The Surface and Ground Water Response Plan must include:

- (a) a protocol for the investigation, notification and mitigation of any exceedances of the surface water, stream health and groundwater impact assessment criteria;
- (b) measures to mitigate and/or compensate potentially affected landowners for the loss of surface water flows in Bettys Creek, Swamp Creek and Bowmans Creek downstream of the development;
- (c) measures to minimise, prevent or offset groundwater leakage from the Bettys Creek and Swamp Creek alluvial aquifers;
- (d) measures to mitigate any direct hydraulic connection between the backfilled open cuts and the Bettys Creek and Swamp Creek alluvium if the potential for adverse impacts is detected; and
- (e) the procedures that would be followed if any unforeseen impacts are detected during the development.

# **REHABILITATION AND LANDSCAPE**

# **Offset Strategy**

- 36. The Applicant must:
  - (a) implement the Offset Strategy described in the EA (Mod 2), EA (Mod 3) and summarised in Table 11 (shown conceptually in Appendix 5); and
  - (b) make suitable arrangements to provide appropriate long term security for the offset area by April 2011,

to the satisfaction of the Secretary.

Table 11: Offset Strategy

| Offset Area                          | Minimum Size |
|--------------------------------------|--------------|
| Bettys Creek Habitat Management Area | 174 ha       |

The Offset Strategy must contain specific measures to adequately offset the development's net impact on significant plant communities, including:

- Bulloak Forest;
- Swamp Oak Forest; and
- Box-Ironbark Woodland.

# **Biodiversity Credits Required**

36A. Within 6 months of the approval of Modification 4, or other timeframe agreed by the Secretary, the Applicant must retire the biodiversity credits specified in Table 12 below.

Table 12: Biodiversity credit requirements

| Credit Type   | Credits Required |
|---|------------------|
| Ecosystem Credits   |                  |
| PCT1692 Bull Oak grassy woodland of the central Hunter Valley - <i>Regeneration</i>                                       | 21               |
| PCT1691 Narrow-leaved Ironbark – Grey Box<br>grassy woodland of the central and upper Hunter-<br>Derived Native Grassland | 88               |

The retirement of the biodiversity credits specified in Table 12 must be carried out in accordance with the Biodiversity Offsets Scheme of the BC Act, to the satisfaction of the BCT.

# **Biodiversity and Offset Management Plan**

- 36.B. The Applicant must prepare a Biodiversity and Offset Management Plan for the development to the satisfaction of the Secretary. This plan must:
  - (a) be prepared in consultation with BCS, and submitted to the Secretary for approval within one year of the date of approval of MOD 5, unless the Secretary agrees otherwise;
  - (b) describe the measures that would be undertaken to:
    - manage the remnant vegetation and fauna habitat on the site, within the offset area (see Table 11) and New England Highway tree screen area;
    - implement the Biodiversity Offset Strategy;
    - implement the requirements listed in condition 36 above and conditions 1.11.3, 1.11.4 and 2.1.6 of the Statement of Commitments in Appendix 3 of this consent;
    - minimise the impacts of the development on threatened species, in particular those listed in condition 36 above, and where appropriate, enhance available habitat for and support the recovery of these species on the site;
    - implement revegetation and regeneration within the offset areas, including establishment of canopy, sub-canopy (if relevant), understorey and ground strata;
    - protect areas outside the disturbance areas;
    - undertake pre-clearance surveys;
    - manage impacts on fauna;
    - collect and propagate seed for rehabilitation works;
    - salvage and reuse material from the site for habitat enhancement;
    - control weeds and feral pests;
    - control access;

- manage bushfire risks; and
- manage any potential conflicts between the offset strategy and Aboriginal cultural heritage;
- (c) be consistent with the biodiversity management practices employed at the Mt Owen Complex, where relevant;
- (d) include detailed performance and completion criteria for evaluating the performance of the Biodiversity Offset Strategy and the New England Highway tree screens and include a monitoring program and triggers for remedial action, where these performance or completion criteria are not met; and
- (e) include details of who would be responsible for monitoring, reviewing, and implementing the plan.
- 36.C The Applicant must implement the Biodiversity and Offset Management Plan as approved by the Secretary.

# Rehabilitation

37. The Applicant must rehabilitate the site in accordance with the conditions imposed on the mining lease(s) associated with the development under the *Mining Act 1992*. The rehabilitation must be generally consistent with the proposed rehabilitation strategy and final landform set out in the EA (Mod 2), as modified by SEE (Mod 4) (shown conceptually in Appendix 6).

The final landform must provide for at least 250 hectares of treed vegetation, in a manner generally consistent with that shown conceptually in Appendix 6.

37A. The Applicant must rehabilitate the site progressively 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 stabilisation and temporary vegetation strategies must be employed when areas prone to dust generation cannot be permanently rehabilitated.

Note: This condition does not prevent further disturbance at some later stage of the development of areas that have been rehabilitated.

## **Pre-Clearance Survey**

37B. Prior to commencing any surface disturbance related to construction or maintenance of the realigned transmission line, including for service roads, the Applicant must ensure that a pre-clearance threatened species survey is undertaken by a suitably qualified expert.

If any additional threatened species, which may be adversely affected by the realigned transmission line, are identified during the pre-clearance survey, the Applicant must not undertake any associated surface disturbance until suitable offsets have been provided in accordance with the Office of Environment and Heritage *NSW Biodiversity Offsets Policy for Major Projects* (2016), to the satisfaction of the Secretary.

# **Revegetation & Compensatory Planting**

37C. The Applicant must:

(a)

- plant and maintain, until established, 10 River Oak trees for every established River Oak tree that is removed or severely damaged during construction and maintenance of the realigned transmission line;
- (b) erect 2 nesting boxes for every identified tree hollow that is removed or severely damaged during the construction and maintenance of the realigned transmission line; and
- (c) replant or naturally regenerate, with a suitable mix of canopy, mid-storey and groundcover species, any temporarily cleared vegetation for the realigned transmission line that is classified as either Swamp Oak Forest or River Oak Forest,

to the satisfaction of the Secretary.

## Notes:

- For the purposes of this condition an 'established River Oak tree' is two metres or greater in height.
- For the purposes of this condition a 'severely damaged tree' is one that is lopped to the extent that half or more of the crown biomass is lost.

#### Rehabilitation Management Plan

37D. The Applicant must prepare a Rehabilitation Management Plan for the development in accordance with the conditions imposed on the mining lease(s) associated with the development under the provisions of the *Mining Act 1992*.

# **Rehabilitation Strategy**

- 37E. The Applicant must prepare a Rehabilitation Strategy for all the land disturbed by the development to the satisfaction of the Secretary. This strategy must:
  - (a) be prepared by a suitably qualified and experienced person/s whose appointments have been approved by the Secretary;
  - (b) be prepared in consultation with the Resources Regulator, BCS, the Water Group, Council and the CCC;
  - (c) be submitted to the Secretary for approval within one year of the date of approval of MOD 5, unless otherwise agreed by the Secretary;
  - (d) be consistent with the rehabilitation practices employed at the Mt Owen Complex, where relevant;
  - (e) describe the overall rehabilitation objectives for the site, and address all aspects of rehabilitation including mine closure, final landform, final void outcomes, post-mining land use/s and water management;
  - (f) describe the measures that would be implemented to:
    - reduce the visual impacts of the development;
    - rehabilitate creeks and drainage lines on the site, to ensure no net loss of stream length and aquatic habitat; and
    - conserve and reuse topsoil;
  - (g) describe the riparian revegetation and maintenance works associated with EA (Mod 3), that has been prepared generally in accordance with the Water Group's *Guidelines for Controlled Activities on Waterfront Land*;
  - (h) align with strategic rehabilitation and mine closure objectives and address the principles of the Strategic Framework for Mine Closure (ANZMEC and MCA, 2000);
  - describe how the rehabilitation of the site and implementation of the Offset Strategy will be integrated with the rehabilitation and offset strategies of the Mt Owen, Ravensworth East and Ashton mines to ensure there is a comprehensive strategic framework for the restoration and enhancement of the landscape over time;
  - (j) investigate opportunities to refine and improve the final landform over time, including the configuration of the waste rock emplacement areas;
  - (k) include a stakeholder engagement plan to guide rehabilitation and mine closure planning processes and outcomes;
  - (I) include details of who is responsible for monitoring, reviewing, and implementing the strategy;
  - (m) include a program to periodically review and update this strategy.

# **Final Void specific requirements**

- (n) justify the final location and future use of the final void;
- (o) incorporate design criteria and specifications for the final void based on verified groundwater modelling predictions and a re-assessment of post-mining groundwater equilibration;
- (p) assess the potential interactions between creeks on the site and the final void;
- (q) describe what actions and measures would be implemented to:
  - minimise any potential adverse impacts associated with the final void; and
  - manage and monitor the potential impacts of the final void;

#### Mine Closure specific requirements

- (r) investigate options for the future use of the site, including the final void;
- (s) investigate ways to minimise the adverse socio-economic effects associated with mine closure, including reduction in local employment levels; and
- (t) describe the measures that would be implemented to minimise or manage the ongoing environmental effects of the development, including how these measures would be monitored over time.
- 37F. The Applicant must implement the Rehabilitation Strategy approved by the Secretary.

## New England Highway Tree Screens

38. By the end of October 2008, the Applicant must plant additional trees along the New England Highway corridor to provide a tree screen for the development. These trees must be planted in consultation with Council and the relevant landowners, and then subsequently maintained to the satisfaction of the Secretary.

Note: (Deleted)

#### Landscape Management Plan

39. (Deleted).

#### **Rehabilitation and Offset Management Plan**

40. (Deleted).

# **Final Void Management**

41. (Deleted).

#### Mine Closure Plan

42. (Deleted).

#### **Conservation and Biodiversity Bond**

- 43. Within 3 months of the approval of the Landscape Management Plan as previously required under condition 39 of this consent, the Applicant must lodge a conservation and biodiversity bond with the Department to ensure that the Offset Strategy is implemented in accordance with the performance and completion criteria of the Biodiversity and Offset Management Plan. The sum of the bond must be determined by:
  - (a) calculating the full cost of implementing the Offset Strategy (Bettys Creek Habitat Management Area); and
  - (b) employing a suitably qualified rehabilitation expert or quantity surveyor to verify the calculated costs,

to the satisfaction of the Secretary.

The calculation of the conservation and biodiversity bond must be submitted to the Department for approval at least 1 month prior to the lodgement of the bond.

The conservation and biodiversity bond must be reviewed and, if required, an updated bond must be lodged with the Department within 3 months of any of the following:

- (a) an approved revision of the Biodiversity and Offset Management Plan;
- (b) the completion of an Independent Environmental Audit in which recommendations relating to
  - the implementation of the Biodiversity and Offset Management Plan have been made; or
- (c) in response to a request by the Secretary.

Notes:

- If the Offset Strategy is completed generally in accordance with the performance and completion criteria of the Biodiversity and Offset Management Plan to the satisfaction of the Secretary, the Department will release the conservation and biodiversity bond.
- If the Offset Strategy is not completed generally in accordance with the performance and completion criteria of the Biodiversity and Offset Management Plan to the satisfaction of the Secretary, all or part of the conservation and biodiversity bond will be used to ensure the satisfactory completion of the relevant works.
- Conditions relevant to the performance and completion criteria in the Landscape Management Plan have been transferred into the Biodiversity and Offset Management Plan under condition 36B and condition 36C of this consent.

# ABORIGINAL CULTURAL HERITAGE

# Aboriginal Cultural Heritage Management Plan

- 44. The Applicant must prepare an Aboriginal Cultural Heritage Management Plan to the satisfaction of the Secretary. This plan must:
  - (a) be prepared in consultation with BCS and the Registered Aboriginal Parties;
  - (b) be submitted to the Secretary for approval prior to the disturbance of any Aboriginal object or site; and
  - (c) include a:
    - management plan for all Aboriginal sites and potential archaeologically sensitive areas within the development disturbance area;
    - detailed description of the measures that would be implemented to protect Aboriginal sites and potential archaeologically sensitive areas outside the development disturbance area;
    - description of the measures that would be implemented if any new Aboriginal objects or skeletal remains are discovered during the development; and

• protocol for the ongoing consultation and involvement of the Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the site.

The Applicant must implement the approved plan as approved from time to time by the Secretary.

# HERITAGE

45. The Applicant must prepare an archival record of the heritage items listed in the table in Appendix 7, prior to any activity associated with the development that may disturb these sites, in consultation with, and in accordance with the requirements of, the Heritage Branch, and to the satisfaction of the Secretary.

# TRANSPORT

# **Monitoring of Coal Transport**

46. The Applicant must keep records of the amount of coal transported from the site each year, and include these records in the Annual Review.

#### **Traffic Management**

- 47. The Applicant must construct the Hebden Road/Site Access Road intersection to the satisfaction of Council, by the end of September 2008.
- 48. The Applicant must prepare (and subsequently implement) a construction traffic management plan for the development, to the satisfaction of Council, prior to re-commencing construction activities that require access from Hebden Road to the site.
- 49. The Applicant must review, and if necessary upgrade the New England Highway/Hebden Road intersection to provide:
  - (a) street lighting in accordance with the relevant Australian Standards; and
  - (b) road shoulders that comply with the TfNSW's Road Design Guide,
  - to the satisfaction of the TfNSW, by the end of December 2008.

# VISUAL

- 50. The Applicant must:
  - (a) ensure that all external lighting associated with the development complies with Australian Standard AS4282 (INT) 1997 – Control of Obtrusive Effects of Outdoor Lighting, or its latest version;
  - (b) take all practicable measures to mitigate off-site lighting impacts from the development; and
     (c) minimise the visual impacts of the development,
  - to the satisfaction of the Secretary.

# 51. (Deleted).

#### WASTE

- 52. The Applicant must:
  - (a) monitor the amount of waste generated by the development;
  - (b) investigate ways to minimise waste generated by the development;
  - (c) implement reasonable and feasible measures to minimise waste generated by the
  - development;
  - (d) ensure irrigation of treated wastewater is undertaken in accordance with EPA's *Environmental Guideline for the Utilisation of Treated Effluent*, and
  - (e) report on waste management and minimisation in the Annual Review,
  - to the satisfaction of the Secretary.

#### SCHEDULE 4 ADDITIONAL PROCEDURES

#### NOTIFICATION OF LANDOWNERS

- 1. By the end of April 2008, the Applicant must notify the landowners of the land listed in Table 1 in writing that they have the right to require the Applicant to acquire their land at any stage during the development.
- 2. If the results of monitoring required in schedule 3 identify that impacts generated by the development are greater than the impact assessment criteria in schedule 3, except where this is predicted in the EA (Mod 2), and except where a negotiated agreement has been entered into in relation to that impact, then the Applicant must notify the Secretary and the affected landowners and/or existing or future tenants (including tenants of mine owned properties) accordingly, and provide quarterly monitoring results to each of these parties until the results show that the development is complying with the criteria in schedule 3.
- 3. The Applicant must develop a brochure to advise landowners and/or existing or future tenants (including tenants of mine owned properties) of the possible health and amenity impacts associated with exposure to particulate matter, to the satisfaction of the Secretary. The brochure must be prepared in consultation with NSW Health, and be submitted to the Secretary within 6 months of the date of this consent.

The Applicant must review relevant human health studies and update this brochure every 3 years, to the satisfaction of the Secretary.

The Applicant must provide this brochure (and associated updates) to all landowners and/or existing or future tenants (including tenants of mine owned properties) of properties where:

- (a) the predictions in the EA (Mod 2) identify that the dust emissions generated by the development are likely to be greater than the air quality land acquisition criteria in condition 20 of schedule 3; and
- (b) monitoring results identify that the mine is exceeding the air quality land acquisition criteria in condition 20 of schedule 3.

# INDEPENDENT REVIEW

4. If a landowner considers the development to be exceeding the impact assessment 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, the Applicant must within 2 months of the Secretary's decision:

- (a) consult with the landowner to determine his/her concerns;
- (b) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to conduct monitoring on the land, to:
  - determine whether the development is complying with the relevant impact assessment criteria in schedule 3; and
  - identify the source(s) and scale of any impact on the land, and the development's contribution to this impact; and
- (c) give the Secretary and landowner a copy of the independent review.
- 5. If the independent review determines that the development is complying with the relevant impact assessment criteria in schedule 3, then the Applicant may discontinue the independent review with the approval of the Secretary.
- 6. If the independent review determines that the development is not complying with the relevant impact assessment criteria in schedule 3, and that the development is primarily responsible for this non-compliance, then the Applicant must:
  - (a) take all reasonable and feasible measures, in consultation with the landowner, to ensure that the development complies with the relevant criteria; and
  - (b) conduct further monitoring to determine whether these measures ensure compliance.

If the additional monitoring referred to above subsequently determines that the development is complying with the relevant criteria in schedule 3, or the Applicant and landowner enter into a negotiated agreement to allow these exceedances, then the Applicant may discontinue the independent review with the approval of the Secretary.

- 7. If the independent review determines that the relevant criteria in schedule 3 are being exceeded, but that more than one mine is responsible for this non-compliance, then the Applicant must, together with the relevant mine/s:
  - (a) take all reasonable and feasible measures, in consultation with the landowner, to ensure that the relevant criteria are complied with; and
  - (b) conduct further monitoring to determine whether these measures ensure compliance; or
  - (c) secure a written agreement with the landowner and other relevant mines to allow exceedances of the criteria in schedule 3,

to the satisfaction of the Secretary.

If the additional monitoring referred to above subsequently determines that the developments are complying with the relevant criteria in schedule 3, then the Applicant may discontinue the independent review with the approval of the Secretary.

8. If the landowner disputes the results of the independent review, either the Applicant or the landowner may refer the matter to the Secretary for resolution.

# LAND ACQUISITION

- 9. Within 3 months of receiving a written request from a landowner with acquisition rights, the Applicant must make a binding written offer to the landowner based on:
  - (a) the current market value of the landowner's interest in the property at the date of this written request, as if the property was unaffected by the development the subject of the development application, 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 property 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 mitigation measures' in condition 6 of schedule 3;
  - (b) the reasonable costs associated with:
    - relocating within the Singleton local government area, or to any other local government area determined by the Secretary;
    - obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is required; 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 shall request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer or Fellow of the Institute, to consider submissions from both parties, and determine a fair and reasonable acquisition price for the land, and/or terms upon which the land is to be acquired.

Within 14 days of receiving the independent valuer's determination, the Applicant must make a written offer to purchase the land at a price not less than the independent valuer's determination.

If the landowner refuses to accept this offer within 6 months of the date of the Applicant's offer, the Applicant's obligations to acquire the land shall cease, unless otherwise agreed by the Secretary.

- 10. The Applicant must bear the reasonable costs of any valuation or survey assessment requested by the independent valuer, or the Secretary, and the costs of determination referred above.
- 11. If the Applicant and landowner agree that only part of the land shall be acquired, then the Applicant must pay all reasonable costs associated with obtaining Council consent for any plan of subdivision (where permissible), and registration of the plan at the Office of the Registrar-General.

# SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

#### ENVIRONMENTAL MANAGEMENT

#### Adaptive Management

1. The Applicant must 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.

#### **Environmental Management Strategy**

- 2. If the Secretary requires, the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must:
  - (a) be submitted to the Secretary for approval prior to the commencement of development under this consent, unless the Secretary agrees otherwise;
  - (b) provide the strategic framework for the environmental management of the development;
  - (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 and any incident;
    - respond to emergencies; and
  - (f) include:
    - references to 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.

The Applicant must implement the approved strategy as approved from time to time by the Secretary.

# Management Plan Requirements

- 3. The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:
  - (a) a summary of relevant background or 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.

4. (Deleted).

# **Annual Review**

- 5. By the end of March each year, or as otherwise agreed with the Secretary, the Applicant must submit a report to the Department reviewing 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 previous calendar year, and the development that is proposed to be carried out over the current calendar year;
  - (b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against the:
    - relevant statutory requirements, limits or performance measures/criteria;
    - monitoring results of previous years; and
    - relevant predictions in the documents listed in condition 2(a) of Schedule 2;
  - (c) identify any non-compliance over the past year, and describe what actions were (or are being) taken to rectify the non-compliance and avoid reoccurrence;
  - (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 next year to improve the environmental performance of the development.

# **Revision of Strategies, Plans and Programs**

- 6. Within 3 months of:
  - (a) the submission of an Annual Review under condition 5 above;
  - (b) the submission of an incident report under condition 9 below;
  - (c) the submission of an audit under condition 11 below; or
  - (d) any modification to the conditions of this consent (unless the conditions require otherwise);

the Applicant must review 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 the revised document must be submitted for the approval of the Secretary.

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.

# 7. (Deleted).

8.

# **Community Consultative Community**

The Applicant must operate a CCC for the development to the satisfaction of the Secretary. This CCC must be operated in general accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (Department of Planning, 2007 or its latest version or replacement).

#### 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.
- The CCC may be combined with similar committees established for the adjoining Mt Owen, Ravensworth East and Integra Underground mines.

# **Incident Notification**

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

# Non-Compliance Notification

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

Note: A non-compliance which has been notified as an incident does not need to also be notified as a noncompliance.

# INDEPENDENT ENVIRONMENTAL AUDIT

- 11. By the end of December 2010, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:
  - (a) be led by a suitably qualified, experienced and independent auditor whose appointment has been endorsed by the Secretary;
  - (b) be conducted by a suitably qualified, experienced, and independent team of experts (including any expert in field/s specified by the Secretary) whose appointment has been endorsed by the Secretary;
  - (c) include consultation with the relevant agencies and the CCC;
  - (d) 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 or necessary water licences (including any assessment, plan or program required under these approvals);
  - (e) review the adequacy of strategies, plans or programs required under the abovementioned approvals (including whether the development has met or is trended towards the progressive performance and completion criteria detailed in these strategies, plans or programs);
  - (f) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any strategy, plan or program required under these approvals; and
  - (g) be conducted and reported to the satisfaction of the Secretary.
- 12. Within 12 weeks of commissioning of this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary and any other NSW Government agency that request it, together with its response to any recommendations contained in the audit report and a timetable for the implementation of these recommendations, as required. The Applicant must implement the audit report recommendations, to the satisfaction of the Secretary.

# **ACCESS TO INFORMATION**

13. The Applicant must:

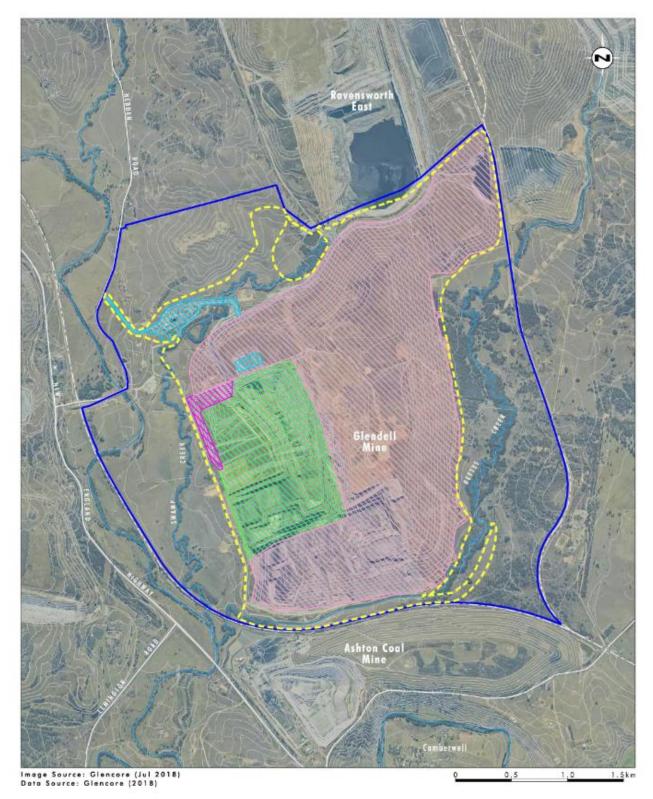
- (a) make copies of the following publicly available on its website:
  - the documents listed in condition 2(a) of Schedule 2;
  - current statutory approvals for the development;
  - approved strategies, plans or programs required under the conditions of this consent;
  - a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications of any conditions of this consent, or any approved plans or programs;
  - a complaints register, which is to be updated monthly;
  - minutes of CCC meetings;
  - the Annual Reviews of the development (for the last five years);
  - any independent environmental audit of the development, and the Applicant's response to the recommendations in any audit; and
  - any other matter required by the Secretary; and
- (b) keep this information up to date,

to the satisfaction of the Secretary.

| Parcels within Glendell Mine Site                      |         |         |        |  |
|--|---------|---------|--------|--|
| Lot  | DP      | Parish  | County |  |
| 2  | 6842    | Vane    | Durham |  |
| 2A   | 6842    | Vane    | Durham |  |
| 11   | 592404  | Liddell | Durham |  |
| A  | 380246  | Liddell | Durham |  |
| 71   | 625171  | Vane    | Durham |  |
| 58   | 752499  | Vane    | Durham |  |
| 1  | 865784  | Vane    | Durham |  |
| Pt Lot 6   | 859544  | Vane    | Durham |  |
| 8  | 6830    | Vane    | Durham |  |
| 1  | 940619  | Vane    | Durham |  |
| 2  | 859544  | Vane    | Durham |  |
| 5  | 859544  | Vane    | Durham |  |
| 3  | 859544  | Vane    | Durham |  |
| 2  | 865784  | Vane    | Durham |  |
| 5  | 1077004 | Vane    | Durham |  |
| 6  | 1077004 | Vane    | Durham |  |
| 7  | 1077004 | Vane    | Durham |  |
| 3  | 662944  | Vane    | Durham |  |
| Hebden Road Reserve                                    |         | Vane    | Durham |  |
| Various Crown Road Reserves                            |         | Vane    | Durham |  |
| Ravensworth East Crushing Station and Conveyor Parcels |         |         |        |  |
| 9  | 6842    | Liddell | Durham |  |
| 352  | 867083  | Liddell | Durham |  |
| 25   | 841160  | Liddell | Durham |  |
| 22   | 841165  | Liddell | Durham |  |
| 180  | 858299  | Liddell | Durham |  |
| 1  | 135026  | Liddell | Durham |  |

# APPENDIX 1: SCHEDULE OF LAND

# **CONSOLIDATED CONSENT**



# APPENDIX 2: DEVELOPMENT LAYOUT PLAN

# Legend

Glendell Mine DA Boundary (DA 80/952) Proposed Mining Area Proposed Disturbance Area Approved Mining Area Approved Overburden Emplacement Area Approved Infrastructure Area

**Conceptual Development Layout** 

# APPENDIX 3: STATEMENT OF COMMITMENTS

# Production and Life of Operation

## 1.1.1 *(Deleted).*

## **Coal Processing and Transportation**

- 1.2.1 All coal produced by the proposed Glendell operations will be transported by haul road to the Mt Owen Complex for processing in the Mt Owen Coal Handling and Preparation Plant (CHPP) or the Ravensworth East Mine crushing station.
- 1.2.2 Product coal from Glendell Mine will be transported:
  - by rail via the approved Mt Owen rail load out facilities, Mt Owen rail loop and Main Northern Railway; and
  - up to 1 Mtpa will be transported to domestic power stations via the approved Ravensworth East mine infrastructure.

# **Rejects and Tailings Management**

1.3.1 All rejects and tailings produced from the processing of coal produced by the proposed Glendell Mine operations will be incorporated into the Mt Owen Complex life of mine rejects and tailings management strategy.

#### Air Quality

#### Air Quality Controls

- 1.4.1 The Applicant will minimise areas disturbed by mining activities and undertake prompt rehabilitation of disturbed areas following completion of mining.
- 1.4.2 The Applicant will undertake watering road surfaces, including haul roads, and hardstand areas using water carts, where required.
- 1.4.3 The Applicant will continue monitoring of meteorological conditions and consideration of weather data in the timing of blasts to minimise the impacts of blast generated dust, particularly on residents to the south and south-east of the project.
- 1.4.4 Ongoing use of an alarm generated for elevated dust levels from the Mt Owen Complex continuous PM<sub>10</sub> monitoring network and notification of operational personnel to review the ability to restrict dumping where practical on exposed faces during periods of high wind.
- 1.4.5 Expansion of the existing dust monitoring network for the Mt Owen Complex to include additional continuous PM<sub>10</sub> monitoring sites within the Camberwell Village area.
- 1.4.6 Provision of in-pit dumping locations for periods of high wind, where practicable.
- 1.4.7 Restricting vehicle movements to formed and watered roads, particularly during periods of potentially high dust generation.
- 1.4.8 Use of adequate stemming in blast holes.

#### **Greenhouse and Energy Management**

- 1.5.1 The Applicant will assess the viability of the following approaches to improving energy efficiency and reducing greenhouse emissions from the proposed Glendell operations:
  - use of energy management systems; and
  - seeking continuous improvement in energy efficiency in the mining fleet, stationary equipment, mining processes and coal preparation.

The Applicant will continue to assess and implement energy and greenhouse management initiatives during the project design, operation and decommissioning.

#### Noise

# **Noise Mitigation Measures**

The following noise control measures will be employed throughout the life of the project unless otherwise agreed in writing by the Department.

- 1.6.1 A progressive equipment replacement program that seeks to incorporate best practice noise attenuation on mining equipment.
- 1.6.2 Ongoing use of an alarm generated for elevated noise levels from the Mt Owen Complex continuous noise monitoring network and notification of operational personnel to review the ability to modify operations where practical during periods of adverse weather conditions.
- 1.6.3 Design of the out of pit dumping sequence to allow for mining equipment to dump in higher exposed areas in the day time and within protected lower areas during night time periods, where practicable during adverse weather conditions.
- 1.6.4 The use of a continuous noise monitoring system to assist with managing operational noise performance and determine further noise controls, as necessary.
- 1.6.5 The Applicant will amend the Mt Owen Complex Noise Management and Monitoring Plans and Protocols to include provisions for the management and monitoring of noise emissions from proposed Glendell operations.
- 1.6.6 The Applicant will investigate reported exceedances of relevant project specific noise criteria at private residences on a case by case basis. This includes the monitoring of noise emissions at a particular receiver for comparison with the predicted cumulative noise exceedance probabilities outlined in the noise impact assessment. This approach is consistent with the existing noise management and monitoring processes at the Mt Owen Complex.
- 1.6.7 Where it is established that the relevant project specific noise criteria have been exceeded by activities from Glendell, the Applicant will investigate additional noise mitigation strategies in consultation with the landholder.

# **Noise Monitoring**

- 1.7.1 The Applicant will continue to implement the noise monitoring network currently in place for the Mt Owen Complex. The Applicant will continue with the ongoing operation of three continuous noise monitors within the Glennies Creek and Middle Falbrook areas.
- 1.7.2 The Applicant proposes to install a further two continuous noise monitors, one reference monitor located between Glendell Mine and Ashton Mine and one within the Camberwell Village area.

# **Blast and Vibration**

# **Blasting in Proximity to Infrastructure**

- 1.8.1 The Applicant will undertake further consultation with ARTC, including entering into an agreement to cover blasting practices in proximity to the Main Northern Railway, prior to mining being undertaken within 500 metres of the Main Northern Railway.
- 1.8.2 The Applicant will undertake further consultation with Ausgrid prior to undertaking detailed design of blasts in proximity to the 132 kV transmission line within the Glendell Mine site.
- 1.8.3 The Applicant will undertake further consultation with surrounding mining companies to seek to establish blasting protocols which minimise potential cumulative impacts of blasting practices.

# **Blast Controls**

Other blast controls will include:

- 1.9.1 designing and undertaking blasts to ensure that vibration and airblast limits are met, including consideration of wind speed and direction prior to blasting to minimise impacts on neighbours;
- 1.9.2 design blasts so that predicted vibration levels at the Camberwell Church are less than 2 mm/s;

- 1.9.3 detailed monitoring of blasts over the life of the mine to inform the detailed design of blasts and modification of blast designs as necessary;
- 1.9.4 training all relevant personnel on environmental obligations in relation to blasting controls;
- 1.9.5 monitoring blasts at the nearest non mine-owned residence and Camberwell Church to verify whether vibration and airblast limits are met;
- 1.9.6 documentation of the date, location of blast holes and quantity of explosive used each day; and
- 1.9.7 periodic review of blast management procedures to evaluate performance and identify corrective action, if required.

#### Water Management

The Applicant has committed to the implementation of the following in relation to the management of water resources.

- 1.10.1 Design surface water controls to ensure that clean runoff is separated from runoff within disturbed mining and infrastructure areas. Design sediment and erosion controls to ensure any runoff from disturbed areas is appropriately treated.
- 1.10.2 The proposed diversions of Swamp and Bettys Creeks will be designed and constructed in accordance with the conceptual designs developed in the water resources assessment.
- 1.10.3 The Applicant will install cut off embankments along Bettys Creek to restrict alluvium inflows into the proposed pit area in accordance with the conceptual design developed in the water resources assessment.
- 1.10.4 The Applicant will prepare a Groundwater Management Plan to detail the monitoring and management commitments relating to the Swamp Creek alluvial system, prior to mining occurring within this alluvial area.
- 1.10.5 The Applicant will continue the groundwater monitoring at the existing groundwater monitoring locations within the alluvium of Swamp and Bettys Creeks, aside from monitoring location NPz14 which will be impacted by the proposed Glendell operations.
- 1.10.6 If groundwater monitoring indicates it is required, a barrier cut off wall within the alluvium associated with Swamp Creek will be constructed to limit groundwater seepage into the mine.
- 1.10.7 The Applicant will extend its existing surface water monitoring program to include surface water monitoring to be undertaken at Glendell, as follows:
  - two additional surface water monitoring locations on Bowmans Creek upstream and downstream of the confluence with Swamp and Bettys Creeks;
  - two additional sites on Swamp Creek upstream and downstream of the proposed open cut pit; and
  - two additional sites on Bettys Creek upstream and downstream of the open cut pit.

# Flora and Fauna Management and Site Rehabilitation

- 1.11.1 The Applicant will implement a Rehabilitation Strategy that aims to create a stable final landform that is dominated by pastures with a minimum of 30 per cent native tree lots and corridors for the purpose of stock shade and shelter, and habitat restoration.
- 1.11.2 (Deleted).
- 1.11.3 The Applicant will establish a Habitat Management Area in the south-eastern extent of Glendell Mine site. Existing vegetation within the Habitat Management Area will be augmented through protection, regeneration and revegetation practices. Specific vegetation augmentation techniques will be outlined in a Biodiversity and Offset Management Plan developed for the Glendell Mine site.
- 1.11.4 The Applicant will develop and implement a Biodiversity and Offset Management Plan for Glendell Mine specifying ecological management and monitoring measures consistent with the principles of the Mt Owen Complex Flora and Fauna Management Plan, where relevant.
- 1.11.5 (Deleted).

# Heritage

# Aboriginal Cultural Heritage Management Plan

- 1.12.1 Within 12 months of granting of the modified consent, the Applicant will complete (and following approval implement) an Aboriginal Cultural Heritage Management Plan (ACHMP), in consultation with BCS and relevant Aboriginal stakeholders, and will incorporate the relevant outcomes of this approval. The plan will include provisions for the conservation of the seven remaining registered Aboriginal sites within the Glendell Mine site and for the management of the Bettys, Swamp and Bowmans Creek areas that fall outside the Proposed Disturbance Area which despite being salvaged, still retain Aboriginal and archaeological values that require protection. Specific initiatives under the plan will include implementation of a Management and at least three representatives of the Aboriginal stakeholder groups. The Management Committee will also have access to a qualified Archaeologist to assist with issues as required. The Management Committee will have the responsibility of strategic overview and input during the implementation of the following:
  - the formulation of an Aboriginal cultural heritage awareness training package to be incorporated into the mine and contractor induction process;
  - fencing of remaining sites and sensitive areas outside the Proposed Disturbance Area to
    protect them from further disturbance. The fencing will be undertaken in accordance with the
    specific requirements outlined in the ACHMP;
  - annual monitoring of the remaining sites and sensitive areas remaining within the Glendell Mine site by representatives of the Management Committee to monitor ongoing protection; and
  - developing management procedures for control of:
    - feral animals, livestock and noxious and pest weeds;
      - erosion;
      - bushfire hazard; and
      - any other environmental management strategies or procedures which have the potential to
        affect the *in situ* management of sites or sensitive areas outlined in the ACHMP.

#### **Historical Heritage**

- 1.13.1 The Applicant will commission archival recording of sites identified within the Glendell Mine site by a qualified heritage consultant to Heritage Branch's standards of local significance prior to the commencement of mining.
- 1.13.2 Install fencing to protect remaining sites (Items 4a to 4d and Item 5) to manage these sites in situ.
- 1.13.3 The Applicant will submit an application for exemption to the *Heritage Act* 1977 to the Heritage Branch for relevant items within the Glendell Mine site prior to mining commencing.

# Traffic and Transport

- 1.14.1 The Applicant will review the adequacy of street lighting at the intersection of the New England Highway and Hebden Road in consultation with the TfNSW.
- 1.14.2 The intersection of Hebden Road and the proposed mine access road will be relocated approximately 800 metres north along Hebden Road from the approved mine access road to provide improved sight distances and will be a Type B rural layout in accordance with Austroads guidelines.
- 1.14.3 The Applicant will obtain a Section 138 approval under the *Roads Act 1993*, from Singleton Council, prior to the conduct of these works on Hebden Road.

# **Visual Controls**

#### **Vegetative Screenings**

1.15.1 Screening plantings in strategically located positions to limit views into the Glendell mining area from the New England Highway will be maintained.

# **Rehabilitation and Final Landform**

1.16.1 Shaping, stabilisation and rehabilitation of the out of pit overburden emplacement area will be undertaken as soon as practicable as part of progressive mining to minimise the impact of the proposed Glendell operations on the visual amenity of the surrounding area.

# **Operational Controls**

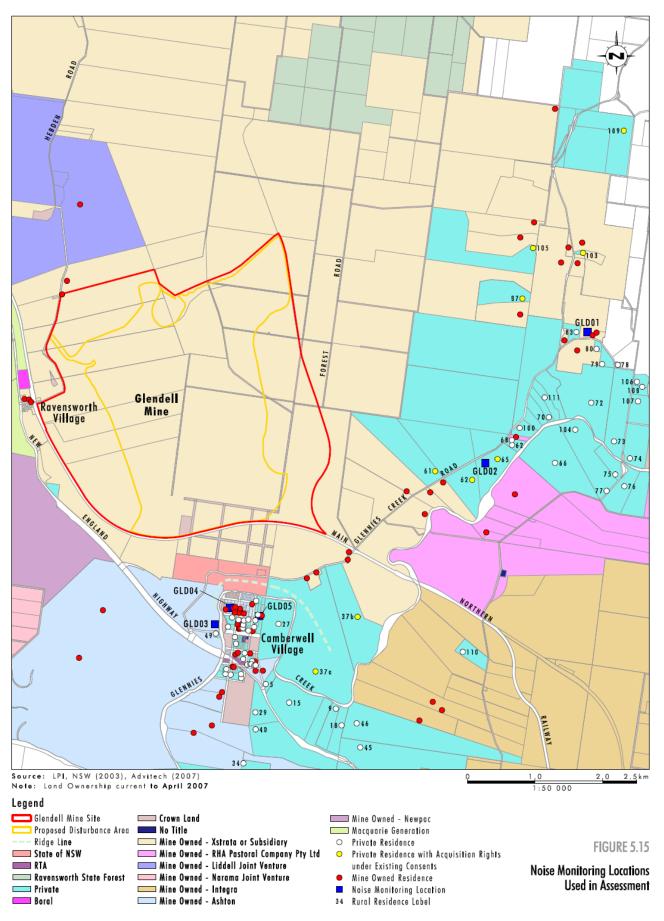
- 1.17.1 Ensure that all external lighting associated with the project complies with Australian Standard AS4282 (INT) 1995 Control of Obtrusive Effects of Outdoor Lighting; and
- 1.17.2 The Applicant will aim to minimise night lighting impacts on surrounding land owners by ensuring, where practicable, that lighting plants are positioned such that light is directed towards work areas and not towards private residences.

## General Environmental Management, Monitoring, Auditing and Reporting

- 1.18.1 Environmental management of Glendell Mine will be integrated into an updated Mt Owen Complex environmental management strategy and environmental monitoring program.
- 1.18.2 The Applicant will employ a suitably qualified environmental officer with the responsibility of coordinating environmental management practices of the modified Glendell operations.

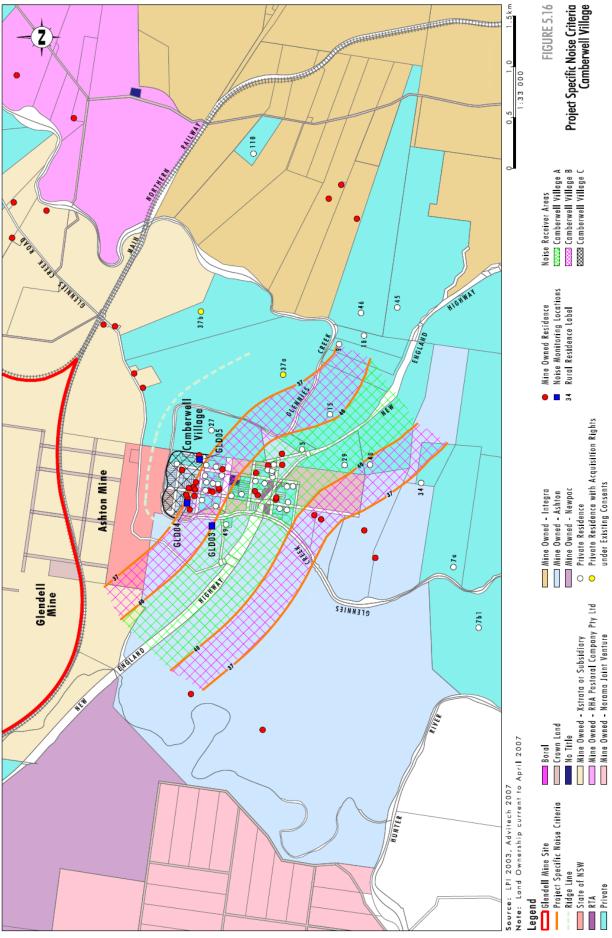
#### **Additional Commitments following Modification 3**

- 2.1.1 The Applicant will undertake a threatened species survey by a relevantly qualified person prior to any disturbance construction works commencing.
- 2.1.2 Field identification of the *Acacia pendula* and *Eucalyptus camaldulensis* adjacent to the southern existing track will be undertaken by an appropriately qualified person prior to any transmission line relocation works, if any works are to be undertaken in the immediate vicinity of this area.
- 2.1.3 The Applicant will conduct a due diligence assessment of each mature River Oak tree to be lopped, prior to disturbance. For any mature River Oak tree that is lopped, ten (10) trees will be planted; and two (2) nesting boxes will be erected for any tree hollow identified.
- 2.1.4 Any tree lopping required along Bowmans Creek and Swamp Creek in the riparian zone will be undertaken manually with chainsaws to allow the root structures to remain in situ.
- 2.1.5 Redundant power poles will be removed from site and the holes will be backfilled with suitable material and rehabilitated.
- 2.1.6 The Applicant will update the Biodiversity and Offset Management Plan to include appropriate riparian revegetation works and the incorporation of the 4 ha area to be managed by the Applicant, consistent with the commitments of the adjacent Habitat Management Area.
- 2.1.7 The Applicant will implement identified management measures to avoid potential impacts to Aboriginal heritage sites MOCO OS-10 and Sensitive Areas 1 to 6 during MOD 3 activities.
- 2.1.8 Should any unidentified Aboriginal archaeological sites be located during operations, the procedures of the approved ACHMP and the '*Unanticipated Finds Protocol*' will be followed.
- 2.1.9 Historic Heritage item 7g will be identified in the field to ensure it is not disturbed by MOD 3 activities.
- 2.1.10 The dilapidated shed associated with Historic Heritage item 8b will be manually dismantled, with salvaged materials removed from site.
- 2.1.11 The Applicant will implement suitable erosion and sediment controls prior to the commencement of works, to minimise the potential for inadvertent impacts to local water resources.
- 2.1.12 If groundwater is intercepted during construction of the realigned transmission line, Water Group will be notified immediately.
- 2.1.13 The Applicant will update the plans contained in the Rehabilitation Management Plan to include the location of the relocated transmission line.



# **APPENDIX 4: LANDOWNER/RECEIVER IDENTIFICATION**

# **CONSOLIDATED CONSENT**



NSW Government Department of Planning, Housing and Infrastructure

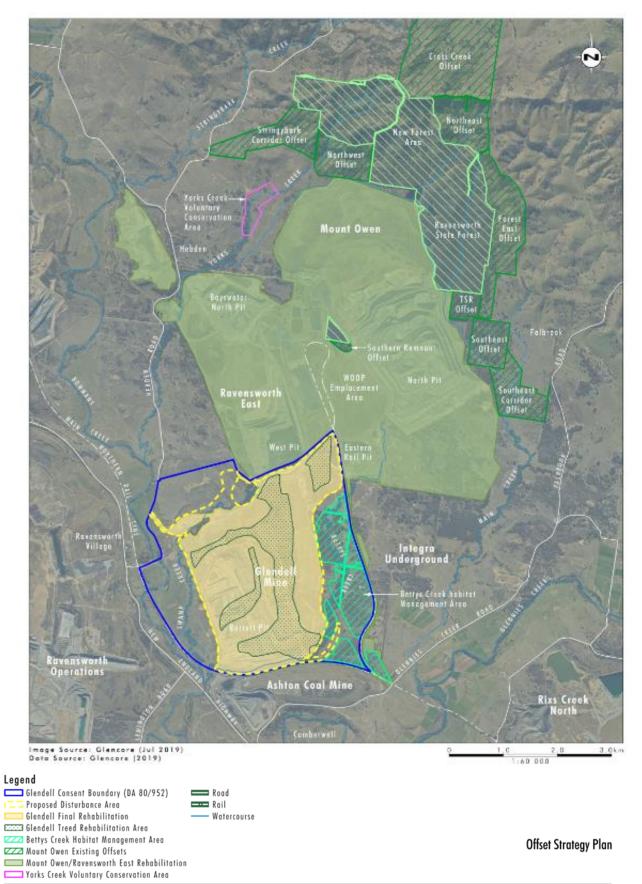
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# **CONSOLIDATED CONSENT**

Glendell and Mt Owen Receiver IDs Cross Reference Table

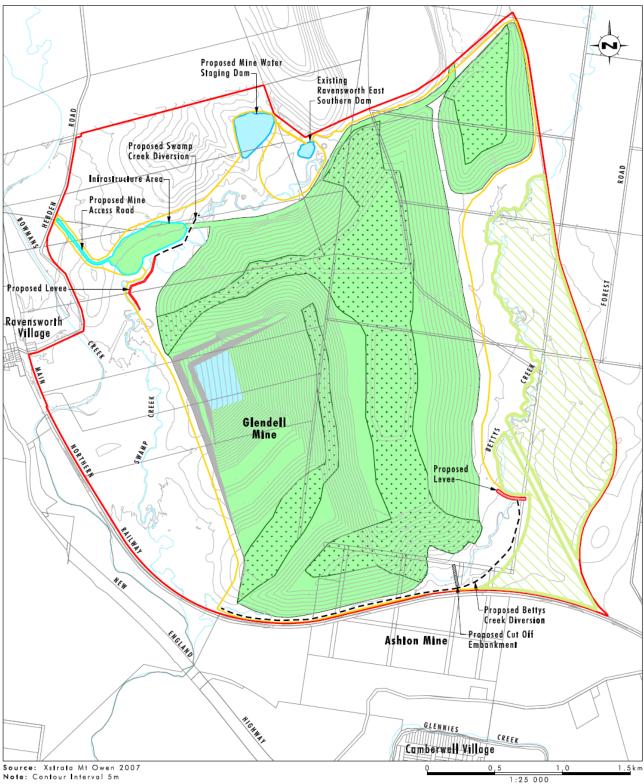
|                                 |                    | eceiver IDS Cross Reference Table  |
|---------------------------------|--------------------|--|
| Receiver ID<br>Glendell Mt Owen |                    |  |
| DA 80/952                       | SSD 5850           | Ownership Status   |
| 43                              | 365                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 22a                             | 150                | Private  |
| 10                              | 397                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 77                              | 4                  | Private  |
| 82<br>69                        | 29<br>363          | Mine Owned - Glencore<br>Mine Owned - Glencore   |
| 5                               | 402                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 35                              | 395                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 37b                             | 127b               | Private  |
| 61                              | 122                | Mine Owned - Glencore  |
| 32                              | 379                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 18                              | 148                | Mine Owned - Glencore  |
| 23                              | 370                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 47                              | 152                | Private  |
| -                               | *127c<br>*127d     | Private  |
| - 50                            | *127d<br>351       | Private<br>Mine Owned - Ashton Coal Mines Pty Limited                                    |
| 30                              | 155                | Private  |
| 49                              | 149                | Private  |
| 14                              | 156                | Private  |
| 104                             | 28                 | Mine Owned - Glencore  |
| 24                              | 154                | Private  |
| 37a                             | 127a               | Private  |
| 6                               | 378                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 101                             | 36                 | Mine Owned - Glencore  |
| 45                              | 353                | Mine Owned - Bloomfield  |
| 7a                              | 145<br>5           | Private  |
| 108<br>106                      | 23                 | Private<br>Private   |
| 52                              | 401                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 201                             | 120                | Mine Owned - Glencore  |
| 38                              | 407                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 100                             | 117                | Mine Owned - Glencore  |
| 48                              | 369                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 103                             | 34                 | Mine Owned - Glencore  |
| 30                              | 398                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 27                              | 143                | Private  |
| 76                              | 3                  | Mine Owned - Bloomfield  |
| 67                              | 360                | Mine Owned - Glencore  |
| 29<br>15                        | 159                | Mine Owned - Ashton Coal Mines Pty Limited   |
|                                 | 146                | Mine Owned - Bloomfield<br>Mine Owned - Ashton Coal Mines Pty Limited                    |
| 4b<br>53                        | 366<br>400         | Mine Owned - Ashton Coal Mines Pty Limited<br>Mine Owned - Ashton Coal Mines Pty Limited |
| 40                              | 400                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 84                              | 26                 | Mine Owned - Glencore  |
| 70                              | 115                | Private  |
| 33                              | 371                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 28                              | 396                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 105                             | 24                 | Mine Owned - Glencore  |
| 78                              | 21                 | Private  |
| 73                              | 007a               | Private  |
| 74                              | 007b               | Private  |
| 37c<br>7b1                      | 372<br>144a        | Mine Owned - Ashton Coal Mines Pty Limited   |
| 761<br>7b2                      | 144a<br>144b and c | Private<br>Private   |
| 109                             | 1440 and c         | Private  |
| 110                             | 111                | Private  |
| 107                             | 112                | Private  |
| 20                              | 381                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 21a                             | 377                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 21b                             | 377                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 11                              | 394                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 87                              | 31                 | Mine Owned - Glencore  |
| 2                               | 367                | Mine Owned - Ashton Coal Mines Pty Limited   |
| 46                              | 352                | Mine Owned - Bloomfield  |
| * I Welling consti              | UCTER TOUOWING     |  |

\* Dwelling constructed following approval of DA 80/352



# **APPENDIX 5: OFFSET STRATEGY PLAN**

# **CONSOLIDATED CONSENT APPENDIX 6: CONCEPTUAL REHABILITATION PLAN**



#### Legend

Glendell Consent Boundary (DA 80/952) ZZZ Betty Creek Habitat Management Area Rehabilitated Area 🔲 Final Void Treed Rehabilitated Area

**Proposed Final Landform** 

# APPENDIX 7: HERITAGE ITEMS FOR ARCHIVAL RECORDING

| Item ID  | Complex                           | Description                              |
|----------|-----------------------------------|--|
| 1        | -                                 | Wooden bridge across Swamp               |
|          |                                   | Creek to the west of the former          |
|          |                                   | Marali homestead site                    |
| 2        | -                                 | Tree stump bearing surveyors             |
|          |                                   | mark                                     |
| 3        | -                                 | Cattle yard remains                      |
| 4a to 4d | Unidentified Potential Dairy Site | Sandstone and conglomerate               |
|          |                                   | concrete footings (items 4a & 4b);       |
|          |                                   | mortar lined drain/gutter (item 4c);     |
|          |                                   | machine made and sandstock               |
|          |                                   | wire cut bricks (item 4d)                |
| 5        | -                                 | Corduroy road remains                    |
| 6a to 6l | Unidentified Ruined Homestead     | Peppercorn trees and footings            |
|          |                                   | (item 6a); house footings (item          |
|          |                                   | 6b); bricks (item 6c); footings of       |
|          |                                   | associated structures (item 6d);         |
|          |                                   | sandstone footings (item 6e); salt       |
|          |                                   | glazed drainage pipes (item 6f);         |
|          |                                   | shaft/well (item 6g); water tank,        |
|          |                                   | combine box and fence line               |
|          |                                   | remains (item 6h); <i>in situ</i> wall   |
|          |                                   | (item 6i); borehole (item 6j);           |
|          |                                   | scatter of ceramic and glass (item       |
|          |                                   | 6k); fence line remains (item 6l).       |
| 7a to 7i | Ruins of Marali Homestead         | House ruins (item 7a), a telegraph       |
|          |                                   | pole (item 7b); wooden bridge            |
|          |                                   | across Swamp Creek (item 7c);            |
|          |                                   | footbridge remains (item 7d); shed       |
|          |                                   | (item 7e); yards associated with         |
|          |                                   | shed (item 7f); yards in paddock         |
|          |                                   | (item 7g); water tank (item 7h);         |
|          |                                   | well, trough and yards (item 7h and 7i). |
| 8a to 8c | Ruins of Hillview Homestead       | House ruins (item 8a); sheds             |
| 00 10 00 | Ruins of milliview nomestead      | (items 8b and 8c).                       |
| 9        | Great Northern Road               | Former road                              |
| Э        | Great Northern Road               |  |