

## Development Consent

### Section 89E of the *Environmental Planning & Assessment Act 1979*

As delegate of the Minister for Planning, the Planning Assessment Commission approves the development application referred to in schedule 1, subject to the conditions in schedules 2 to 5.

These conditions are required to:

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

Name  
Member of the Commission

Name  
Member of the Commission

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Member of the Commission

Name  
Member of the Commission

Sydney

26 November 2015

#### SCHEDULE 1

**Application Number:**

SSD-6464

**Applicant:**

Warkworth Mining Limited

**Consent Authority:**

Minister for Planning

**Land:**

See Appendix 1

**Development:**

Warkworth Continuation Project

Blue text represents MOD 2 dated 27 May 2022

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

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

# CONSOLIDATED CONSENT

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## DEFINITIONS

|                                     |  |
|-------------------------------------|--|
| Aboriginal stakeholders             | Cultural Heritage Working Group and any Aboriginal groups registered for cultural heritage consultation for the development  |
| Annual review                       | The review required by condition 3 of schedule 5   |
| Applicant                           | Warkworth Mining Limited, or any person who seeks to carry out the development approved under this consent   |
| BCA                                 | Building Code of Australia   |
| BCD                                 | Biodiversity & Conservation Division within the Department   |
| Blast misfire                       | The failure of one or more holes in a blast pattern to initiate  |
| CCC                                 | Community Consultative Committee   |
| CHAG                                | Coal & Allied Community Heritage Advisory Group, or equivalent organisation  |
| Conditions of this consent          | Conditions contained in schedules 1 to 5 (inclusive) of this document  |
| Council                             | Singleton Council  |
| CMA                                 | Hunter-Central Rivers Catchment Management Authority   |
| CPI                                 | Australian Bureau of Statistics Consumer Price Index   |
| Day                                 | The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and Public Holidays  |
| Department                          | Department of Planning and Environment   |
| Development                         | The development as described in the documents listed in condition 2 of Schedule 2 of this document   |
| DPE Water                           | Water Group within the Department  |
| EIS                                 | Environmental Impact Statement titled <i>Warkworth Continuation 2014 Environmental Impact Statement</i> (6 volumes) dated June 2014, and associated response to submissions titled <i>Warkworth Continuation 2014 Response to Submissions</i> (2 volumes) dated 10 November 2014, and associated response titled <i>Warkworth Continuation 2014 Response to Planning Assessment Commission review report</i> dated 20 March 2015   |
| EEC                                 | Endangered ecological community, as defined under the <i>Threatened Species Conservation Act 1995</i>  |
| EPA                                 | Environment Protection Authority   |
| EP&A Act                            | <i>Environmental Planning and Assessment Act 1979</i>  |
| EP&A Regulation                     | <i>Environmental Planning and Assessment Regulation 2000</i>   |
| EPBC Act                            | <i>Environment Protection and Biodiversity Conservation Act 1999</i>   |
| EPL                                 | Environment Protection Licence issued under the POEO Act   |
| Evening                             | The period from 6pm to 10pm  |
| Feasible                            | Feasible relates to engineering considerations and what is practical to build or implement   |
| Heritage item                       | An item as defined under the <i>Heritage Act 1977</i> and/or an Aboriginal Object or Aboriginal Place as defined under the <i>National Parks and Wildlife Act 1974</i>   |
| Heritage NSW                        | Heritage NSW within the Department   |
| Incident                            | 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  |
| Land                                | Has the same meaning as the definition in section 1.4 of the EP&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   |
| Lemington underground mine workings | The underground workings identified in Appendix 2 Figure 3A  |
| Material harm                       | Is harm to the environment that: <ul style="list-style-type: none"> <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> </ul> This definition excludes "harm" that is authorised under either this consent or any other statutory approval |
| Mine water                          | Water that accumulates within active mining and infrastructure areas   |
| Mining company                      | Mining, extractive industry or petroleum company   |

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|   |   |
|---|---|
| Mining operations   | Includes the removal of overburden and extraction, processing, handling, storage and transportation of coal on site   |
| Minister  | Minister for Planning, or delegate  |
| Minor   | Not very large, important or serious  |
| Mitigation  | Activities associated with reducing the impacts of the development  |
| Modification Report (MOD 2)                                   | Modification Report titled <i>MTW/HVO Lemington Underground Mine Water Storage Project, Modification Report</i> dated September 2021 and the Submissions Report dated December 2021, and associated response titled <i>MTW-HVO Lemington Underground Water Storage Modifications (MP06_0261 MOD 7 AND SSD-6464 MOD 2) – Response To Additional Information Request</i> dated 15 March 2022. |
| Negligible  | Small and unimportant, such as to be not worth considering  |
| Night   | The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays   |
| Non-compliance  | An occurrence, set of circumstances or development that is a breach of this consent   |
| NRAR  | NSW Natural Resources Access Regulator  |
| Planning Secretary  | Planning Secretary of the Department, or nominee and/or delegate  |
| POEO Act  | <i>Protection of the Environment Operations Act 1997</i>  |
| Privately-owned land  | Land that is not owned by the Crown or a mining company (or its subsidiaries)   |
| 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  | Means applying judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements  |
| Rehabilitation  | The restoration of land disturbed by the development to a good condition, and ensure it is safe, stable and non-polluting   |
| Resources Regulator   | NSW Resources Regulator   |
| RFS   | Rural Fire Service  |
| ROM coal  | Run-of-mine coal  |
| SA NSW  | Subsidence Advisory New South Wales   |
| Site  | The land listed in Appendix 1   |
| TSC Act   | <i>Threatened Species Conservation Act 1995</i>   |
| TfNSW   | Transport for New South Wales   |
| VPA   | Voluntary Planning Agreement  |
| Wollombi Brook Aboriginal Cultural Heritage Conservation Area | The area depicted on Figure 15 in Appendix 5  |



# CONSOLIDATED CONSENT

## 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 EIS and Modification Report (MOD 2); and
  - (b) in accordance with the conditions of this consent.

*Note: The general layout of the development is shown in Appendix 2.*
3. If there is any inconsistency between the above documents, the most recent document prevails to the extent of the inconsistency. However, the conditions of this consent prevail to the extent of any inconsistency.
4. The Applicant **must** comply with any reasonable requirement/s of the Planning Secretary arising from:
  - (a) any reports, strategies, plans, programs, reviews, audits 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

#### Mining Operations

5. The Applicant may carry out mining operations on site for 21 years from the date of commencement of development under this consent.

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

#### Coal Extraction

6. The Applicant **must** not extract more than 18 million tonnes of ROM coal from the Warkworth mine in a calendar year.

#### Coal Transport

7. The Applicant **must**:
  - (a) not transport any coal produced at the development by public road; and
  - (b) ensure that the coal produced on site is only sent to the Mt Thorley Coal Loader for transport by rail to export and/or domestic markets.

### COMMENCEMENT OF DEVELOPMENT UNDER THIS CONSENT

8. The Applicant **must**:
  - (a) notify the Planning Secretary in writing of the date of commencement of development under this consent; and
  - (b) may only commence development under this consent once the Planning Secretary has agreed in writing that all prerequisites to the commencement of development under this consent have been met.

### SURRENDER OF EXISTING DEVELOPMENT CONSENT

9. By the end January 2017, unless the Planning Secretary agrees otherwise, the Applicant **must** surrender the existing development consent (DA-300-9-2002-i) for the Warkworth mine in accordance with Section 104A of the EP&A Act.

Following the commencement of development under this consent, the conditions of this consent prevail to the extent of any inconsistency with the conditions of DA-300-9-2002-i.

## 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 and [SA NSW](#).

### Notes:

- Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates (where applicable) for the proposed building works;
- Part 8 of the EP&A Regulation sets out the requirements for the certification of the development; and
- The development is located in the Patrick Plains Mine Subsidence District, and under Section 15 of the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the [SA NSW's](#) approval before constructing any improvements on the site.

## DEMOLITION

11. The Applicant **must** ensure that all demolition work on site is carried out in accordance with AS 2601-2001: *The Demolition of Structures*, or its latest version.

## PROTECTION OF PUBLIC INFRASTRUCTURE

12. Unless the Applicant and the applicable authority agree otherwise, the Applicant **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 Mine Subsidence Compensation Act 1961, or to damage to roads caused as a result of general road usage.*

## OPERATION OF PLANT AND EQUIPMENT

13. The Applicant **must** ensure that all plant and equipment used on site, or to monitor the performance of the development, is maintained and operated in a proper and efficient manner.

## UPDATING & STAGING STRATEGIES, PLANS OR PROGRAMS

14. With the approval of the [Planning](#) Secretary, the Applicant may:
- (a) submit any strategy, plan or program required by this consent on a progressive basis; and
  - (b) combine any strategy, plan or program required by this consent with any similar strategy, plan or program required for the Mt Thorley mine.

To ensure these strategies, plans or programs are updated on a regular basis, the Applicant may at any time submit revised strategies, plans or programs to the [Planning](#) Secretary for approval.

With the agreement of the [Planning](#) Secretary, the Applicant may prepare any revised strategy, plan or program without undertaking consultation with all parties under the applicable condition of this consent.

### Notes:

- While any strategy, plan or program may be submitted on a progressive basis, the Applicant will need to ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times.
- If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.

## COMMUNITY ENHANCEMENT

15. Within 6 months of the date of this consent, unless the [Planning](#) Secretary agrees otherwise, the Applicant **must** enter into a VPA with Council in accordance with:
- (a) Division 6 of Part 4 of the EP&A Act; and
  - (b) the terms of Applicant's offer in its letter to the Department dated 4 May 2015.

The VPA **must** include provisions for the payment, collection, management and distribution of the contributions under the agreement, with a focus on funding community infrastructure and services in the area surrounding the mine, including Bulga Village.

*Note: The Applicant's offer comprises a total contribution of \$11 million over 21 years for both the development and the Mt Thorley Continuation Project (SSD-6465).*

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## SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS

### ACQUISITION UPON REQUEST

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

Table 1: Land subject to acquisition upon request

| Acquisition Basis | Land                          |
|-------------------|-------------------------------|
| Noise & Air       | 77, 102, D, E, F              |
| Noise             | 34, 81, 148, 150, 190, 192, J |
| Air               | A, B                          |

Note: To interpret the land referred to in Table 1, see the applicable figures in Appendix 3.

2. The Applicant is only required to acquire property 77 if the owner of this land no longer has voluntary land acquisition rights under the planning approvals for the Wambo mine and/or its associated rail facilities.

### ADDITIONAL MITIGATION UPON REQUEST

3. Upon receiving a written request from the owner of any residence on the land listed in Table 1 or Table 2, the Applicant **must** implement additional noise and/or air quality mitigation measures at or in the vicinity of the residence in consultation with the landowner. These measures must be consistent with the measures outlined in the *Voluntary Land Acquisition and Mitigation Policy*. They must also be reasonable and feasible and proportionate with the level of predicted impact.

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

Table 2: Land subject to additional mitigation upon request

| Mitigation Basis | Characterisation of Impact | Land  |
|------------------|----------------------------|---|
| Noise            | Moderate                   | 12, 14, 15, 126, 128, 130, 139, 152, 183, 191, 192, 217, 262, 263 |

Notes:

- To interpret the land referred to in Table 2, see the applicable figures in Appendix 3.
- Definitions of marginal and moderate mitigation are given in the *Voluntary Land Acquisition and Mitigation Policy*.

### NOISE

#### Noise Criteria – Before 1 January 2017

4. Before 1 January 2017, except for the land in Table 1, the Applicant **must** ensure that the noise generated by the development does not exceed the noise criteria in condition 18 of DA-300-9-2002-i.

Notes:

- The referenced noise criteria in condition 18 of DA-300-9-2002-i are reproduced in Appendix 9.
- These noise criteria apply in the interim period until the completion of the Applicant's noise attenuation program, which is to be completed by the end of 2016 (see condition 6(d) below). From 1 January 2017, the noise criteria in condition 5 will apply.

#### Noise Criteria – From 1 January 2017

5. From 1 January 2017, except for the land in Table 1, the Applicant **must** ensure that the noise generated by the development does not exceed the criteria in Table 3 at any residence on privately-owned land.

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Table 3: Noise criteria dB(A)

| Location                    | Land   | Day<br>(L <sub>Aeq</sub> (15min)) | Evening<br>(L <sub>Aeq</sub> (15min)) | Night<br>(L <sub>Aeq</sub> (15min)) | Night<br>(L <sub>A1</sub> (1 min)) |
|-----------------------------|--|-----------------------------------|---------------------------------------|-------------------------------------|------------------------------------|
| Bulga                       | 17, 19   | 40                                | 40                                    | 40                                  | 50                                 |
|                             | 37, 43, 52, 62, 63, 64, 66, 71, 72, 73, 75, 82, 210, 211, 236, 252, 920  | 39                                | 39                                    | 39                                  | 49                                 |
|                             | 12, 14, 15, 16, 18, 20, 21, 22, 23, 24, 26, 28, 31, 35, 36, 38, 39, 40, 41, 42, 44, 45, 46, 47, 48, 49, 50, 53, 54, 55, 56, 57, 58, 60, 61, 67, 70, 74, 80, 84, 89, 215, 217, 229, 231, 234, 235, 237, 238, 243, 253, 254, 903, 917, 918, 919, 921 929 | 38                                | 38                                    | 38                                  | 48                                 |
|                             | 8, 9, 225, 226, 227, 228, 230, 266, 922  | 37                                | 37                                    | 37                                  | 47                                 |
|                             | 4, 6, 7, 10, 221, 222, 223   | 36                                | 36                                    | 36                                  | 46                                 |
|                             | All other residences on privately owned land   | 35                                | 35                                    | 35                                  | 45                                 |
|                             |  |                                   |                                       |                                     |                                    |
| Milbrodale                  | 111  | 36                                | 36                                    | 36                                  | 46                                 |
|                             | All other residences on privately owned land   | 35                                | 35                                    | 35                                  | 45                                 |
| Warkworth                   | All other residences on privately owned land   | 38                                | 38                                    | 38                                  | 48                                 |
| Maison Dieu                 | All other residences on privately owned land   | 35                                | 35                                    | 35                                  | 45                                 |
| Gouldsville, Long Point     | 126, 262   | 41                                | 41                                    | 41                                  | 51                                 |
|                             | 128  | 39                                | 39                                    | 39                                  | 49                                 |
|                             | 130, 139   | 38                                | 38                                    | 38                                  | 48                                 |
|                             | All other residences on privately owned land   | 35                                | 35                                    | 35                                  | 45                                 |
| Hambledon Hill/ Wylies Flat | 192  | 40                                | 40                                    | 40                                  | 50                                 |
|                             | 152, 191, 263  | 39                                | 39                                    | 39                                  | 49                                 |
|                             | 183  | 38                                | 38                                    | 38                                  | 48                                 |
|                             | 181, 182, 184, 185, 186, 187, 937a, 937b   | 37                                | 37                                    | 37                                  | 47                                 |
|                             | 155, 156, 157, 180, 937d, 937e   | 36                                | 36                                    | 36                                  | 46                                 |
|                             | All other residences on privately owned land   | 35                                | 35                                    | 35                                  | 45                                 |
| Mount Thorley               | <sup>a</sup> 144, <sup>a</sup> 915   | 43                                | 43                                    | 43                                  | 53                                 |
|                             | <sup>a</sup> 146   | 42                                | 42                                    | 42                                  | 52                                 |
|                             | 148, 188   | 36                                | 36                                    | 36                                  | 46                                 |
|                             | All other residences on privately owned land   | 35                                | 35                                    | 35                                  | 45                                 |

Notes:

- To interpret the land referred to in Table 3, see the applicable figures in Appendix 3.
- <sup>a</sup> Noise limits developed relative to current acquisition criteria.

Noise generated by the development is to be measured in accordance with the relevant requirements of the *NSW Industrial Noise Policy* (as may be updated from time-to-time) or an equivalent NSW Government noise policy, as amended by Appendix 7 which sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.

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

## Operating Conditions

6. The Applicant **must**:
- implement all reasonable and feasible measures to minimise the operational, low frequency and road noise of the development;
  - operate a comprehensive noise management system on site that uses a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations and the implementation of both proactive and reactive noise mitigation measures to ensure compliance with the relevant conditions of this consent;
  - minimise the noise impacts of the development during meteorological conditions when the noise limits in this consent do not apply (see Appendix 7);
  - ensure that:
    - all new trucks, dozers, drills and excavators purchased for use on the site after the date of this consent are commissioned as noise suppressed (or attenuated) units; and
    - the existing fleet of trucks, dozers, drills and excavators on site at the date of this consent is progressively fitted with suitable noise attenuation packages to ensure that 100% of the fleet being used on site is attenuated by the end of 2016; and
  - carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent and, if necessary, adjust the scale of operations on site to meet the criteria in this consent.

## Noise Management Plan

7. The Applicant **must** prepare a Noise Management Plan for the development to the satisfaction of the **Planning** Secretary, and carry out the development in accordance with this plan. The plan must:
- be prepared in consultation with the EPA, and submitted to the **Planning** Secretary for approval prior to carrying out any development under this consent;
  - describe the measures that would be implemented to ensure compliance with the relevant noise criteria and operating conditions of this consent;
  - describe the proposed noise management system in detail;
  - include provisions for keeping the local community informed about the operation of the noise management system and monitoring programs (including any correction factors under the *NSW Industrial Noise Policy*), including regular briefings and a public information session within 6 months of the granting of this development consent;
  - include a noise monitoring program that:
    - evaluates and reports on:
      - the effectiveness of the noise management system;
      - the effectiveness of the noise attenuation program (see condition 6(d));
      - compliance against the noise criteria in this consent; and
      - compliance against the noise operating conditions;
    - includes a program to calibrate and validate the real-time noise monitoring results with the attended monitoring results over time (so the real-time noise monitoring program can be used as a trigger for further attended monitoring where there is a risk of non-compliance with the noise criteria in this consent); and
    - defines what constitutes a noise incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any noise incidents.

## BLASTING

### Blasting Criteria

8. The Applicant **must** ensure that the blasting on the site does not cause exceedances of the criteria in Table 4.

Table 4: Blasting criteria

| Location                          | Airblast overpressure (dB(Lin Peak)) | Ground vibration (mm/s) | Allowable exceedance  |
|-----------------------------------|--------------------------------------|-------------------------|---|
| Residence on privately owned land | 120                                  | 10                      | 0%  |
|                                   | 115                                  | 5                       | 5% of the total number of blasts over a period of 12 months |

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

## Blasting Hours

9. The Applicant **must** only carry out blasting on site between 7am and 5pm Monday to Saturday inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the **Planning** Secretary.

## Blasting Frequency

10. The Applicant may carry out a maximum of:
- (a) 3 blasts a day; and
  - (b) 12 blasts a week, averaged over a calendar year, at the site.

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

*Notes:*

- For the purposes of this condition, a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the mine.
- For the avoidance of doubt, should an additional blast be required after a blast misfire, this additional blast and the blast misfire are counted as a single blast.
- In circumstances of recurring unfavourable weather conditions (following planned but not completed blast events), to avoid excess explosive sleep times and minimise any potential environmental impacts, the Applicant may seek agreement from the **Planning** Secretary for additional blasts to be fired on a given day.

11. The Applicant **must** not carry out more than 1 blast a day within 500 metres of the Putty Road and/or Golden Highway.

## Property Inspections

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

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

## Property Investigations

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

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

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

## Operating Conditions

14. During mining operations on site, the Applicant **must**:
- (a) implement all reasonable and feasible measures to:



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- protect the safety of people and livestock in the surrounding area;
  - protect public or private infrastructure/property in the surrounding area from any damage; and
  - minimise the dust and fume emissions of any blasting;
- (b) ensure that blasting on the site does not damage historic heritage sites outside the disturbance area including the Wambo Homestead, Bulga Bridge, St Phillips Church or the following Aboriginal grinding groove sites:
- MTW-266~WSW-09-22;
  - MTW-267~WSW-09-22;
  - MTW-268~WSW-209-23; and
  - Aboriginal grinding groove site Mt Thorley M 37-6-0163 (prior to its relocation);
- (c) minimise the frequency and duration of any road closures; and
- (d) operate a suitable system (including a hotline and website updates) to enable the public to get up-to-date information on the proposed blasting schedule on site.

*Note: To identify the Aboriginal grinding grooves and historic heritage sites referred to in this condition, see the applicable figures in Appendix 5.*

15. The Applicant **must** not undertake blasting on site within 500 metres of:
- (a) any public road; or
  - (b) any land outside the site that is not owned by the Applicant,
- unless:
- the Applicant has a written agreement with the applicable infrastructure authority or landowner to allow blasting to be carried out closer to the infrastructure or land, and the Applicant has advised the Department in writing of the terms of this agreement; or
  - the Applicant has:
    - demonstrated to the satisfaction of the **Planning** Secretary that the blasting can be carried out closer to the infrastructure or land without compromising the safety of people or livestock, or damaging buildings and/or structures; and
    - updated the Blast Management Plan to include the specific measures that would be implemented while blasting is being carried out within 500 metres of the road or land.

## Blast Management Plan

16. The Applicant **must** prepare a Blast Management Plan for the development to the satisfaction of the **Planning** Secretary, and carry out the development in accordance with this plan. The plan must:
- (a) be prepared in consultation with the EPA, and submitted to the **Planning** Secretary for approval prior to carrying out any development under this consent;
  - (b) describe the measures that would be implemented to ensure compliance with the blasting criteria and operating conditions of this consent;
  - (c) include a road closure management plan for blasting within 500 metres of a public road, that has been prepared in consultation with the **TfNSW** and Council;
  - (d) include a monitoring program for evaluating the performance of the development, including:
    - compliance with the applicable criteria;
    - avoiding any blasting impacts on the heritage items specified in condition 14 above; and
    - minimising the fume emissions from the site.

## AIR QUALITY

### Air Quality Impact Assessment Criteria

17. Except for the land in Table 1, 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 5, 6 and 7 at any residence on privately owned land.

Table 5: Long term impact assessment criteria for particulate matter

| 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> 30 µg/m <sup>3</sup> |

Table 6: Short term impact assessment criterion for particulate matter

| Pollutant | Averaging period | <sup>d</sup> Criterion |
|-----------|------------------|------------------------|
|-----------|------------------|------------------------|



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|  |         |                                   |
|--|---------|-----------------------------------|
| Particulate matter < 10 µm (PM <sub>10</sub> ) | 24 hour | <sup>b</sup> 50 µg/m <sup>3</sup> |
|--|---------|-----------------------------------|

Table 7: Long term impact assessment criteria for deposited dust

| Pollutant                   | Averaging period | Maximum increase <sup>2</sup> in deposited dust level | Maximum total <sup>1</sup> deposited dust level |
|-----------------------------|------------------|---|---|
| <sup>c</sup> Deposited dust | Annual           | <sup>b</sup> 2 g/m <sup>2</sup> /month                | <sup>a</sup> 4 g/m <sup>2</sup> /month          |

Notes to Tables 5-7

- <sup>a</sup> Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources);
- <sup>b</sup> Incremental impact (i.e. incremental increase in concentrations due to the development on its own);
- <sup>c</sup> Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method; and
- <sup>d</sup> Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the [Planning](#) Secretary.

## Mine-owned Land

18. 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 5,6 and 7 at any occupied residence on mine-owned land (including land owned by another mining company), unless and to the extent that:
- the tenant and landowner (if the residence is owned by another mining or gas company) have been notified of any health risks associated with such exceedances in accordance with the notification requirements under schedule 4 of this consent;
  - the tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice and cause;
  - air quality monitoring is regularly undertaken to inform the tenant or landowner (if the residence is owned by another mining or gas company) of the particulate emissions at the residence; and
  - data from this monitoring is presented to the tenant and landowner in an appropriate format for a medical practitioner to assist the tenant and landowner in making informed decisions on the health risks associated with occupying the property.

## Operating Conditions

19. The Applicant [must](#):
- implement all reasonable and feasible measures to minimise the:
    - odour, fume and dust emissions of the development; and
    - release of greenhouse gas emissions from the development;
  - operate a comprehensive air quality management system that uses a combination of predictive meteorological forecasting and real-time air quality monitoring data to guide the day to day planning of mining operations and the implementation of both proactive and reactive air quality mitigation measures to ensure compliance with the relevant conditions of this consent;
  - minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d to Tables 5-7 above); and
  - co-ordinate the air quality management on site with the air quality management at nearby mines (including the Mt Thorley, Bulga, Wambo and Hunter Valley Operations mines) to minimise any cumulative air quality impacts.

## Air Quality Management Plan

20. The Applicant [must](#) prepare a detailed Air Quality Management Plan for the development to the satisfaction of the [Planning](#) Secretary, and carry out the development in accordance with this plan. The plan must:
- be prepared in consultation with the EPA, and be submitted to the [Planning](#) Secretary for approval prior to carrying out any development under this consent;
  - describe the measures that would be implemented to ensure compliance with relevant air quality criteria and operating conditions of this consent;
  - describe the proposed air quality management system;
  - include provisions for keeping the local community informed about the operation of the air quality management system and monitoring programs, including regular briefings and a public information session within 6 months of the granting of this development consent;
  - include an air quality monitoring program that:
    - adequately supports the proactive and reactive air quality management system;
    - evaluates and reports on:
      - the effectiveness of the air quality management system; and
      - compliance with the air quality operating conditions; and

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- defines what constitutes an air quality incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any air quality incidents; and
- (f) include a protocol that has been prepared in consultation with the owners of nearby mines (including the Mt Thorley, Bulga, Wambo and Hunter Valley Operations mines) to minimise cumulative air quality impacts.

## METEOROLOGICAL MONITORING

21. For the life of the development, the Applicant **must** ensure that there is a meteorological station in the vicinity of the site that:
- (a) complies with the requirements in the *Approved Methods for Sampling of Air Pollutants in New South Wales* guideline; and
  - (b) is capable of continuous real-time measurement of temperature inversions in accordance with the *NSW Industrial Noise Policy*, unless a suitable alternative is approved by the **Planning** Secretary following consultation with the EPA.

## WATER

### Water Supply

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

22A. The Applicant **must** report on water taken from each water source each year in the Annual Review.

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

### Compensatory Water Supply

23. The Applicant **must** provide a compensatory water supply to the owner of any privately-owned land whose basic landholder water rights (as defined in the *Water Management Act 2000*) are adversely and directly impacted as a result of the development. This supply must be provided in consultation with **NRAR**, and to the satisfaction of the **Planning** Secretary.

The compensatory water supply measures must provide an alternative long-term supply of water that is equivalent to the loss attributable to the development. Equivalent water supply should be provided (at least on an interim basis) as soon as practicable from the loss being identified, unless otherwise agreed with the landowner.

If 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 **Planning** Secretary for resolution.

If the Applicant is unable to provide an alternative long-term supply of water, then the Applicant **must** provide alternative compensation to the satisfaction of the **Planning** Secretary.

*Note: The Water Management Plan (see condition 27) is required to include trigger levels for investigating potentially adverse impacts on water supplies.*

### Water Discharges

24. Unless an EPL or the EPA authorises otherwise, the Applicant **must** ensure that all surface water discharges from the site comply with the:
- (a) discharge limits (both volume and quality) set for the development in any EPL; and
  - (b) relevant provisions of the POEO Act or *Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002*.

*Note: For the avoidance of doubt, it is noted that the EPA will determine the cumulative allowable salinity discharges to the Hunter River catchment, according to rules of the Hunter River Salinity Trading Scheme and the respective quantities of tradeable salinity credits held by participants in the scheme (including the Bulga mine and other nearby mining operations).*

### Water Transfers

25. The Applicant may receive water from, and transfer water to, the Mt Thorley mine, Hunter Valley Operations mine, Bulga mine and Redbank Power Station.

### Water Management Performance Measures

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26. The Applicant **must** comply with the performance measures in Table 8 to the satisfaction of the Planning Secretary.

Table 8: Water management performance measures

| Feature   | Performance Measure  |
|---|--|
| Water management – General  | <p>Minimise the use of clean water (i.e. water not in contact with disturbed areas) on site</p> <p>Minimise the need for make-up water from external supplies (apart from permissible mine water transfers)</p>  |
| Hunter River Alluvial Aquifer and Wollombi Brook Alluvial Aquifer | Negligible environmental consequences to the Hunter River alluvial aquifer and the Wollombi Brook alluvial aquifer beyond those predicted for the development  |
| Lemington underground mine workings                               | During water transfers into the Lemington underground mine workings, retain a maximum fill level of 30m AHD in the Lemington underground mine workings or retain a buffer zone of 10m between the base of the Hunter River alluvium and the Lemington underground mine workings fill level; whichever gives the greater vertical separation  |
| Construction and operation of infrastructure                      | <p>Design, install and maintain erosion and sediment controls generally in accordance with the series <i>Managing Urban Stormwater: Soils and Construction</i> including <i>Volume 1</i>, <i>Volume 2A – Installation of Services</i> and <i>Volume 2C – Unsealed Roads</i></p> <p>Design, install and maintain the infrastructure within 40 m of watercourses generally in accordance with the <i>Guidelines for Controlled Activities on Waterfront Land (DPI 2007)</i>, or its latest version</p> <p>Design, install and maintain any creek crossings generally in accordance with the <i>Policy and Guidelines for Fish Habitat Conservation and Management</i> (DPI, 2013) and <i>Why Do Fish Need To Cross The Road? Fish Passage Requirements for Waterway Crossings</i> (NSW Fisheries 2003), or their latest versions</p> |
| Clean water diversion & storage infrastructure                    | <p>Design, install and maintain the clean water system to capture and convey the 100 year ARI flood.</p> <p>Maximise as far as reasonable and feasible the diversion of clean water around disturbed areas on site</p>   |
| Sediment dams   | Design, install and/or maintain the dams generally in accordance with the series <i>Managing Urban Stormwater: Soils and Construction – Volume 1 and Volume 2E Mines and Quarries</i>  |
| Mine water storages   | <p>Design, install and/or maintain mine water storage infrastructure to ensure no discharge of mine water off-site (except in accordance with <a href="#">condition 24</a>)</p> <p>On-site storages (including mine infrastructure dams and treatment dams) are suitably designed, installed and/or maintained to minimise permeability</p> <p>Maintain adequate freeboard within the pit void at all times to minimise the risk of discharge to surface waters</p>  |
| Flood mitigation measures   | <p>Design, install and maintain flood mitigation measures along the western side of the development, to ensure there is adequate freeboard (at least 500mm) between the Probable Maximum Flood level in Wollombi Brook and the crest levee or peak of the flood mitigation infrastructure.</p> <p>Residual impacts downstream must be managed in an appropriate manner.</p>  |
| Overburden emplacements   | <p>Design, install and maintain emplacements to encapsulate and prevent migration of tailings, acid forming and potentially acid forming materials, and saline and sodic material</p> <p>Design, install and maintain emplacements to prevent off-site migration of saline groundwater seepage</p>   |
| Chemical and hydrocarbon storage                                  | Chemical and hydrocarbon products to be stored in bunded areas in accordance with the relevant Australian Standards  |

## Water Management Plan

27. The Applicant **must** prepare a Water Management Plan for the development to the satisfaction of the **Planning** Secretary, and carry out the development in accordance with this plan. The plan must:
- (a) be prepared in consultation with **the EPA and DPE Water** and submitted to the **Planning** Secretary for approval prior to carrying out any development under this consent;
  - (b) in addition to the standard requirements for management plans (see condition 3 of schedule 5), include a:
    - (i) Site Water Balance that:
      - includes details of:
        - sources and security of water supply, including contingency planning for future reporting periods;
        - water use and management on site, including details of water sharing between neighbouring mining operations;
        - any off-site water transfers and discharges;
        - reporting procedures, including the preparation of a site water balance for each calendar year;
        - **the methodology used to quantify the annual groundwater inflow into the Lemington underground mine workings during the period water is to be stored and extracted, and the ongoing maximum annual groundwater inflow after these activities have ceased; and**
      - investigates and implements all reasonable and feasible measures to minimise water use on site;
    - (ii) Surface Water Management Plan, that includes:
      - detailed baseline data on surface water flows and quality in the watercourses that could potentially be affected by the development;
      - a detailed description of the water management system on site, including the:
        - clean water diversion systems;
        - erosion and sediment controls (mine water system); and
        - mine water management systems including irrigation areas;
      - detailed plans, including design objectives and performance criteria, for:
        - design and management of final voids;
        - design and management for the emplacement of coal reject materials;
        - reinstatement of drainage lines on the rehabilitated areas of the site; and
        - control of any potential water pollution from the rehabilitated areas of the site;
      - performance criteria for the following, including trigger levels for investigating any potentially adverse impacts associated with the development:
        - mine water management system;
        - surface water quality of Wollombi Brook; and
        - channel stability, stream and riparian vegetation health of Wollombi Brook;
      - a program to monitor and report on:
        - the effectiveness of the mine water management system; and
        - surface water flows and quality, stream and riparian vegetation health in Wollombi Brook potentially affected by the development;
      - a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the development; and
    - (iii) Groundwater Management Plan, which includes:
      - detailed baseline data on groundwater levels, yield and quality in the region, and privately-owned groundwater bores, that could be affected by the development;
      - groundwater assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts;
      - a program to monitor and report on:
        - groundwater inflows to the open cut pits;
        - the seepage/leachate from water storages, emplacements, backfilled voids, and final voids;
        - the impacts of the development on:
          - regional and local (including alluvial) aquifers;
          - groundwater supply of potentially affected landowners;
          - groundwater dependent ecosystems and riparian vegetation;
          - base flows to Wollombi Brook;
      - a plan to respond to any exceedances of the groundwater assessment criteria; and
      - a program to validate the groundwater model for the development, including an independent review of the model with every independent environmental audit, and compare the monitoring results with modelled predictions.

## BIODIVERSITY

### Retirement of Credits

28. Within 3 years of the date of commencement of development under this consent, the Applicant **must** retire biodiversity credits of a number and class specified in Tables 9 and 10 below to the satisfaction of BCD.

The retirement of these credits must be carried out in accordance with the *NSW Biodiversity Offsets Policy for Major Projects* and can be achieved by:

- (a) acquiring or retiring credits under the Biobanking Scheme in the TSC Act;
- (b) making payments into an offset fund that has been developed by the NSW Government; or
- (c) providing supplementary measures.

Table 9: Ecosystem credit requirements

| <b>Vegetation Community</b>                              | <b>Code (BVT)</b> | <b>Biometric Vegetation Type</b>   | <b>Area (ha)</b> | <b>Endangered Ecological Community (EEC)</b>   | <b><sup>a</sup>Credits required</b> |
|--|-------------------|--|------------------|--|-------------------------------------|
| Warkworth Sands Woodland                                 | HU872             | Rough-barked Apple - Narrow-leaved Ironbark - Blakely's Red Gum - Bull Oak - Coast Banksia woodland on sands of the Warkworth area | 72.12            | Warkworth Sands Woodland in the Sydney Basin Bioregion EEC   | 3,043                               |
| Warkworth Sands Grassland                                | HU872             | Rough-barked Apple - Narrow-leaved Ironbark - Blakely's Red Gum - Bull Oak - Coast Banksia woodland on sands of the Warkworth area | 0.67             | N/A  | 16                                  |
| Central Hunter Grey Box - Ironbark Woodland              | HU817             | Narrow-leaved Ironbark - Bull Oak - Grey Box shrub - grass open forest of the central and lower Hunter                             | 614.64           | Central Hunter Grey Box-Ironbark Woodland in the New South Wales North Coast and Sydney Basin Bioregions EEC           | <sup>b</sup> 12,180                 |
| Regenerating Central Hunter Grey Box - Ironbark Woodland | HU817             | Narrow-leaved Ironbark - Bull Oak - Grey Box shrub - grass open forest of the central and lower Hunter                             | 6.43             | Central Hunter Grey Box-Ironbark Woodland in the New South Wales North Coast and Sydney Basin Bioregions EEC           | 108                                 |
| Central Hunter Grey Box - Ironbark Derived Grassland     | HU817             | Narrow-leaved Ironbark - Bull Oak - Grey Box shrub - grass open forest of the central and lower Hunter                             | 378.6            | N/A  | 4,516                               |
| Central Hunter Ironbark - Spotted Gum - Grey Box Forest  | HU818             | Narrow-leaved Ironbark - Grey Box - Spotted Gum shrub - grass woodland of the central and lower Hunter                             | 16.61            | Central Hunter Ironbark-Spotted Gum-Grey Box Forest in the New South Wales North Coast and Sydney Basin Bioregions EEC | 633                                 |

Notes:

- <sup>a</sup> Or as otherwise determined by BCD as part of its detailed consideration of credits retirement.
- <sup>b</sup> This must be read in conjunction with the similar figure in Table 11. It reflects the fact that some of these credits may be retired through mine rehabilitation.

Table 10: Species credit requirements

| <b>Species</b>    | <b><sup>a</sup>Credits Required</b> |
|-------------------|-------------------------------------|
| Regent Honeyeater | 18,929                              |

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|                      |        |
|----------------------|--------|
| Southern Myotis      | 18,222 |
| Large-eared Pied Bat | 139    |

Note:

- <sup>a</sup> Or as otherwise determined by BCD as part of its detailed consideration of credits retirement.

### Rehabilitation Offsets

29. Within 10 years of the completion of mining operations under this consent, the Applicant **must** retire ecosystem credits of a number and class specified in Table 11 to the satisfaction of BCD.

Table 11: Ecosystem Credit Requirements

| Vegetation Community                        | Code (BVT) | Biometric Vegetation Type  | Area (ha) | Endangered Ecological Community (EEC)  | <sup>a</sup> Credits Required |
|---|------------|--|-----------|--|-------------------------------|
| Central Hunter Grey Box - Ironbark Woodland | HU817      | Narrow-leaved Ironbark - Bull Oak - Grey Box shrub - grass open forest of the central and lower Hunter | 2,100     | Central Hunter Grey Box-Ironbark Woodland in the New South Wales North Coast and Sydney Basin Bioregions EEC | 11,204                        |

Note:

- <sup>a</sup> Or as otherwise determined by BCD as part of its detailed consideration of credits retirement.

The retirement of these credits must be carried out in accordance with the *NSW Biodiversity Offsets Policy for Major Projects* and can be achieved by:

- retiring credits generated by mine rehabilitation;
- acquiring or retiring credits under the Biobanking Scheme in the TSC Act;
- making payments into an offset fund that has been developed by the NSW Government; or
- providing supplementary measures.

### Direct Land-Based Offsets

30. Within 3 years of the date of commencement of the development under this consent, the Applicant **must** secure offset areas listed in Table 12 under an in perpetuity conservation mechanism such as entering into a biobank agreement, in accordance with the relevant provisions of the TSC Act. The direct land-based offsets may be used as offsets for any approval required under the EPBC Act for this development.

Table 12: Direct Land-based Offsets

| Offset Area                                       | Minimum Size (hectares) |
|---|-------------------------|
| Northern Biodiversity Area                        | 303                     |
| Southern Biodiversity Area                        | 705                     |
| Goulburn River Biodiversity Area                  | 1,063                   |
| Bowditch Biodiversity Area                        | 520                     |
| Putty Road Biodiversity Area                      | 94                      |
| 2003 Warkworth Sands Woodland Area                | 155.8                   |
| North Rothbury Biodiversity Area (Hanwood Estate) | 40                      |

Note: To identify the areas referred to in Table 12 see the applicable figures in Appendix 4.

- 30A. The Applicant may subdivide the Northern Biodiversity Area in accordance with Figure 14A of Appendix 4 of this consent and with the requirements of the EP&A Act and EP&A Regulation, to allow for transfer of ownership of the remainder of the lot(s) to satisfy the requirements of MP 06\_0261.

Notes:

- Under Part 6 of the EP&A Act, the Applicant is required to obtain a subdivision certificate for a plan of subdivision.
- Division 6.4 of Part 6 of the EP&A Act sets out the application requirements for subdivision certificates.



31. The Applicant may use the ecosystem and species credits generated by the establishment of an in perpetuity conservation mechanism such as a biobank agreement for all of these offset areas, apart from those credits generated for Putty Road Biodiversity Area and 2003 Warkworth Sands Woodland Area, to retire the biodiversity credit requirements of the development under condition 28. All ecosystem and species credits generated by the establishment of an in perpetuity conservation mechanism for the Putty Road Biodiversity Area and 2003 Warkworth Sands Woodland Area **must** be retired permanently upon the establishment of an in perpetuity conservation mechanism for these areas, and may not be used sold or used to retire any other credit requirements.

## Additional Warkworth Sands Woodland Measures

32. Within 6 months of the commencement of development under this consent, the Applicant **must**:
- (a) develop suitable performance criteria to the satisfaction of BCD for determining the successful regeneration of the Warkworth Sands Woodland EEC in the Northern Biodiversity Area within 15 years from the commencement of development of under this consent; and
  - (b) lodge a bond (in the form of a bank guarantee) of \$1 million (indexed to CPI) with BCD.

*Note: The Applicant's biodiversity offset strategy involves the regeneration of 159 hectares of Warkworth Sands Woodland in the Northern Biodiversity Area, and the protection of an additional 19.5 hectares of existing Warkworth Sands Woodland in the Northern Biodiversity Area and 56 hectares of existing Warkworth Sands Woodland in the Southern Biodiversity Area.*

33. If, at the end of 15 years from the commencement of development of under this consent, the regeneration of the Warkworth Sands Woodland EEC in the Northern Biodiversity Area meets the performance criteria to the satisfaction of BCD, then BCD will refund the bond to the Applicant.

If, however, the regeneration does not meet the performance criteria to the satisfaction of BCD, then the Applicant will forfeit the bond to BCD for use by BCD for the regeneration of Warkworth Sands Woodland EEC in the local area, or equivalent strategic conservation initiatives in the region.

34. Within 12 months of the commencement of development under this consent, the Applicant **must** prepare an Integrated Management Plan for the Warkworth Sands Woodland EEC to the satisfaction of BCD. This plan must be prepared in consultation with the owners of the Wambo and Bulga mines, and outline the measures that would be implemented to co-ordinate management and recovery efforts for the EEC.
35. Within 6 months of the commencement of development under this consent, the Applicant **must** contribute \$1 million to BCD's *Saving Our Species – Regent Honeyeater* conservation program. The contribution may be used as a supplementary measure for any approval required under the EPBC Act for this development.

## Biodiversity Management Plan

36. The Applicant **must** prepare a Biodiversity Management Plan for the development to the satisfaction of the Planning Secretary, and carry out the development in accordance with this plan. The plan must:
- (a) be prepared in consultation with BCD and submitted to the Planning Secretary for approval prior to the commencement of any development under this consent;
  - (b) describe the short, medium, and long term measures that would be implemented to:
    - manage the remnant vegetation and fauna habitat on the site;
    - implement the biodiversity offset strategy described in the EIS;
    - regenerate and conserve Warkworth Sands Woodland EEC in the biodiversity areas;
    - integrate the implementation of the biodiversity offset strategy to the greatest extent practicable with the rehabilitation of the site;
  - (c) include detailed performance and completion criteria for evaluating the performance of the biodiversity offset strategy (including the regeneration of Warkworth Sands Woodland), and triggering remedial action (if necessary);
  - (d) include a detailed description of the measures that would be implemented over the next 3 years for:
    - regenerating Warkworth Sands Woodland in the biodiversity offset areas;
    - protecting vegetation and fauna habitat outside the approved disturbance area on-site;
    - enhancing the quality of existing vegetation and fauna habitat on the site and in the biodiversity offset areas;
    - minimising clearing and avoid unnecessary disturbance;
    - maximising the salvage of resources within the approved disturbance area - including vegetative and soil resources – for beneficial reuse in the enhancement of any land-based offsets or the rehabilitation of the site;
    - collecting and propagate seed;
    - minimising the impacts on fauna on site, including undertaking pre-clearance surveys;
    - managing salinity using best practice dryland salinity management revegetation measures;



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

*Note: Management measures relating to the biodiversity offset strategy may be addressed via equivalent measures required by BCD as part of a BioBanking Agreement or similar conservation agreement.*

## Conservation Bond

37. Within 3 months of the approval of the Biodiversity Management Plan, unless otherwise agreed by the Planning Secretary, the Applicant **must** lodge a Conservation Bond with the Department to ensure that the biodiversity offset strategy is implemented in accordance with the performance and completion criteria of the Biodiversity Management Plan. The sum of the bond **must** be determined by:
- (a) calculating the full cost of implementing the biodiversity offset strategy (other than land acquisition costs); and
  - (b) employing a suitably qualified quantity surveyor to verify the calculated costs, to the satisfaction of the Planning Secretary.

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

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

### Notes:

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

## HERITAGE

### Wollombi Brook Aboriginal Cultural Heritage Conservation Area

38. The Applicant **must** prepare a conservation management plan for the Wollombi Brook Aboriginal Cultural Heritage Conservation Area to the satisfaction of the Planning Secretary, and carry out the development in accordance with this plan. The plan must:
- (a) be prepared in consultation with Heritage NSW and Aboriginal stakeholders, and submitted to the Planning Secretary for approval prior to carrying out any development to the west of Wallaby Scrub Road under this consent unless otherwise agreed by the Planning Secretary;
  - (b) describe the measures that would be implemented to provide for the protection, conservation and enhancement of Aboriginal heritage values in the area;
  - (c) include a program/procedures for:
    - protection and management of Aboriginal sites, including protocols for the establishment of strictly controlled non-access zones and protocols around culturally sensitive areas;
    - maintaining and managing access to the area by the relevant Aboriginal stakeholders, including establishment of areas for active Aboriginal cultural heritage and landscape management; and
    - ongoing consultation and involvement of the relevant Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage in the area;
  - (d) investigate the potential for collaborative management of the Aboriginal heritage values of the land within the Southern Biodiversity Area and the adjoining Wambo-owned land adjacent to the conservation area, in consultation with the owner of the Wambo mine; and
  - (e) include an action plan for the implementation of the plan, including the establishment and role of the Wollombi Brook Aboriginal Cultural Heritage Conservation Area management committee in overseeing implementation of the plan.
39. Prior to carrying out any development to the west of Wallaby Scrub Road under this consent, unless the Planning Secretary agrees otherwise, the Applicant **must** enter into a conservation agreement or

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agreements pursuant to section 69B of the *National Parks and Wildlife Act 1974* relating to the Wollombi Brook Aboriginal Cultural Heritage Conservation Area, recording the obligations assumed by the Applicant under the conditions of this consent in relation to the conservation area, and register the agreement/s pursuant to section 69F of the *National Parks and Wildlife Act 1974*.

*Note: The location of the conservation area is shown in the figure in Appendix 5.*

## Human Remains

40. This consent does not allow the Applicant to disturb any in-situ human remains on site.

## Protection of Heritage Items

41. The Applicant **must** protect the heritage items identified in Table 1 of Appendix 5.

## Salvage

42. Prior to carrying out any development on site that could affect the heritage items identified in Table 2 of Appendix 5, the Applicant **must** salvage those items in accordance with the approved program under the Aboriginal Heritage Management Plan.

## Aboriginal Heritage Management Plan

43. The Applicant **must** prepare an Aboriginal Heritage Management Plan for the development to the satisfaction of the **Planning** Secretary, and carry out the development in accordance with this plan. The plan must:
- (a) be prepared in consultation with **Heritage NSW** and Aboriginal stakeholders, and submitted to the **Planning** Secretary for approval prior to carrying out any development under this consent;
  - (b) include a program to:
    - salvage, investigate and/or manage Aboriginal sites and potential archaeological deposits within the disturbance area;
    - assess and remove scarred trees within the disturbance area;
    - protect and monitor Aboriginal sites outside the disturbance areas;
    - manage the discovery of any new Aboriginal objects or skeletal remains during the development;
    - facilitate access to archaeological sites on site for Aboriginal stakeholders; and
    - Aboriginal stakeholders are consulted and involved in the conservation and management of Aboriginal cultural heritage on the site; and
  - (c) include a research program, that has been prepared by suitably qualified and experienced persons whose appointment has been approved by the **Planning** Secretary, for locating and evaluating sand bodies of likely Pleistocene and early Holocene age that may contain evidence of Aboriginal habitation in the Upper Hunter Valley.

## Mount Thorley Warkworth Historic Heritage Conservation Fund

44. The Applicant **must** establish and contribute \$500,000 under the Mount Thorley Warkworth Historic Heritage Conservation Fund in consultation with Council and the CHAG and to the satisfaction of the **Planning** Secretary.

## Mount Thorley Warkworth Great Northern Road Conservation Fund

45. The Applicant **must** establish and contribute \$200,000 under the Mount Thorley Warkworth Great Northern Road Conservation Fund to be administered by the Applicant in consultation with Council, CHAG, Convict Trail Project and Heritage Branch, to the satisfaction of the **Planning** Secretary.

## Historic Heritage Management Plan

46. The Applicant **must** prepare a Historic Heritage Management Plan for the development to the satisfaction of the **Planning** Secretary, and carry out the development in accordance with this plan. This plan must:
- (a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the **Planning** Secretary;
  - (b) be prepared in consultation with **Heritage NSW**, Council, CHAG and local historical organisations;
  - (c) be submitted to the **Planning** Secretary for approval prior to carrying out any mining to the west of Wallaby Scrub Road;
  - (d) include the following for the management of historic heritage on site:
    - conservation management plans for the former RAAF Base Bulga, Great North Road (Wallaby Scrub Road portion), Brick House and Springwood Homestead; and
    - a program/procedures for:

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- archaeological investigations of Wallaby Scrub Road, Well 2 and the former RAAF Base Bulga Complex;
- photographic recording of all historic heritage sites within the disturbance areas prior to disturbance;
- relocation and storage of moveable heritage items;
- managing the discovery of any new heritage items during the development;
- ongoing consultation and involvement of the relevant historical groups in the conservation and management of historic heritage on the site;
- developing an interpretation programme of the heritage values of the RAAF Base Bulga Complex and the Great North Road Complex;
- establishing the Mount Thorley Warkworth Historic Heritage Conservation Fund and the Mount Thorley Warkworth Great Northern Road Conservation Fund; and
- protecting the other heritage items outside the disturbance areas.

*Note: It is accepted that the conservation management plan for the Springwood Homestead and interpretation programme for the RAAF Base Bulga Complex and the Great North Road Complex will not be submitted with the initial Historic Heritage Management Plan. These should be progressively added to the plan once completed.*

## TRANSPORT

### Wallaby Scrub Road

47. This consent allows open cut mining through the existing alignment of Wallaby Scrub Road.

*Note: The Applicant also requires other related approvals in order to undertake mining within the existing road alignment, including an approval under the Roads Act 1993 to close Wallaby Scrub Road. It also needs to obtain a mining lease over the road under the Mining Act 1992 for mining from surface to 20 metres depth.*

### Intersections

48. Unless the [Planning](#) Secretary agrees otherwise, the Applicant [must](#):
- (a) close the intersection of Lydes Lane and the Golden Highway in consultation with Council and to the satisfaction of the [TfNSW](#), within 6 months of the date of this consent; and
  - (b) pay the [TfNSW](#) \$375,000 towards the upgrade of the intersection of the Golden Highway (Putty Road) and Mitchell Line of Road within 12 months of the date of this consent.

### Putty Road Crossing

49. If the Applicant decides to construct a third crossing of Putty Road between the Warkworth and Mt Thorley mines, then this crossing must be constructed to the satisfaction of the [TfNSW](#), and the Applicant [will](#) bear all the costs associated with the construction, maintenance and subsequent removal of this crossing during the rehabilitation of the site.

### Rural Fire Service – Emergency Access Track/Fire Trail

50. Prior to the closure of Wallaby Scrub Road, the Applicant [must](#) do the following in consultation with Council, [TfNSW](#) and the RFS:
- (a) develop a suitable emergency access track/fire trail to the west of the approved mining pit in general accordance with the indicative track/trail shown on the figure in Appendix 8, and ensure that this track/trail complies with the relevant standards in the RFS' *Planning for Bush Fire Protection* publication and the Bushfire Coordinating Committee's *Fire Trails Policy No. 2/2007*, or its latest version;
  - (b) develop a protocol with the RFS that:
    - provides for ongoing access and use of the new emergency access track/fire trail following the closure of Wallaby Scrub Road;
    - provides for access to the site during emergencies on site to assist with any emergency response; and
    - provides for the Applicant to use the emergency response equipment and appropriately trained personnel on site to assist the RFS (and any other emergency agencies) respond to emergencies in the surrounding area,to the satisfaction of the [Planning](#) Secretary.

Following approval, the Applicant [must](#) carry out the development in accordance with this protocol.

### Monitoring of Coal Transport

51. The Applicant [must](#):
- (a) keep records of the amount of coal transported from the development in each calendar year; and
  - (b) make these records available on its website at the end of each calendar year.

## VISUAL

### Operating Conditions

52. The Applicant **must**:
- implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development, including lighting impacts on road users and long term impacts of final voids;
  - establish and maintain vegetated bunds, vegetative screening and/or screen fencing along the boundary of the site including adjoining public roads where appropriate;
  - 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; and
  - monitor and report on the effectiveness of these measures.

Initial works to establish the vegetative bunds and/or screening referred to in condition 52(b) must be undertaken within 6 months of the date of commencement of development under this consent (unless otherwise agreed by the **Planning** Secretary), in accordance with a tree screening plan that has been prepared in consultation with Council and to the satisfaction of the **Planning** Secretary. The use of screen fencing **will** be limited to areas where vegetative screening is not feasible, or as an interim measure prior to establishment of vegetation.

### Additional Visual Mitigation Measures

53. Upon receiving a written request from the owner of any residence on privately-owned land who has, or would have, significant direct views of the mining operations from this residence and/or its associated facilities (such as pool or barbeque area) during the development, the Applicant **must** implement additional visual impact mitigation measures (such as landscaping or vegetation screens) on the land in consultation with the landowner. These measures must be reasonable and feasible, and directed towards reducing the visibility of mining operations from the residence and/or its associated facilities.

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

#### Notes:

- The additional visual impact mitigation measures must be aimed at reducing the visibility of the mining operations on site from significantly affected residences, and do not require measures to reduce the visibility of the mining operations from other locations on the affected properties.
- The additional visual impact mitigation measures do not necessarily have to include the implementation of measures on the affected property itself (i.e. the additional measures could involve the implementation of measures outside the affected property boundary that provide an effective reduction in visual impacts).
- Except in exceptional circumstances, the **Planning** Secretary will not require additional visual impact mitigation to be undertaken for residences that are more than 5 kilometres from the mining operations.

## BUSHFIRE MANAGEMENT

54. The Applicant **must**:
- ensure that the development is suitably equipped to respond to any fires on site; and
  - assist the Rural Fire Service and emergency services as much as practicable if there is a fire in the vicinity of the site.

## WASTE

55. The Applicant **must**:
- implement all reasonable and feasible measures to minimise the waste (including coal reject) generated by the development;
  - ensure that the waste generated by the development is appropriately stored, handled and disposed of; and
  - monitor and report on effectiveness of the waste minimisation and management measures in the Annual Review.

## REHABILITATION

### Rehabilitation Objectives

56. The Applicant **must** rehabilitate the site in accordance with the provisions under the *Mining Act 1992* and must be generally consistent with the proposed rehabilitation strategy described in the EIS (and depicted conceptually in the figure in Appendix 6), and comply with the objectives in Table 13.

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Table 13: Rehabilitation objectives

| Feature                | Objective   |
|------------------------|---|
| Mine site (as a whole) | <ul style="list-style-type: none"> <li>• Safe, stable and non-polluting</li> <li>• Materials (including topsoils, substrates and seeds of the disturbed areas) are recovered, appropriately managed and used effectively as resources in the rehabilitation of the site</li> <li>• Final landforms to: <ul style="list-style-type: none"> <li>○ sustain the intended land use for the post-mining domains;</li> <li>○ be designed to minimise the visual impacts of the development;</li> <li>○ be in keeping with the natural terrain features of the area;</li> <li>○ be integrated with the rehabilitated landforms of surrounding mines;</li> <li>○ backfill the gap between the two main emplacements in accordance with the dozer (and dragline) option shown on the applicable figure in Appendix 6;</li> <li>○ incorporate micro-relief; and</li> <li>○ incorporate drainage lines consistent with topography and natural drainage where reasonable and feasible</li> </ul> </li> </ul> |
| Water quality          | <ul style="list-style-type: none"> <li>• Water retained on site is fit for the intended land use(s) for the post-mining domains</li> <li>• Water discharged from site is consistent with the baseline ecological, hydrological and geomorphic conditions of the creeks prior to mining disturbance</li> <li>• Water management is consistent with the applicable regional catchment strategy</li> </ul>   |
| Final voids            | <ul style="list-style-type: none"> <li>• Designed as long term groundwater sinks and to maximise groundwater flows across back-filled pits to the final void</li> <li>• Minimise: <ul style="list-style-type: none"> <li>○ the size and depth of final voids</li> <li>○ the drainage catchment of final voids</li> <li>○ any high wall instability risk</li> </ul> </li> <li>• risk of flood interaction for all flood events up to and including the 1% AEP</li> </ul>   |
| Biodiversity           | <ul style="list-style-type: none"> <li>• Restore ecosystem function, including maintaining or establishing self-sustaining ecosystems comprising local plant species</li> <li>• Vegetation to be established, with the restoration of at least 1,617 hectares of Central Hunter Grey Box – Ironbark Woodland EEC</li> <li>• Size, location and species of native tree lots and corridors are established to sustain biodiversity habitats</li> <li>• Species are selected that re-establishes and complements regional and local biodiversity</li> </ul>  |
| Surface infrastructure | <ul style="list-style-type: none"> <li>• To be decommissioned and removed, unless the <a href="#">Resources Regulator</a> agrees otherwise</li> </ul>   |
| Agriculture            | <ul style="list-style-type: none"> <li>• Land capability classification for the relevant nominated agricultural pursuit for each domain is established and self-sustaining within 5 years of land use establishment (first planting vegetation)</li> </ul>  |
| Community              | <ul style="list-style-type: none"> <li>• Ensure public safety</li> <li>• Minimise the adverse socio-economic effects associated with mine closure</li> </ul>  |

## Progressive Rehabilitation

57. The Applicant [must](#) rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim rehabilitation strategies [must](#) be employed when areas prone to dust generation cannot yet be permanently rehabilitated.

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

### Rehabilitation Management Plan

58. The Applicant **must** prepare a Rehabilitation Management Plan for the development **in accordance with the provisions under the *Mining Act 1992***, and carry out the development in accordance with this plan. The plan must:
- (a) be prepared in consultation with the Department, **DPE Water** , **BCD**, Council and the CCC;
  - (b) be prepared in accordance with any relevant **Resources Regulator** guideline, including any NSW government policy regarding final voids, **and be consistent with the documents listed in condition 2 of Schedule 2 and Appendix 6 of this consent**;
  - (c) be submitted to the **Resources Regulator** for **review** prior to carrying out any development under this consent;
  - (d) describe how the rehabilitation of the site would be integrated with the implementation the biodiversity offset strategy;
  - (e) include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, and triggering remedial action (if necessary);
  - (f) describe the measures that would be implemented to ensure compliance with the relevant conditions of this consent, and address all aspects of rehabilitation including timeframes for achieving specified rehabilitation objectives;
  - (g) includes a mine closure strategy, that details measures to minimise the long term impacts associated with mine closure, including final landform and final voids, final land use and socio-economic issues;
  - (h) include interim rehabilitation where necessary to minimise the area exposed for dust generation;
  - (i) include a program to monitor, independently audit and report on the effectiveness of the measures, and progress against the detailed performance and completion criteria; and
  - (j) build to the maximum extent practicable on the other management plans required under this consent.
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## SCHEDULE 4 ADDITIONAL PROCEDURES

### NOTIFICATION OF LANDOWNERS/TENANTS

1. Within 1 month of the date of this consent, the Applicant **must**:
  - (a) notify in writing the owners of:
    - the land listed in Table 1 of schedule 3 that they have the right to require the Applicant to acquire their land in accordance with the procedures in conditions 5-6 below at any stage during the development;
    - any residence on the land listed in Table 2 of schedule 3 that they have the right to request the Applicant to ask for additional noise mitigation measures to be installed at their residence at any stage during the development; and
    - any privately-owned land within 2 kilometres of the approved open cut mining pit/s that they are entitled to ask for an inspection to establish the baseline condition of any buildings or structures on their land, or to have a previous property inspection report updated;
  - (b) notify the tenants of any mine-owned land of their rights under this consent (see condition 18 of schedule 3); and
  - (c) send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the owners and/or existing tenants of any land (including mine-owned land) where the predictions in the EIS identify that dust emissions generated by the development are likely to be greater than the relevant air quality criteria in schedule 3 at any time during the life of the development.
2. Prior to entering into any tenancy agreement for any land owned by the Applicant that is predicted to experience exceedances of the recommended dust and/or noise criteria, or for any of the land listed in Table 1 that is subsequently purchased by the Applicant, the Applicant **must**:
  - (a) advise the prospective tenants of the potential health and amenity impacts associated with living on the land, and give them a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time); and
  - (b) advise the prospective tenants of the rights they would have under this consent, to the satisfaction of the **Planning** Secretary.
3. As soon as practicable after obtaining monitoring results showing:
  - (a) an exceedance of any relevant criteria in schedule 3, the Applicant **must** notify affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and
  - (b) an exceedance of the relevant air quality criteria in schedule 3, the Applicant **must** send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and/or existing tenants of the land (including the tenants of any mine-owned land).

### INDEPENDENT REVIEW

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

If the **Planning** Secretary is satisfied that an independent review is warranted, then the Applicant **must**:

  - (a) commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the **Planning** Secretary, to:
    - consult with the landowner to determine his/her concerns;
    - conduct monitoring to determine whether the development is complying with the relevant impact assessment criteria in schedule 3; and
    - if the development is not complying with these criteria then:
      - determine if the more than one mine is responsible for the exceedance, and if so the relative share of each mine regarding the impact on the land;
      - identify the measures that could be implemented to ensure compliance with the relevant criteria; and
  - (b) give the **Planning** Secretary and landowner a copy of the independent review within 2 months of the **Planning** Secretary's decision, unless the **Planning** Secretary agrees otherwise.

### LAND ACQUISITION

5. 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 land at the date of this written request, as if the land was unaffected by the development, having regard to the:
    - existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and



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

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

Upon receiving such a request, the [Planning Secretary](#) may request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer to:

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

Within 14 days of receiving the independent valuer's report, the Applicant [must](#) make a binding written offer to the landowner to purchase the land at a price not less than the independent valuer's determination.

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

Within 14 days of this determination, the Applicant [must](#) make a binding written offer to the landowner to purchase the land at a price not less than the [Planning](#) Secretary's determination.

If the landowner refuses to accept the Applicant's binding written offer under this condition within 6 months of the offer being made, then the Applicant's obligations to acquire the land [will](#) cease, unless the [Planning](#) Secretary determines otherwise.

6. The Applicant [must](#) pay all reasonable costs associated with the land acquisition process described in condition 5 above, including the costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.
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## SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

### ENVIRONMENTAL MANAGEMENT

#### Environmental Management Strategy

1. The Applicant **must** prepare an Environmental Management Strategy for the development to the satisfaction of the **Planning** Secretary, and carry out the development in accordance with this strategy. The strategy must:
  - (a) be submitted to the **Planning** Secretary for approval prior to carrying out any development under this consent;
  - (b) provide the strategic framework for 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;
    - respond to any non-compliance;
    - respond to emergencies; and
  - (f) include:
    - copies of any strategies, plans and programs approved under the conditions of this consent; and
    - a clear plan depicting all the monitoring required to be carried out under the conditions of this consent.

#### Adaptive Management

2. 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 **Planning** 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) detailed baseline data;
  - (b) a description of:
    - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
    - any relevant limits or performance measures/criteria;
    - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;
  - (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
  - (d) a program to monitor and report on the:
    - impacts and environmental performance of the development;
    - effectiveness of any management measures (see c above);
  - (e) a contingency plan to manage any unpredicted impacts and their consequences;
  - (f) a program to investigate and implement ways to improve the environmental performance of the development over time;
  - (g) a protocol for managing and reporting any:
    - incidents;
    - complaints;
    - non-compliances with statutory requirements; and
    - exceedances of the impact assessment criteria and/or performance criteria; and

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- (h) a protocol for periodic review of the plan.

*Note: The [Planning](#) Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.*

## Annual Review

4. By the end of March each year, the Applicant [must](#) review the environmental performance of the development for the previous calendar year to the satisfaction of the [Planning](#) Secretary. This review must:
- describe the development (including any rehabilitation) that was carried out in the past calendar year, and the development that is proposed to be carried out over the current calendar year;
  - include a comprehensive review of the monitoring results and complaints records of the development over the past 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 EIS;
  - identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;
  - identify any trends in the monitoring data over the life of the development;
  - identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
  - describe what measures will be implemented over the next year to improve the environmental performance of the development.

## Revision of Strategies, Plans and Programs

5. Within 3 months of:
- the submission of an:
    - annual review under condition 4 above;
    - incident report under condition 7 below;
    - audit report under condition 9 below; or
  - any modification to the conditions of this consent (unless the conditions require otherwise), or
  - the introduction of any NSW government policy regarding voids,
- the Applicant [must](#) review, and if necessary revise, the strategies, plans, and programs required under this consent to the satisfaction of the [Planning](#) Secretary.

Where this review leads to revisions in any such document, then within 4 weeks of the review, unless the [Planning](#) Secretary agrees otherwise, the revised document must be submitted to the [Planning](#) Secretary for approval.

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

## Community Consultative Committee

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

### Notes:

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

## REPORTING

### Incident Notification

7. The Applicant [must](#) immediately notify the Department and any other relevant agencies 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

- 7A. 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

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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 non-compliance.*

## Regular Reporting

8. The Applicant **must** provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.

## AUDITING

### Independent Environmental Audit

9. Within 1 year of the commencement of development under this consent, and every 3 years thereafter, unless the **Planning** 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 conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the **Planning** Secretary;
  - (b) include consultation with the relevant agencies;
  - (c) assess the environmental performance of the development and assess whether it is complying with the requirements in this consent and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals);
  - (d) include an assessment – undertaken by an independent expert whose appointment has been endorsed by **BCD** – of the progress towards implementation of the biodiversity offset strategy, in particular the regeneration of Warkworth Sands Woodland against the detailed performance and completion criteria under the biodiversity management plan (see condition 36 of schedule 3);
  - (e) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and
  - (f) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under the abovementioned approvals.
- Note: This audit team must be led by a suitably qualified auditor and include experts in any field specified by the **Planning** Secretary.*
10. Within 6 weeks of the completion of this audit, unless the **Planning** Secretary agrees otherwise, the Applicant **must** submit a copy of the audit report to the **Planning** Secretary, together with its response to any recommendations contained in the audit report.

## ACCESS TO INFORMATION

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

# CONSOLIDATED CONSENT

## APPENDIX 1 SCHEDULE OF LAND

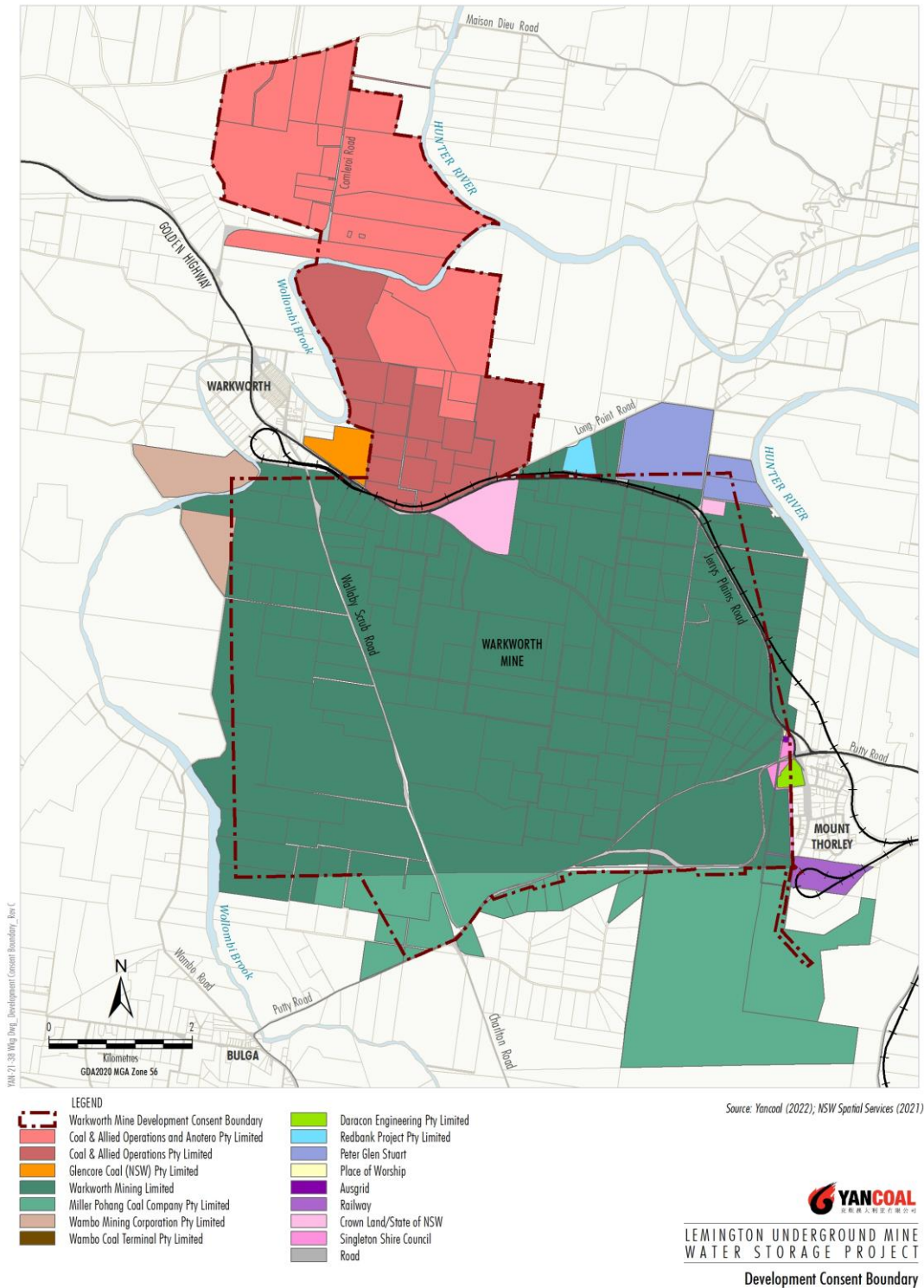


Figure 1: Land Ownership Plan Within the Development Application Area



## CONSOLIDATED CONSENT

| LOT  | DP      | Owner  |
|------|---------|--|
| 2    | 1270162 | Wambo Mining Corporation Pty Limited                     |
| 40   | 587922  | Ausgrid  |
| 1    | 129806  | Coal & Allied Operations Pty Limited                     |
| 1    | 129808  | Coal & Allied Operations Pty Limited                     |
| 146  | 970755  | Coal & Allied Operations Pty Limited                     |
| 2    | 129806  | Coal & Allied Operations Pty Limited                     |
| 135  | 755267  | Coal & Allied Operations Pty Limited                     |
| 4    | 113342  | Coal & Allied Operations Pty Limited                     |
| 143  | 755267  | Coal & Allied Operations Pty Limited                     |
| 142  | 755267  | Coal & Allied Operations Pty Limited                     |
| 3    | 705493  | Crown Land/State of NSW                                  |
| 1    | 1086834 | Crown Land/State of NSW                                  |
| 2011 | 1137289 | Crown Land/State of NSW                                  |
| 372  | 1026537 | Daracon Engineering Pty Limited                          |
| 1    | 43422   | Miller Pohang Coal Company Pty Limited                   |
| 273  | 260663  | Miller Pohang Coal Company Pty Limited                   |
| 271  | 260663  | Miller Pohang Coal Company Pty Limited                   |
| 341  | 612684  | Miller Pohang Coal Company Pty Limited                   |
| 271  | 600747  | Miller Pohang Coal Company Pty Limited                   |
| 1    | 42614   | Miller Pohang Coal Company Pty Limited                   |
| 272  | 600747  | Miller Pohang Coal Company Pty Limited                   |
| 17   | 658927  | Miller Pohang Coal Company Pty Limited                   |
| 61   | 755270  | Miller Pohang Coal Company Pty Limited                   |
| 5    | 247340  | Miller Pohang Coal Company Pty Limited                   |
| 99   | 755270  | Miller Pohang Coal Company Pty Limited                   |
| 6    | 587986  | Miller Pohang Coal Company Pty Limited                   |
| 8    | 247340  | Miller Pohang Coal Company Pty Limited                   |
| 7    | 247340  | Miller Pohang Coal Company Pty Limited                   |
| 9    | 247340  | Miller Pohang Coal Company Pty Limited                   |
| 551  | 569597  | Miller Pohang Coal Company Pty Limited                   |
| 19   | 247339  | Miller Pohang Coal Company Pty Limited                   |
| 2    | 610376  | Miller Pohang Coal Company Pty Limited                   |
| 3    | 42614   | Miller Pohang Coal Company Pty Limited                   |
| 74   | 755267  | Peter Glen Stuart  |
| 126  | 665628  | Peter Glen Stuart  |
| 75   | 755267  | Peter Glen Stuart  |
| 450  | 1119428 | Redbank Project Pty Limited                              |
| 10   | 1121154 | Road   |
| 371  | 1026537 | Singleton Shire Council                                  |
| 5    | 1026900 | Singleton Shire Council                                  |
| 29   | 255730  | Singleton Shire Council                                  |
| 28   | 255730  | Singleton Shire Council                                  |
| 6    | 251238  | State Rail Authority of NSW                              |
| 2    | 602169  | Trustees of Church Property for the Diocese of Newcastle |

## CONSOLIDATED CONSENT

| LOT | DP      | Owner                                |
|-----|---------|--------------------------------------|
| 2   | 1086834 | Wambo Coal Terminal Pty Limited      |
| 451 | 1119428 | Wambo Coal Terminal Pty Limited      |
| 23  | 3030    | Wambo Mining Corporation Pty Limited |
| 3   | 129819  | Warkworth Mining Limited             |
| 1   | 129819  | Warkworth Mining Limited             |
| 2   | 129819  | Warkworth Mining Limited             |
| 272 | 260663  | Warkworth Mining Limited             |
| 5   | 43383   | Warkworth Mining Limited             |
| 36  | 260056  | Warkworth Mining Limited             |
| 35  | 260056  | Warkworth Mining Limited             |
| 11  | 1121154 | Warkworth Mining Limited             |
| 142 | 573290  | Warkworth Mining Limited             |
| 1   | 949066  | Warkworth Mining Limited             |
| 143 | 573290  | Warkworth Mining Limited             |
| 141 | 573290  | Warkworth Mining Limited             |
| 1   | 176095  | Warkworth Mining Limited             |
| 138 | 248186  | Warkworth Mining Limited             |
| 130 | 248186  | Warkworth Mining Limited             |
| 203 | 704466  | Warkworth Mining Limited             |
| 144 | 573290  | Warkworth Mining Limited             |
| 134 | 248186  | Warkworth Mining Limited             |
| 132 | 248186  | Warkworth Mining Limited             |
| 1   | 129822  | Warkworth Mining Limited             |
| 139 | 248186  | Warkworth Mining Limited             |
| 137 | 248186  | Warkworth Mining Limited             |
| 89  | 755267  | Warkworth Mining Limited             |
| 151 | 755267  | Warkworth Mining Limited             |
| 21  | 625709  | Warkworth Mining Limited             |
| 131 | 755267  | Warkworth Mining Limited             |
| 133 | 248186  | Warkworth Mining Limited             |
| 131 | 248186  | Warkworth Mining Limited             |
| 5   | 113342  | Warkworth Mining Limited             |
| 2   | 827333  | Warkworth Mining Limited             |
| 136 | 248186  | Warkworth Mining Limited             |
| 90  | 755267  | Warkworth Mining Limited             |
| 135 | 248186  | Warkworth Mining Limited             |
| 2   | 705493  | Warkworth Mining Limited             |
| 155 | 755267  | Warkworth Mining Limited             |
| 150 | 755267  | Warkworth Mining Limited             |
| 4   | 43383   | Warkworth Mining Limited             |
| 1   | 326245  | Warkworth Mining Limited             |
| 22  | 113342  | Warkworth Mining Limited             |
| 170 | 755267  | Warkworth Mining Limited             |
| 3   | 43383   | Warkworth Mining Limited             |
| 106 | 755267  | Warkworth Mining Limited             |



## CONSOLIDATED CONSENT

| LOT | DP      | Owner                    |
|-----|---------|--------------------------|
| 2   | 43383   | Warkworth Mining Limited |
| 1   | 130276  | Warkworth Mining Limited |
| 2   | 227280  | Warkworth Mining Limited |
| 1   | 227280  | Warkworth Mining Limited |
| 1   | 1041796 | Warkworth Mining Limited |
| 2   | 130264  | Warkworth Mining Limited |
| 2   | 129822  | Warkworth Mining Limited |
| 841 | 531116  | Warkworth Mining Limited |
| 140 | 248186  | Warkworth Mining Limited |
| 3   | 227280  | Warkworth Mining Limited |
| 22  | 625709  | Warkworth Mining Limited |
| 1B  | 37572   | Warkworth Mining Limited |
| 1   | 130264  | Warkworth Mining Limited |
| 1   | 130275  | Warkworth Mining Limited |
| 4   | 658759  | Warkworth Mining Limited |
| 120 | 1089243 | Warkworth Mining Limited |
| 1   | 326244  | Warkworth Mining Limited |
| 47  | 1096589 | Warkworth Mining Limited |
| 1   | 1097294 | Warkworth Mining Limited |
| 2   | 1097294 | Warkworth Mining Limited |
| 1   | 246201  | Warkworth Mining Limited |
| 99  | 755267  | Warkworth Mining Limited |
| 7   | 247820  | Warkworth Mining Limited |
| 3   | 129811  | Warkworth Mining Limited |
| 1   | 129811  | Warkworth Mining Limited |
| 6   | 247820  | Warkworth Mining Limited |
| 2   | 129811  | Warkworth Mining Limited |
| 1   | 129812  | Warkworth Mining Limited |
| 360 | 1135647 | Warkworth Mining Limited |
| 3   | 246201  | Warkworth Mining Limited |
| 2   | 246201  | Warkworth Mining Limited |
| 350 | 1135536 | Warkworth Mining Limited |
| 220 | 1135537 | Warkworth Mining Limited |
| 11  | 246201  | Warkworth Mining Limited |
| 5   | 246201  | Warkworth Mining Limited |
| 2   | 804245  | Warkworth Mining Limited |
| 1   | 129800  | Warkworth Mining Limited |
| 1   | 804245  | Warkworth Mining Limited |
| 1   | 573286  | Warkworth Mining Limited |
| 178 | 755267  | Warkworth Mining Limited |
| 7   | 245850  | Warkworth Mining Limited |
| 4   | 245850  | Warkworth Mining Limited |
| 16  | 113342  | Warkworth Mining Limited |
| 182 | 755267  | Warkworth Mining Limited |
| 9   | 246201  | Warkworth Mining Limited |

## CONSOLIDATED CONSENT

| LOT | DP     | Owner                    |
|-----|--------|--------------------------|
| 129 | 755267 | Warkworth Mining Limited |
| 5   | 245850 | Warkworth Mining Limited |
| 92  | 755267 | Warkworth Mining Limited |
| 48  | 755267 | Warkworth Mining Limited |
| 156 | 755267 | Warkworth Mining Limited |
| 46  | 755267 | Warkworth Mining Limited |
| 130 | 755267 | Warkworth Mining Limited |
| 196 | 755267 | Warkworth Mining Limited |
| 87  | 755267 | Warkworth Mining Limited |
| 144 | 755267 | Warkworth Mining Limited |
| 14  | 113342 | Warkworth Mining Limited |
| 134 | 755267 | Warkworth Mining Limited |
| 1   | 245850 | Warkworth Mining Limited |
| 105 | 755267 | Warkworth Mining Limited |
| 183 | 755267 | Warkworth Mining Limited |
| 189 | 755267 | Warkworth Mining Limited |
| 167 | 755267 | Warkworth Mining Limited |
| 110 | 755267 | Warkworth Mining Limited |
| 137 | 755267 | Warkworth Mining Limited |
| 94  | 755267 | Warkworth Mining Limited |
| 179 | 755267 | Warkworth Mining Limited |
| 8   | 245850 | Warkworth Mining Limited |
| 10  | 246201 | Warkworth Mining Limited |
| 96  | 755267 | Warkworth Mining Limited |
| 93  | 755267 | Warkworth Mining Limited |
| 184 | 755267 | Warkworth Mining Limited |
| 159 | 755267 | Warkworth Mining Limited |
| 173 | 755267 | Warkworth Mining Limited |
| 1   | 43383  | Warkworth Mining Limited |
| 15  | 113342 | Warkworth Mining Limited |
| 97  | 755267 | Warkworth Mining Limited |
| 111 | 755267 | Warkworth Mining Limited |
| 132 | 755267 | Warkworth Mining Limited |
| 157 | 755267 | Warkworth Mining Limited |
| 95  | 755267 | Warkworth Mining Limited |
| 3   | 245850 | Warkworth Mining Limited |
| 1   | 755267 | Warkworth Mining Limited |
| 103 | 755267 | Warkworth Mining Limited |
| 2   | 245850 | Warkworth Mining Limited |
| 6   | 113342 | Warkworth Mining Limited |
| 2   | 129799 | Warkworth Mining Limited |
| 18  | 113342 | Warkworth Mining Limited |
| 168 | 755267 | Warkworth Mining Limited |
| 8   | 246201 | Warkworth Mining Limited |
| 6   | 245850 | Warkworth Mining Limited |

## CONSOLIDATED CONSENT

| LOT | DP      | Owner                    |
|-----|---------|--------------------------|
| 13  | 113342  | Warkworth Mining Limited |
| 200 | 755267  | Warkworth Mining Limited |
| 180 | 755267  | Warkworth Mining Limited |
| 177 | 755267  | Warkworth Mining Limited |
| 10  | 113342  | Warkworth Mining Limited |
| 7   | 113342  | Warkworth Mining Limited |
| 17  | 113342  | Warkworth Mining Limited |
| 1   | 129799  | Warkworth Mining Limited |
| 91  | 755267  | Warkworth Mining Limited |
| 5   | 248570  | Warkworth Mining Limited |
| 102 | 755267  | Warkworth Mining Limited |
| 152 | 755267  | Warkworth Mining Limited |
| 1   | 248570  | Warkworth Mining Limited |
| 104 | 755267  | Warkworth Mining Limited |
| 197 | 657482  | Warkworth Mining Limited |
| 4   | 248570  | Warkworth Mining Limited |
| 2   | 248570  | Warkworth Mining Limited |
| 2   | 735566  | Warkworth Mining Limited |
| 11  | 113342  | Warkworth Mining Limited |
| 12  | 246201  | Warkworth Mining Limited |
| 161 | 755267  | Warkworth Mining Limited |
| 172 | 755267  | Warkworth Mining Limited |
| 164 | 755267  | Warkworth Mining Limited |
| 191 | 755267  | Warkworth Mining Limited |
| 63  | 755267  | Warkworth Mining Limited |
| 16  | 755267  | Warkworth Mining Limited |
| 12  | 113342  | Warkworth Mining Limited |
| 187 | 755267  | Warkworth Mining Limited |
| 6   | 248570  | Warkworth Mining Limited |
| A   | 182301  | Warkworth Mining Limited |
| 7   | 248570  | Warkworth Mining Limited |
| 27  | 755267  | Warkworth Mining Limited |
| 165 | 755267  | Warkworth Mining Limited |
| 190 | 755267  | Warkworth Mining Limited |
| 166 | 657481  | Warkworth Mining Limited |
| 8   | 1026900 | Warkworth Mining Limited |
| 154 | 755267  | Warkworth Mining Limited |
| 20  | 113342  | Warkworth Mining Limited |
| 35  | 755270  | Warkworth Mining Limited |
| 1   | 705493  | Warkworth Mining Limited |
| 136 | 755267  | Warkworth Mining Limited |
| 21  | 113342  | Warkworth Mining Limited |
| 71  | 755270  | Warkworth Mining Limited |
| 162 | 755267  | Warkworth Mining Limited |
| 185 | 755267  | Warkworth Mining Limited |

## CONSOLIDATED CONSENT

| LOT  | DP      | Owner  |
|------|---------|--|
| 19   | 113342  | Warkworth Mining Limited                                 |
| B    | 182301  | Warkworth Mining Limited                                 |
| 12   | 1121154 | Warkworth Mining Limited                                 |
| 26   | 755270  | Warkworth Mining Limited                                 |
| 25   | 755270  | Warkworth Mining Limited                                 |
| 24   | 755270  | Warkworth Mining Limited                                 |
| 1    | 610376  | Warkworth Mining Limited                                 |
| 1    | 1043120 | Glencore Coal (NSW) Pty Limited                          |
| 3    | 783484  | Coal & Allied Operations Pty Limited                     |
| 145  | 755267  | Coal & Allied Operations Pty Limited                     |
| 122  | 755267  | Coal & Allied Operations Pty Limited                     |
| 108  | 755267  | Coal & Allied Operations Pty Limited                     |
| 119  | 755267  | Coal & Allied Operations Pty Limited                     |
| 4    | 783484  | Coal & Allied Operations Pty Limited                     |
| 5    | 783484  | Coal & Allied Operations Pty Limited                     |
| 1    | 48592   | Coal & Allied Operations Pty Limited                     |
| 141  | 753792  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 1    | 592598  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 1    | 997228  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 194  | 755267  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 121  | 755267  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 13   | 247239  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 16   | 247239  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 14   | 247239  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 1420 | 586339  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 2    | 719879  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 1    | 182139  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 1    | 822177  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 1    | 105943  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 1    | 657394  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 1    | 1103396 | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 5    | 720643  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 122  | 753792  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 15   | 247239  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 12   | 247239  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| B    | 386100  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| A    | 386100  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 112  | 755267  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 195  | 755267  | Coal & Allied Operations Pty Limited                     |
| 118  | 755267  | Coal & Allied Operations Pty Limited                     |
| 128  | 755267  | Coal & Allied Operations Pty Limited                     |
| 140  | 753792  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 1    | 48591   | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |
| 1    | 251877  | Coal & Allied Operations Pty Ltd And Anotero Pty Limited |

## CONSOLIDATED CONSENT

| Name                    | Description  |
|-------------------------|--|
| Singleton Shire Council | Various Council and Crown Public and Unformed Roads located within, between or adjacent to the above Parcels of Land                 |
| Freehold                | Any Unidentified Historical Title Residues located within, between or adjacent to the above Parcels of Land                          |
| Crown                   | Creeks, Brooks or Streams located within, between or adjacent to the above Parcels of Land   |
| Crown                   | Any Unidentified Crown Land or Crown Land Historical Title Residues located within, between or adjacent to the above Parcels of Land |



# CONSOLIDATED CONSENT

## APPENDIX 2 DEVELOPMENT LAYOUT PLANS

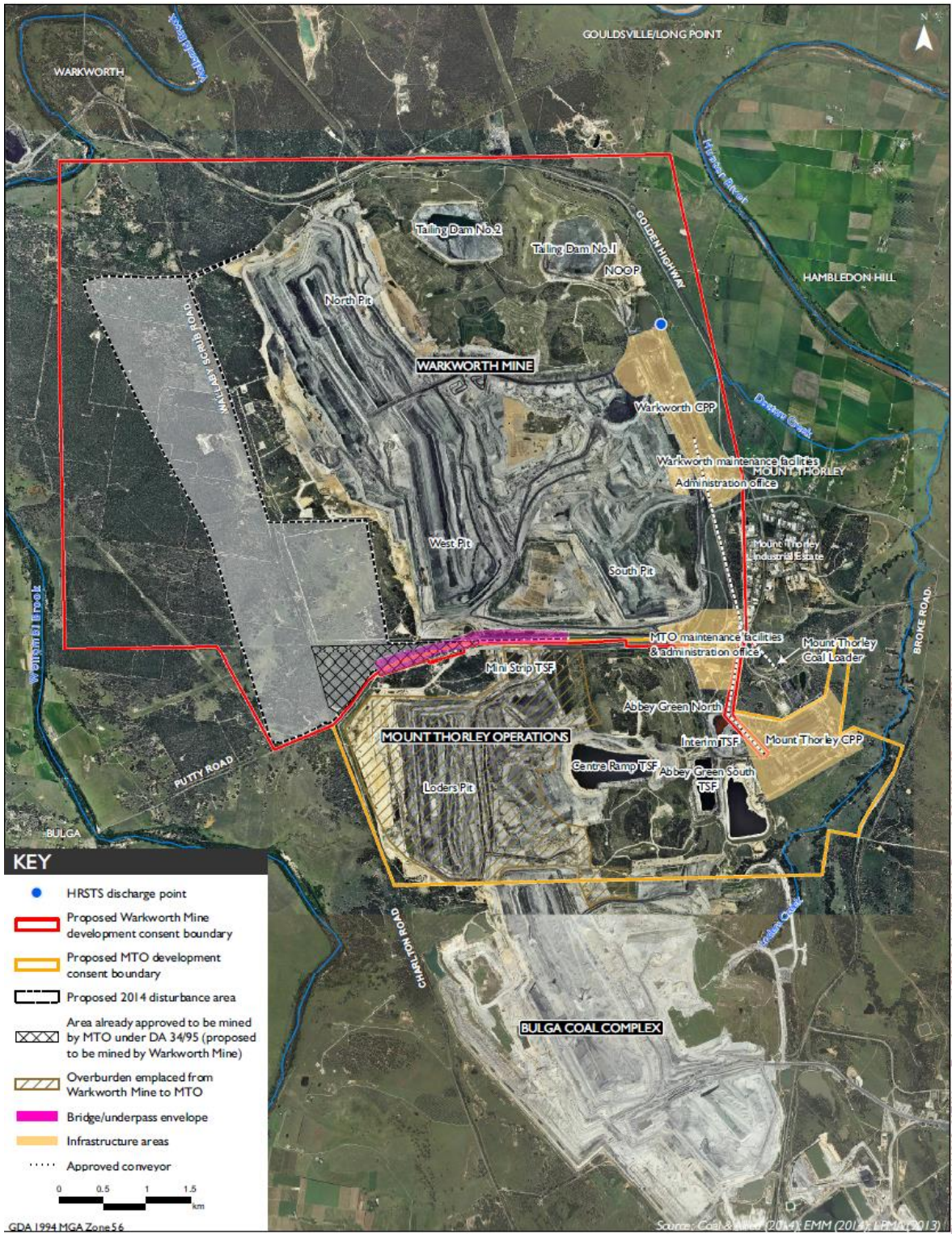


Figure 3: General Development Layout



# CONSOLIDATED CONSENT

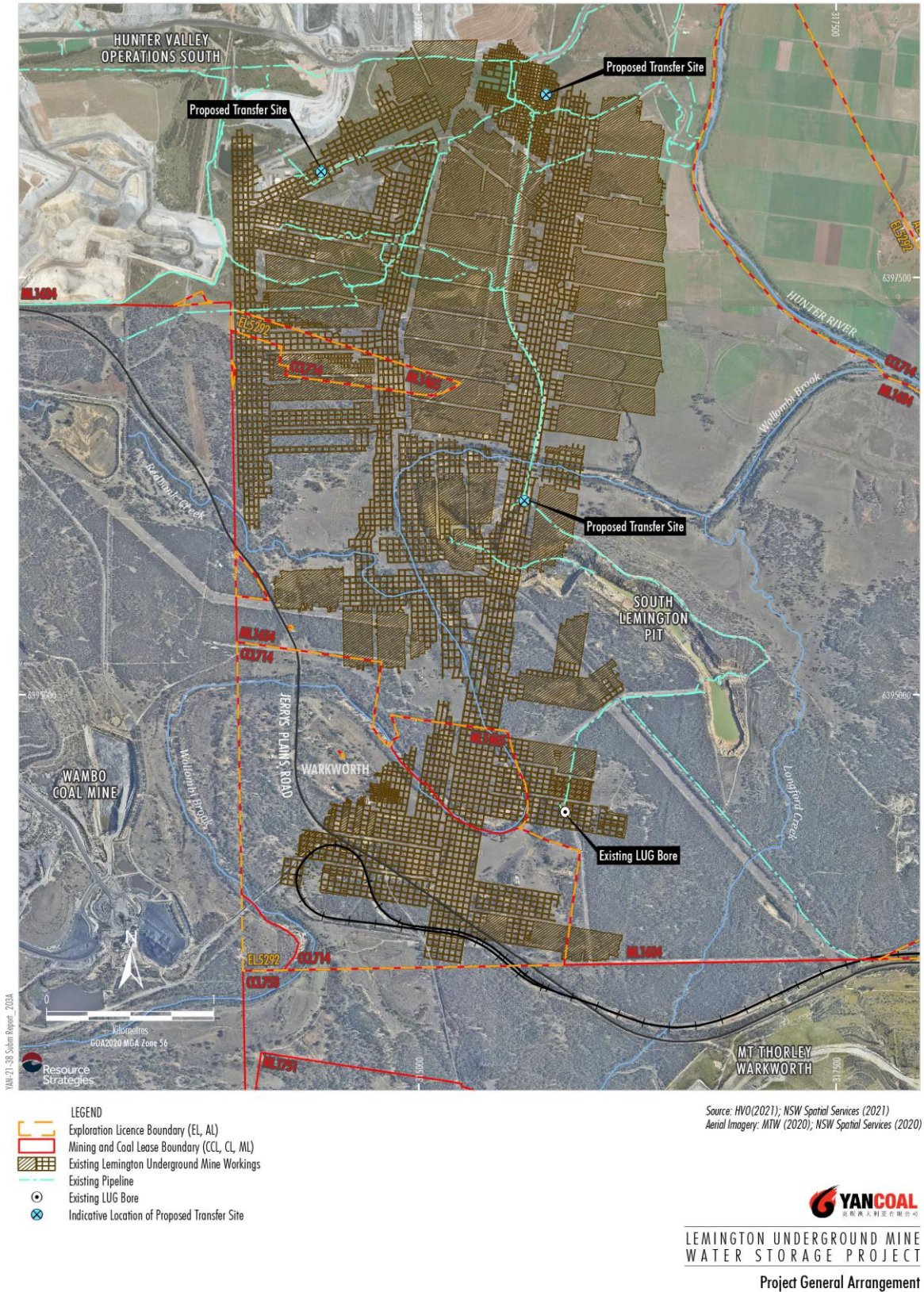


Figure 3A: General Development Layout – Lemington Underground Mine Workings



# CONSOLIDATED CONSENT

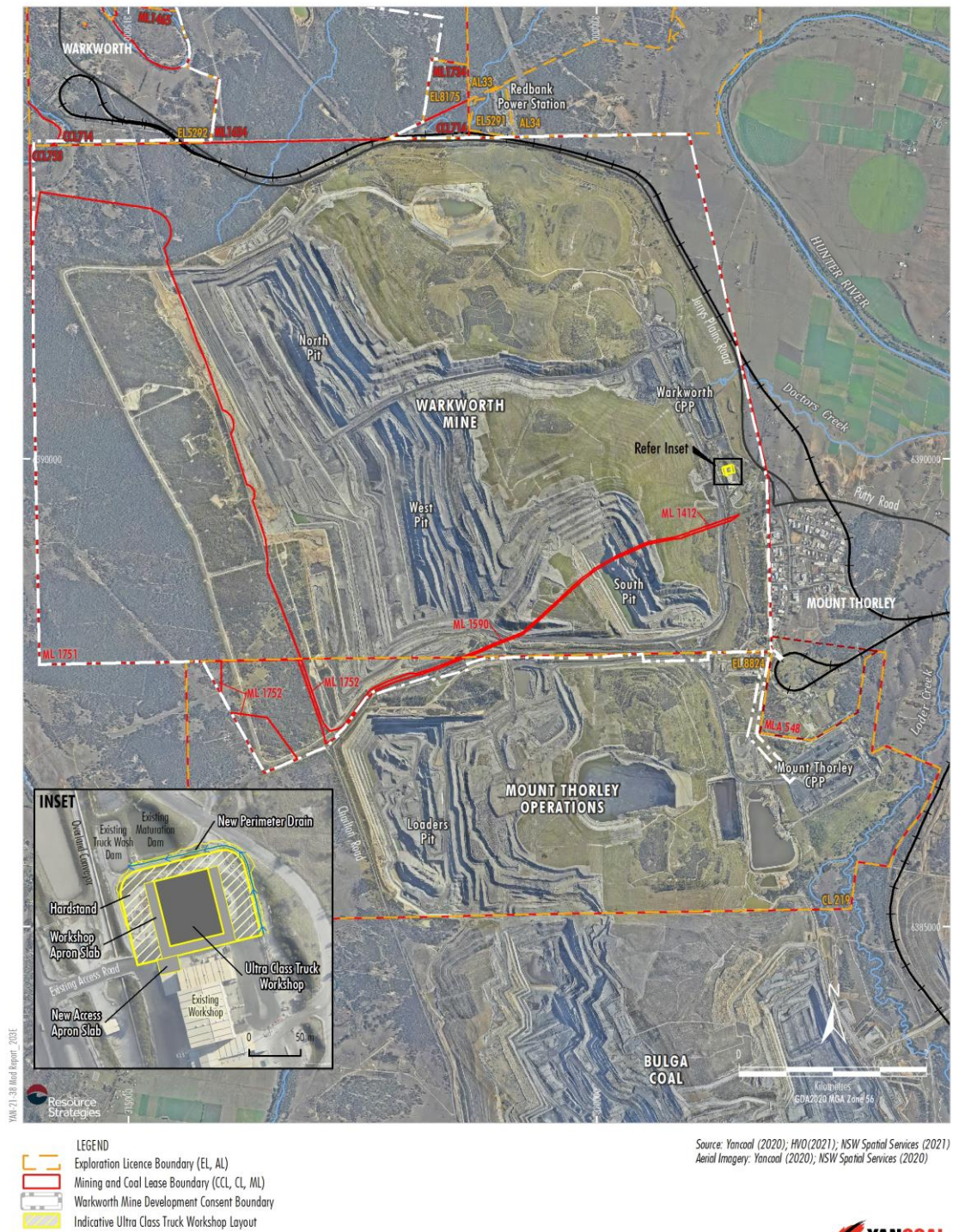
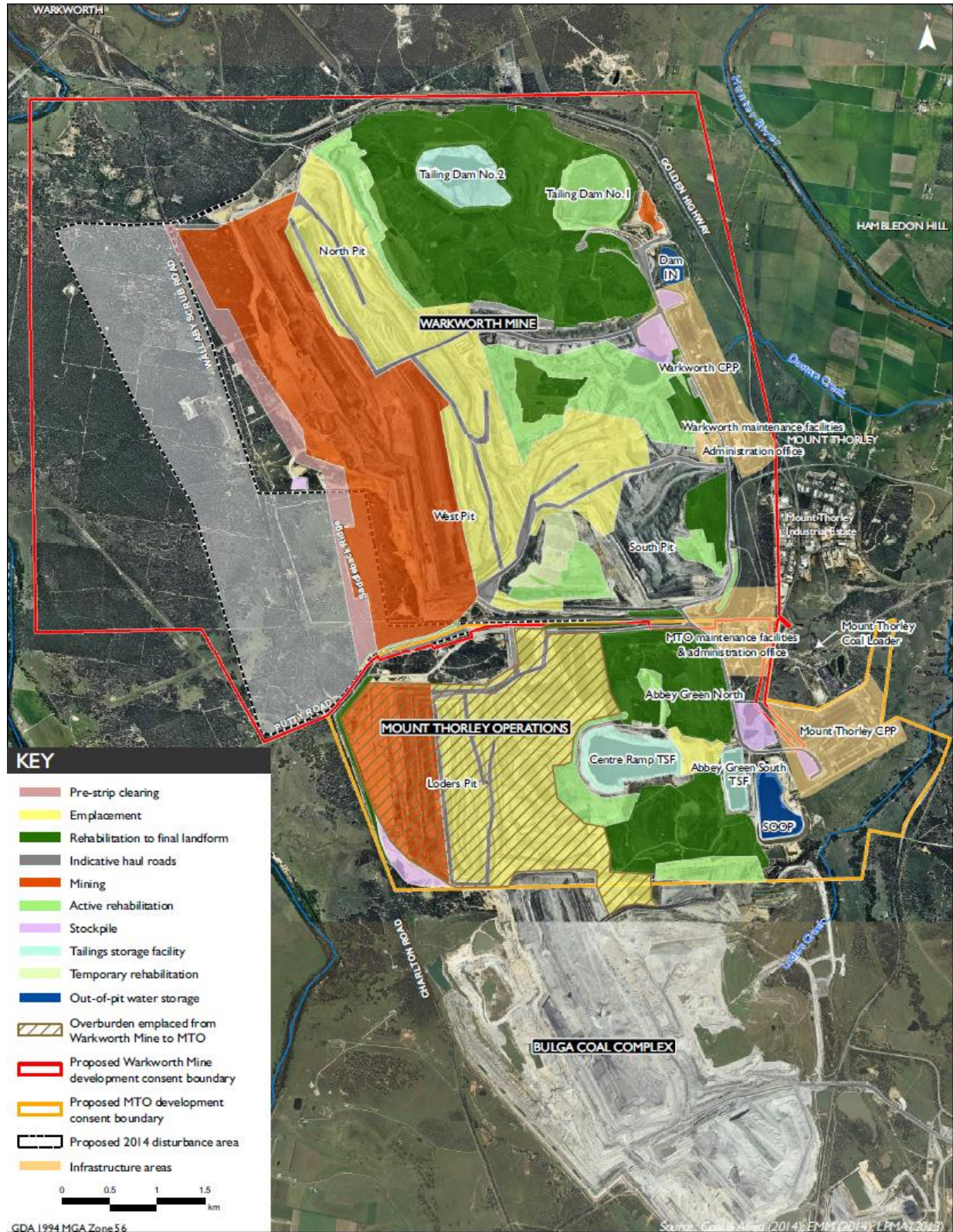


Figure 3B: General Development Layout – Ultra Class Truck Workshop



# CONSOLIDATED CONSENT



**COAL & ALLIED**  
Managed by Rio Tinto Coal Australia

Indicative Year 3 mine plan  
Warkworth Continuation 2014  
Environmental Impact Statement  
Figure 2.7

Figure 4: Conceptual Mine Plan – Year 3



# CONSOLIDATED CONSENT

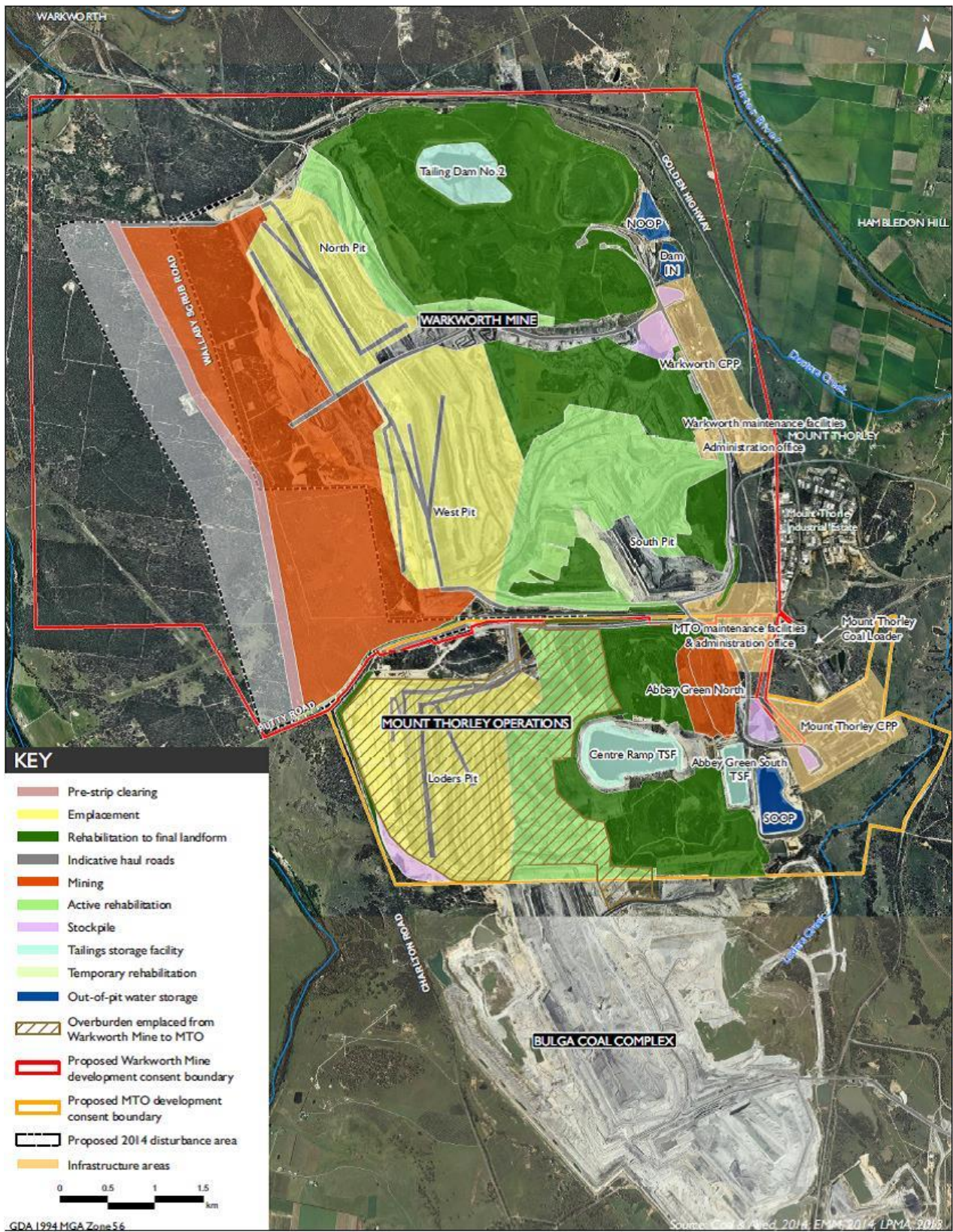
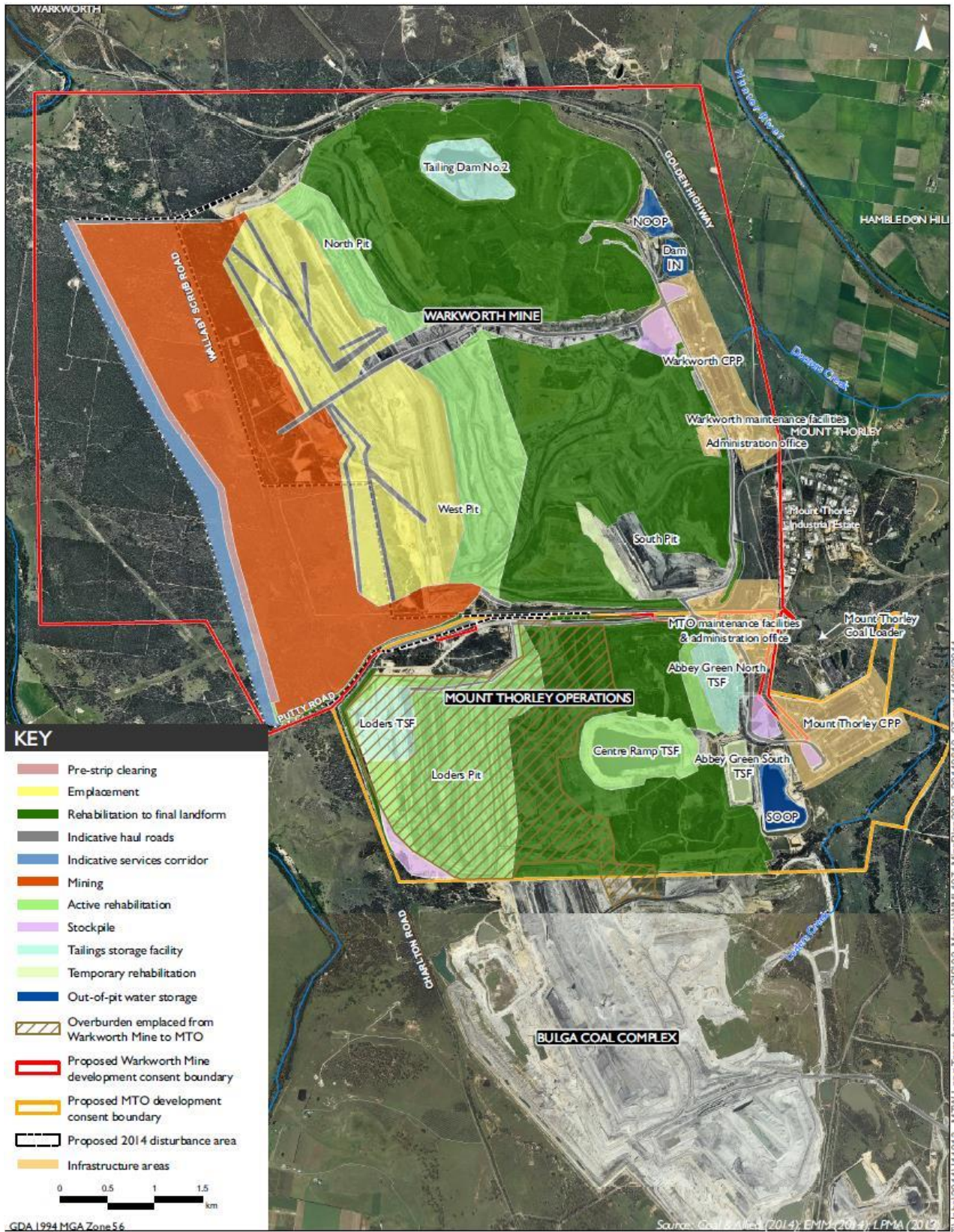


Figure 5: Conceptual Mine Plan - Year 9



# CONSOLIDATED CONSENT

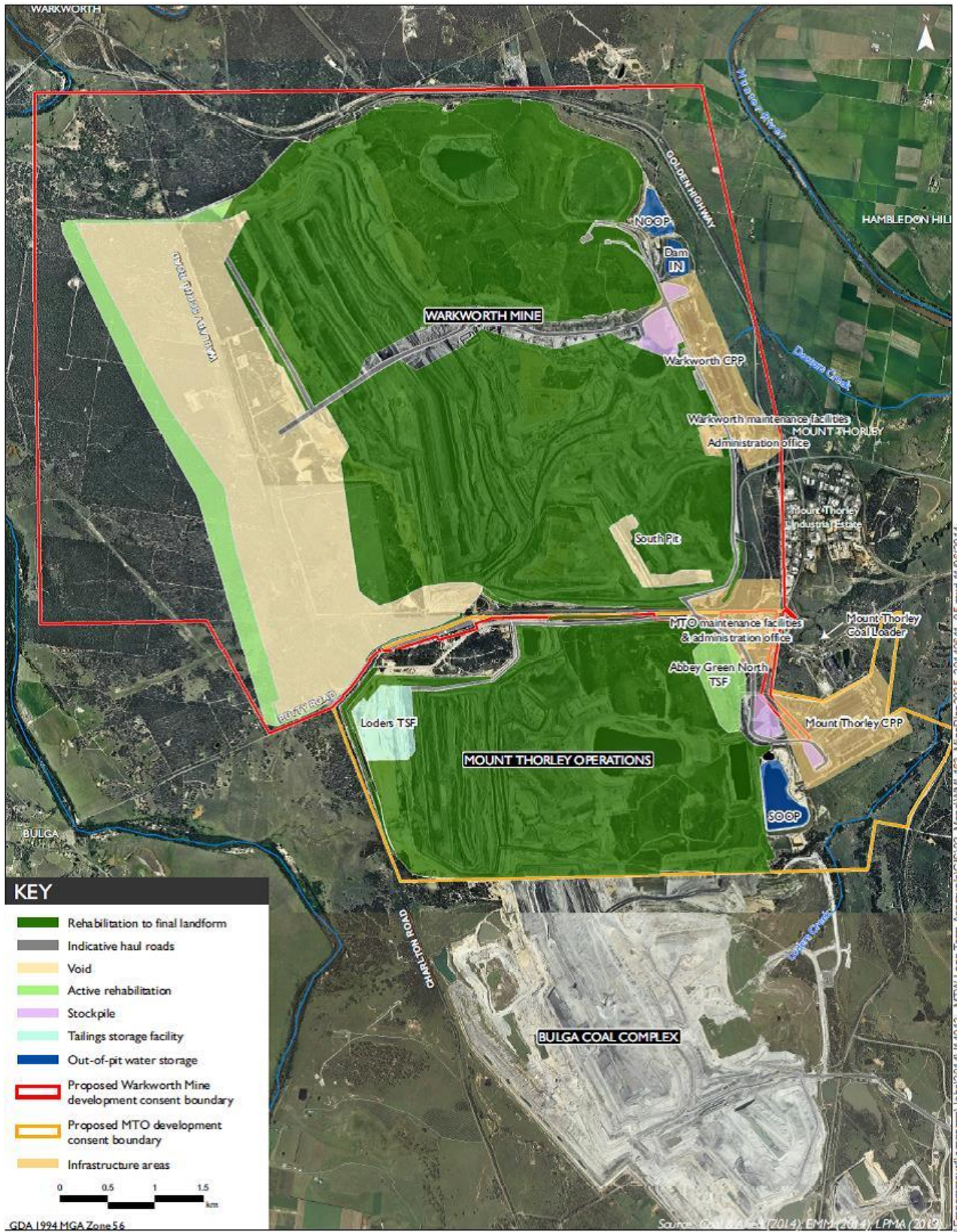


Indicative Year 14 mine plan  
Warkworth Continuation 2014  
Environmental Impact Statement  
Figure 2.9

Figure 6: Conceptual Mine Plan – Year 14



# CONSOLIDATED CONSENT



Indicative Year 21 mine plan  
Warkworth Continuation 2014  
Environmental Impact Statement  
Figure 2.10

Figure 7: Conceptual Mine Plan – Year 21



## APPENDIX 3

### LAND OWNERSHIP PLANS

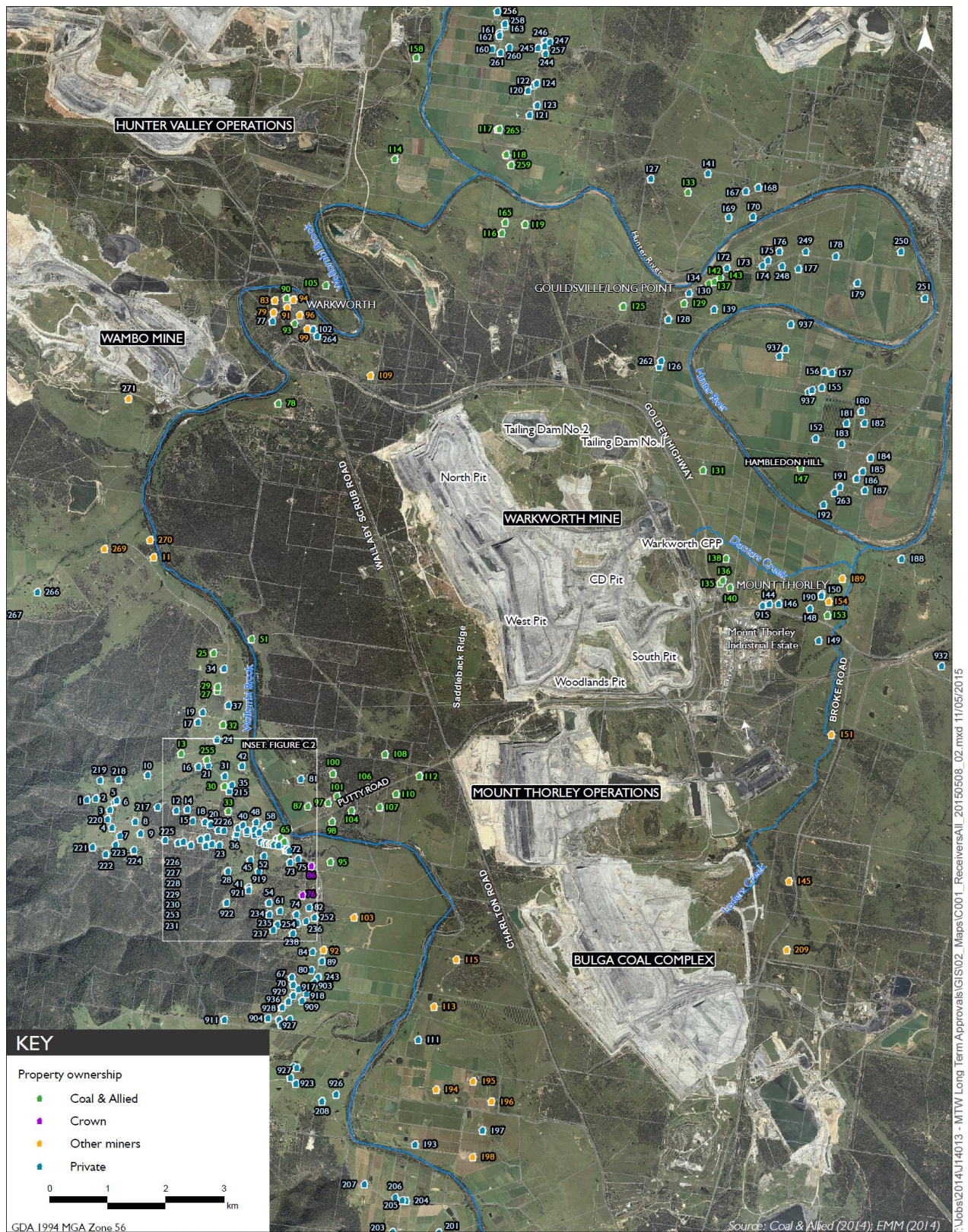


Figure 8: Surrounding Residences



# CONSOLIDATED CONSENT

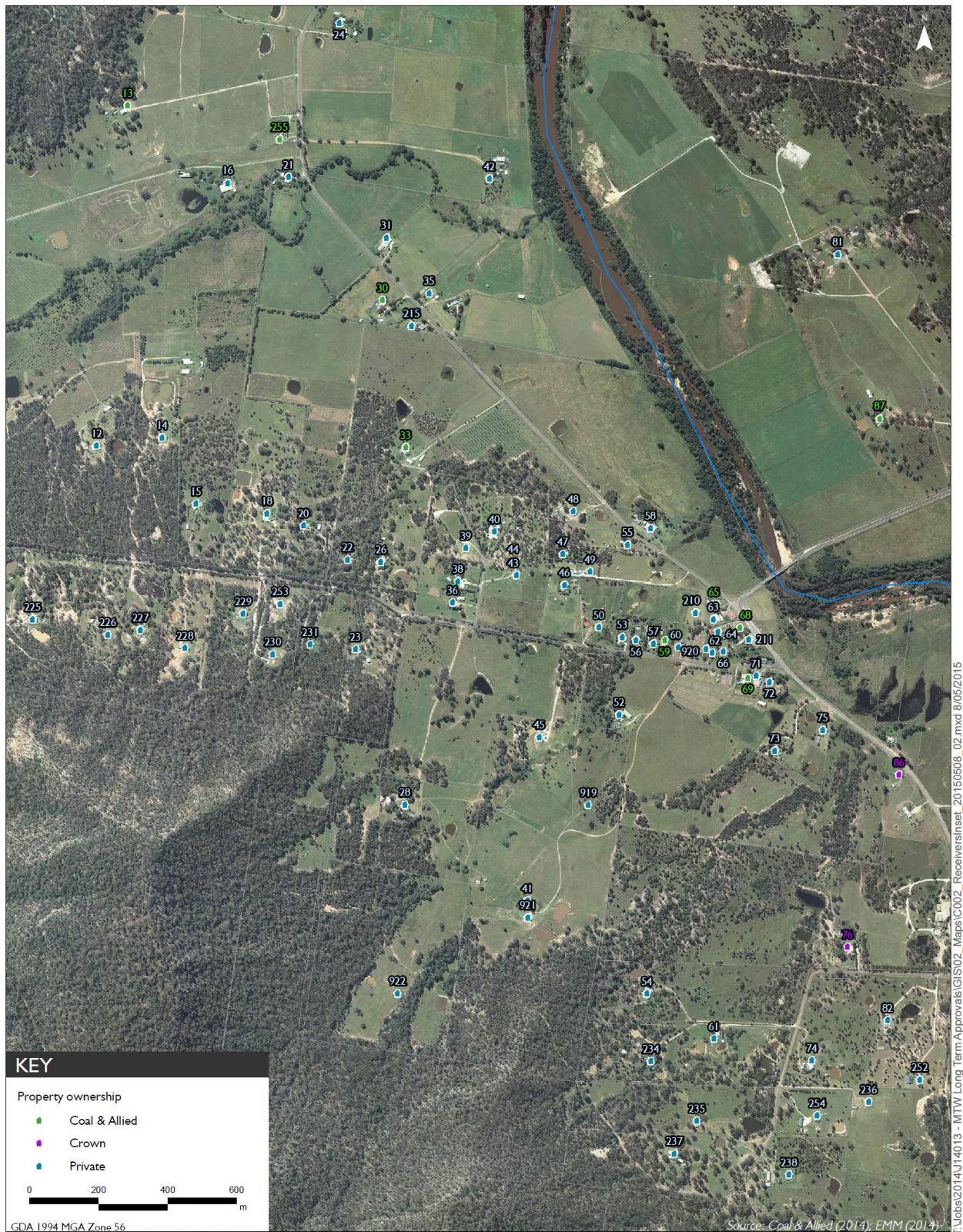


Figure 9: Surrounding Residences – South West (Bulga)



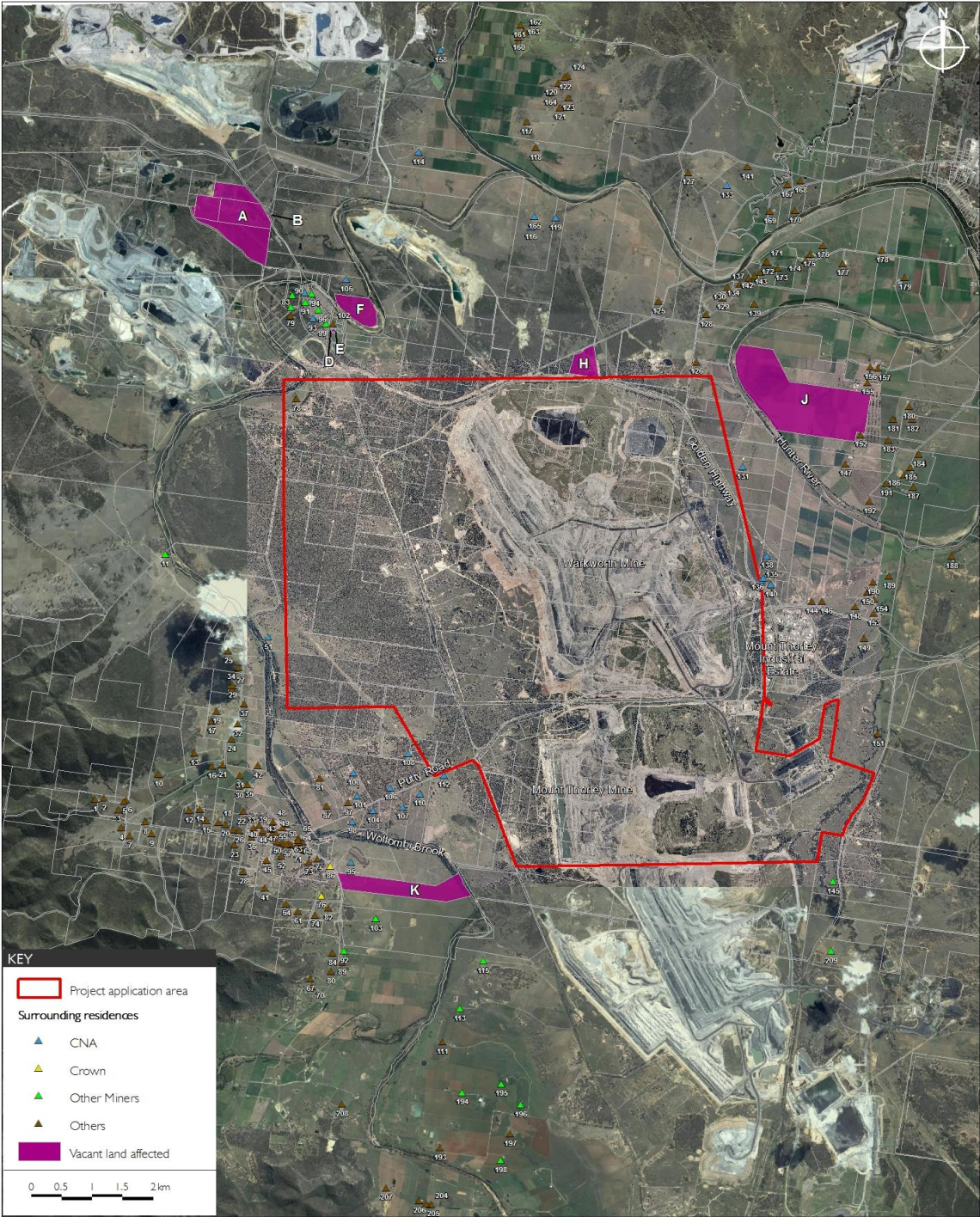


Figure 10: Vacant Land

## CONSOLIDATED CONSENT

| Assessment location ID | Property owner                                 |
|------------------------|--|
| 1                      | Judith Leslie                                  |
| 2                      | Shayne Aaron Currie                            |
| 3                      | Charleroi Pty Limited                          |
| 4                      | Graeme O'Brien & Susann Florence O'Brien       |
| 5                      | Daniel Bruce Jones                             |
| 6                      | Russell James Doidge, Trinette Louise Reid     |
| 7                      | Darral Keith Margery & Annette Gaye Margery    |
| 8                      | Laurence Fletcher, Margaret Ann Fletcher       |
| 9                      | Donald Bruce Roser                             |
| 10                     | Andrew Mark Robey, Kim Luanne Robey            |
| 11                     | Wambo Mining Corporation Pty. Limited          |
| 12                     | Ronald Alexander Corino, Pauline Rayner        |
| 13                     | Warkworth Mining Limited                       |
| 14                     | Karin Margaret Hunt                            |
| 15                     | William Lindsay Gordon Slaney, Peta Slaney     |
| 16                     | Leona Ann Williams                             |
| 17                     | George David Lianos, Honor Claire Lianos       |
| 18                     | Barry John Anderson, Melissa Gai Anderson      |
| 19                     | Denis Cyril Maizey, Elaine Margaret Maizey     |
| 20                     | Gregory William Banks, Marion Elizabeth Banks  |
| 21                     | Gregory William Banks, Marion Elizabeth Banks  |
| 22                     | Elizabeth Mackenzie                            |
| 23                     | Peter Jason Kolatchew, Heidi Kolatchew         |
| 24                     | Ronald Garry Bailey, Fiona Susan Bailey        |
| 25                     | William George Joseph Lambkin, Dawn Lambkin*   |
| 26                     | Barbara Gae Harrison, Trevor Eric Harrison     |
| 27                     | Warkworth Mining Limited                       |
| 28                     | Hubert George Upward                           |
| 29                     | Warkworth Mining Limited                       |
| 30                     | Warkworth Mining Limited                       |
| 31                     | Gregory Malcolm Caban                          |
| 32                     | Warkworth Mining Limited                       |
| 33                     | Warkworth Mining Limited                       |
| 34                     | Allan Clyde Lepisto, Nerida Lepisto            |
| 35                     | Lawrence Malcolm Caban, Rhonda Beryl Caban     |
| 36                     | Raymond Carl Powell                            |
| 37                     | Gregory Paul Crowe                             |
| 38                     | Benjamin John Street, Jami Ann Street          |
| 39                     | Gregory John Mcnaught                          |
| 40                     | Margaret Player, John MacLachlan Player        |
| 41                     | Hubert George Upward                           |
| 42                     | Mark Anthony Lancaster, Debbie Marie Lancaster |

## CONSOLIDATED CONSENT

| Assessment location ID | Property owner  |
|------------------------|---|
| 43                     | Geoffrey Allen Burgess, Betty Joy Burgess               |
| 44                     | Barry Fogwell   |
| 45                     | Adam Charles Cameron                                    |
| 46                     | Jason Phillip Horn                                      |
| 47                     | Philip Adamthwaite                                      |
| 48                     | Brett James Gallagher, Rebecca Louise Gallagher         |
| 49                     | John Thompson, Delwyn Kay Jackson                       |
| 50                     | Bradley Richard Sales, Sharon Ann Bellamy               |
| 51                     | Warkworth Mining Limited                                |
| 52                     | Stewart James Mitchell, Marie Clare Mitchell            |
| 53                     | Robert McLaughlin                                       |
| 54                     | Christopher Stanley Neville & Elizabeth Ann Neville     |
| 55                     | Robert John Evans                                       |
| 56                     | Leonard Walter Mclachlan, Noelene Rita Mclachlan        |
| 57                     | Paul William Harris, Tracey Anne Swindail               |
| 58                     | David Andrew Gregory                                    |
| 59                     | Warkworth Mining Limited                                |
| 60                     | Vaughan Thomas Cagney, Candice Rose Albert              |
| 61                     | Darrell Stanley Kaizer                                  |
| 62                     | Dwi Octaviani   |
| 63                     | Margueriette Ann Henneberry, Paul Andrew Burgess        |
| 64                     | Dusko Dragicevic, Milan Dragicevic                      |
| 65                     | Warkworth Mining Limited                                |
| 66                     | Michael Vivian Bendall, Sue-Ellen Bendall               |
| 67                     | Michael Shane Dawson & Suzana Dawson                    |
| 68                     | Warkworth Mining Limited                                |
| 69                     | Warkworth Mining Limited                                |
| 70                     | Peter Francis Ritchie And Fiona Jennifer Ritchie        |
| 71                     | Robert Ian Hedley, Jan Maree Louis                      |
| 72                     | Frank Henry Turnbull                                    |
| 73                     | Phillip Joseph Reid, Carol Reid                         |
| 74                     | Ronald Guy Godyn, Anne-Marie Godyn                      |
| 75                     | Lindsay Robert Smith, Jillian Maree Smith               |
| 76                     | The State Of New South Wales                            |
| 77                     | William Joseph Kelly, Marie Joyce Kelly, Lawrence Kelly |
| 78                     | Warkworth Mining Limited                                |
| 79                     | Wambo Mining Corporation Pty. Limited                   |
| 80                     | Dimitrious Vikas & Joy Mary Vikas                       |
| 81                     | Agl Energy Limited                                      |
| 82                     | Stephen Glenn Williamson, Nicole Leanne Highett         |
| 83                     | Xstrata Coal Pty Limited                                |
| 84                     | Mary Veronica Thompson                                  |



## CONSOLIDATED CONSENT

| Assessment location ID | Property owner   |
|------------------------|--|
| 86                     | The State Of New South Wales                                     |
| 87                     | Andre Marc Renaud, Noela Mary Renaud*                            |
| 89                     | Bryan Dudley Medhurst  |
| 90                     | Coal & Allied Operations Pty Limited                             |
| 91                     | Wambo Coal Pty Limited   |
| 92                     | Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited   |
| 93                     | Coal & Allied Operations Pty Limited                             |
| 94                     | Wambo Coal Pty Limited   |
| 95                     | Miller Pohang Coal Company Pty Limited                           |
| 96                     | Wambo Mining Corporation Pty. Limited                            |
| 97                     | Warkworth Mining Limited   |
| 98                     | Miller Pohang Coal Company Pty Limited                           |
| 99                     | Wambo Coal Pty Limited   |
| 100                    | Miller Pohang Coal Company Pty Limited                           |
| 101                    | Miller Pohang Coal Company Pty Limited                           |
| 102                    | Brian Edward Kennedy, John Griffiths (Warkworth Hall)            |
| 103                    | Saxonvale Coal Pty. Limited, Nippon Steel Australia Pty. Limited |
| 104                    | Miller Pohang Coal Company Pty Limited                           |
| 105                    | Coal & Allied Operations Pty Limited                             |
| 106                    | Miller Pohang Coal Company Pty Limited                           |
| 107                    | Miller Pohang Coal Company Pty Limited                           |
| 108                    | Miller Pohang Coal Company Pty Limited                           |
| 109                    | Xstrata Coal (Nsw) Pty Limited                                   |
| 110                    | Miller Pohang Coal Company Pty Limited                           |
| 111                    | Ian Wallace Russell  |
| 112                    | Miller Pohang Coal Company Pty Limited                           |
| 113                    | Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited   |
| 114                    | Coal & Allied Operations Pty Limited                             |
| 115                    | Saxonvale Coal Pty. Limited, Nippon Steel Australia Pty. Limited |
| 116                    | Coal & Allied Operations Pty Limited                             |
| 117                    | Coal & Allied Operations Pty Limited                             |
| 118                    | Coal & Allied Operations Pty Limited                             |
| 119                    | Coal & Allied Operations Pty Limited                             |
| 120                    | Russell John Wenham, Janelle Susan Wenham                        |
| 121                    | Julie Gai Ernst, Gregory John Ernst                              |
| 122                    | Stephen Douglas Edwards, Terri-Anne Howard, Joselyn Vida Clifton |
| 123                    | Neil Robert Nelson, Glenda Joy Nelson                            |
| 124                    | Stephen Douglas Edwards, Terri-Anne Howard, Joselyn Vida Clifton |
| 125                    | Coal & Allied Operations Pty Limited                             |
| 126                    | Peter Glen Stuart  |
| 127                    | Noel Francis Riley, Elaine Roslyn Riley                          |
| 128                    | Warren John Welsh, Adam John Young                               |



## CONSOLIDATED CONSENT

| Assessment location ID | Property owner   |
|------------------------|--|
| 129                    | Coal & Allied Operations Pty Limited                             |
| 130                    | Francescantonio Ventra, Joanne Ventra                            |
| 131                    | Warkworth Mining Limited   |
| 133                    | Coal & Allied Operations Pty Limited                             |
| 134                    | Andrew Arthur Barrett, Nicole Maree Kenny                        |
| 135                    | Warkworth Mining Limited   |
| 136                    | Warkworth Mining Limited   |
| 137                    | Coal & Allied Operations Pty Limited                             |
| 138                    | Warkworth Mining Limited   |
| 139                    | Kevin Denis Hartcher, Linda Anne Hartcher                        |
| 140                    | Warkworth Mining Limited   |
| 141                    | Warren Thomas Barry, Lesley Una Barry                            |
| 142                    | Coal & Allied Operations Pty Limited                             |
| 143                    | Coal & Allied Operations Pty Limited                             |
| 144                    | Jason Cyril Rumbel, Rebecca Ruth Rumbel                          |
| 145                    | Saxonvale Coal Pty. Limited, Nippon Steel Australia Pty. Limited |
| 146                    | Paul Henry Russell   |
| 147                    | Warkworth Mining Limited   |
| 148                    | Dorothy Clare Russell  |
| 149                    | Timothy Peter Hedley   |
| 150                    | Keith David Isaac, Sharon Ann Isaac                              |
| 151                    | Bulga Coal Management Pty Limited                                |
| 152                    | Graham Edwin Berry, Elizabeth Anne Berry                         |
| 153                    | Warkworth Mining Limited   |
| 154                    | Bulga Coal Management Pty Limited                                |
| 155                    | Trevor Keith Berry, Graham Edwin Berry                           |
| 156                    | Jean Mary O'Hara   |
| 157                    | Jean Mary O'Hara   |
| 158                    | Coal & Allied Operations Pty Limited                             |
| 160                    | Elizabeth Stuart Bowman  |
| 161                    | Wyoming Holsteins Pty Limited                                    |
| 162                    | Wyoming Holsteins Pty Limited                                    |
| 163                    | Wyoming Holsteins Pty Limited                                    |
| 165                    | Coal & Allied Operations Pty Limited                             |
| 167                    | Nathan James Laing   |
| 168                    | Stuart Francis Nichol Wright, Pamela Lynn Wright                 |
| 169                    | Harold Douglas Hobden  |
| 170                    | John Marcheff  |
| 172                    | John Stuart Gough, Lynette Jean Gough                            |
| 173                    | Michael John Wellard, Faye Denise Wellard                        |
| 174                    | Margaret Anne Neal   |
| 175                    | Bradley John Halter  |

## CONSOLIDATED CONSENT

| Assessment location ID | Property owner   |
|------------------------|--|
| 176                    | Michael Raymond Mapp, Shirley Maree Mapp                       |
| 177                    | Greig Andrew Delaney   |
| 178                    | Craig Ian Flissinger, Catherine Anne Flissinger                |
| 179                    | Tickalara Pty. Limited   |
| 180                    | Bruce Graham Moore   |
| 181                    | David Charles Vassallo, Sheree Ann Vassallo                    |
| 182                    | Robert Francis Holstein And Andrea Terry Holstein              |
| 183                    | Paul Anthony Cavanough, Jacinta Jade Dawkins                   |
| 184                    | Campbell Stuart Ball And Gail Agnes Ball                       |
| 185                    | Leonard Dale Franks  |
| 186                    | Leonard Dale Franks  |
| 187                    | Keith Heuston Pty. Limited                                     |
| 188                    | Comserve (No.932) Pty Ltd                                      |
| 189                    | Bulga Coal Management Pty Limited                              |
| 190                    | Keith David Isaac, Sharon Ann Isaac                            |
| 191                    | Robert John Vidler, Coral May Vidler                           |
| 192                    | Jean Mary O'Hara   |
| 193                    | Robert Kennedy   |
| 194                    | Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited |
| 195                    | Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited |
| 196                    | Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited |
| 197                    | Robert Kennedy   |
| 198                    | Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited |
| 199                    | Adrian Garton, Susan Jean Garton                               |
| 200                    | Karren Anne Mccraw, Kenneth Ian Mccraw                         |
| 201                    | Richard James Owens  |
| 202                    | Richard James Owens  |
| 203                    | Grapemen Holdings Pty Limited                                  |
| 204                    | Brenda Joan Tanner   |
| 205                    | Victoria Ann Foster  |
| 206                    | Theo Poulos, Maria Poulos                                      |
| 207                    | John Stephen Tulloch   |
| 208                    | Cybele Genevieve Orton   |
| 209                    | Saxonvale Coal Pty Limited, Nippon Steel Australia Pty Limited |
| 210                    | Meria Violet Ford  |
| 211                    | Mike Dean Silk, Antoinette Silk                                |
| 215                    | Allan Wayne Louis, Cheryl Anne Louis                           |
| 217                    | Packtron Packaging Pty Limited                                 |
| 218                    | Phillip John Haerse, Elizabeth Rae Haerse                      |
| 219                    | Philip Geoffrey Carroll  |
| 220                    | George Jiri Tlaskal  |
| 221                    | Christina Mary Metlikovec                                      |

## CONSOLIDATED CONSENT

| Assessment location ID | Property owner  |
|------------------------|---|
| 222                    | John Vincent Putland  |
| 223                    | Andrew Glenn Upward   |
| 224                    | Rex Wayne Davis, Heather Anne Davis                           |
| 225                    | Anthony and Trudie Seibel – Barnes                            |
| 226                    | Neale McCallum, Julie Marie McNaughton                        |
| 227                    | Ian Wyn Jones, Karen Michelle Jones                           |
| 228                    | Jason Peter Passlow, Belinda Louise Lee                       |
| 229                    | Maurice Francis Chapman, Nellie Vera Chapman                  |
| 230                    | Paul Dermot Byrne O'Toole, Melissa Jane O'Toole               |
| 231                    | Mark Mcalpin Roser, Nicole Roser                              |
| 234                    | Robert John Bridge, Kylie Terese Bridge                       |
| 235                    | Garrett James Walters & Clare Joanne Gowans                   |
| 236                    | Scott Francis Ryan  |
| 237                    | Leslie Carol Krey   |
| 238                    | Raymond George Caban, Kathryn Louise Caban                    |
| 243                    | John Patrick Cant, Cherie Margaret Cant                       |
| 244                    | Todd Anthony Mills, Sharron Ann Mills                         |
| 245                    | Chriss Ivan Maskey  |
| 246                    | Paul Raymond Burley, Catherine Maree Burley                   |
| 247                    | Tony Zanardi, Sandra Maree Zanardi                            |
| 248                    | Keith Joseph Horne  |
| 249                    | Thomas William Watson, Betty Watson                           |
| 250                    | John Michael Woods  |
| 251                    | Frederick John & Carole Maria Flinn                           |
| 252                    | Jaques Family Investments Pty Limited                         |
| 253                    | Stuart Edward Reakes  |
| 254                    | Peter William Shore & Melanie Louise Shore                    |
| 255                    | Warkworth Mining Limited                                      |
| 256                    | Bruce Eric Moxey, Thea Anne Moxey                             |
| 257                    | Robert John Algie   |
| 258                    | Wyoming Holsteins Pty Limited                                 |
| 259                    | Coal & Allied Operations Pty Limited                          |
| 260                    | Wyoming Holsteins Pty. Limited                                |
| 261                    | Wyoming Holsteins Pty. Limited                                |
| 262                    | Peter Glen Stuart   |
| 263                    | John Klasen, Ruth Anne Klasen                                 |
| 264                    | George Robert Miller (Anglican Church)                        |
| 265                    | Coal & Allied Operations Pty Limited                          |
| 266                    | Ronald Wayne Fenwick  |
| 267                    | Kenneth Max Brosi   |
| 268                    | Kenneth Max Brosi, Julie Anne Brosi & Pauline June Mcloughlin |
| 269                    | Wambo Mining Corporation Pty Limited                          |

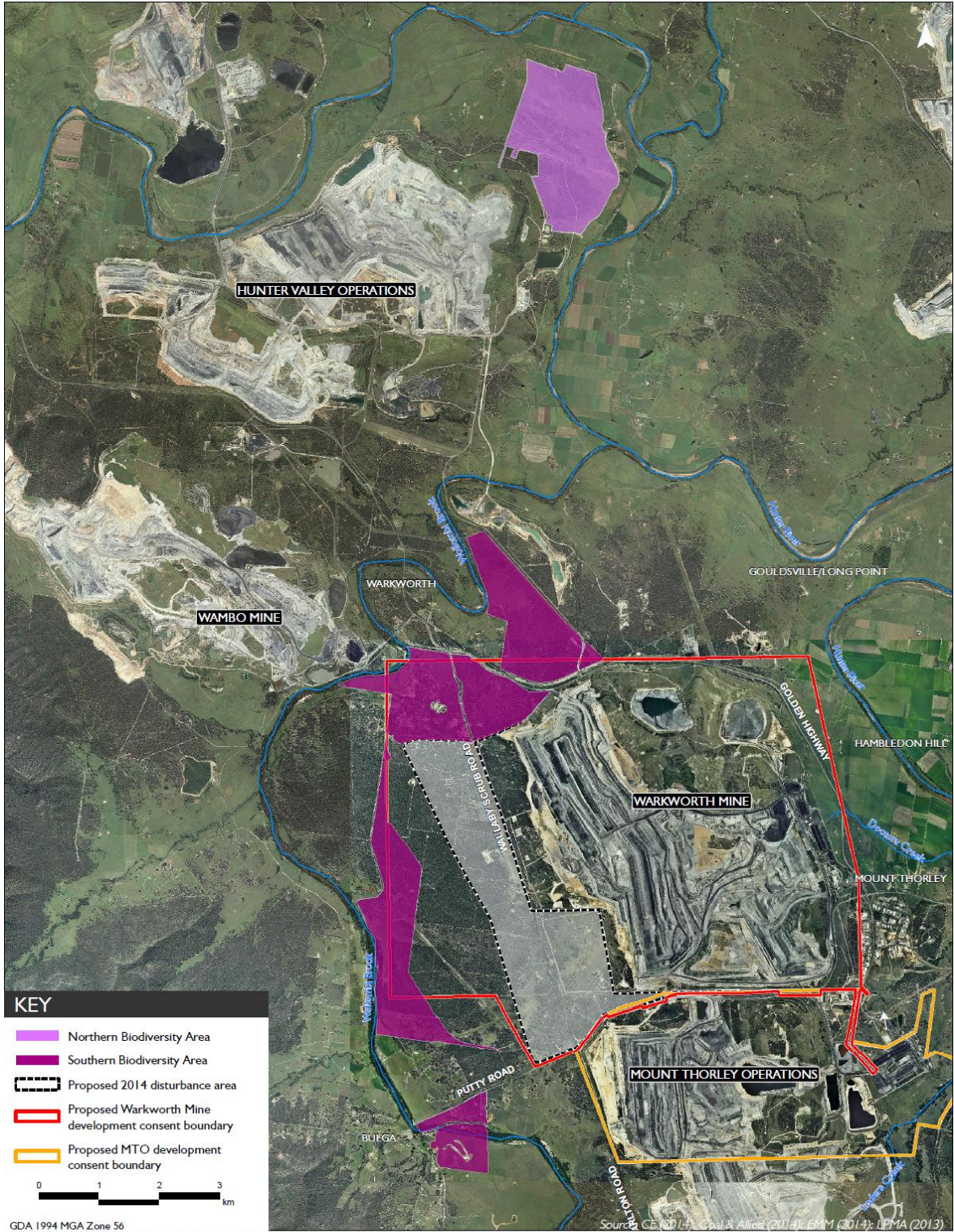
## CONSOLIDATED CONSENT

| Assessment location ID | Property owner                                |
|------------------------|---|
| 270                    | Wambo Mining Corporation Pty Limited          |
| 271                    | Wambo Mining Corporation Pty Limited          |
| 903                    | Adam John Baker                               |
| 904                    | Allan Mark Brasington, Judith Anne Brasington |
| 905                    | Cameron Michael Turner, Melissa Jayne Harris  |
| 909                    | Emanuel Victor Vassallo                       |
| 911                    | Gary Dale Harris                              |
| 915                    | Jason Cyril Rumbel, Rebecca Ruth Rumbel       |
| 917                    | John Robert Lamb                              |
| 918                    | Joseph Vassallo, Doris Vassallo               |
| 919                    | Kenneth Neil Cameron                          |
| 920                    | Lindsay Gordon Harris, Jillian May Ferguson   |
| 921                    | Melanie Caban, Keiran Lionel Caban            |
| 922                    | Melanie Evelyn Upward                         |
| 923                    | Michelle Maria Brennan                        |
| 926                    | Paul William Mackay, Suzanne Elizabeth Mackay |
| 927                    | Phillip John Gunter, Leona Mary Gunter        |
| 928                    | Sarah Elizabeth Purser, Stirling Owen Keayes  |
| 929                    | Simon James Beavis                            |
| 932                    | Stephen Dennis Tipping                        |
| 936                    | Thomas Charles Jackson, Susan Gai Jackson     |
| 937                    | Trevor Keith Berry, Graham Edwin Berry        |



# CONSOLIDATED CONSENT

## APPENDIX 4 DIRECT LAND-BASED BIODIVERSITY OFFSETS



Location of Northern and Southern Biodiversity Areas  
Warkworth Continuation 2014  
Response to Submissions  
Figure 2.10

Figure 11: Location of Northern and Southern Biodiversity Areas



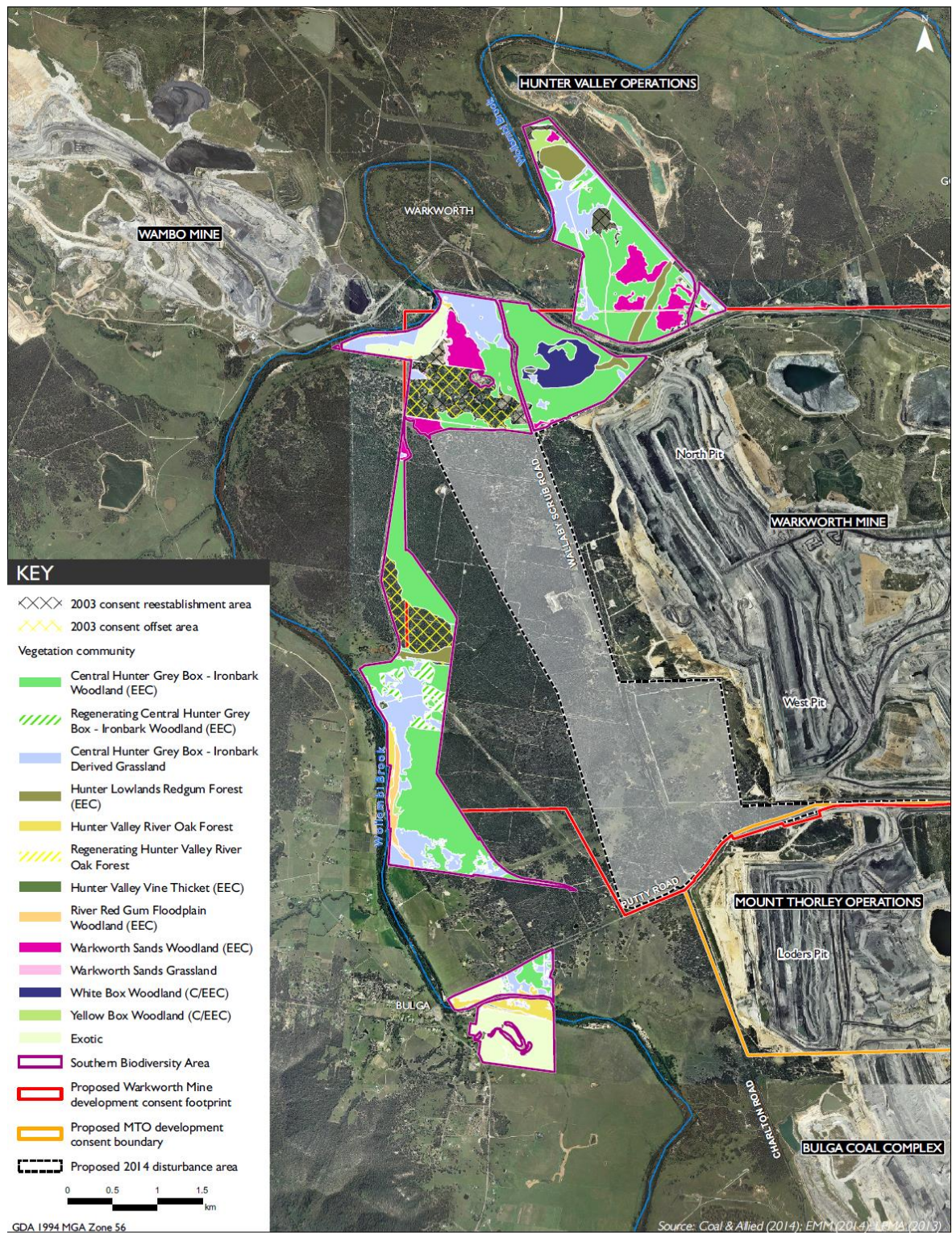


Figure 12: Vegetation Communities in the Southern Biodiversity Area



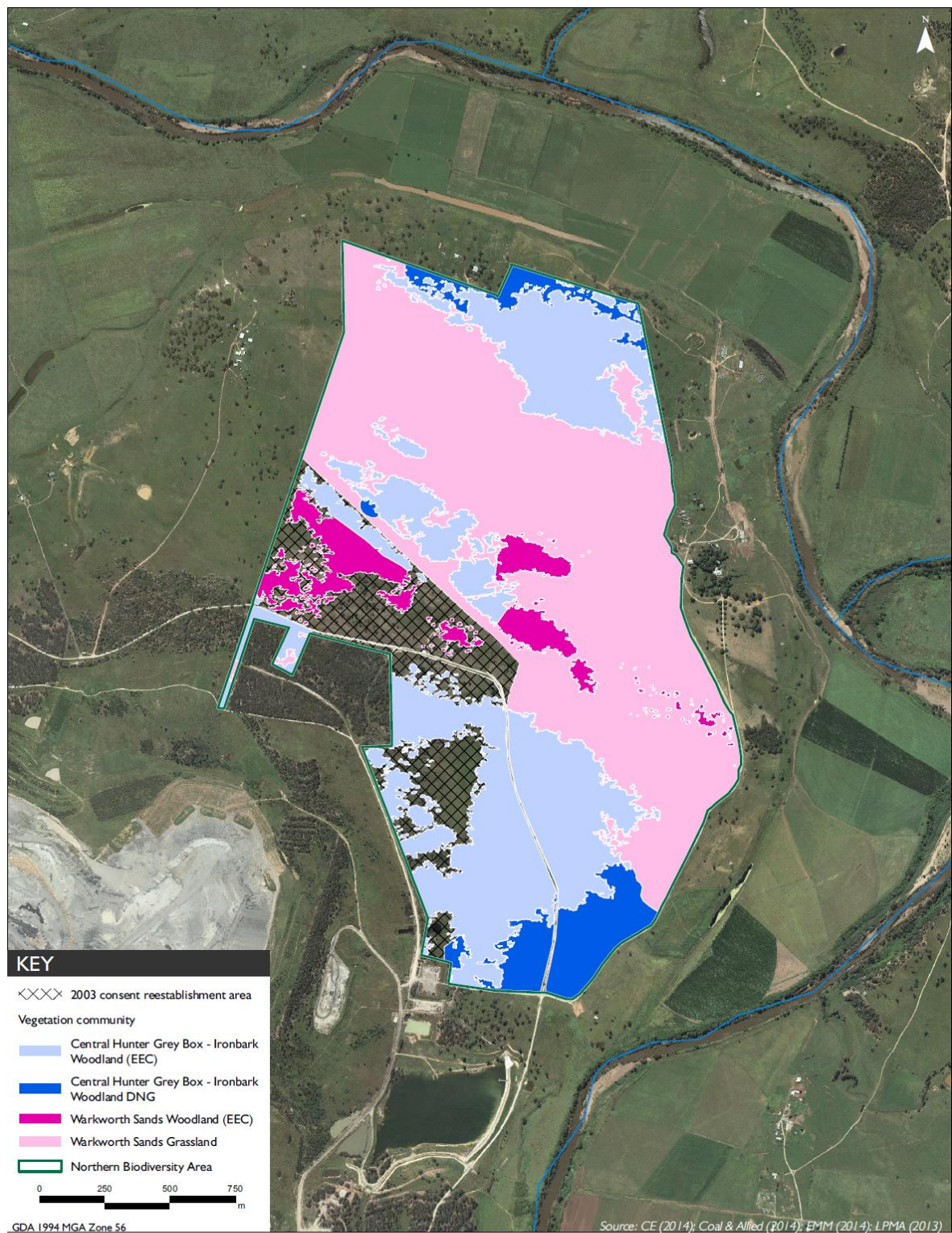
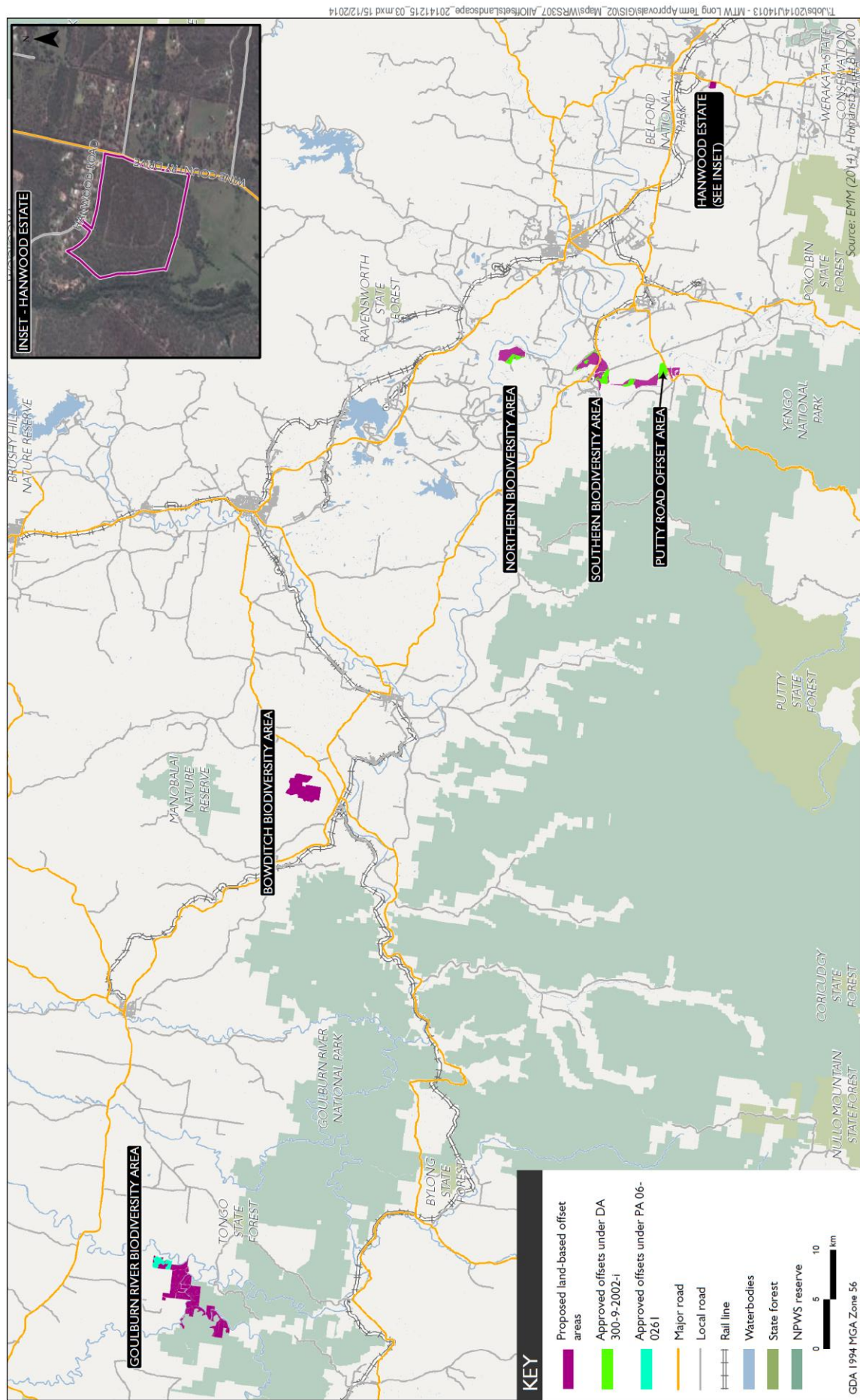


Figure 13: Vegetation Communities in the Northern Biodiversity Area



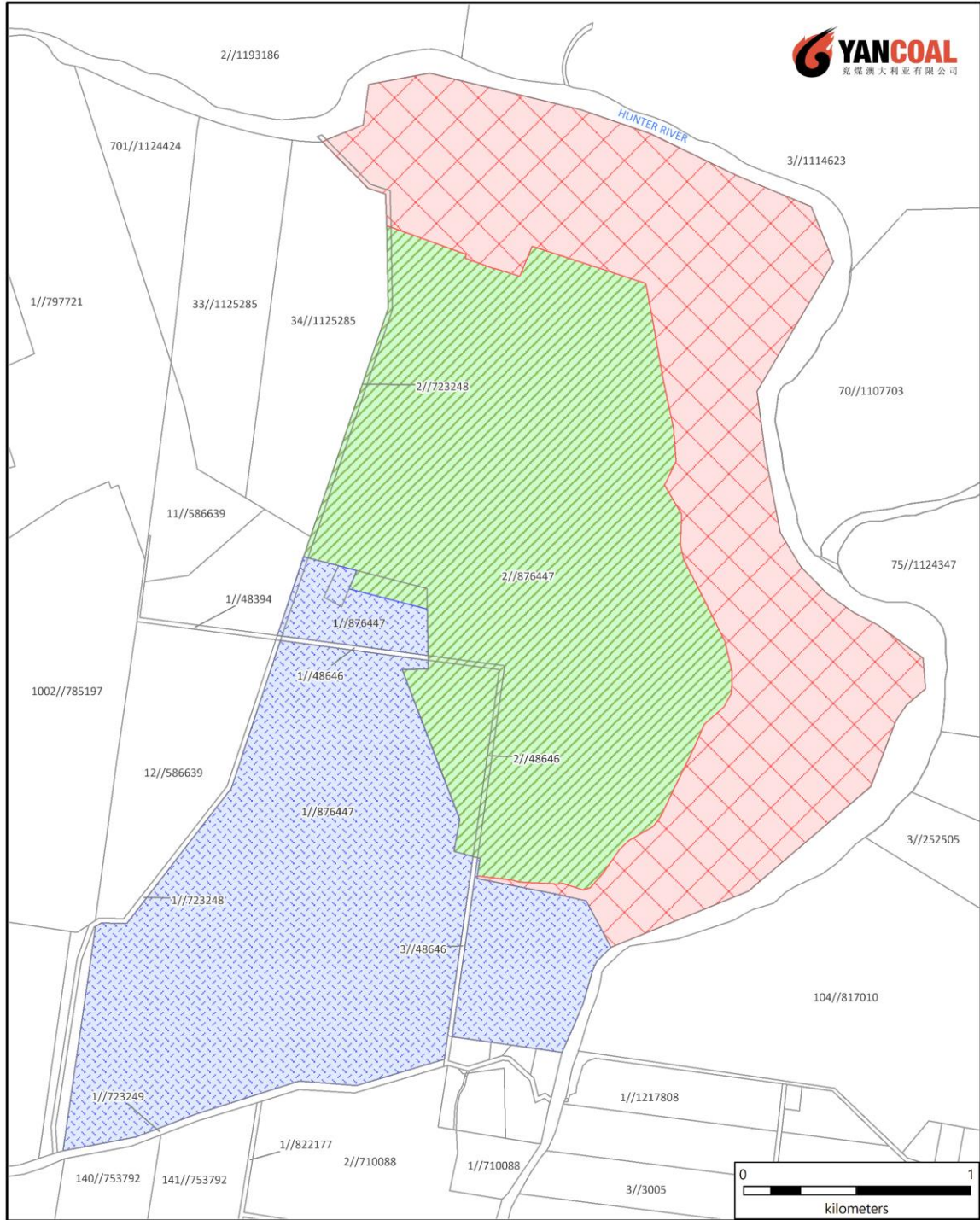


Existing consents and proposed land-based offset areas

Warkworth Continuation 2014

Figure 14: Location of Goulburn River, Bowditch and Other Biodiversity Areas

# CONSOLIDATED CONSENT



Indicative Subdivision for the Northern Biodiversity Area (NBA)



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Figure 14A: Indicative Subdivision of the Northern Biodiversity Area



# CONSOLIDATED CONSENT

## APPENDIX 5 HERITAGE

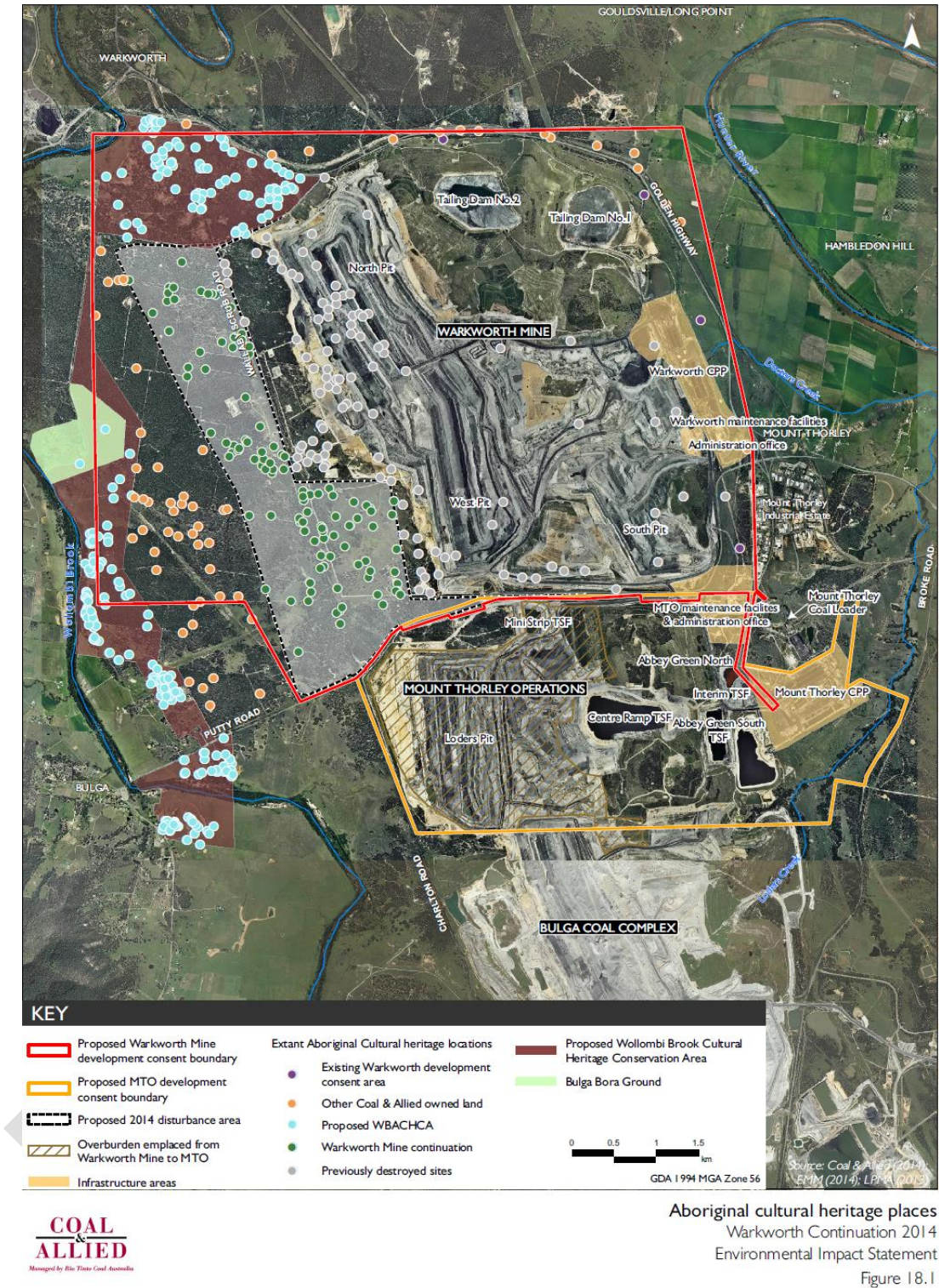


Figure 15: Wollombi Brook Aboriginal Cultural Heritage Conservation Area



# CONSOLIDATED CONSENT

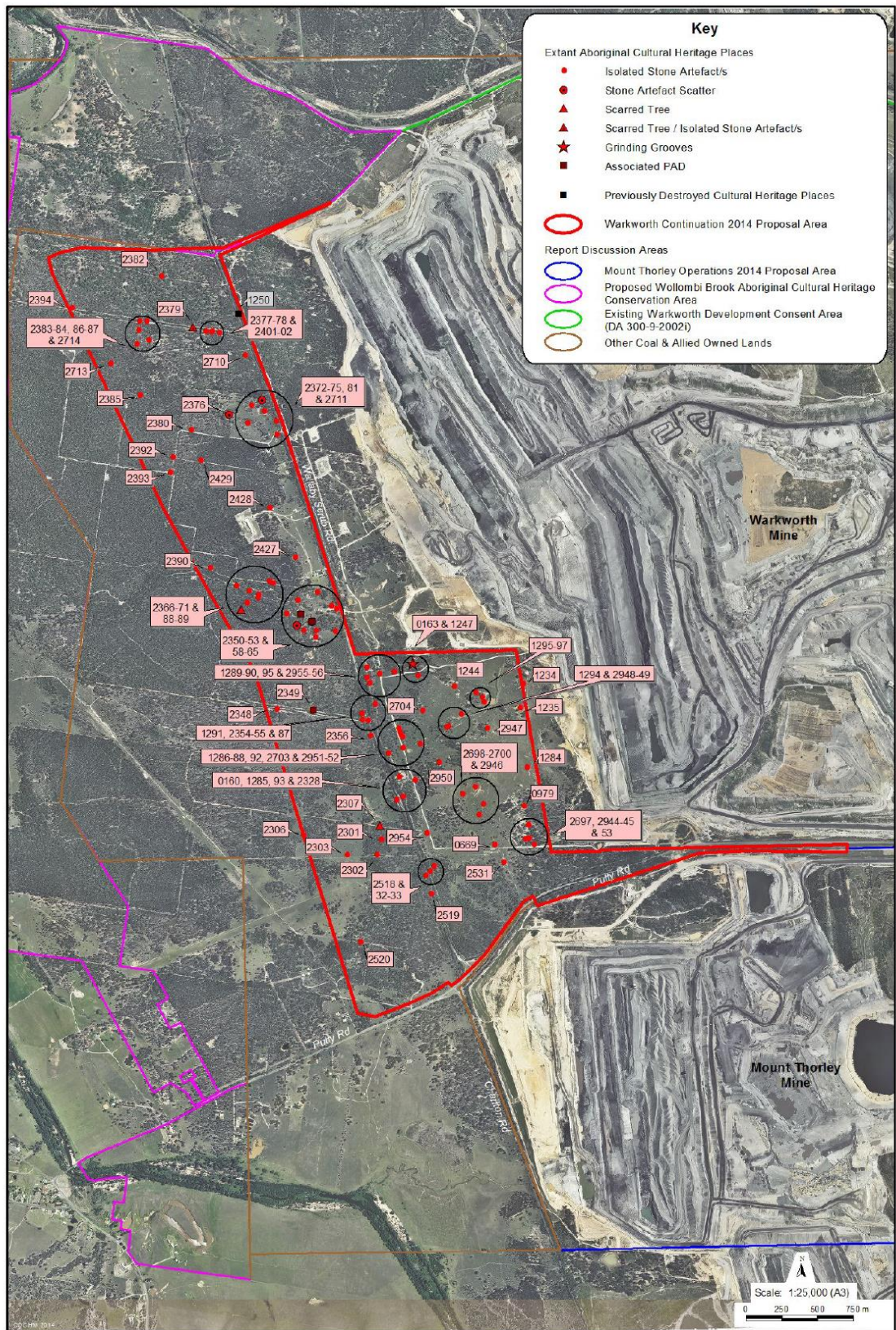


Figure 4: Map showing the location and current status of Aboriginal cultural heritage places within the Warkworth Continuation 2014 proposal area. Note: all place numbers are prefixed by the AHIMS code 37-6-XXXX.

Figure 16: Aboriginal Cultural Heritage Places Identified in Table 2 Below



# CONSOLIDATED CONSENT

Table 1: Aboriginal Cultural Heritage Places to be Protected

| AHIMS No  | Place Name                | Place Type                                    | PAD | Status |
|-----------|---------------------------|---|-----|--------|
| 37-6-0641 | Lemington Mine Lease ISF4 | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-0848 | Site T (Bulga)            | Stone Artefact Scatter                        | -   | Valid  |
| 37-6-0991 | JP30                      | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-1437 | JP 16                     | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-1438 | JP 17                     | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-1440 | JP 18                     | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-1441 | JP 19                     | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-1442 | JP 21                     | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-1445 | JP 24                     | Stone Artefact Scatter                        | -   | Valid  |
| 37-6-1446 | JP 25                     | Stone Artefact Scatter                        | -   | Valid  |
| 37-6-1448 | JP 27                     | Stone Artefact Scatter                        | -   | Valid  |
| 37-6-1450 | JP 31                     | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-1451 | JP 35                     | Stone Artefact Scatter                        | -   | Valid  |
| 37-6-2062 | KR57                      | Stone Artefact Scatter                        | -   | Valid  |
| 37-6-2064 | KR59                      | Stone Artefact Scatter                        | -   | Valid  |
| 37-6-2065 | KR60                      | Stone Artefact Scatter                        | -   | Valid  |
| 37-6-2304 | MTW-5                     | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2305 | MTW-6                     | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2311 | MTW-12                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2322 | MTW-23                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2323 | MTW-24                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2329 | MTW-30                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2331 | MTW-32                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2332 | MTW-33                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2333 | MTW-34                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2334 | MTW-35                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2335 | MTW-36                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2336 | MTW-37                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2337 | MTW-38                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2338 | MTW-39                    | Isolated Stone Artefact/s /<br>Shell Material | -   | Valid  |
| 37-6-2339 | MTW-40                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2340 | MTW-41                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2341 | MTW-42                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2342 | MTW-43                    | Scarred Tree                                  | -   | Valid  |
| 37-6-2343 | MTW-44                    | Isolated Stone Artefact/s /<br>Stone Source   | -   | Valid  |
| 37-6-2344 | MTW-45                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2345 | MTW-46                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2346 | MTW-47                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2347 | MTW-48                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2391 | MTW-92                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2395 | MTW-96                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2396 | MTW-97                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2397 | MTW-98                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2398 | MTW-99                    | Isolated Stone Artefact/s                     | -   | Valid  |
| 37-6-2399 | MTW-100                   | Isolated Stone Artefact/s                     | -   | Valid  |

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|           |                   |                           |     |       |
|-----------|-------------------|---------------------------|-----|-------|
| 37-6-2400 | MTW-101           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2436 | MTW-137           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2437 | MTW-138           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2438 | MTW-140           | Stone Artefact Scatter    | -   | Valid |
| 37-6-2439 | MTW-141           | Stone Artefact Scatter    | -   | Valid |
| 37-6-2440 | MTW-142           | Stone Artefact Scatter    | -   | Valid |
| 37-6-2441 | MTW-143           | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2442 | MTW-144           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2443 | MTW-145           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2444 | MTW-146-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2445 | MTW-147-WSW09-4   | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2446 | MTW-148-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2447 | MTW-149-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2448 | MTW-150-WSW-09-4  | Stone Artefact Scatter    | Yes | Valid |
| 37-6-2449 | MTW-151-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2450 | MTW-152-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2451 | MTW-153-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2452 | MTW-154-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2453 | MTW-155-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2454 | MTW-156-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2455 | MTW-157-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2456 | MTW-158-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2457 | MTW-159-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2458 | MTW-160-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2459 | MTW-161-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2460 | MTW-162-WSW-09-4  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2461 | MTW-163-WSW-09-41 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2462 | MTW-164-WSW-09-40 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2463 | MTW-165-WSW-09-27 | Scarred Tree              | -   | Valid |
| 37-6-2464 | MTW-166-WSW-09-42 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2465 | MTW-167-WSW-09-43 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2466 | MTW-168-WSW-09-28 | Scarred Tree              | -   | Valid |
| 37-6-2467 | MTW-169-WSW-09-29 | Scarred Tree              | -   | Valid |
| 37-6-2468 | MTW-170-WSW-09-44 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2469 | MTW-171-WSW-09-5  | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2470 | MTW-172-WSW-09-45 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2471 | MTW-173-WSW-09-6  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2472 | MTW-174-WSW-09-6  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2473 | MTW-175-WSW-09-6  | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2474 | MTW-176-WSW-09-6  | Stone Artefact Scatter    | Yes | Valid |
| 37-6-2475 | MTW-177-WSW-09-7  | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2476 | MTW-178-WSW-09-68 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2477 | MTW-179-WSW-09-30 | Scarred Tree              | -   | Valid |
| 37-6-2478 | MTW-180-WSW-09-69 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2479 | MTW-181-WSW-09-31 | Scarred Tree              | -   | Valid |
| 37-6-2480 | MTW-182-WSW-09-70 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2481 | MTW-183-WSW-09-71 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2482 | MTW-184-WSW-09-11 | Stone Artefact Scatter    | Yes | Valid |
| 37-6-2483 | MTW-185-WSW-09-12 | Isolated Stone Artefact/s | -   | Valid |

## CONSOLIDATED CONSENT

|           |                        |   |   |       |
|-----------|------------------------|---|---|-------|
| 37-6-2484 | MTW-186-WSW-09-12      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2485 | MTW-187-WSW-09-12      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2486 | MTW-188-WSW-09-12      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2487 | MTW-189-WSW-09-12      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2488 | MTW-190-WSW-09-57      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2489 | MTW-191-WSW-09-72      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2490 | MTW-192-WSW-09-13      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2491 | MTW-193-WSW-09-73      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2492 | MTW-194-WSW-09-74      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2494 | MTW-196-WSW-09-14      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2505 | MTW-207-WSW-09-18      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2506 | MTW-208-WSW-09-17      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2507 | MTW-209-WSW-09-18      | Stone Artefact Scatter                      | - | Valid |
| 37-6-2521 | MTW-223-WSW-09-32      | Scarred Tree                                | - | Valid |
| 37-6-2522 | MTW-224-WSW-09-53      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2523 | MTW-225-WSW-09-54      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2524 | MTW-226-WSW-09-8       | Isolated Stone Artefact/s /<br>Stone Source | - | Valid |
| 37-6-2577 | MTW-282-WSW-09-63      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2578 | MTW-283-WSW-09-36      | Scarred Tree                                | - | Valid |
| 37-6-2579 | MTW-284-WSW-09-64      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2580 | MTW-285-WSW-09-37      | Scarred Tree                                | - | Valid |
| 37-6-2581 | MTW-286-WSW-09-65      | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2708 | WS12                   | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2709 | WS13                   | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2712 | WS6                    | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2942 | MTW-521                | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2943 | MTW-522                | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-0611 | Jerry's Plains Road 2  | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-0682 | Wark-2                 | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-2061 | KR56                   | Stone Artefact Scatter                      | - | Valid |
| 37-6-2063 | KR58                   | Stone Artefact Scatter                      | - | Valid |
| 37-6-0055 | Wollombi Brook 04      | Spiritual Place                             | - | Valid |
| 37-6-0056 | Wollombi Brook 03      | Spiritual Place / Scarred<br>Tree           | - | Valid |
| 37-6-1103 | Site 1 GG              | Grinding Grooves                            | - | Valid |
| 37-6-1239 | W70                    | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-1241 | W71                    | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-1254 | W25 (MTW337-336)       | Stone Artefact Scatter                      | - | Valid |
| 37-6-1255 | W26 (MTW-334, MTW-343) | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-1258 | W27 (MTW-342)          | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-1259 | W28 (MTW-314)          | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-1260 | W29 (MTW-356)          | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-1262 | W31 (MTW-333)          | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-1264 | W32                    | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-1265 | W33 (MTW-332)          | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-1267 | W34 (MTW-320)          | Isolated Stone Artefact/s                   | - | Valid |
| 37-6-1268 | W35 (MTW-312)          | Isolated Stone Artefact/s                   | - | Valid |

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|-----------|------------------|---|-----|-------|
| 37-6-1270 | W36 (MTW-316)    | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-1300 | W64 (MTW-315)    | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2308 | MTW-9            | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2309 | MTW-10           | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2310 | MTW-11           | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2312 | MTW-13           | Stone Source                                | -   | Valid |
| 37-6-2313 | MTW-14           | Scarred Tree                                | -   | Valid |
| 37-6-2314 | MTW-15           | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2315 | MTW-16           | Stone Arrangement                           | -   | Valid |
| 37-6-2316 | MTW-17           | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2317 | MTW-18           | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2318 | MTW-19           | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2319 | MTW-20           | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2320 | MTW-21           | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2321 | MTW-22           | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2324 | MTW-25           | Isolated Stone Artefact/s /<br>Stone Source | -   | Valid |
| 37-6-2325 | MTW-26           | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2326 | MTW-27           | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2327 | MTW-28           | Isolated Stone Artefact/s                   | Yes | Valid |
| 37-6-2330 | MTW-31           | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2403 | MTW-104          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2404 | MTW-105          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2405 | MTW-106          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2406 | MTW-107          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2407 | MTW-108          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2408 | MTW-109          | Stone Artefact Scatter                      | -   | Valid |
| 37-6-2409 | MTW-110          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2410 | MTW-111          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2411 | MTW-112          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2412 | MTW-113          | Stone Artefact Scatter                      | -   | Valid |
| 37-6-2413 | MTW-114, MTW-518 | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2414 | MTW-115          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2415 | MTW-116          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2416 | MTW-117          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2417 | MTW-118          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2418 | MTW-119          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2419 | MTW-120          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2420 | MTW-121          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2421 | MTW-122          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2422 | MTW-123          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2423 | MTW-124          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2424 | MTW-125          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2425 | MTW-126          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2426 | MTW-127          | Isolated Stone Artefact/s                   | -   | Valid |
| 37-6-2430 | MTW-131          | Isolated Stone Artefact/s                   | -   | Valid |



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|-----------|-------------------|---------------------------|-----|-------|
| 37-6-2431 | MTW-132           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2432 | MTW-133           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2433 | MTW-134           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2434 | MTW-135           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2435 | MTW-136           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2493 | MTW-195-WSW-09-75 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2495 | MTW-197-WSW-09-14 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2496 | MTW-198-WSW-09-14 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2497 | MTW-199-wsw-09-14 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2498 | MTW-200-WSW-09-15 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2499 | MTW-201-WSW-09-15 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2500 | MTW-202-WSW-09-15 | Stone Artefact Scatter    | Yes | Valid |
| 37-6-2501 | MTW-203-WSW-09-79 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2502 | MTW-204-WSW-09-16 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2503 | MTW-205-WSW-09-76 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2504 | MTW-206-WSW-09-80 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2508 | MTW-210-WSW-09-19 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2509 | MTW-211-WSW-09-19 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2510 | MTW-212-WSW-09-19 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2511 | MTW-213-WSW-09-19 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2512 | MTW-214-WSW-09-78 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2513 | MTW-215-WSW-09-77 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2514 | MTW-216-WSW-09-46 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2515 | MTW-217-WSW-09-47 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2516 | MTW-218-WSW-09-48 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2517 | MTW-219-WSW-09-49 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2525 | MTW-227-WSW-09-33 | Scarred Tree              | -   | Valid |
| 37-6-2526 | MTW-228-WSW-09-34 | Scarred Tree              | -   | Valid |
| 37-6-2527 | MTW-230-WSW-09-55 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2528 | MTW-231-WSW-09-56 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2529 | MTW-232-WSW-09-20 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2530 | MTW-233-WSW-09-58 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2534 | MTW-237-WSW-09-10 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2535 | MTW-238-WSW-09-10 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2536 | MTW-239-WSW-09-10 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2537 | MTW-240-WSW-09-10 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2538 | MTW-241-WSW-09-10 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2539 | MTW-242-WSW-09-10 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2540 | MTW-243-WSW-09-10 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2541 | MTW-244-WSW-09    | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2542 | MTW-245-WSW-09-10 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2543 | MTW-246-WSW-09-10 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2544 | MTW-247-WSW-09-10 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2545 | MTW-248-WSW-09-10 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2546 | MTW-249-WSW-09-10 | Isolated Stone Artefact/s | Yes | Valid |

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|           |                   |                                  |     |       |
|-----------|-------------------|----------------------------------|-----|-------|
| 37-6-2547 | MTW-250-WSW-09-10 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2548 | MTW-251-WSW-09-10 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2549 | MTW-252-WSW-09-20 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2550 | MTW-253-WSW-09-20 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2551 | MTW-254-WSW-09-20 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2552 | MTW-255-WSW-09-20 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2553 | MTW-256-WSW-09-22 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2554 | MTW-258-WSW-09-21 | Scarred Tree                     | Yes | Valid |
| 37-6-2555 | MTW-260-WSW-09-21 | Mound Feature (possible Burials) | Yes | Valid |
| 37-6-2556 | MTW-261-WSW-09-21 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2557 | MTW-262-WSW-09-21 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2558 | MTW-263-WSW-09-21 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2559 | MTW-264-WSW-09-21 | Scarred Tree                     | Yes | Valid |
| 37-6-2560 | MTW-265-WSW-09-21 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2561 | MTW-266-WSW-09-22 | Grinding Grooves                 | Yes | Valid |
| 37-6-2562 | MTW-267-WSW-09-22 | Grinding Grooves                 | Yes | Valid |
| 37-6-2563 | MTW-268-WSW-09-23 | Grinding Grooves                 | Yes | Valid |
| 37-6-2564 | MTW-269-WSW-09-24 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2565 | MTW-270-WSW-09-24 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2566 | MTW-271-WSW-09-24 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2567 | MTW-272-WSW-09-24 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2568 | MTW-273-WSM-09-24 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2569 | MTW-274-WSW-09-24 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2570 | MTW-275-WSW-09-24 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2571 | MTW-276           | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2572 | MTW-277-WSW-09-24 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2573 | MTW-278-WSW-09-61 | Isolated Stone Artefact/s        | -   | Valid |
| 37-6-2574 | MTW-279-WSW-09-62 | Isolated Stone Artefact/s        | -   | Valid |
| 37-6-2575 | MTW-280-WSW-09-62 | Isolated Stone Artefact/s        | -   | Valid |
| 37-6-2576 | MTW-281-WSW-09-62 | Isolated Stone Artefact/s        | -   | Valid |
| 37-6-2582 | MTW-287-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2583 | MTW-288-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2584 | MTW-289-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2585 | MTW-290-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2586 | MTW-291-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2587 | MTW-292-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2588 | MTW-293-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2589 | MTW-294-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2590 | MTW-295-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2591 | MTW-296-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2592 | MTW-297-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2593 | MTW-298-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2594 | MTW-299-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2595 | MTW-300-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |
| 37-6-2596 | MTW-301-WSW-09-25 | Isolated Stone Artefact/s        | Yes | Valid |

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|-----------|-------------------|---------------------------|-----|-------|
| 37-6-2597 | MTW-302-WSW-09-25 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2598 | MTW-303-WSW-09-25 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2599 | MTW-304-WSW-09-25 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2600 | MTW-305-WSW-09-25 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2601 | MTW-306-WSW-09-25 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2602 | MTW-307-WSW-09-25 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2603 | MTW-308-WSW-09-25 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2604 | MTW-309-WSW-09-25 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2605 | MTW-310-WSW-09-66 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2606 | MTW-311-WSW-09-67 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2607 | MTW-313           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2608 | MTW-317           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2609 | MTW-318           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2610 | MTW-319           | Scarred Tree              | -   | Valid |
| 37-6-2611 | WE 16 (MTW-321)   | Scarred Tree              | -   | Valid |
| 37-6-2612 | MTW-322           | Scarred Tree              | -   | Valid |
| 37-6-2613 | MTW-323           | Scarred Tree              | -   | Valid |
| 37-6-2614 | MTW-324           | Scarred Tree              | -   | Valid |
| 37-6-2615 | MTW-325           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2616 | MTW-326           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2617 | MTW-327           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2618 | MTW-328           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2619 | MTW-329           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2620 | MTW-330           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2621 | PN6 (MTW-331)     | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2622 | MTW-335           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2623 | MTW-338           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2624 | MTW-339           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2625 | MTW-340           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2626 | MTW-341           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2627 | MTW-344           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2628 | MTW-345           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2629 | MTW-346           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2630 | MTW-347           | Isolated Stone Artefact/s |     | Valid |
| 37-6-2631 | MTW-348           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2632 | MTW-349           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2633 | MTW-350           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2634 | MTW-351           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2635 | MTW-352           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2636 | MTW-353           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2637 | MTW-354           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2638 | MTW-355           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2639 | MTW-357           | Stone Artefact Scatter    | -   | Valid |
| 37-6-2640 | MTW-358           | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2641 | MTW-359           | Isolated Stone Artefact/s | -   | Valid |



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|-----------|---------|---------------------------|-----|-------|
| 37-6-2642 | MTW-360 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2643 | MTW-361 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2644 | MTW-362 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2645 | MTW-363 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2646 | MTW-365 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2647 | MTW-366 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2648 | MTW-367 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2649 | MTW-368 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2650 | MTW-369 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2651 | MTW-370 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2652 | MTW-371 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2653 | MTW-372 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2654 | MTW-373 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2655 | MTW-374 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2656 | MTW-375 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2657 | MTW-376 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2658 | MTW-377 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2659 | MTW-378 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2660 | MTW-379 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2661 | MTW-380 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2662 | MTW-381 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2663 | MTW-382 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2664 | MTW-383 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2665 | MTW-384 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2666 | MTW-385 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2667 | MTW-386 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2668 | MTW-387 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2669 | MTW-388 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2670 | MTW-389 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2671 | MTW-390 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2672 | MTW-391 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2673 | MTW-392 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2674 | MTW-393 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2675 | MTW-394 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2676 | MTW-395 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2677 | MTW-396 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2678 | MTW-397 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2679 | MTW-398 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2680 | MTW-399 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2681 | MTW-400 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2682 | MTW-401 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2683 | MTW-402 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2684 | MTW-403 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2685 | MTW-404 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2686 | MTW-405 | Isolated Stone Artefact/s | Yes | Valid |

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|-----------|---------|---------------------------|-----|-------|
| 37-6-2687 | MTW-406 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2688 | MTW-407 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2689 | MTW-408 | Isolated Stone Artefact/s | Yes | Valid |
| 37-6-2690 | MTW-409 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2691 | MTW-410 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2692 | MTW-411 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2693 | MTW-412 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2694 | MTW-413 | Scarred Tree              | -   | Valid |
| 37-6-2705 | PN4     | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2706 | PN5 (N) | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2924 | MTW-505 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2923 | MTW-506 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2925 | MTW-507 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2926 | MTW-508 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2927 | MTW-509 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2928 | MTW-510 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2929 | MTW-511 | Stone Artefact Scatter    | -   | Valid |
| 37-6-2930 | MTW-512 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2931 | MTW-513 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2936 | MTW-514 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2937 | MTW-515 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2938 | MTW-516 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2939 | MTW-517 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2940 | MTW-519 | Isolated Stone Artefact/s | -   | Valid |
| 37-6-2941 | MTW-520 | Isolated Stone Artefact/s | -   | Valid |

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*Table 2: Aboriginal Cultural Heritage Places to be Impacted by the Development*

| AHIMS No  | Place Name                | Place Type                | PAD | Status              |
|-----------|---------------------------|---------------------------|-----|---------------------|
| 37-6-0160 | Mt Thorley J (MTW590-594) | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-0163 | Mt Thorley M              | Grinding Grooves          | -   | Valid               |
| 37-6-0669 | MT 37 (MTW587-587)        | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-0979 | BP-4                      | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1234 | W12 (MTW-563)             | Isolated Stone Artefact/s | -   | Partially Destroyed |
| 37-6-1235 | W13 (MTW-562)             | Isolated Stone Artefact/s | -   | Partially Destroyed |
| 37-6-1244 | W20 (MTW-573)             | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1247 | W21                       | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1250 | W23                       | Isolated Stone Artefact/s | -   | Destroyed           |
| 37-6-1284 | W48 (MTW-561)             | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1285 | W49 (MTW-579)             | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1286 | W50 (MTW-580)             | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1287 | W51 (MTW-582)             | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1288 | W52 (MTW-584)             | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1289 | W53                       | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1290 | W54 (MTW-599)             | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1291 | W55 (MTW-596)             | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1292 | W56 (MTW-595)             | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1293 | W57 (MTW-589)             | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1294 | W58 (MTW-574)             | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1295 | W59                       | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1296 | W60 (MTW-570)             | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-1297 | W61 (MTW-572)             | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2301 | MTW-2                     | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2302 | MTW-3                     | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2303 | MTW-4                     | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2306 | MTW-7                     | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2307 | MTW-8                     | Scarred Tree              | -   | Valid               |
| 37-6-2328 | MTW-29                    | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2348 | MTW-49                    | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2349 | MTW-50                    | Isolated Stone Artefact/s | Yes | Valid               |
| 37-6-2350 | MTW-51                    | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2351 | MTW-52                    | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2352 | MTW-53                    | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2353 | MTW-54                    | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2354 | MTW-55                    | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2355 | MTW-56                    | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2356 | MTW-57                    | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2357 | MTW-58                    | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2358 | MTW-59                    | Isolated Stone Artefact/s | -   | Valid               |
| 37-6-2359 | MTW-60                    | Stone Artefact Scatter    | Yes | Valid               |
| 37-6-2360 | MTW-61                    | Stone Artefact Scatter    | -   | Valid               |



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| AHIMS No  | Place Name        | Place Type                               | PAD | Status |
|-----------|-------------------|--|-----|--------|
| 37-6-2361 | MTW-62            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2362 | MTW-63            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2363 | MTW-64            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2364 | MTW-65            | Isolated Stone Artefact/s                | Yes | Valid  |
| 37-6-2365 | MTW-66            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2366 | MTW-67            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2367 | MTW-68            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2368 | MTW-69            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2369 | MTW-70            | Scarred Tree                             | -   | Valid  |
| 37-6-2370 | MTW-71            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2371 | MTW-72            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2372 | MTW-73            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2373 | MTW-74            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2374 | WS2A (MTW-75)     | Stone Artefact Scatter                   | -   | Valid  |
| 37-6-2375 | MTW-76            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2376 | MTW-77            | Stone Artefact Scatter                   | -   | Valid  |
| 37-6-2377 | MTW-78            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2378 | MTW-79            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2379 | MTW-80            | Scarred Tree / Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2380 | MTW-81            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2381 | MTW-82            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2382 | MTW-83            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2383 | MS1 (MTW-84)      | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2384 | MS8 (MTW-85)      | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2385 | MTW-86            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2386 | MTW-87            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2387 | MTW-88            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2388 | MTW-89            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2389 | MTW-90            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2390 | MTW-91            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2392 | MTW-93            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2393 | MTW-94            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2394 | MTW-95            | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2401 | MTW-102           | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2402 | MTW-103           | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2427 | MTW-128           | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2428 | MTW-129           | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2429 | MTW-130           | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2518 | MTW-220-MSW-09-50 | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2519 | MTW-221-WSW-09-51 | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2520 | MTW-222-WSW-09-52 | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2531 | MTW-234-WSW-09-9  | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2532 | MTW-235-WSW-09-59 | Isolated Stone Artefact/s                | -   | Valid  |
| 37-6-2533 | MTW-236-WSW-09-60 | Isolated Stone Artefact/s                | -   | Valid  |

## CONSOLIDATED CONSENT

| AHIMS No  | Place Name     | Place Type                | PAD | Status |
|-----------|----------------|---------------------------|-----|--------|
| 37-6-2695 | PL10 (MTW-600) | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2697 | PL2            | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2698 | PL3            | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2699 | PL4 (MTW-568)  | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2700 | PL5 (MTW-577)  | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2703 | PL8            | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2704 | PL9            | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2707 | WS10           | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2710 | WS2            | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2711 | WS3            | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2713 | WS7            | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2714 | WS9            | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2944 | MTW-566        | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2945 | MTW-567        | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2946 | MTW-569        | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2947 | MTW-571        | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2948 | MTW-575        | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2949 | MTW-576        | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2950 | MTW-578        | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2951 | MTW-581        | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2952 | MTW-583        | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2953 | MTW-585        | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2954 | MTW-588        | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2955 | MTW-597        | Isolated Stone Artefact/s | -   | Valid  |
| 37-6-2956 | MTW-598        | Isolated Stone Artefact/s | -   | Valid  |



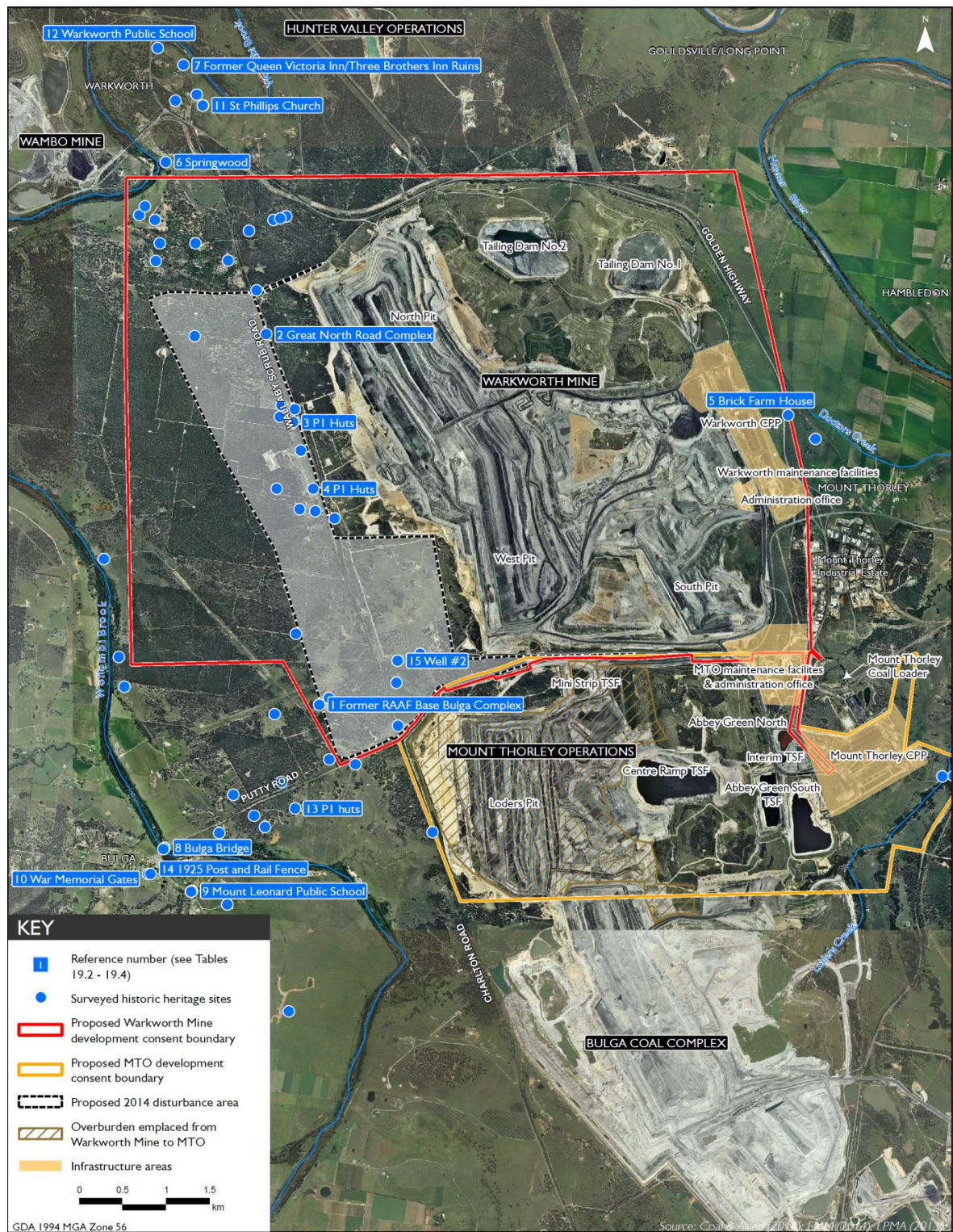
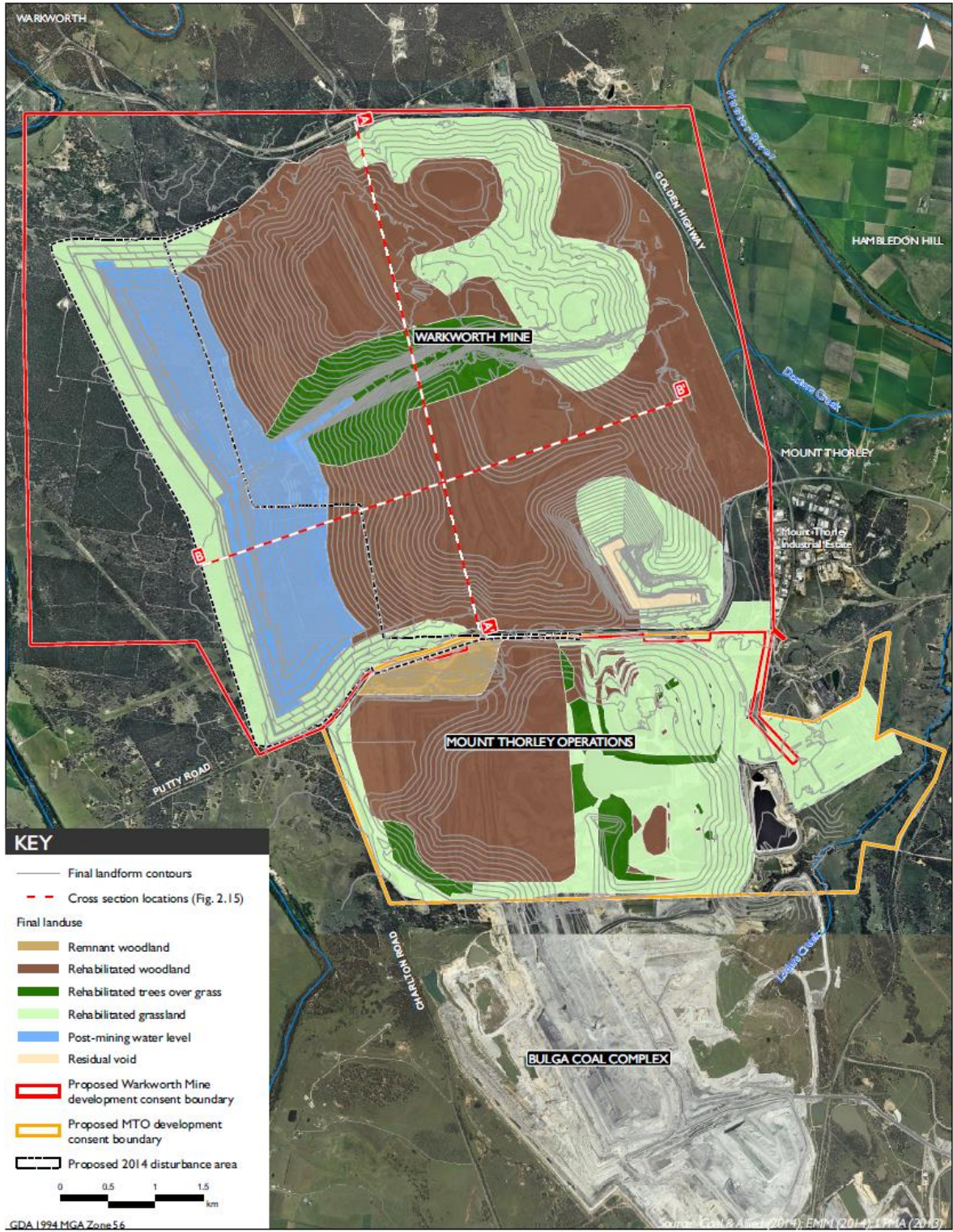


Figure 17: Historic Heritage Items



APPENDIX 6  
REHABILITATION PLANS



Final landuse and contours  
Warkworth Continuation 2014  
Environmental Impact Statement  
Figure 2.16

Figure 18: Indicative Final Landform and Land Use

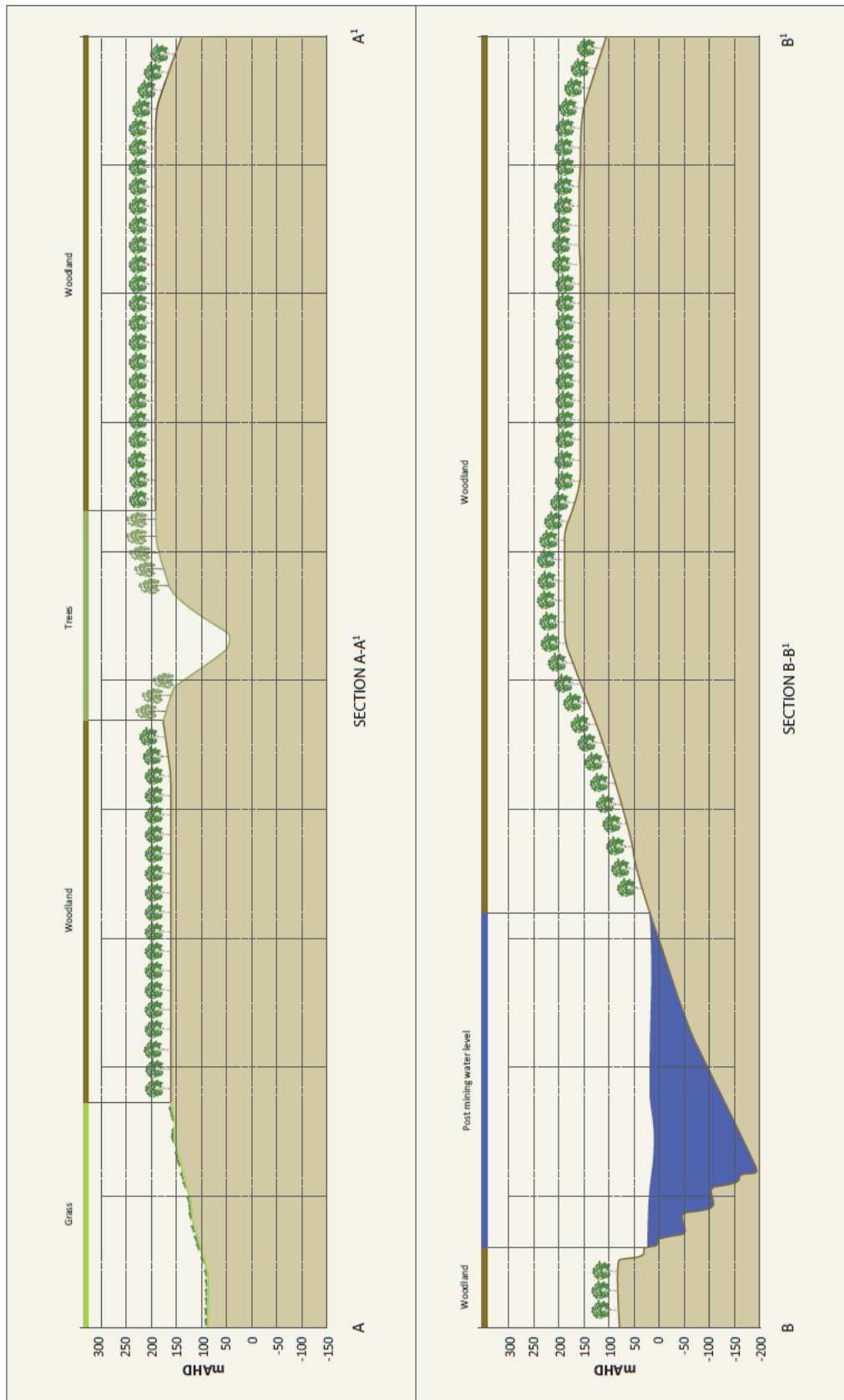


Figure 19: Indicative Final Landform – Cross Sections



## CONSOLIDATED CONSENT

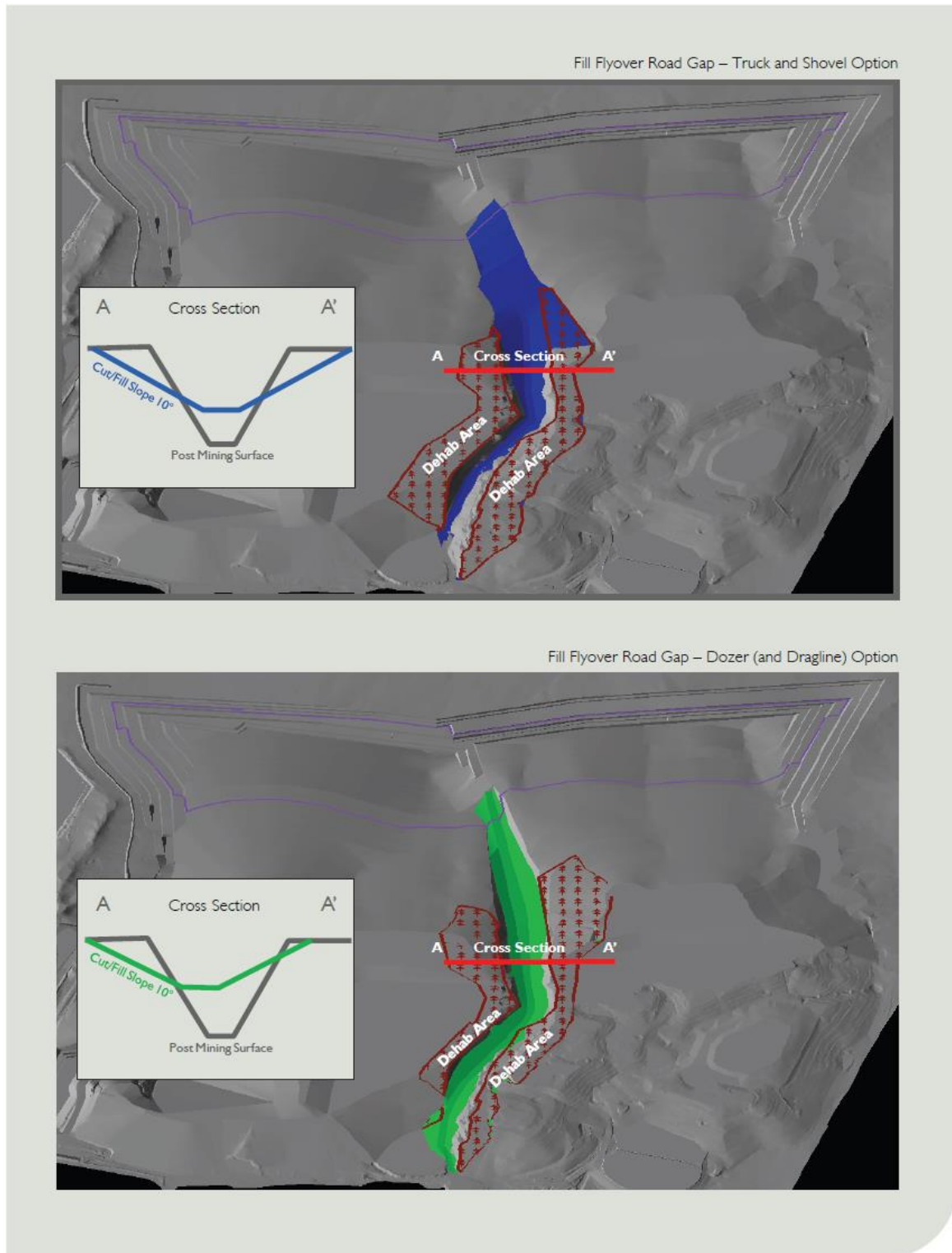


Figure 20: Indicative Final Landform – Main Emplacements Gap



# CONSOLIDATED CONSENT

## APPENDIX 7 NOISE COMPLIANCE ASSESSMENT

### Applicable Meteorological Conditions

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

### Determination of Meteorological Conditions

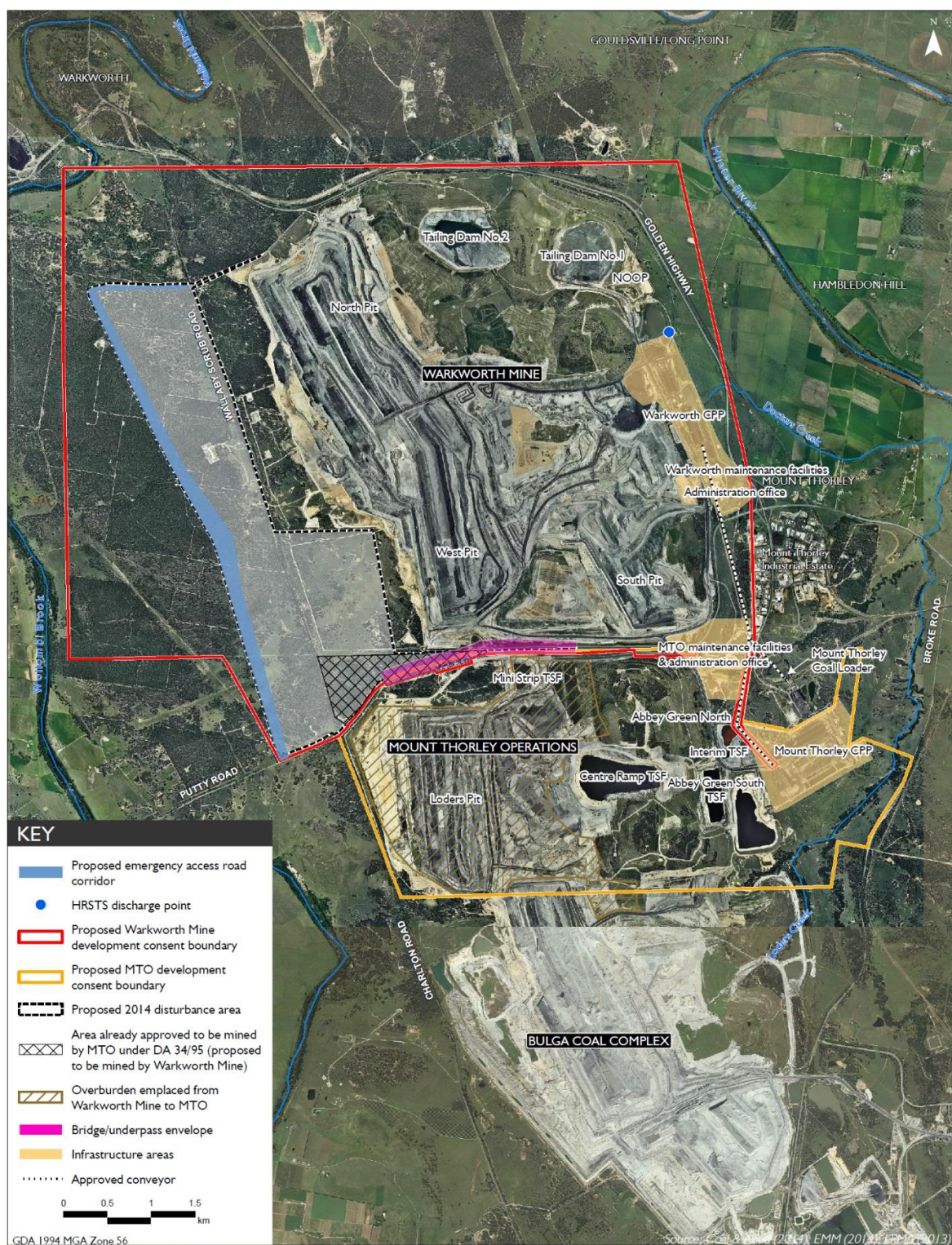
2. Except for wind speed at microphone height, the data to be used for determining meteorological conditions **must** be that recorded by the meteorological station located on the site.

### Compliance Monitoring

3. Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.
4. This monitoring must be carried out at least 12 times a year, unless the **Planning** Secretary directs otherwise.
5. Unless otherwise agreed with the **Planning** Secretary, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the *NSW Industrial Noise Policy* (as amended from time to time) or an equivalent NSW Government noise policy, in particular the requirements relating to:
  - a) monitoring locations for the collection of representative noise data;
  - b) meteorological conditions during which collection of noise data is not appropriate;
  - c) equipment used to collect noise data, and conformance with Australian Standards relevant to such equipment; and
  - d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors, apart from adjustments for:
    - duration; or
    - low frequency noise, where it is demonstrated that the dBC – dBA noise difference is caused by distance attenuation only.

# CONSOLIDATED CONSENT

## APPENDIX 8 INDICATIVE ROUTE – EMERGENCY ACCESS TRACK



**COAL & ALLIED**  
Managed by Rio Tinto Coal Australia

Proposed emergency access road  
Warkworth Continuation 2014  
Environmental Impact Statement

Figure 21: Indicative Alternative Emergency Access Track/Fire Trail Corridor



# CONSOLIDATED CONSENT

## APPENDIX 9 INTERIM NOISE CRITERIA

Noise criteria in condition 18 of DA-300-9-2002-i

| Day/Evening/Night $L_{Aeq}(15 \text{ minute})$ | Land Number   |
|--|---|
| 39   | 31, 38, 58  |
| 38   | 5, 35, 47, 70<br>Bulga Village <sup>1</sup><br>Warkworth Village <sup>2</sup>             |
| 37   | 4, 39, 40, 41, 45, 49, 50, 56, 69   |
| 36   | 7, 9, 11, 42, 43, 54, 55, 125   |
| 35   | All other residential or sensitive receptors,<br>excluding: 10, 34, 36, 46, 127, 128, 129 |

Note: To interpret the land referred to in this table, see the applicable figure below.

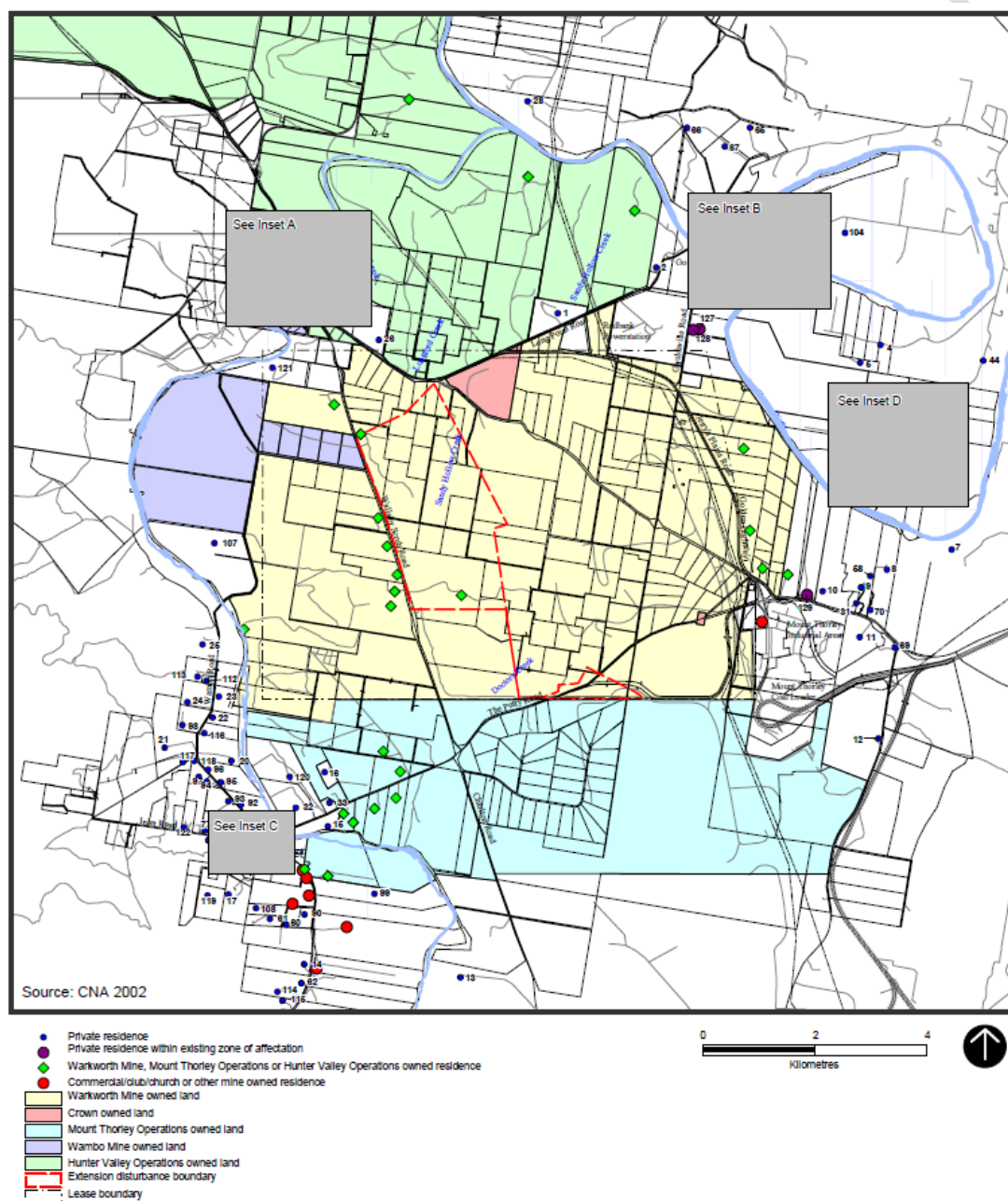


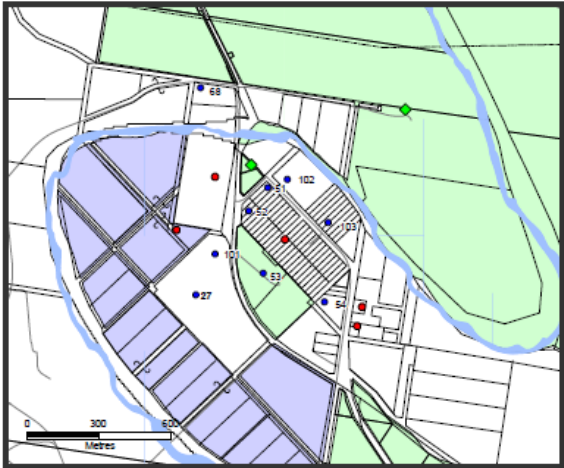
Figure 22: Surrounding Receivers

<sup>1</sup> Bulga Village includes the residential or sensitive receptors generally within the area bounded by properties 18, 20, 23, 22, 117, 122, 89, and 111 on the map EIS-35 in Volume 4 of the EIS for DA-300-9-2002-i.

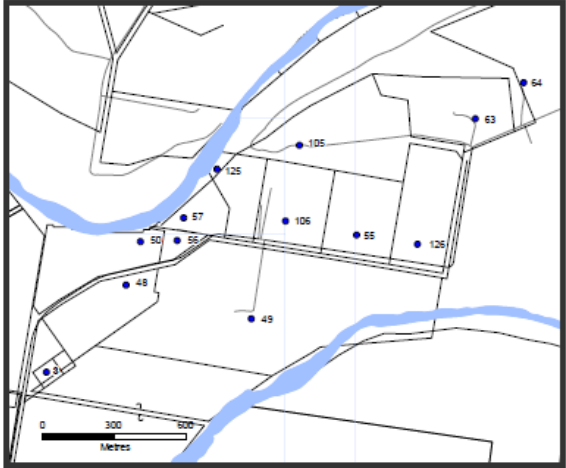
<sup>2</sup> Warkworth Village includes the residential or sensitive noise receptors generally within the area bounded by properties 29, 68, and 121 on the map EIS-35 in Volume 4 of the EIS for DA-300-9-2002-i.



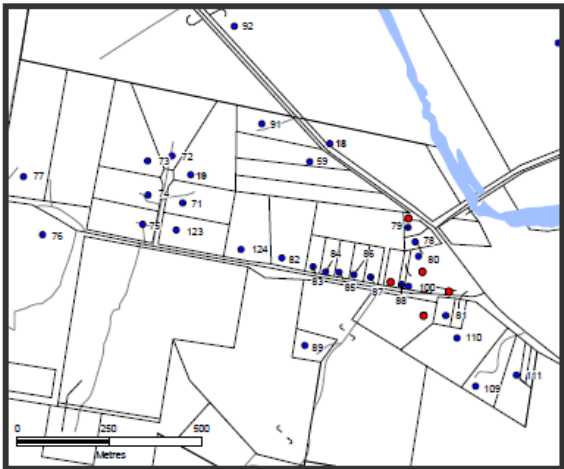
**CONSOLIDATED CONSENT**



Inset A (Warkworth)



Inset B (Goudsville)



Inset C (Bulga)



Inset D (Hambledon Hill)

Figure 23: Surrounding Receivers