

Project Approval

Section 75J of the *Environmental Planning and Assessment Act 1979*

I approve the project 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 on-going environmental management of the project.

The Hon Kristina Keneally MP
Minister for Planning

Sydney

Signed: 24 March 2009

SCHEDULE 1

Project Application:	06_0261
Proponent:	Coal and Allied Operations Pty Limited
Approval Authority:	Minister for Planning
Land:	See Appendix 1
Project:	Hunter Valley Operations South Coal Project

Blue type represents December 2009 modification

Red type represents 3 February 2012 modification

Green type represents 31 October 2012 modification

Purple type represents 31 October 2012 modification

Light blue type represents 28 February 2018 modification

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DEFINITIONS

<p>Annual Review</p> <p>Approved Disturbance Area Ashton Open Cut Mine</p> <p>BCA CCC CHPP Conditions of this approval Council CLWD CNA Day</p> <p>Department DRG DSC EA</p> <p>EA (Mod 1)</p> <p>EA (Mod 2)</p> <p>EA (Mod 3)</p> <p>EA (Mod 4)</p> <p>EA (Mod 5)</p> <p>EPA EP&A Act EP&A Regulation EPL</p> <p>Evening HVGC HVO HVO North</p> <p>HVO South</p> <p>Incident</p> <p>Land</p> <p>LCPP Material harm to the environment</p> <p>Mine water</p> <p>Minimise</p> <p>Mining Operations</p> <p>Minister Mitigation</p>	<p>The review required by condition 4 of Schedule 5</p> <p>The area identified as such within Figure 1 of Appendix 2 Ashton Open Cut Mine as approved under project approval MP 08_0182 for the Ashton South East Open Cut Project, as modified</p> <p>Building Code of Australia Community Consultative Committee Coal handling and preparation plant Conditions contained in Schedules 2 to 5 (inclusive) of this document Singleton Shire Council Division of Crown Lands and Water within the Department of Industry Coal and Allied Operations Pty Limited The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and Public Holidays</p> <p>Department of Planning and Environment Division of Resources and Geoscience within the Department Dams Safety Committee Environmental assessment titled <i>Hunter Valley Operations South Coal Project Environmental Assessment Report, Volumes 1, 2 and 3</i>, dated January 2008, including the response to submissions, titled <i>HVO South Coal Project Response to Submissions Report</i> dated 10 July 2008 and 15 September 2008</p> <p>Environmental Assessment titled <i>Raising of Lake James Dam</i>, dated October 2009, and the response to submissions (including its Statement of Commitments) dated November 2009</p> <p>Environmental Assessment titled <i>Proposed Modification to HVO South Project</i>, dated May 2010, and the response to submissions dated August 2010</p> <p>Environmental Assessment titled <i>HVO South Project Approval – Modification 4 – Administrative Omissions and Clarifications [sic]</i>, dated 26 September 2012</p> <p>Environmental Assessment titled <i>HVO South Project Approval – Modification 5 – Dedication of Lands for Offsets [sic]</i>, dated 26 September 2012</p> <p>Environmental Assessment titled <i>Hunter Valley Operations South – Modification 5 – Environmental Assessment</i> dated February 2017, the <i>Response to submissions</i> dated June 2017</p> <p>Environment Protection Authority <i>Environmental Planning and Assessment Act 1979</i> <i>Environmental Planning and Assessment Regulation 2000</i> Environment Protection Licence issued under the <i>Protection of the Environment Operations Act 1997</i> The period from 6pm to 10pm Hunter Valley Gliding Club Co-operative Limited CNA’s mining complex known as Hunter Valley Operations CNA’s activities and facilities at its HVO mining complex located north of the Hunter River CNA’s activities and facilities at its HVO mining complex located south of the Hunter River</p> <p>An occurrence or set of circumstances that:</p> <ul style="list-style-type: none"> • causes, or threatens to cause material harm to the environment, or • results in non-compliance with this approval <p>Has the same meaning as the definition of the term in section 4 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 approval where it is defined to mean the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this approval</p> <p>Lemington coal preparation plant Material harm to the environment as defined in <i>Protection of the Environment Operations Act 1997</i> Water that accumulates within active mining areas, coal reject emplacement areas, tailings dams and infrastructure areas (excluding sedimentation dams) Implement all reasonable and feasible mitigation measures to reduce the impacts of the project The removal and emplacement of topsoil and overburden, and the extraction, processing, and transportation of coal carried out on site Minister for Planning, or delegate Activities associated with reducing the impacts of the project prior to or during those impacts occurring</p>
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Negligible	Small and unimportant, such as to be not worth considering
NPWS	National Parks and Wildlife Service
Night	The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays
OEH	Office of Environment and Heritage
Privately-owned land	Land that is not owned by a public authority, or a mining company (or its subsidiary)
Project	The development described within the documents listed in condition 2 of Schedule 2
Project Layout	The general layout of the project, as shown in Figure 1 of Appendix 2
Proponent	Coal and Allied Operations Pty Limited, or its successors in title
Reasonable and feasible	Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements. Feasible relates to engineering considerations and what is practical to build
Rehabilitation	The restoration of land disturbed by the project to a good condition, to ensure it is safe, stable and non-polluting
Riverview South East Extension Area	As described in the EA and as identified as Area 3 in Figure 5.1 of the EA (previously referred to as the Glider Pit)
ROM	Run-of-Mine
RMS	Roads and Maritime Services
SA NSW	Subsidence Advisory NSW (formerly the Mine Subsidence Board)
Secretary	Secretary of the Department, or nominee
Site	The land listed in Appendix 1 and outlined in pink in Figure 1 of Appendix 1
Statement of Commitments	The Proponent's commitments in Chapter 16 of EA (Mod 5)
Wambo Mine	Wambo Mine as approved under development consent DA 305-7-2003, as modified, and its associated rail facilities as approved under development consent DA 177-8-2004, as modified
Warkworth Mine	Warkworth Mine as approved under development consent SSD-6464 for the Warkworth Continuation Project, as modified
Warkworth Mine EIS	The Environmental Impact Statement titled <i>Warkworth Continuation Project 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 review report</i> dated 20 March 2015

SCHEDULE 2 ADMINISTRATIVE CONDITIONS

Obligation to Minimise Harm to the Environment

1. The Proponent **must** implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the project.

Terms of Approval

2. The Proponent **must** carry out the project generally in accordance with the:
 - (a) EA;
 - (b) statement of commitments;
 - (c) EA (Mod1);
 - (d) EA (Mod 2);
 - (e) EA (Mod 3);
 - (f) EA (Mod 4);
 - (g) EA (Mod 5); and
 - (h) project layout.
- 2A. The Proponent must carry out the project in accordance with the conditions of this approval.
3. If there is any inconsistency between the documents listed in condition 2, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.
4. The Proponent **must** comply with any reasonable and feasible requirement/s of the Secretary arising from the Department's assessment of:
 - (a) any reports, plans, programs, strategies or correspondence that are submitted in accordance with this approval; and
 - (b) the implementation of any actions or measures contained in these reports, plans, programs, strategies or correspondence.

Limits on Approval

5. Mining operations may take place for a period of 21 years from the date of this approval.

Note: Under this approval, the Proponent is required to rehabilitate the site and carry out any additional undertakings to the satisfaction of both the Secretary and DRG. Consequently this approval will continue to apply in all other respects other than the right to conduct mining operations until the rehabilitation of the site and those additional undertakings have been carried out satisfactorily.
6. The Proponent **must** not extract more than 20 million tonnes of ROM coal a year from the site.

Management Plans/Monitoring Programs

7. Deleted
8. The Proponent **must** ensure that monitoring programs, management plans and the Environmental Management Strategy, as in existence at the date of this approval in December 2008, continue to be implemented (to the satisfaction of the Secretary) until replaced by monitoring programs and management plans approved in accordance with the conditions of this approval.

Surrender of Consents

9. Within 12 months of the date of this approval, the Proponent **must** surrender all existing development consents and existing use rights associated with HVO South's mining operations and related facilities in accordance with clause 97 of the EP&A Regulation.

9A. Deleted

Structural Adequacy

10. The Proponent **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 any additional requirements of SA NSW.

Notes:

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

- Under section 15 of the Mine Subsidence Compensation Act 1961, the Proponent is required to obtain SA NSW's approval before subdividing or constructing any improvements in a Mine Subsidence District.

Demolition

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

Operation of Plant and Equipment

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

Development Contributions

13. Within 12 months from the date of this approval (unless otherwise agreed by the **Secretary**), the Proponent **must** enter into an agreement with Singleton Council to provide development contributions to Council for the project, in accordance with Division 6 of Part 4 of the EP&A Act.

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

Dispute Resolution

14. In the event that the Proponent and the Council or a Government agency, other than the Department, cannot agree on the specification or requirements of this approval, the matter shall be referred by either party to the **Secretary** for resolution, whose determination of the disagreement shall be final and binding on the parties.

Evidence of Consultation

15. Where conditions of this approval require a document to be prepared in consultation with an identified party, the Proponent **must**:
 - (a) consult with the relevant party prior to submitting the subject document to the **Secretary** for approval; and
 - (b) provide details of the consultation undertaken including:
 - a description of how matters raised by those consulted have been resolved to the satisfaction of both the Proponent and the party consulted; and
 - details of any disagreement remaining between the party consulted and the Proponent, and how the Proponent has addressed the matters not resolved.

Compliance

16. The Proponent **must** ensure that all employees, contractors and sub-contractors are made aware of, and instructed to comply with, the conditions of this approval relevant to activities they carry out in respect of the project.
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**SCHEDULE 3
SPECIFIC ENVIRONMENTAL CONDITIONS**

ACQUISITION OF AFFECTED PROPERTIES

Acquisition Upon Request

- Upon receiving a written request for acquisition from the owner of the land listed in Table 1, the Proponent **must** acquire the land in accordance with the procedures in conditions 7-9 of schedule 4.

Table 1: Land subject to acquisition upon request

16 - Algie	38 - Henderson
32 - Algie (Curlewis)	45 - Kelly
Keys (vacant land - Lot 2 DP 770905 and Lot 84 DP 753792)	

Notes:

- The land numbers are as described in the EA, except the one with an asterisk which is as described in EA (Mod 5), and as shown in Appendix 4.
- Land numbers 16, 32, 38 and Keys are now mine-owned.
- Keys vacant lots are now consolidated as a single lot, Lot 84 DP 1124139.
- Land number 45 is referenced as 77 in EA (Mod 5). The Proponent is only required to acquire land number 45 if the owner of this land no longer has voluntary land acquisition rights under the planning approvals for Wambo Mine or Warkworth Mine.

NOISE

Noise Impact Assessment Criteria

- The Proponent **must** ensure that the noise generated by the project does not exceed the noise impact assessment criteria in Table 2 at any residence on privately-owned land, or on more than 25% of any privately-owned land.

Table 2: Noise impact assessment criteria dB(A)

Land Number / Receiver	Day	Evening	Night	Night
	L_{Aeq}(15 minute)	L_{Aeq}(15 minute)	L_{Aeq}(15 minute)	L_{A1}(1 minute)
Hunter Valley Gliding Club (when in use)	55	55	55	
7– Stapleton (Cheshunt East)	41	41	41	45
10 – Moses (Wandewoi)	37	37	37	45
Maison Dieu residences				
16 – Algie				
32 – Algie (Curlewis)	42	42	42	45
5 – Bowman, 47 – Moxey, 61 – Shearer and all other land on Shearer’s Lane	41	41	41	45
34 – Ernst	40	40	40	45
50 – Nelson				
24 – Clifton and Edwards and residences located within 250 metres of this residence, not otherwise listed in this table	40	40	40	45
Maison Dieu residences within 1 kilometre of Shearers Lane, not otherwise listed in this table	39	39	39	45
127* – Riley	37	37	37	45
All other Maison Dieu residences	35	35	35	45
Jerrys Plains Road residences				

Land Number / Receiver	Day	Evening	Night	Night
	L_{Aeq}(15 minute)	L_{Aeq}(15 minute)	L_{Aeq}(15 minute)	L_{A1}(1 minute)
36 – Smith (ex Garland)	40	40	40	45
4 – Müller				
31 – Cooper (Kilburnie)				
310* – Northcote	39	39	39	45
312* – Carmody				
463* – Carter				
3 – Elisnore				
317* – Gee	38	38	38	45
434* – Murphy				
436* – Skinner	37	37	37	45
321* – Hayes	36	36	36	45
All Jerrys Plains Road residences, not otherwise listed in this table	35	35	35	45
Warkworth residences				
38 - Henderson	48	48	48	45
23 – Hawkes (Springwood)	43	43	43	45
45 – Kelly and all other privately-owned land in Warkworth village	43	43	43	45
All other privately-owned land	35	35	35	45

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

Notes:

- Noise impacts at HVCG are to be assessed in the immediate vicinity of its residential facilities and/or clubhouse. Noise impact assessment limits are only applicable during times of use that have been notified by HVGC to the Proponent.
- The receiver references are as described in the EA, except those with an asterisk which are as described in EA (Mod 5), and as shown in Appendix 4.
- Noise generated by the project must be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy (2000, or its latest version).
- The noise limits in Table 2 are to be applied in accordance with the limitations and requirements set out in Appendix 4A.
- Receivers 7, 10, 16, 32, 38, 23 are now mine-owned.

3. Deleted

Additional Noise Mitigation Measures

4. Upon receiving a written request from:

- an owner of land listed in Table 1 (unless the landowner has requested acquisition or where a negotiated noise agreement established under this approval is in place); or
- an owner of land listed in Table 4 (except where a negotiated noise agreement established under this approval is in place)

the Proponent **must** implement reasonable and feasible noise mitigation measures (such as double glazing, insulation, and/or air conditioning) at any residence on the land in consultation with the landowner. These measures must be consistent with the measures outlined in the *Voluntary Land Acquisition and Mitigation Policy for State Significant Mining, Petroleum and Extractive Industry Development* (NSW Government, 2014), as amended, and proportionate to the level of predicted impact.

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

Within 3 months from the date of this approval, the Proponent **must** notify all applicable landowners that they are entitled to receive noise mitigation measures, to the satisfaction of the Secretary.

Table 4: Land subject to additional noise mitigation upon request

7– Stapleton (Cheshunt East)
Maison Dieu residences
17 – Algie
5 – Bowman, 47 – Moxey, 61 – Shearer and all other land on Shearer's Lane
34 – Ernst

50 – Nelson
24 – Clifton and Edwards and residences located within 250 metres of this residence, not otherwise listed in this table
Maison Dieu residences within 1 kilometre of Shearers Lane
Jerrys Plains Road residences
36 – Smith (ex Garland)
3 – Elisnore, 4 – Muller, 31 – Cooper (Kilburnie)
310* – Northcote, 312* – Carmody, 317* – Gee and 463* – Carter
Warkworth residences
All privately-owned Warkworth residences

Notes:

- The land numbers and receiver references are as described in the EA, except those with an asterisk which are as described in EA (Mod 5), and as shown in Appendix 4.
- Land numbers 7 and 17 are now mine-owned and the remaining privately-owned Warkworth residence (45) is now listed in Table 1.

Operating Conditions

5. The Proponent must:
- take all reasonable steps to minimise construction, operational, low frequency, road and on-site rail noise of the project;
 - take all reasonable steps to minimise the noise impacts of the project during meteorological conditions when the noise criteria in this approval do not apply (see Appendix 4);
 - operate a comprehensive noise management system that uses a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations, and the implementation of both proactive and reactive noise mitigation measures to ensure compliance with the relevant conditions of this approval;
 - carry out regular noise monitoring to determine whether the project is complying with the relevant conditions of this approval; and
 - regularly assess the noise monitoring data, and modify or stop operations on the site to comply with the relevant conditions of this approval, to the satisfaction of the Secretary.

Noise Management Plan

6. The Proponent must prepare a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:
- be submitted to the Secretary for approval within 3 months of the determination of Modification 5, unless otherwise agreed by the Secretary;
 - be prepared in consultation with the EPA by a suitably qualified and experienced person/s;
 - describe the measures to be implemented to ensure:
 - compliance with the noise criteria and operating conditions in this approval;
 - best practice management is being employed; and
 - the noise impacts of the project are minimised during meteorological conditions under which the noise criteria in this approval do not apply;
 - describe the noise management system in detail; and
 - include a monitoring program that:
 - uses a combination of real-time and supplementary attended monitoring to evaluate the performance of the project;
 - includes a program to calibrate and validate the real-time noise monitoring results with the attended monitoring results over time;
 - adequately supports the noise management system; and
 - includes a protocol for identifying noise incidents and notifying the Department and relevant stakeholders of any such incident; and
 - include a protocol that has been prepared in consultation with the owners of nearby mines to minimise cumulative noise impacts.

The Proponent must implement the Noise Management Plan as approved by the Secretary.

BLASTING AND VIBRATION

Airblast Overpressure Impact Assessment Criteria

7. The Proponent **must** ensure that the airblast overpressure level from blasting at the project does not exceed the criteria in Table 6 at any residence on privately-owned land.

Table 6: Airblast overpressure impact assessment criteria

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

However, if the Proponent has a written negotiated blast agreement with the owner of the relevant residence on privately-owned land, and a copy of this agreement has been forwarded to the Department and EPA, then the Proponent may exceed the airblast overpressure level in Table 6 in accordance with the negotiated agreement.

Ground Vibration Impact Assessment Criteria

8. The Proponent **must** ensure that the ground vibration level from blasting at the project does not exceed the criteria in Table 7, at any residence on privately-owned land.

Table 7: Ground vibration impact assessment criteria

Peak particle velocity (mm/s)	Allowable exceedance
5	5% of the total number of blasts over a period of 12 months
10	0%

Note: Vibration **must** be measured in accordance with applicable guidelines, including EPA's *Assessing Vibration: A Technical Guideline (2006)*.

However, if the Proponent has a written negotiated blast agreement with the owner of the relevant residence on privately-owned land, and a copy of this agreement has been forwarded to the Department and EPA, then the Proponent may exceed the ground vibration level in Table 7 in accordance with the negotiated agreement.

9. For St Philip's Church and the outbuildings at Archerfield, the Proponent **must** ensure that ground vibration peak particle velocity generated by the project does not exceed 5 mm/s, or as otherwise approved by the [Secretary](#).

Blasting Hours

10. The Proponent **must** only carry out blasting on site between 7 am and 6 pm Monday to Saturday inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the [Secretary](#).

Operating Conditions

11. During mining operations on site, the Proponent **must** implement best blasting practice to:
- protect the safety of people, property, public infrastructure, and livestock;
 - minimise the dust and fume emissions from blasting at the project;
 - minimise the frequency and duration of any road closures for blasting, and use all reasonable efforts to avoid road closures during peak traffic periods;
 - use all reasonable efforts to co-ordinate the timing of blasting at the site with any nearby mines to minimise cumulative blasting impacts; and
 - carry out regular blast monitoring to determine whether the project is complying with the relevant conditions of this approval,
- to the satisfaction of the [Secretary](#).
12. The Proponent may carry out a maximum of:
- 3 blasts a day; and
 - 15 blasts a week,
- on the site.

This condition does not apply to blasts that generate ground vibration of 0.5 mm/s or less at any residence on privately-owned land, or to 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.

13. The Proponent must not undertake blasting on the site within 500 metres of any public road or any land outside the site not owned by the Proponent, unless the Proponent has:
- a written agreement with the owner/s of the relevant public road or land to allow blasting to be carried out closer to the public road or land, and the Proponent has advised the Department in writing of the terms of this agreement; or
 - demonstrated, to the satisfaction of the Secretary, that the blasting can be carried out closer to the public road or land without compromising the safety of people or livestock or damaging the road or other buildings and structures, and updated the Blast Management Plan to include specific mitigation measures to be implemented while blasting is being carried out within 500 metres of the road or land.

14. *Deleted*

Public Notice

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

Property Inspections

16. At least 3 months prior to blasting within 2 kilometres of any privately-owned land, or any other landowner nominated by the Secretary, the Proponent **must** advise applicable landowners that they are entitled to a structural property inspection.

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

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

Note: This condition does not operate so as to prevent blasting within the first 3 months of this approval as consents applying to the site contain similar provisions for the inspection or residences potentially affected by blasting operations.

Property Investigations

17. If any landowner of privately-owned land within 2 kilometres of blasting operations, or any other landowner nominated by the Secretary, claims that buildings and/or structures on his/her land have been damaged as a result of blasting at the project, the Proponent **must** within 3 months of receiving this claim:
- commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to investigate the claim; and
 - give the landowner a copy of the property investigation report.

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

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

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

Blast Management Plan

18. The Proponent must prepare a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must:

- (a) be submitted to the Secretary for approval within 3 months of the determination of Modification 5, unless otherwise agreed by the Secretary;
- (b) be prepared in consultation with the EPA by a suitably qualified and experienced person/s;
- (c) describe the measures to be implemented to ensure compliance with the blasting criteria and conditions of this approval;
- (d) include a Road Closure Management Plan for any blasting within 500 metres of a public road, that has been prepared in consultation with relevant roads authorities and includes provisions for:
 - minimising the duration of closures, both on a per event basis and weekly basis;
 - avoiding peak traffic periods as far as reasonable; and
 - co-ordinating with nearby mines to minimise the cumulative effect of road closures;
- (e) propose and justify any agreed alternative ground vibration limits for public or private infrastructure in the vicinity of the site (if relevant); and
- (f) include a monitoring program for evaluating and reporting on compliance with the relevant conditions of this approval.

The Proponent must implement the Blast Management Plan as approved by the Secretary.

AIR QUALITY

Air Quality Impact Assessment Criteria

19. The Proponent must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the air quality impact assessment criteria listed in Table 8 at any residence on privately-owned land, the Hunter Valley Gliding Club (when in use) or on more than 25 percent of any privately-owned land.

Table 8: Air quality impact assessment criteria

Pollutant	Averaging period	Criterion
Particulate matter < 10 µm (PM ₁₀)	Annual	a, c 25 µg/m ³
	24 hour	^b 50 µg/m ³
Particulate matter < 2.5 µm (PM _{2.5})	Annual	a, c 8 µg/m ³
	24 hour	^b 25 µg/m ³
Total suspended particulate (TSP) matter	Annual	a, c 90 µg/m ³

Notes:

- Air quality impacts at HVGC are to be assessed in the immediate vicinity of its residential facilities and/or clubhouse. Air quality limits are only applicable during times of use that have been notified by HVGC to the Proponent.
- a Total impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to all other sources).
- b Incremental impact (i.e. incremental increase in concentrations due to the project on its own).
- c Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents or any other activity agreed by the Secretary.

However, if the Proponent has a written negotiated air quality agreement with any landowner or HVGC to exceed the air quality limits in Table 8 and a copy of this agreement has been forwarded to the Department and EPA, then the Proponent may exceed the air quality limits in Table 8 in accordance with the negotiated air quality agreement.

20. Deleted

Additional Air Quality Impact Mitigation Measures

21. Upon receiving a written request from:
 - an owner of land listed in Table 1 (unless the landowner has requested acquisition); or
 - an owner of land listed in Table 14
 the Proponent **must** implement reasonable and feasible air quality impact mitigation measures (such as air conditioning, first flush drinking water collection systems etc) at any residence on the land, in consultation with the landowner. These measures must be consistent with the measures outlined in the *Voluntary Land Acquisition and Mitigation Policy for State Significant Mining, Petroleum and Extractive Industry Development* (NSW Government, 2014), as amended, and proportionate to the level of predicted impact.

However, if the Proponent has an air quality agreement with the owner of any land listed in Table 1 or Table 14 and a copy of this agreement has been forwarded to the Department and EPA, then the Proponent does not have to implement such measures.

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

Within 3 months of the date of this approval, the Proponent **must** notify all applicable landowners that they are entitled to receive air quality impact mitigation measures, to the satisfaction of the Secretary.

Table 14: Land subject to additional air quality impact mitigation upon request

7 – Stapleton (Cheshunt East)	34 – Ernst
24 – Clifton and Edwards and residences located within 250 metres of this residence.	50 – Nelson
471* – Bowman	56 – Edwards

Notes:

- The land numbers are as described in the EA, except the one with an asterisk which is as described in EA (Mod 5), and as shown in Appendix 4.
- Land number 7 is now mine-owned.

Mine-owned Land

- 21A. Particulate matter emissions generated by the project must not exceed the criteria listed in Table 8 at any occupied residence on mine-owned land (including land owned by another mining company) unless:
- the tenant and landowner (if the residence is owned by another mining company) have been notified of any health risks associated with such exceedances in accordance with the notification requirements under Schedule 4 of this approval;
 - the tenant of any land owned by the Proponent can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice;
 - air quality monitoring is regularly undertaken to inform the tenant and landowner (if the residence is owned by another mining company) of the likely 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

22. The Proponent must:
- take all reasonable steps to minimise odour, fume, spontaneous combustion, greenhouse gas and dust (including PM₁₀ and PM_{2.5}) emissions of the project;
 - minimise any visible off-site air pollution generated by the project;
 - minimise to the greatest extent practicable, the extent of potential dust generating surfaces exposed on the site at any given point in time;
 - operate a comprehensive air quality management system that uses a combination of predictive meteorological forecasting and real-time air quality monitoring data to guide the day to day planning of mining operations and the implementation of both proactive and reactive air quality mitigation measures to ensure compliance with the relevant conditions of this approval;
 - carry out regular air quality monitoring to determine whether the project is complying with the relevant conditions of this approval;
 - regularly assess the air quality monitoring data, and modify or stop operations on the site to ensure compliance with the relevant conditions of this approval;
 - minimise the air quality impacts of the project during adverse meteorological conditions and extraordinary events (see Note c to Table 8 above); and
 - use all reasonable efforts to co-ordinate air quality management on the site with the air quality management at nearby mines to minimise cumulative air quality impacts,
- to the satisfaction of the Secretary.

Air Quality Management Plan

23. The Proponent must prepare an Air Quality Management Plan for the project to the satisfaction of the Secretary. This plan must:
- be submitted to the Secretary for approval within 3 months of the determination of Modification 5, unless otherwise agreed by the Secretary;
 - be prepared in consultation with the EPA by a suitably qualified and experienced person/s;
 - describe the measures to be implemented to ensure:
 - compliance with the air quality criteria and operating conditions in this approval;

- best practice management is being employed; and
 - the air quality impacts of the project are minimised during adverse meteorological conditions and extraordinary events;
- (d) describe the air quality management system in detail; and
- (e) include an air quality monitoring program that:
- uses monitors to evaluate the performance of the project against the air quality criteria in this approval and to guide day to day planning of operations;
 - adequately supports the air quality management system; and
 - a protocol for identifying and notifying the Department and relevant stakeholders of any air quality incidents;
- (f) include a protocol that has been prepared in consultation with the owners of nearby mines to minimise cumulative air quality impacts.

The Proponent must implement the Air Quality Management Plan as approved by the Secretary.

METEOROLOGICAL MONITORING

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

SURFACE AND GROUND WATER

Discharge Limits

25. The Proponent **must** only discharge mine water from the site in accordance with the provisions of an EPL, section 120 of the *Protection of the Environment Operations Act 1997* or the *Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002*.

Protection of Watercourses

26. The Proponent **must**:
- (a) ensure mining operations do not interfere with the stability of the Hunter River, Wollombi Brook and creek lines located outside the area of mining operations; and
 - (b) **to the south of the Hunter River**, retain a buffer zone of 150 metres, or less if agreed by the Secretary following consultation with CLWD, from the edge of open cut pits and the high bank of the Hunter River and its connected alluvium, excepting the area of the site adjacent to the Hobden Gully levee.

Water Supply

- 26A. The Proponent must ensure that it has sufficient water for all stages of the project, and if necessary, adjust the scale of the project to match its available water supply.

The Proponent must report on water extracted from the site each year (direct and indirect) in the Annual Review, including water taken under each water licence.

Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Proponent is required to obtain all necessary water licences for the project. The Proponent must surrender sufficient water entitlements upon cessation of rehabilitation activities to ensure that post closure water take impacts are sufficiently accounted for.

Compensatory Water Supply

- 26B. The Proponent must provide compensatory water supply to any landowner of privately-owned land whose rightful water supply is adversely and directly impacted (other than an impact that is negligible) as a result of the project, in consultation with CLWD, and to the satisfaction of the Secretary.

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

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

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

Notes:

- The Water Management Plan (see condition 27 below) is required to include trigger levels for investigating potentially adverse impacts on water supplies.
- The burden of proof that any loss of surface water or groundwater access is not due to the project rests with the Proponent.

Water Transfers

26C. The Proponent may receive water from, and transfer water to, neighbouring mines including HVO North, Warkworth/ Mt Thorley and Wambo mines.

Water Management Plan

27. The Proponent **must** prepare a Water Management Plan to the satisfaction of the **Secretary**. This Plan must:
- (a) be prepared in consultation with **CLWD** by a suitably qualified expert whose appointment has been approved by the **Secretary**;
 - (b) be submitted to the **Secretary** for approval within 6 months of this approval or otherwise agreed by the **Secretary**; and
 - (c) include:
 - a site water balance, which includes details of sources and security of water supply, on site water use and management and off site water transfers and investigates and describes measures to minimise water use by the project;
 - an erosion and sediment control plan for surface works on the site that is consistent with the requirements of the *Managing Urban Stormwater: Soils and Construction Manual* (Landcom 2004, or its latest version);
 - a program for review of groundwater modelling that includes assessment of the effect of short and long-term changes to groundwater quality and mobilisation of salts;
 - a surface water monitoring program that includes:
 - detailed baseline data of surface water flows and quality in the watercourses that could be affected by the project, including the Hunter River and Wollombi Brook;
 - a detailed description of the surface water management system;
 - details of water licensing requirements for all water storages;
 - details of licensed discharge points and limits;
 - detailed design objectives and performance measures for erosion and sediment control works, water storages, water diversions, sediment dams, emplacement areas, backfilled voids and the final void;
 - surface water impact assessment criteria, including trigger levels for investigating potentially adverse surface water impacts of the project;
 - a program to monitor potentially adverse impacts of the project on surface water flows and quality, flooding, stream and riparian vegetation health, including monitoring controlled and uncontrolled discharges and seepage/leachate from the site; and
 - a plan to respond to any exceedances of the performance criteria or surface water impact assessment criteria, and repair, mitigate and/or offset any adverse surface water impacts of the project;
 - a groundwater monitoring program that includes:
 - additional baseline data of groundwater levels, yield and quality in the region, and privately-owned groundwater bores, which could be affected by the project;
 - groundwater impact assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts of the project;
 - a program to monitor:
 - groundwater inflows to the open cut mining operations;
 - impacts of the project on the region's aquifers, any groundwater bores, and surrounding watercourses, and in particular, the Hunter River and Wollombi Brook and adjacent alluvium; and
 - impacts of the project on groundwater dependent ecosystems, riparian vegetation and River Red Gum populations; and
 - a plan to respond to any exceedances of the groundwater impact assessment criteria, and repair, mitigate and/or offset any adverse groundwater impacts of the project; and
 - a program to periodically update and validate the water balance and groundwater model for the project and compare monitoring results with modelled predictions, unless otherwise agreed by the **Secretary**.

The Proponent must implement the Water Management Plan as approved by the **Secretary**.

Groundwater Impacts Report

28. The Proponent **must** provide an annual report of alluvial and hard rock buffer groundwater levels. This report **must**:
- be provided to CLWD and the Department in the **Annual Review** each year following the reporting period;
 - include interpreted drawdown levels resulting from existing and/or ongoing mining operations of the project; and
 - account for any drawdown loss of alluvial groundwater or river flows to the satisfaction of the **Secretary**.
- 28A. The Proponent **must** design and construct Lake James (as described in the documents listed in condition 2(c) of schedule 2) to the satisfaction of the DSC. The final dam design, as submitted to DSC, must be accompanied by a detailed assessment of the potential operational and environmental risks associated with the dam.

REHABILITATION AND LANDSCAPE

Biodiversity Offset Strategy

29. The Proponent **must** implement the biodiversity offset strategy as described in the **Warkworth Mine EIS**, summarised in Table 15 below and shown conceptually in Appendix 5, to the satisfaction of the **Secretary**.

Table 15: Summary of the Biodiversity Offset Strategy

Area	Offset Type	Minimum Size (hectares)
Goulburn River Biodiversity Area	Existing vegetation to be enhanced (Narrow leaved ironbark woodland)	140

Note: This 140 ha of vegetation in the Goulburn River Biodiversity Area is additional to the 1,063 ha of vegetation to be offset on this property for Warkworth Mine. The biodiversity offset strategy may be integrated with the similar strategy for Warkworth Mine.

Long Term Security of Offset

- 29A. By the end of June 2018, unless the Secretary agrees otherwise, the Proponent **must** secure the offset area identified in condition 29 under an in perpetuity conservation mechanism to the satisfaction of the Secretary, such as a Conservation Agreement under the *National Parks and Wildlife Act 1974*, BioBanking Agreement under the *Threatened Species Conservation Act 1995*, Biobanking Stewardship Agreement or Conservation Agreement under the *Biodiversity Conservation Act 2016* or by incorporating the land into the Goulburn River National Park (if agreed by NPWS). This conservation mechanism may be combined with any similar mechanism required for Warkworth Mine.

Offsets for Warkworth Mine

- 29B. The Proponent **must** not undertake any mining operations or development within the Southern Biodiversity Area or Northern Biodiversity Area as indicated on the plan in Appendix 10, other than any conservation-related activity under an approved Biodiversity Management Plan under either this approval or similar plan required for Warkworth Mine.

Note: The Southern Biodiversity Area and Northern Biodiversity Area form part of the biodiversity offset strategy for Warkworth Mine.

River Red Gum Restoration Strategy

30. Within 12 months of the date of this approval, or otherwise agreed by the **Secretary**, the Proponent **must** review, revise and provide a timetable for the implementation of the HVO River Red Gum Strategy for the Hunter River and Wollombi Brook river red gum populations (as shown in Appendix 8), in consultation with CLWD and OEHL, and to the satisfaction of the **Secretary**. This strategy must be prepared by suitably qualified expert/s, and must include:
- the conservation and restoration objectives for the river red gum populations;
 - a description of the short, medium and long term measures that would be implemented to conserve and restore the river red gum populations (including measures to address matters which affect the long term health and sustainability of the river red gums such as surface and ground water supply, and controlling weeds, livestock and feral animals); and
 - detailed assessment and completion criteria for the conservation and restoration of the river red gum populations.

Hunter Lowland Red Gum Forest

31. The Proponent **must** protect all stands of the Hunter Lowland Red Gum Forest (also identified as Hunter Floodplain Red Gum Woodland Complex in the EA) endangered ecological community within the site, and adjacent lands under the control of the Proponent, as shown in Appendix 8, to the satisfaction of the Secretary.

Habitat Management Areas

32. *Deleted*

Strategic Study Contribution

33. If, during the project, the Department or the OEH commissions a strategic study into the regional vegetation corridor stretching from the Wollemi National Park to the Barrington Tops National Park, then the Proponent **must** contribute a reasonable amount, up to \$10,000, towards the completion of this study.

Biodiversity Management Plan

- 33A. The Proponent must prepare a Biodiversity Management Plan to the satisfaction of the Secretary. This plan must:
- (a) be submitted to the Secretary for approval within 3 months of the determination of Modification 5, unless otherwise agreed by the Secretary;
 - (b) be prepared in consultation with the OEH by a suitably qualified and experienced person/s;
 - (c) describe the short, medium, and long term measures to be undertaken to manage the remnant vegetation and fauna habitat on the site and implement the Biodiversity Offset Strategy (see condition 29);
 - (d) describe the measures to be undertaken to avoid the Southern Biodiversity Area or Northern Biodiversity Area located within the site (see condition 29B);
 - (e) incorporate the River Red Gum Strategy (see condition 30);
 - (f) describe the measures to be undertaken to protect the Hunter Lowland Red Gum Forest endangered ecological community (see condition 31);
 - (g) include detailed performance and completion criteria for evaluating the performance of the Biodiversity Offset Strategy and include triggers for remedial action, where these performance or completion criteria are not met;
 - (h) include a detailed description of the measures to be implemented on the site and in the biodiversity area/s for:
 - protecting vegetation and fauna habitat outside the approved disturbance area on the site;
 - enhancing the quality of existing vegetation, vegetation connectivity and fauna habitat on the site and in the offset areas;
 - minimising clearing and avoid unnecessary disturbance;
 - maximising the salvage of resources within the approved disturbance area for beneficial reuse;
 - collecting and propagate seed;
 - utilising vegetation for visual screening of the site;
 - minimising the impacts on fauna on site, including undertaking pre-clearance surveys;
 - managing salinity;
 - controlling weeds and feral pests;
 - controlling erosion;
 - managing grazing and agriculture on the site;
 - controlling access; and
 - manage bushfire hazards;
 - (i) be integrated with rehabilitation for the site;
 - (j) include a seasonally-based program to monitor and report on the effectiveness of the above measures, progress against the detailed performance and completion criteria, and any progressive improvements that could be implemented to improve biodiversity outcomes;
 - (k) monitor and report on the impacts of the project on groundwater dependent ecosystems and riparian vegetation consistent with the Groundwater Monitoring Program, and identify trigger levels for the remediation of any material impacts to these ecosystems;
 - (l) identify the potential risks to the successful implementation of the Biodiversity Offset Strategy, and include a description of the contingency measures to be implemented to mitigate against these risks; and
 - (m) include details of who would be responsible for monitoring, reviewing, and implementing the plan.

The Proponent must implement the Biodiversity Management Plan as approved by the Secretary.

Note: Management measures relating to the Biodiversity Offset Strategy may be addressed via equivalent measures required as part of the long term security arrangement under condition 29A.

Progressive Rehabilitation

34. The Proponent must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable steps must be taken to minimise the total area exposed at any time. Interim stabilisation and temporary vegetation strategies must be employed when areas prone to dust generation, soil erosion and weed incursion cannot be permanently rehabilitated.

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

Rehabilitation Objectives

35. The Proponent must rehabilitate the site to the satisfaction of the Secretary responsible for DRG. This rehabilitation must be generally consistent with the proposed rehabilitation activities described in the documents listed in condition 2 of Schedule 2 (and shown conceptually in the figure in Appendix 6), and comply with the objectives in Table 16.

Table 16: Rehabilitation Objectives

Feature	Objective
All areas of the site affected by the project	<ul style="list-style-type: none"> • Safe, stable and non-polluting • Fit for the intended post-mining land use/s
Areas proposed for native ecosystem re-establishment	<ul style="list-style-type: none"> • Establish self-sustaining native woodland ecosystems characteristic of vegetation communities found in the local area
Areas proposed for agricultural land	<ul style="list-style-type: none"> • Establish/restore grassland areas to support sustainable agricultural activities • Achieve the nominated land capability classification
Final Landform	<ul style="list-style-type: none"> • Stable and sustainable for the intended post-mining land use/s • Integrated with surrounding natural landforms • Incorporate micro-relief and drainage lines that are consistent with surrounding topography, to the greatest extent practicable • Maximise surface water drainage to the natural environment (excluding final void catchment) • Protect and maintain, to the greatest extent practicable, existing views of the Wollemi National Park and associated escarpments for residences of Maison Dieu
Final void	<ul style="list-style-type: none"> • Designed as long term groundwater sink to maximise ground water flows across backfilled pits to the final void • Minimise to the greatest extent practicable: <ul style="list-style-type: none"> – the size and depth of final voids; – the drainage catchment of final voids; – any high wall instability risk; and – the risk of flood interaction
Surface infrastructure of the project	<ul style="list-style-type: none"> • Decommissioned and removed, unless DRG agrees otherwise
Rehabilitation materials	<ul style="list-style-type: none"> • Materials from areas disturbed under this approval (including topsoils, substrates and seeds) are to be recovered, managed and used as rehabilitation resources, to the greatest extent practicable
Water quality	<ul style="list-style-type: none"> • Water retained on the site is fit for the intended post-mining land use/s • Water discharged from the site is suitable for receiving waters and fit for aquatic ecology and riparian vegetation
Community	<ul style="list-style-type: none"> • Ensure public safety • Minimise adverse socio-economic effects associated with mine closure

Note: The rehabilitation objectives detailed in Table 16 apply to the entire site; however, they do not require any additional earthmoving works to be undertaken to landforms that have been constructed under previous approvals or prior to the approval of Modification 5.

Rehabilitation Management Plan

36. The Proponent must prepare a Rehabilitation Management Plan for the project to the satisfaction of the DRG. This plan must:
- be prepared by suitably qualified expert/s;
 - be prepared in consultation with the Department, CLWD, and Council by a suitably qualified and experienced person/s;

- (c) be submitted for approval within 3 months of the determination of Modification 5, unless otherwise approved by the Secretary;
- (d) be prepared in accordance with any relevant DRG Guideline;
- (e) describe how the rehabilitation of the site would achieve the objectives identified in Table 16 and be integrated with the measures in the Biodiversity Management Plan;
- (f) include detailed performance and completion criteria for evaluating the performance of progressive and final rehabilitation and include triggers for remedial action, where these performance or completion criteria are not met;
- (g) describe the measures to be implemented to meet the performance and completion criteria, to ensure compliance with the relevant conditions of this approval and to address all aspects of rehabilitation including mine closure, final landform (including the final void), final land use/s, and water management in the final landform;
- (g) include procedures for the use of interim stabilisation and temporary vegetation strategies, where reasonable to minimise exposed areas;
- (h) include a program to monitor, independently audit and report on the effectiveness of the rehabilitation measures, and progress against the performance and completion criteria;
- (i) identify the potential risks to the successful implementation of rehabilitation, and include a description of the contingency measures to be implemented to mitigate against these risks; and
- (j) include details of who would be responsible for monitoring, reviewing, and implementing the plan.

The Proponent must implement the Rehabilitation Management Plan as approved by the Secretary.

37. *Deleted*

38. *Deleted*

Conservation and Biodiversity Offset Implementation Bond

39. By the end of March 2013, the Proponent **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 offset strategy (other than land acquisition costs); and
- (b) employing a suitably qualified quantity surveyor to verify the calculated costs.

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

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

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

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

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

With the agreement of the **Secretary**, this bond may be combined with rehabilitation security deposit administered by **DRG**, and may be combined with bonds in respect of offsets required for **Warkworth Mine**.

ABORIGINAL HERITAGE

Aboriginal Heritage Management Plan

40. The Proponent **must** prepare an Aboriginal Heritage Management Plan for the project to the satisfaction of the **Secretary**. The Plan must:
- (a) be prepared in consultation with **OEH** and the Aboriginal community;
 - (b) be submitted to the **Secretary** for approval within 12 months of this approval or as otherwise agreed by the **Secretary**; and
 - (c) include:

- measures to be taken to avoid impacts to Aboriginal cultural heritage values at all stages of the project. If impacts are unavoidable, mitigation measures are to be negotiated with the Aboriginal community;
- a program for the recording, salvage and surface collection of Aboriginal objects/sites within the site;
- a program for the conservation of the other Aboriginal objects/sites within the site, including measures to secure, analyse and record the objects/sites;
- definition of restricted access zones to protect Sites 26-44, 47-58, 84-100, 102-104 and 107-109 from disturbance;
- measures to ensure potential impacts to Sites 26-44, 47-58 and 107-109 by the proposed rail spur and loop are avoided;
- measures to provide for the controlled collection of Sites 1-24, 59-79, 80-83, 101 and 105-106, where avoidance of impacts by planned mining and infrastructure activities is not possible;
- provision for a long term 'keeping place' and care and control plan for any Aboriginal objects recovered from the site;
- provisions for Aboriginal cultural heritage awareness training for all HVO South employees, and as a component of mine site inductions for contractors working at HVO South;
- a description of the measures that would be implemented if any Aboriginal skeletal remains are discovered during the project;
- a protocol for the ongoing consultation and involvement of the Aboriginal community in the conservation and management of the Aboriginal heritage of the objects/sites; and
- a protocol for the regular review of the Plan's effectiveness.

The Proponent must implement the Aboriginal Heritage Management Plan as approved by the Secretary.

Notes:

- The Aboriginal cultural heritage sites and site numbers referenced in this condition are provided in Section 12 and Annex M of the EA.

TRANSPORT AND UTILITIES

Monitoring of Coal Transport

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

Coal Haulage Limits

42. The Proponent **must** not transport coal from the project by public roads, unless otherwise approved by the **Secretary**.

Relocation of Comleroi Road

43. The Proponent **must**:
- prior to construction, consult with all road users and Council about the proposed road works and their timing;
 - develop and implement procedures for road closures and diversions to be undertaken during the construction of the relocated road; and
 - construct the relocated section of the road to the satisfaction of Council.

Jerrys Plains Road Heavy Equipment Crossing

44. Prior to the relocation of any heavy equipment, to or from the project, that would require Jerrys Plains Road to be closed to public traffic, the Proponent **must** obtain approval for each planned road closure from **RMS** and then undertake each transfer of equipment across Jerrys Plains Road in accordance with any approval obtained from **RMS** for this purpose.

Coal Conveyor to HVO North

45. The Proponent **must** design and construct the conveyor to HVO North to the satisfaction of " and **CLWD**. A copy of all final documentation **must** be provided to the **Secretary** within 6 months of the completion of its construction.
46. *Deleted*

Hunter Valley Gliding Club Co-operative Limited

47. While HVGC continues to use its facilities within the site, the Proponent **must** maintain an agreement with HVGC to address the potential impact of the mine on the use and operation of HVGC's facilities, including the potential impacts to the flight paths from dragline operations. This agreement **must** take into consideration the impacts of the dragline position on:
- useable length of the runway;
 - interference with flight paths; and
 - guidelines of the [Civil Aviation Safety Authority](#).

Note: This condition shall cease to operate if both parties agree to terminate the agreement and the need for an agreement.

48. The Proponent **must** not conduct any activity associated with the project above the obstacle limitation surface (OLS) as shown in Figure 2.3 of the *HVO South Coal Project Response to Submissions Report (July 2008)* unless agreed with HVGC.

49. The Proponent **must** develop an Amenity Management Plan for HVGC's facilities within the site. This Plan **must**:

- (a) be prepared in consultation with [HVGC](#);
- (b) be submitted to the [Secretary](#) for approval 6 months prior to the commencement of mining in the Riverview South East Extension Area, or otherwise agreed by the [Secretary](#);
- (c) include a risk assessment to identify those circumstances most likely to generate impacts from mining operations on gliding activities and use of the club's residential facilities;
- (d) include details of any proposed modifications to the HVO South mine plan to [mitigate the potential impacts identified in the risk assessment required under paragraph \(c\)](#);
- (e) [identify and implement management measures for mining activities to ensure that air safety impacts are minimised and the OLS limits in condition 48 are adhered to](#);
- (f) identify and implement management measures for mining activities to ensure that air quality and noise emissions meet respective impact assessment criteria, or obtain written agreement from [HVGC](#) to exceed these criteria;
- (g) [include a program to monitor and report on the effectiveness of the mine plan modifications required under paragraph \(d\) and the management measures required under paragraphs \(e\) and \(f\); and](#)
- (h) [include notification procedures for prior notification of potentially disruptive activities at either HVO South or the HVGC site and procedures for notifying HVGC of any exceedances of the relevant impact assessment criteria and/or OLS limits at HVO South,](#)
to the satisfaction of the [Secretary](#).

If the Proponent and HVGC cannot agree on the level or composition of the Amenity Management plan, then either party may refer the matter to the [Secretary](#) for resolution.

Should [HVGC](#) cease to operate its facilities at the site, the Proponent's obligations under this condition shall cease.

[The Amenity Management Plan, must be reviewed in consultation with HVGC and if necessary updated, prior to the commencement of mining in South Lemington Pit 2.](#)

VISUAL AMENITY

Lighting Emissions

50. The Proponent **must**:
- (a) ensure no external lights shine above the horizontal;
 - (b) ensure that all external lighting associated with the project complies with *Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting*, or its latest version, and
 - (c) take all practicable measures to mitigate off-site lighting impacts from the project to the satisfaction of the [Secretary](#).

Visual Impact Mitigation

51. Within 12 months of this approval, or otherwise agreed by the [Secretary](#), the Proponent **must** prepare a visual impact mitigation report for the project to the satisfaction of the [Secretary](#). This report **must**:
- (a) be prepared in consultation with Council;
 - (b) identify the privately-owned residences and public roads that are likely to experience significant additional visual impacts from the project during its operation; and
 - (c) describe (in general terms) the mitigation measures that could be implemented to reduce the visibility of the mine from these residences and roads.

52. Within 3 months of the [Secretary](#) approving this report, the Proponent **must** advise all owners of residences identified in the report that they are entitled to mitigation measures to reduce the visibility of the mine from their properties and reach agreement with Council about mitigation measures (if any) to be implemented for public roads. If the Proponent and Council cannot agree about these measures, the matter **must** be referred by either party to the [Secretary](#) for resolution.

Note: The additional visual impact mitigation measures must be aimed at reducing the visibility of the mine from significantly affected residences and do not necessarily require measures to reduce visibility of the mine from other locations on the affected properties. The additional visual impact mitigation measures do not necessarily have to include measures on the affected property itself (i.e. the additional measures may consist of measures outside the affected property boundary that provide an effective reduction in visual impacts).

GREENHOUSE & ENERGY EFFICIENCY

53. The Proponent **must** implement all reasonable and feasible measures to minimise greenhouse gas emissions from the project to the satisfaction of the [Secretary](#).

54. *Deleted*

WASTE

55. The Proponent **must**:
- monitor the amount of waste generated by the project;
 - investigate ways to reuse, recycle or minimise this waste;
 - implement reasonable and feasible measures to minimise this waste;
 - ensure irrigation of treated wastewater is undertaken in accordance with [EPA's Environmental Guideline for the Utilisation of Treated Effluent](#); and
 - report on waste management and minimisation in the **Annual Review** to the satisfaction of the [Secretary](#).
56. Within 12 months of this approval or otherwise agreed by the [Secretary](#), the Proponent **must** install and operate a wastewater treatment system with adequate capacity to treat wastewater loads from the Lemington workshop and facilities, to the satisfaction of [EPA](#).
57. Except as expressly permitted in a licence under the *Protection of the Environment Operations Act 1997* or by the *Protection of the Environment Operations Amendment (Scheduled Activities and Waste) Regulation 2008*, waste must not be:
- received at the project site for storage, treatment, processing or disposal; or
 - disposed of at the project site.

HAZARDS

Dangerous Goods

58. The Proponent **must** ensure that the storage, handling, and transport of:
- dangerous goods is done in accordance with the relevant *Australian Standards*, particularly *AS1940* and *AS1596*, and the *Dangerous Goods Code*; and
 - explosives are managed in accordance with the requirements of [DRG](#).

Fire Control

59. During the project, the Proponent **must**:
- ensure that it maintains suitable equipment to respond to any fires on site; and
 - assist the rural Fire service and emergency services as much as possible if there is a fire on site.
60. The Proponent **must** ensure that it maintains a Fire Management Plan for the site, in consultation with Council and the Rural Fire Service.
-

**SCHEDULE 4
ADDITIONAL PROCEDURES FOR AIR QUALITY AND NOISE MANAGEMENT**

NOTIFICATION OF LANDOWNERS

1. Within 1 month of this approval, the Proponent **must** notify the landowners of the land listed in Table 1 in writing that they have the right to require the Proponent to acquire their land at any stage of the project (subject to the note to that Table).
2. If the results of monitoring required in Schedule 3 identify that impacts generated by the project are greater than the relevant impact assessment criteria in Schedule 3, except where this is predicted in the documents listed in condition 2 of Schedule 2 or where a negotiated agreement has been entered into in relation to that impact, then the Proponent **must**, within 2 weeks of obtaining the monitoring results, notify the **Secretary**, the affected landowners and tenants (including tenants of mine owned properties) accordingly, and provide quarterly monitoring results to each of these parties until the results show that the project is complying with the criteria in Schedule 3.
3. If the results of monitoring required in Schedule 3 identify that impacts generated by the project are greater than the relevant air quality impact assessment criteria in Schedule 3, then the Proponent **must** send the relevant landowners and tenants (including tenants of mine owned properties) a copy of the NSW Health fact sheet entitled "Mine Dust and You" (and associated updates) in conjunction with the notification required in condition 2.

INDEPENDENT REVIEW

4. If a landowner considers the project to be exceeding the impact assessment criteria in Schedule 3, then he/she may ask the **Secretary** in writing for an independent review of the impacts of the project on his/her land.

If the **Secretary** is satisfied that an independent review is warranted, the Proponent **must** within 3 months of the **Secretary's** decision:

- (a) consult with the landowner to determine his/her concerns;
 - (b) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the **Secretary**, to conduct monitoring on the land, to:
 - determine whether the project is complying with the relevant impact assessment criteria in Schedule 3; and
 - identify the source(s) and scale of any impact on the land, and the project's contribution to this impact; and
 - (c) give the **Secretary** and landowner a copy of the independent review.
5. If the independent review determines that the project is complying with the relevant impact assessment criteria in Schedule 3, then the Proponent may discontinue the independent review with the approval of the **Secretary**.

If the independent review determines that the project is not complying with the relevant impact assessment criteria in Schedule 3, and that the project is primarily responsible for this non-compliance, then the Proponent **must**:

- (a) implement all reasonable and feasible measures, in consultation with the landowner, to ensure that the project complies with the relevant criteria, and conduct further monitoring to determine whether these measures ensure compliance; or
- (b) secure a written agreement with the landowner to allow exceedances of the relevant impact assessment criteria, to the satisfaction of the **Secretary**.

However, if the further monitoring referred to under paragraph (a) above determines that the project is complying with the relevant impact assessment criteria, then the Proponent may discontinue the independent review with the approval of the **Secretary**.

If the independent review determines that the project is not complying with the relevant land acquisition criteria in Schedule 3, and that the project is primarily responsible for this non-compliance, then the Proponent **must** offer to acquire all or part of the landowner's land in accordance with the procedures in conditions 7-9 below, to the satisfaction of the **Secretary**.

6. If the independent review determines that the relevant impact assessment criteria in Schedule 3 are being exceeded, but that more than one mine is responsible for this non-compliance, then the Proponent shall, together with the relevant mine/s:
 - (a) implement all reasonable and feasible measures, in consultation with the landowner, to ensure that the relevant impact assessment criteria are complied with, and conduct further monitoring to determine whether these measures ensure compliance; or

- (b) secure a written agreement with the landowner and other relevant mines to allow exceedances of the relevant impact assessment criteria in Schedule 3, to the satisfaction of the [Secretary](#).

If the further monitoring referred to under paragraph (a) above determines that the project is complying with the relevant impact assessment criteria in Schedule 3, then the Proponent may discontinue the independent review with the approval of the [Secretary](#).

If the independent review determines that the relevant land acquisition criteria in Schedule 3 are being exceeded, but that more than one mine is responsible for this non-compliance, then the Proponent shall acquire all or part of the landowner's land on as equitable basis as possible with the relevant mine/s, in accordance with the procedures in conditions 7-9 below, to the satisfaction of the [Secretary](#).

LAND ACQUISITION

7. Within 3 months of receiving a written request from a landowner with acquisition rights, the Proponent shall make a binding written offer to the landowner based on:
- (a) the current market value of the landowner's interest in the property at the date of this written request, as if the property was unaffected by the project the subject of the project application, having regard to the:
- existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and
 - presence of improvements on the property and/or any approved building or structure which has been physically commenced at the date of the landowner's written request, and is due to be completed subsequent to that date, but excluding any improvements that have resulted from the implementation of 'additional noise mitigation measures' in condition 4 of schedule 3, 'additional air quality impact mitigation measures' in condition 21 of schedule 3, or 'additional visual impact mitigation measures' in condition 52 of schedule 3;
- (b) the reasonable costs associated with:
- relocating within the Singleton or Muswellbrook local government areas, or to any other local government area determined by the [Secretary](#);
 - obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired; and
- (c) reasonable compensation for any disturbance caused by the land acquisition process.

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

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

- (a) consider submissions from both parties;
- (b) 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;
- (c) prepare a detailed report setting out the reasons for any determination; and
- (d) provide a copy of the report to both parties.

Within 14 days of receiving the independent valuer's report, the Proponent **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 [Secretary](#) for review. Any request for a review must be accompanied by a detailed report setting out the reasons why the party disputes the independent valuer's determination. Following consultation with the independent valuer and both parties, the [Secretary](#) shall determine a fair and reasonable acquisition price for the land, having regard to the matters referred to in paragraphs (a)-(c) above and the independent valuer's report. Within 14 days of this determination, the Proponent **must** make a binding written offer to the landowner to purchase the land at a price not less than the [Secretary's](#) determination.

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

8. The Proponent **must** pay all reasonable costs associated with the land acquisition process described in condition 7 above.
 9. If the Proponent and landowner agree that only part of the land **must** be acquired, then the Proponent **must** also pay all reasonable costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of the plan at the Office of the Registrar-General.
-

**SCHEDULE 5
ENVIRONMENTAL MANAGEMENT, MONITORING, AUDITING AND REPORTING**

ENVIRONMENTAL MANAGEMENT

Environmental Management Strategy

1. The Proponent **must** prepare an Environmental Management Strategy for the project to the satisfaction of the **Secretary**. This strategy must:
 - (a) be submitted to the **Secretary** for approval within 6 months of this project approval or otherwise agreed by the **Secretary**;
 - (b) provide for the strategic context for the environmental management of the project;
 - (c) identify the statutory requirements that apply to the project;
 - (d) describe the procedures that would be implemented to:
 - keep the local community and relevant agencies informed about the operation and environmental performance of the project;
 - receive, handle, respond to, and record complaints;
 - resolve any disputes that may arise during the course of the project;
 - respond to any non-compliance;
 - manage cumulative impacts; and
 - respond to emergencies;
 - (e) **include**:
 - references to any strategies, plans and programs approved under this approval; and
 - a description of and clear plan depicting all environmental monitoring to be carried out under this approval;
 - (f) describe how the various incident and approval reporting requirements of the project would be integrated into a single reporting system; and
 - (g) describe the role, responsibility, authority and accountability of all the key personnel involved in the environmental management of the project.

*Note: The requirements for the Environmental Management Strategy may, with the **Secretary's** approval, be satisfied as a component of CNA's Hunter regional environmental management strategy.*

Management Plan Requirements

- 1A. The Proponent **must** ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:
 - (a) a summary of relevant background or baseline data;
 - (b) a description of:
 - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
 - any relevant limits or performance measures/criteria; and
 - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures;
 - (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
 - (d) a program to monitor and report on the:
 - impacts and environmental performance of the project; and
 - effectiveness of any management measures (see paragraph (c) above);
 - (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;
 - (f) a program to investigate and implement ways to improve the environmental performance of the project over time;
 - (g) a protocol for managing and reporting any:
 - incidents;
 - complaints;
 - non-compliances with statutory requirements; and
 - exceedances of the impact assessment criteria and/or performance criteria;
 - (h) a protocol for periodic review of the plan; and
 - (i) a document control table that includes version numbers, dates when the management plan was prepared and reviewed, names and positions of the person/s who prepared and reviewed the management plan, a description of any revisions made and the date of the **Secretary's** approval.

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

Combining Strategies, Plans or Programs

- 1B. With the agreement of the Secretary, the Proponent may combine any strategy, plan, program or Annual Review required by this approval with any similar strategy, plan, program or Annual Review required for HVO North and Warkworth/Mt Thorley mines or any other adjoining operation in common ownership or under common management.

Updating & Staging Strategies, Plans or Programs

- 1C. To ensure that strategies, plans or programs required under this approval and which have been approved by the Secretary are updated on a regular basis, and that they incorporate any appropriate additional measures or amendments to improve the environmental performance of the project, the Proponent may at any time submit revised strategies, plans or programs for the approval of the Secretary. With the agreement of the Secretary, the Proponent may also submit any strategy, plan or program required by this approval on a staged basis.

The Secretary may approve a revised strategy, plan or program required under this approval, or the staged submission of any of these documents, at any time. With the agreement of the Secretary, the Proponent may prepare the revised or staged strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this approval, including waiving the requirements in condition 15 of Schedule 2.

While any strategy, plan or program may be submitted on a staged basis, the Proponent will need to ensure that the operations associated with the project 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/s of the project to which the strategy, plan or program applies; the relationship of this stage/s to any future stages; and the trigger for updating the strategy, plan or program.

Application of Existing Strategies, Plans or Programs

- 1D. The Proponent must continue to apply existing management strategies, plans or monitoring programs approved prior to the approval of Modification 5, until the approval of a similar plan, strategy or program following the approval of Modification 5.

REPORTING

Incident Reporting

2. As soon as practicable after the Proponent becomes aware of any incident associated with the project, the Proponent must notify the Secretary and any other relevant agencies of the incident. Within 7 days of becoming aware of the incident, the Proponent must provide the Secretary and any relevant agencies with a detailed report on the incident.

Regular Reporting

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

Annual Review

4. By the end of March each year, the Proponent must review the environmental performance of the project to the satisfaction of the Secretary. This review must:
- describe the development that was carried out in the previous calendar year, and the development that is proposed to be carried out over the next year;
 - include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against:
 - the relevant statutory requirements, limits or performance measures/criteria;
 - the requirements of any plan or program required under this approval;
 - the monitoring results of previous years; and
 - the relevant predictions in the documents listed in condition 2 of Schedule 2;
 - 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 project;
 - identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies;

- (f) describe what measures will be implemented over the next year to improve the environmental performance of the project; and
- (g) evaluate and report on the effectiveness of environmental management of the project.

Revision of Strategies, Plans and Programs

- 4A. Within 3 months of the submission of an:
- (a) incident report under condition 2 above;
 - (b) annual review under condition 4 above;
 - (c) audit under condition 5 below; or
 - (d) any modification to the conditions of this approval,
- the Proponent must review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary.

Within 6 weeks of conducting any such review, the Proponent must advise the Secretary of the outcomes of the review, and provide any documents that have been revised to the Secretary for review and approval.

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

INDEPENDENT ENVIRONMENTAL AUDIT

5. By 31 March 2010, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent must commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:
- (a) be conducted by a suitably qualified, experienced, and independent team of experts whose appointment has been endorsed by the Secretary;
 - (b) include consultation with the relevant agencies;
 - (c) assess the environmental performance of the project and whether it is complying with the relevant requirements in this approval and any relevant mining lease and EPL (including any strategy, plan or program required under these approvals);
 - (d) review the adequacy of strategies, plans and/or programs required under these approvals;
 - (e) recommend appropriate measures or actions to improve the environmental performance of the project, and/or any strategy, plan or program required under these approvals; and
 - (f) be conducted and reported to the satisfaction of the Secretary.

Note: This audit team should be led by a suitably qualified auditor, and include experts in the field of noise and air quality, surface water and groundwater and mine rehabilitation.

6. Within 12 weeks of commencing each audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary with a response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The Proponent must implement these recommendations.
7. Deleted

COMMUNITY CONSULTATIVE COMMITTEE

8. The Proponent must operate a Community Consultative Committee (CCC) for the project to the satisfaction of the Secretary in general accordance with the Department's *Community Consultative Committee Guidelines: State Significant Projects (2016)*, or its latest version).

Notes:

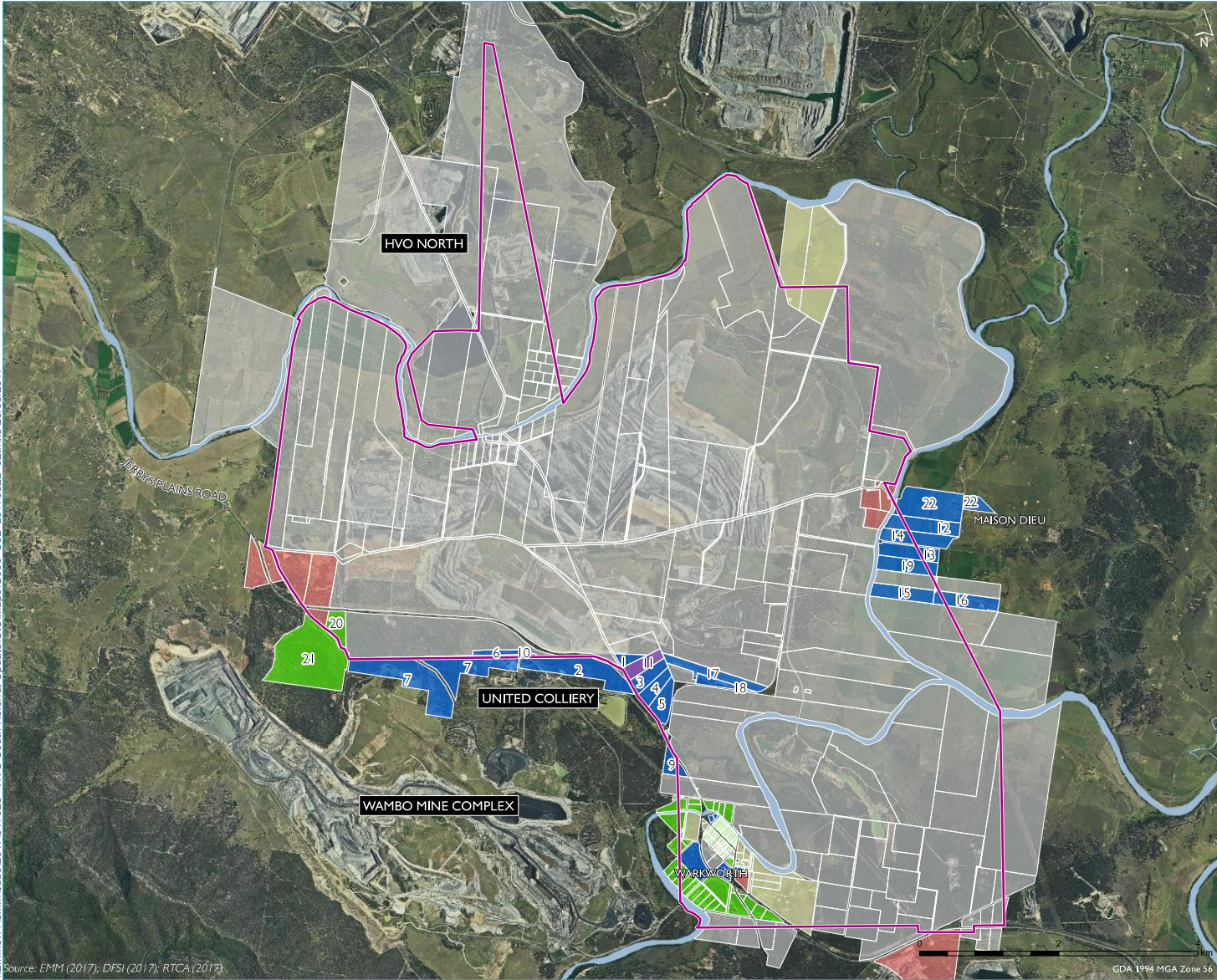
- The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval.
- In accordance with the Guideline, the Committee should comprise an independent chair and appropriate representation from the Proponent, Council, recognised environmental groups and the general community in the area of the development.
- With the approval of the Secretary, this CCC may be combined with the CCC for HVO North.

ACCESS TO INFORMATION

9. The Proponent must, for the life of the project:
- (a) make the following information publicly available on its website:
 - the documents listed in condition 2 of Schedule 2;
 - current statutory approvals for the project;
 - approved strategies, plans or programs required under the conditions of this approval;

- a comprehensive summary of the monitoring results of the project, which have been reported in accordance with the various plans and programs approved under the conditions of this approval;
 - a summary of the current stage and progress of the project;
 - contact details to enquire about the project or to make a complaint;
 - a complaints register, which is to be updated on a monthly basis;
 - minutes of CCC meetings;
 - the last five annual reviews;
 - any independent environmental audit, and the Proponent's response to the recommendations in any audit;
 - any other matter required by the Secretary; and
- (b) keep this information up to date,
to the satisfaction of the Secretary.
-

APPENDIX 1 SCHEDULE OF LAND



- KEY**
- HVO South state approval boundary
 - Land ownership**
 - CNA owned or managed land
 - Crown
 - CFMEU
 - Glencore
 - Wambo
 - Others

Note: see Schedule of Lands table for detailed ownership information

Schedule of lands
HVO South
EPBC 2016/7641
Figure 1



Figure 1: Land subject to this project approval

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Source: EMM (2017); DFSI (2017); RTCA (2017)

GDA 1994 MGA Zone 56

Map No	Lot	Section	DP	Property Owner	Wholly or Partly Affected by CNA Surface Mining Lease	Wholly or Partly Affected by CNA Sub Surface Mining Lease	Location
	1		48394	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	1		48591	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	1		48592	COAL & ALLIED OPERATIONS PTY LIMITED	Y	N	Warkworth South of Wollombi Brook
	1		48646	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	1		90727	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	1		105943	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	1		114966	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	1		123374	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth Village
	1		129808	COAL & ALLIED OPERATIONS PTY LIMITED	Y	Y	Warkworth South of Wollombi Brook
	1		182139	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	1		191982	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	1		195523	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth South of Wollombi Brook
	1		249327	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North East
	1		251877	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	1		592598	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth South of Wollombi Brook
	1		619309	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	1		633717	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	1		657394	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	1		719879	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North West
	1		723248	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	1		723249	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	1		729048	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Lemington
	1		729984	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North West

<i>Map No</i>	<i>Lot</i>	<i>Section</i>	<i>DP</i>	<i>Property Owner</i>	<i>Wholly or Partly Affected by CNA Surface Mining Lease</i>	<i>Wholly or Partly Affected by CNA Sub Surface Mining Lease</i>	<i>Location</i>
				LTD			
	1		729985	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North East
	1		737796	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Lemington
	1		737880	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	N	Warkworth North West
	1		741544	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North West
	1	5	759053	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth Village
	1		783484	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	1		797721	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	1		821123	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North West
	1		821127	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	1		822177	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	1		823767	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	1		857021	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North West
	1		876447	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	1		947886	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	N	Warkworth North West
	1		963714	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North West
	1		997228	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth South of Wollombi Brook
	1		998117	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	N	Warkworth North West
	1		1041635	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth North East
	1		1103396	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	2		300150	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	N	Warkworth North West
	2		306421	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	2		48646	COAL & ALLIED OPERATIONS PTY LIMITED	Y	Y	Warkworth North East
	2		619309	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East

<i>Map No</i>	<i>Lot</i>	<i>Section</i>	<i>DP</i>	<i>Property Owner</i>	<i>Wholly or Partly Affected by CNA Surface Mining Lease</i>	<i>Wholly or Partly Affected by CNA Sub Surface Mining Lease</i>	<i>Location</i>
	2		633717	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	2		710088	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	2		719879	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	2		723248	COAL & ALLIED OPERATIONS PTY LIMITED	Y	Y	Warkworth North East
	2		737880	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North West
	2		755267	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth South of Wollombi Brook
	2		783484	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	2		808301	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Lemington
	2		876447	COAL & ALLIED OPERATIONS PTY LIMITED	Y	Y	Warkworth North East
	2		998117	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North West
	3		48646	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth North East
	3		113342	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth South of Wollombi Brook
	3		635392	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	3		783484	COAL & ALLIED OPERATIONS PTY LIMITED	Y	Y	Warkworth South of Wollombi Brook
	4		113342	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth South of Wollombi Brook
	4		783484	COAL & ALLIED OPERATIONS PTY LIMITED	Y	Y	Warkworth South of Wollombi Brook
	5		720643	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	5		783484	COAL & ALLIED OPERATIONS PTY LIMITED	Y	Y	Warkworth South of Wollombi Brook
	5		1085145	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North West
	10		740183	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Lemington
	11		586639	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	11		843432	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	12		247239	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	12		586639	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East

<i>Map No</i>	<i>Lot</i>	<i>Section</i>	<i>DP</i>	<i>Property Owner</i>	<i>Wholly or Partly Affected by CNA Surface Mining Lease</i>	<i>Wholly or Partly Affected by CNA Sub Surface Mining Lease</i>	<i>Location</i>
				LTD			
	13		247239	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	14		247239	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	14		755267	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth South of Wollombi Brook
	15		247239	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	16		247239	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	20		1085391	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Lemington
	31		610878	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth Village
	32		610878	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth Village
	43		755267	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth South of Wollombi Brook
	91		733895	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	102		588247	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	108		755267	COAL & ALLIED OPERATIONS PTY LIMITED	Y	N	Warkworth South of Wollombi Brook
	112		755267	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth South of Wollombi Brook
	115		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North East
	118		755267	COAL & ALLIED OPERATIONS PTY LIMITED	Y	N	Warkworth South of Wollombi Brook
	119		755267	COAL & ALLIED OPERATIONS PTY LIMITED	Y	N	Warkworth South of Wollombi Brook
	121		755267	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth South of Wollombi Brook
	122		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	122		755267	COAL & ALLIED OPERATIONS PTY LIMITED	Y	N	Warkworth South of Wollombi Brook
	128		755267	COAL & ALLIED OPERATIONS PTY LIMITED	Y	N	Warkworth South of Wollombi Brook
	135		755267	COAL & ALLIED OPERATIONS PTY LIMITED	Y	Y	Warkworth South of Wollombi Brook
	140		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	141		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East

<i>Map No</i>	<i>Lot</i>	<i>Section</i>	<i>DP</i>	<i>Property Owner</i>	<i>Wholly or Partly Affected by CNA Surface Mining Lease</i>	<i>Wholly or Partly Affected by CNA Sub Surface Mining Lease</i>	<i>Location</i>
				LTD			
	142		755267	COAL & ALLIED OPERATIONS PTY LIMITED	Y	Y	Warkworth South of Wollombi Brook
	143		755267	COAL & ALLIED OPERATIONS PTY LIMITED	Y	Y	Warkworth South of Wollombi Brook
	145		755267	COAL & ALLIED OPERATIONS PTY LIMITED	Y	N	Warkworth South of Wollombi Brook
	146		970755	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth South of Wollombi Brook
	151		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	152		704486	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	153		704486	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth North East
	155		705446	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North East
	164		729960	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	165		729961	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	166		729962	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	167		729963	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North East
	170		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	179		823775	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	182		823775	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	N	Warkworth North West
	194		755267	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth South of Wollombi Brook
	195		755267	COAL & ALLIED OPERATIONS PTY LIMITED	Y	N	Warkworth South of Wollombi Brook
	204		821040	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth Village
	300		597726	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	N	Warkworth North West
	745		597317	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	N	Warkworth North West
	854		1000822	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Village
	1001		785197	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	1002		785197	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East

Map No	Lot	Section	DP	Property Owner	Wholly or Partly Affected by CNA Surface Mining Lease	Wholly or Partly Affected by CNA Sub Surface Mining Lease	Location
				LTD			
	1420		586339	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	1421		586339	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North East
	A		386100	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	B		386100	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth Near Comleroi Road
	1		111381	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	1		532623	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	1		659810	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	1		901179	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North West
	1		1102213	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	2		111381	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	2		114966	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	3		111381	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	12		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	13		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	14		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	15		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	16		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	17		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	18		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	19		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	20		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	21		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	21		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West

<i>Map No</i>	<i>Lot</i>	<i>Section</i>	<i>DP</i>	<i>Property Owner</i>	<i>Wholly or Partly Affected by CNA Surface Mining Lease</i>	<i>Wholly or Partly Affected by CNA Sub Surface Mining Lease</i>	<i>Location</i>
				LTD			
	22		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	22		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	23		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	24		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	25		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	26		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	27		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	28		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	29		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	30		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	31		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	89		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	98		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	117		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	118		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	119		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	120		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	120		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Warkworth North West
	121		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	121		753792	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	122		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	123		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	124		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington

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				LTD			
	125		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	126		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	127		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	164		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Lemington
	171		752481	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Lemington
	1		129811	WARKWORTH MINING LIMITED	Y	Y	Warkworth South of Wollombi Brook
	1		246201	WARKWORTH MINING LIMITED	Y	Y	Warkworth Village
	2		129811	WARKWORTH MINING LIMITED	Y	Y	Warkworth South of Wollombi Brook
	3		129811	WARKWORTH MINING LIMITED	Y	Y	Warkworth South of Wollombi Brook
	7001		93632	THE STATE OF NEW SOUTH WALES	N	Y	Warkworth Village
	1		90052	COMMONWEALTH OF AUSTRALIA	N	Y	Warkworth Village
	1	25	759053	WANARUAH LOCAL ABORIGINAL LAND COUNCIL	N	Y	Warkworth Village
	2	5	759053	THE STATE OF NEW SOUTH WALES	N	Y	Warkworth Village
	2	25	759053	WANARUAH LOCAL ABORIGINAL LAND COUNCIL	N	Y	Warkworth Village
	3	4	759053	THE STATE OF NEW SOUTH WALES	N	Y	Warkworth Village
	3	5	759053	THE STATE OF NEW SOUTH WALES	N	Y	Warkworth Village
	4	4	759053	THE STATE OF NEW SOUTH WALES	N	Y	Warkworth Village
	5	4	759053	THE STATE OF NEW SOUTH WALES	N	Y	Warkworth Village
	6	4	759053	THE STATE OF NEW SOUTH WALES	N	Y	Warkworth Village
	130		753792	THE STATE OF NEW SOUTH WALES	Y	Y	Warkworth North East
	175		823775	THE STATE OF NEW SOUTH WALES	N	N	Warkworth North West
			Crown License 175936	COAL & ALLIED OPERATIONS PTY LIMITED	N	N	Warkworth North West
			Crown License 341401	COAL & ALLIED OPERATIONS PTY LIMITED	N	Y	Warkworth North East
	1		710088	THE STATE OF NEW SOUTH WALES	N	Y	Warkworth North East
	154		704486	THE STATE OF NEW SOUTH WALES	N	Y	Warkworth North East
	170		823775	THE STATE OF NEW SOUTH WALES	N	N	Warkworth North West
	172		823775	THE STATE OF NEW SOUTH WALES	N	N	Warkworth North West
	173		823775	The State of NSW	N	N	Warkworth North West
	21		1109631	BRIAN EDWARD KENNEDY, JOHN	N	Y	Warkworth

Map No	Lot	Section	DP	Property Owner	Wholly or Partly Affected by CNA Surface Mining Lease	Wholly or Partly Affected by CNA Sub Surface Mining Lease	Location
				GRIFFITHS			Village
11	5		247239	CONSTRUCTION, FORESTRY, MINING & ENERGY UNION	Y	Y	Warkworth Near Comleroi Road
	6		770904	EDWARD JOHN BURLEY & CAROL LESLEY ANNE BURLEY	N	Y	Warkworth Village
12	3		3005	ELIZABETH STUART BOWMAN	N	Y	Maison Dieu
14	4		3005	ELIZABETH STUART BOWMAN	N	Y	Maison Dieu
13	5		3005	ELIZABETH STUART BOWMAN	N	Y	Maison Dieu
	1		113343	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	1	2	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	1		794506	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	2	2	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	2		794506	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	3	2	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	3		794506	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	4	2	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	4	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	5	2	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	5	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	6	2	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	6	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	7	2	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	7	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	8	2	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	8	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	9	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	10	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	11	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	12	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	13	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	14	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	15	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	16	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	17	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	18	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	19	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	20	3	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village

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18	10		247239	HUNTER VALLEY GLIDING CLUB CO-OPERATIVE LIMITED	Y	Y	Warkworth Near Comleroi Road
17	92		733895	HUNTER VALLEY GLIDING CLUB CO-OPERATIVE LIMITED	Y	Y	Warkworth Near Comleroi Road
	5		251617	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD & GREGORY JOHN ERNST	N	Y	Maison Dieu
7	2		617852	ANTHONY JOHN MAHER, ANDREW WILLIAM VICKERS	N	N	Warkworth North West
6	2		835812	ANTHONY JOHN MAHER, ANDREW WILLIAM VICKERS	Y	N	Warkworth North West
8	3		835812	ANTHONY JOHN MAHER, ANDREW WILLIAM VICKERS	Y	N	Warkworth North West
1	4		635392	ANTHONY JOHN MAHER, ANDREW WILLIAM VICKERS	N	N	Warkworth Near Comleroi Road
10	4		835812	ANTHONY JOHN MAHER, ANDREW WILLIAM VICKERS	Y	N	Warkworth North West
3	6		247239	ANTHONY JOHN MAHER, ANDREW WILLIAM VICKERS	N	N	Warkworth Near Comleroi Road
4	7		247239	ANTHONY JOHN MAHER, ANDREW WILLIAM VICKERS	N	N	Warkworth Near Comleroi Road
5	8		247239	ANTHONY JOHN MAHER, ANDREW WILLIAM VICKERS	N	N	Warkworth Near Comleroi Road
2	9		835812	ANTHONY JOHN MAHER, ANDREW WILLIAM VICKERS	N	N	Warkworth North West
9	134		566275	ANTHONY JOHN MAHER, ANDREW WILLIAM VICKERS	Y	Y	Warkworth Near Comleroi Road
	147		753792	JOHNSON WOODS & CO PTY LIMITED	N	N	Warkworth Near Comleroi Road
15	8		3005	GREGORY JOHN ERNST	N	Y	Maison Dieu
16	9		3005	GREGORY JOHN ERNST	N	Y	Maison Dieu
	50		848334	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	9	2	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	10	2	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	11	2	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	12	2	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	13	2	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	75		753792	M F Holdings	N	N	Warkworth North West
	1		770904	GLENCORE COAL (NSW) PTY LIMITED	N	Y	Warkworth Village
	1		770905	GLENCORE COAL (NSW) PTY LIMITED	N	Y	Warkworth Village
	1		1043120	GLENCORE COAL (NSW) PTY LIMITED	Y	Y	Warkworth Village
	2		770904	GLENCORE COAL (NSW) PTY LIMITED	N	Y	Warkworth Village
	3		770904	GLENCORE COAL (NSW) PTY LIMITED	N	Y	Warkworth Village
	4		770904	GLENCORE COAL (NSW) PTY LIMITED	N	Y	Warkworth Village
	5		770904	GLENCORE COAL (NSW) PTY LIMITED	N	Y	Warkworth Village
	7		770904	GLENCORE COAL (NSW) PTY LIMITED	N	Y	Warkworth Village
	40		755267	GLENCORE COAL (NSW) PTY LIMITED	N	Y	Warkworth Village
	41		755267	GLENCORE COAL (NSW) PTY LIMITED	N	Y	Warkworth Village
	186		755267	GLENCORE COAL (NSW) PTY LIMITED	N	Y	Warkworth Village

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	1		70857	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Maison Dieu
19	6		3005	RUSSELL JOHN WENHAM, JANELLE SUSAN WENHAM	N	Y	Maison Dieu
	1		66331	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Maison Dieu
	7		3005	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Maison Dieu
	10		3005	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Maison Dieu
	1	6	759053	SINGLETON SHIRE COUNCIL	N	Y	Warkworth Village
	2	6	759053	SINGLETON SHIRE COUNCIL	N	Y	Warkworth Village
	2		90052	TELSTRA CORPORATION LIMITED	N	Y	Warkworth Village
	12		843432	TELSTRA CORPORATION LIMITED	N	Y	Warkworth Near Comleroi Road
	1		738657	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	1		1090601	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	2		583524	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	2		738657	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
21	3		1085145	WAMBO COAL PTY LIMITED	Y	Y	Warkworth North West
20	4		1085145	WAMBO COAL PTY LIMITED	N	N	Warkworth North West
	1		1088908	WAMBO COAL TERMINAL PTY LTD	N	Y	Warkworth Village
	2		1088908	WAMBO COAL TERMINAL PTY LTD	N	Y	Warkworth Village
	86		755267	WAMBO COAL TERMINAL PTY LTD	N	Y	Warkworth Village
	88		755267	WAMBO COAL TERMINAL PTY LTD	N	Y	Warkworth Village
	171		755267	WAMBO COAL TERMINAL PTY LTD	N	Y	Warkworth Village
	174		755267	WAMBO COAL TERMINAL PTY LTD	N	Y	Warkworth Village
	1	17	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	2		113343	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	2	17	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	3		113343	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	4		113343	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	5		113343	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	1	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	2	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	7	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	8	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	9	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village

Map No	Lot	Section	DP	Property Owner	Wholly or Partly Affected by CNA Surface Mining Lease	Wholly or Partly Affected by CNA Sub Surface Mining Lease	Location
	10	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	11	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	12	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	13	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	14	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	15	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	16	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	17	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	18	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	19	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	20	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	21	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	22	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	23	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	24	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	25	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	26	4	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	199		755267	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	1	16	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	1	21	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	2	16	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	2	21	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	3	16	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	3	21	759053	WAMBO MINING CORPORATION PTY. LIMITED	N	Y	Warkworth Village
	4	21	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	5	21	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	10		113343	WAMBO MINING CORPORATION PTY LIMITED	N	Y	Warkworth Village
	202		257063	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	1	1	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	2	1	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	3	1	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	4	1	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	5	1	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	6	1	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village

Map No	Lot	Section	DP	Property Owner	Wholly or Partly Affected by CNA Surface Mining Lease	Wholly or Partly Affected by CNA Sub Surface Mining Lease	Location
	7	1	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	8	1	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	9	1	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	10	1	759053	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	86		753792	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	87		753792	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	88		753792	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	89		753792	WAMBO COAL PTY LIMITED	N	Y	Warkworth Village
	2		113342	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth South of Wollombi Brook
	114		755267	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth South of Wollombi Brook
	123		755267	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	N	Y	Warkworth South of Wollombi Brook
	33		610878	WILLIAM JOSEPH KELLY, MARIE JOYCE KELLY, LAWRENCE KELLY	N	Y	Warkworth Village
	1		782299	XSTRATA COAL PTY LIMITED	N	Y	Warkworth Village
			Crown Encl Permit 51250	COAL & ALLIED OPERATIONS PTY LIMITED	Y	Y	Warkworth South of Wollombi Brook
	174		823775	SINGLETON SHIRE COUNCIL (ROAD)	N	N	Warkworth North West
	176		823775	SINGLETON COUNCIL (ROAD)	N	N	Warkworth North West
	193		755267	SINGLETON SHIRE COUNCIL (ROAD)	N	Y	Warkworth Village
	180		823775	SINGLETON SHIRE COUNCIL (ROAD)	Y	N	Warkworth North West
	84		1124139	WARKWORTH MINING LIMITED	Y	Y	Warkworth Village
	1		633717	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
22	1		1217808	WYOMING HOLSTEINS PTY LIMITED	N	Y	Maison Dieu
	33		1125285	AZSA PASTORAL HOLDINGS PTY LIMITED	N	Y	Warkworth North East
	34		1125285	AZSA PASTORAL HOLDINGS PTY LIMITED	N	Y	Warkworth North East
	1		1126528	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	73		1137954	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	N	Warkworth North West
	1000		1153575	COAL & ALLIED OPERATIONS PTY LTD and HVO RESOURCES PTY LTD	Y	Y	Lemington
			Title Residue in Bk 3601 N815, Bk 3746 N 81	CSR LIMITED AND ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.	Y	N	Warkworth Village

<i>Map No</i>	<i>Lot</i>	<i>Section</i>	<i>DP</i>	<i>Property Owner</i>	<i>Wholly or Partly Affected by CNA Surface Mining Lease</i>	<i>Wholly or Partly Affected by CNA Sub Surface Mining Lease</i>	<i>Location</i>
	1		1171764	JAMES NEAL	N	Y	Warkworth Village
	1		1156393	SINGLETON COUNCIL	N	Y	Warkworth Village
	2011		1137289	THE STATE OF NEW SOUTH WALES	N	Y	Warkworth Village
	2		1171764	TRUSTEES OF CHURCH PROPERTY FOR THE DIOCESE OF NEWCASTLE	N	Y	Warkworth Village
	2		1153480	WAMBO COAL TERMINAL PTY LTD	N	Y	Warkworth Village
	350		1135536	WARKWORTH MINING LIMITED	N	Y	Warkworth Village
	360		1135647	WARKWORTH MINING LIMITED	N	Y	Warkworth Village
	3		1171764	WILLIAM SINGLETON	N	Y	Warkworth Village
CROWN LAND (RIVER BANK)							
VARIOUS CROWN AND COUNCIL ROADS							
WOLLOMBI BROOK							
HUNTER RIVER							

APPENDIX 2 PROJECT LAYOUT



Figure 1: General Project Layout

APPENDIX 3
(Deleted)

APPENDIX 4 LAND/ RECEIVER LOCATIONS



Figure 1: Land/ Receiver Locations

LAND/ RECEIVER KEY (only landowners specifically referenced in this approval)

<i>Original EA</i>		<i>Updated Land Numbers and Receiver References in EA (Mod 5)</i>								
<i>No.</i>	<i>Name</i>	<i>No.</i>	<i>Name</i>	<i>Location</i>	<i>Mine-owned</i>	<i>Acq. rights in Table 1</i>	<i>Noise identifier in Table 2</i>	<i>Noise Mit. rights in Table 4</i>	<i>Easting</i>	<i>Northing</i>
3	Elisnore	311	Gee	Jerrys Plains			Jerrys Plains Road	Y	305739	6400603
4	Muller	307	Muller	Jerrys Plains			Jerrys Plains Road	Y	305926	6400011
5	Bowman	160	Bowman	Maison Dieu			5 - Bowman	Y	318010	6399448
7	Stapleton (Cheshunt)	-	-	Isolated Location - North East	Y		-		-	-
8	Holz (Oaklands)	-	-	Isolated Location - North	Y		-		-	-
10	Moses (Wandewoi)	-	-	Isolated Location - North West	Y		-		-	-
13	Jerrys Plains Centre	379	Moore	Jerrys Plains			Jerrys Plains village		303466	6402611
16	Algie	-	-	Maison Dieu	Y	Y but no longer applicable	-		-	-
17	Algie	-	-	Maison Dieu	Y		-	Y but no longer applicable	-	-
19	Birralee Feeds Pty Ltd	-	-	Jerrys Plains	Y		-		-	-
23	Hawkes (Springwood)	-	-	Warkworth	Y		-		-	-
24	Clifton and Edwards	124	Edwards/ Howard/ Clifton	Maison Dieu			24 - Clifton	Y	320764	6393699
31	Cooper (Kilburnie)	308	Cooper	Jerrys Plains			Jerrys Plains Road	Y	306139	6399895
32	Algie (Curlewis)	-	-	Maison Dieu	Y	Y but no longer applicable	-		-	-
33	Edward and Haynes	-	-	Warkworth	Y		-		-	-
34	Ernst	121	Ernst	Maison Dieu			34 - Ernst	Y	318608	6398554
36	Garland and Smith (ex Garland)	309	Elbourn	Jerrys Plains			36 – Smith (ex Garland)	Y	305791	6399780
38	Henderson	-	-	Warkworth	Y	Y but no longer applicable	-		-	-
43	Kannar	-	-	Warkworth	Y		-		-	-
45	Kelly	77	Kelly	Warkworth		Y	45 - Kelly		314103	6394482
47	Moxey	256	Moxey	Maison Dieu			47 - Moxey	Y	318104	6399611
50	Nelson	123	Nelson	Maison Dieu			50 - Nelson	Y	318655	6398582
56	Edwards	122	Edwards/ Howard/ Clifton	Maison Dieu			Within 250 metre of 24	Y	318658	6398205
61	Shearer	161	Wyoming Holsteins Pty Limited	Maison Dieu			61 - Shearer	Y	318011	6399407
-	-	162	Wyoming Holsteins Pty	Maison Dieu			Other land on Shearers		318114	6399572

		Limited			Lane			
-	-	163 Wyoming Holsteins Pty Limited	Maison Dieu		Other land on Shearers Lane		321959	6396271
-	-	258 Wyoming Holsteins Pty Limited	Maison Dieu		Other land on Shearers Lane		318180	6399198
-	-	260 Wyoming Holsteins Pty Limited	Maison Dieu		Other land on Shearers Lane		318030	6399106
-	-	261 Wyoming Holsteins Pty Limited	Maison Dieu		Shearers Lane		320794	6393794
-	-	310 Northcote	Jerrys Plains		Jerrys Plains Road	Y	305416	6401053
-	-	312 Carmody	Jerrys Plains		Jerrys Plains Road	Y	305370	6401180
-	-	317 Gee	Jerrys Plains		Jerrys Plains Road	Y	305404	6400864
-	-	463 Carter	Jerrys Plains		Jerrys Plains Road	Y	304734	6399132
-	-	471 Bowman	Camberwell		Other		319025	6403131
-	-	120 Edwards/Howard/Clifton	Maison Dieu		Within 250 metre of 24/124	Y	318504	6398457
-	-	244 Mills	Maison Dieu		Within 1 km of Shearers Lane	Y	318679	6399194
-	-	245 Maskey	Maison Dieu		Within 1 km of Shearers Lane	Y	318795	6399314
-	-	246 Burley	Maison Dieu		Within 1 km of Shearers Lane	Y	318879	6399292
-	-	247 Zanardi	Maison Dieu		Within 1 km of Shearers Lane	Y	317979	6399821
-	-	127 Riley	Maison Dieu		127 - Riley		320916	6394511
-	-	321 Hayes	Jerrys Plains		321 - Hayes		304021	6402284
-	-	434 Murphy	Jerrys Plains		434 - Murphy		305191	6401488
-	-	436 Skinner	Jerrys Plains		436 - Skinner		302021	6404598

APPENDIX 4A NOISE COMPLIANCE ASSESSMENT

Applicable Meteorological Conditions

1. The noise criteria in Table 2 are to apply under all meteorological conditions except the following:
 - (a) where 3°C/100 metres (m) lapse rates have been assessed, then:
 - wind speeds greater than 3 metres/second (m/s) measured at 10 m above ground level;
 - temperature inversion conditions between 1.5°C and 3°C/100 m and wind speeds greater than 2 m/s measured at 10 m above ground level; or
 - temperature inversion conditions greater than 3°C/100 m.
 - (b) where Pasquill Stability Classes have been assessed, then:
 - wind speeds greater than 3 m/s at 10 m above ground level;
 - stability category F temperature inversion conditions and wind speeds greater than 2 m/s at 10 m above ground level; or
 - 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 shall be that recorded by the meteorological station required under condition 24 of schedule 3.

Compliance Monitoring

3. Attended monitoring is to be used to evaluate compliance with the relevant conditions of this approval.

Note: The Secretary may direct that the frequency of attended monitoring increase or decrease at any time during the life of the project.
4. Unless otherwise agreed by the Secretary, this monitoring must be carried out in accordance with the relevant requirements for reviewing performance set out in the *NSW Industrial Noise Policy (2000, or its latest version)* in particular the requirements relating to:
 - (a) monitoring locations for the collection of representative noise data;
 - (b) meteorological conditions during which collection of noise data is not appropriate;
 - (c) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment;
 - (d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration; and
 - (e) the use of an appropriate modifying factor for low frequency noise to be applied during compliance testing at any individual residence if low frequency noise is present (in accordance with the *NSW Noise Policy for Industry (2017, or its latest version) Fact Sheet C*) and before comparison with the specified noise levels in this approval.

APPENDIX 5
BIODIVERSITY OFFSET STRATEGY

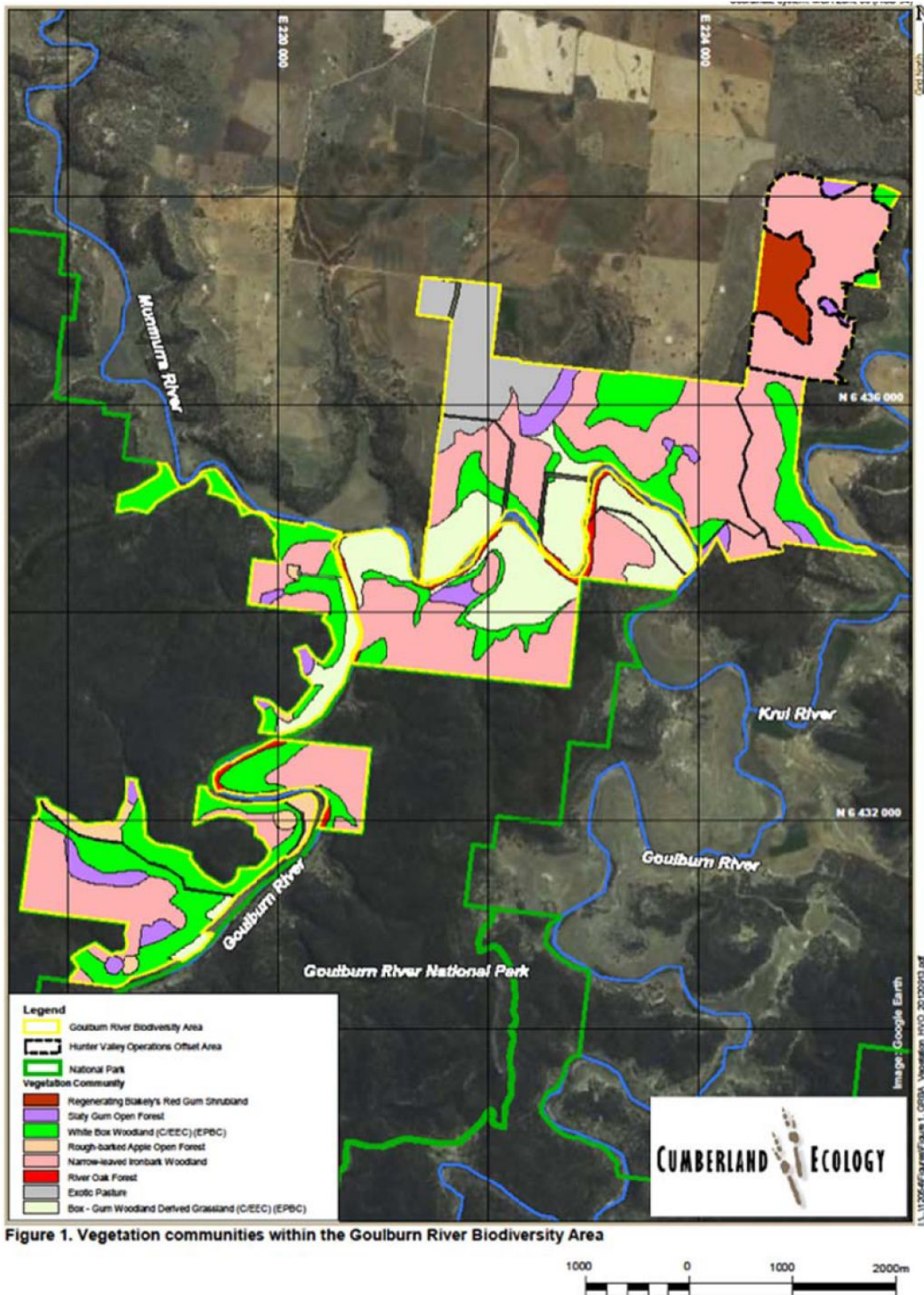


Figure 1. Vegetation communities within the Goulburn River Biodiversity Area

Note: This plan shows the entire Goulburn River Biodiversity Area, 140 hectares of which constitutes the offset area for the HVO South Project (see black dash outlined area), and 1,063 hectares of which constitutes the offset area for the Warkworth Mine

APPENDIX 6 CONCEPTUAL REHABILITATION PLAN

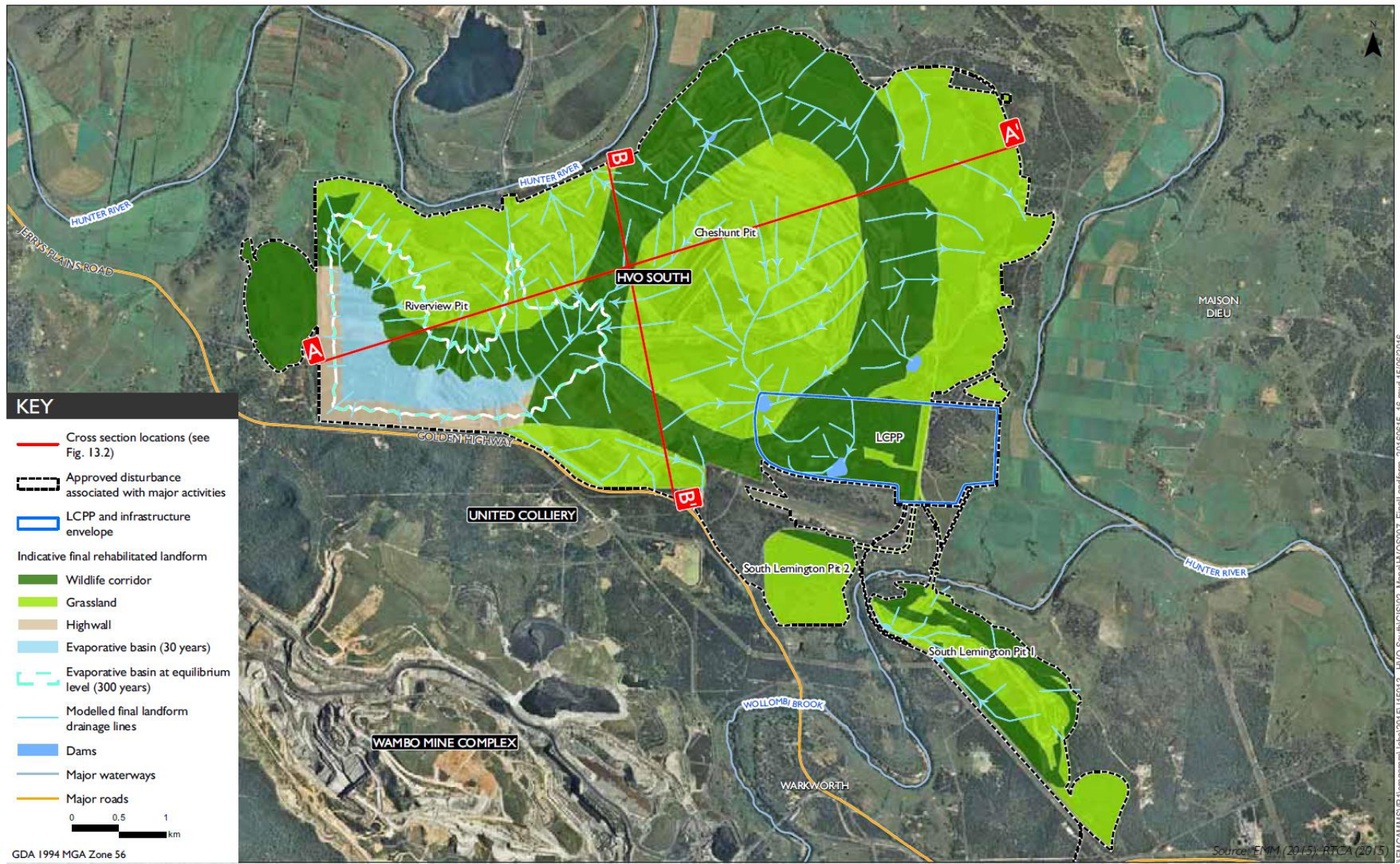
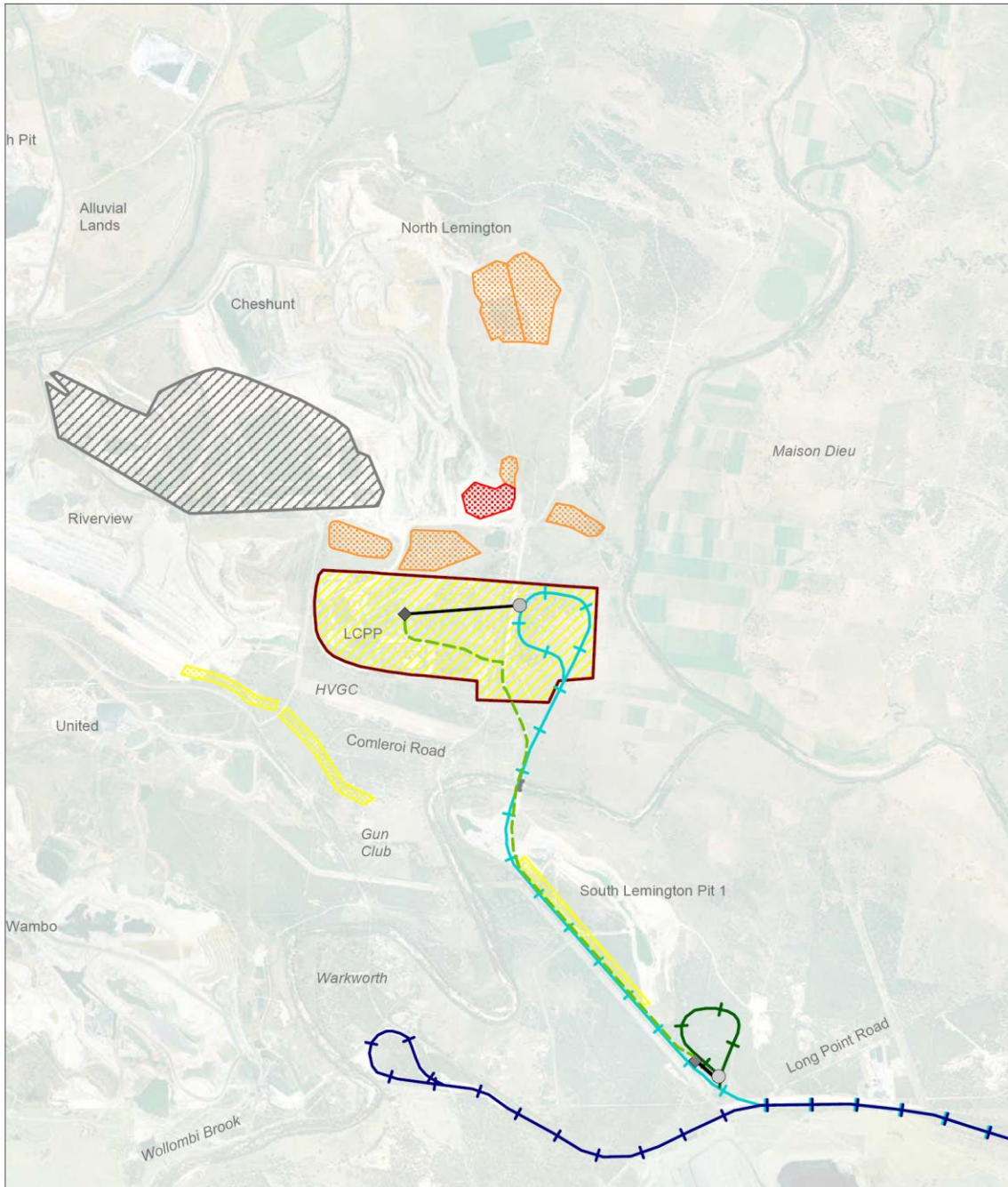


Figure 1: Final Rehabilitated Landform



Figure 2: Indicative Final Rehabilitated Landform Cross-Sections

APPENDIX 7 TRANSPORT OPTIONS



Legend

	Lemington Coal Preparation Plant and Associated Infrastructure		Existing Tailings Facility
	Final Void		Proposed Tailings Facility
	Loading Terminal		Rehabilitated Tailings Facility
	Coal Stockpile		
	Proposed Trucking & Conveyor Route		
	Proposed Short Loop		
	Coal Conveyor		
	Proposed Rail Line		
	Wambo Rail Loop and Spur		
	Existing Bridge		

Figure 5.7

Proposed LCPP Footprint, Transport Options from LCPP to Wambo Rail Spur, Tailings Storage Facilities and Final Void

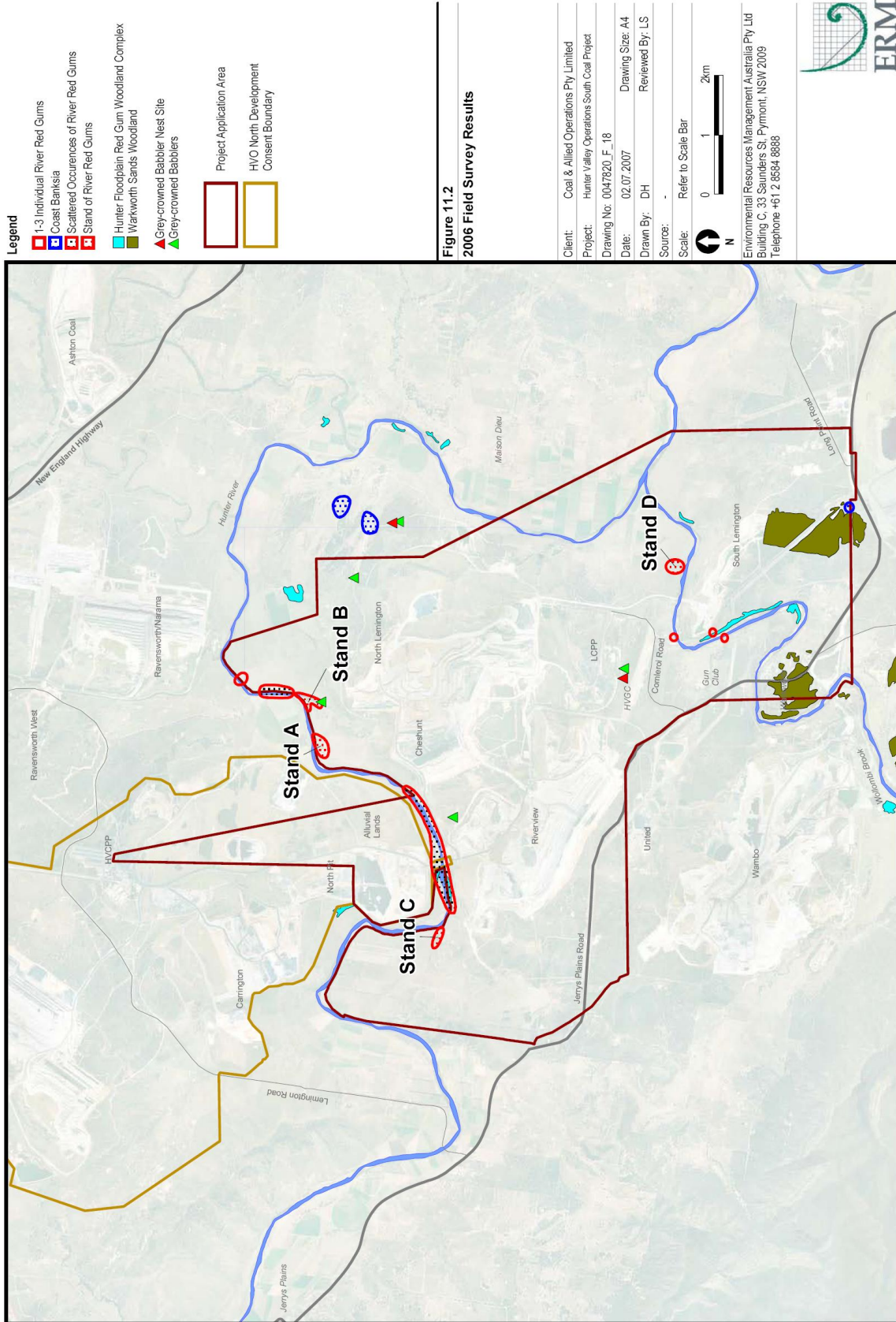
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Project:	Hunter Valley Operations South Coal Project
Drawing No:	0047820_F_10
Date:	27.08.2007
Drawn By:	DH
Source:	-
Scale:	Refer to Scale Bar

Suffix No:	R4
Drawing Size:	A4
Reviewed By:	LS

Environmental Resources Management Australia Pty Ltd
Building C, 33 Saunders St, Pyrmont, NSW 2009
Telephone +61 2 8584 8888

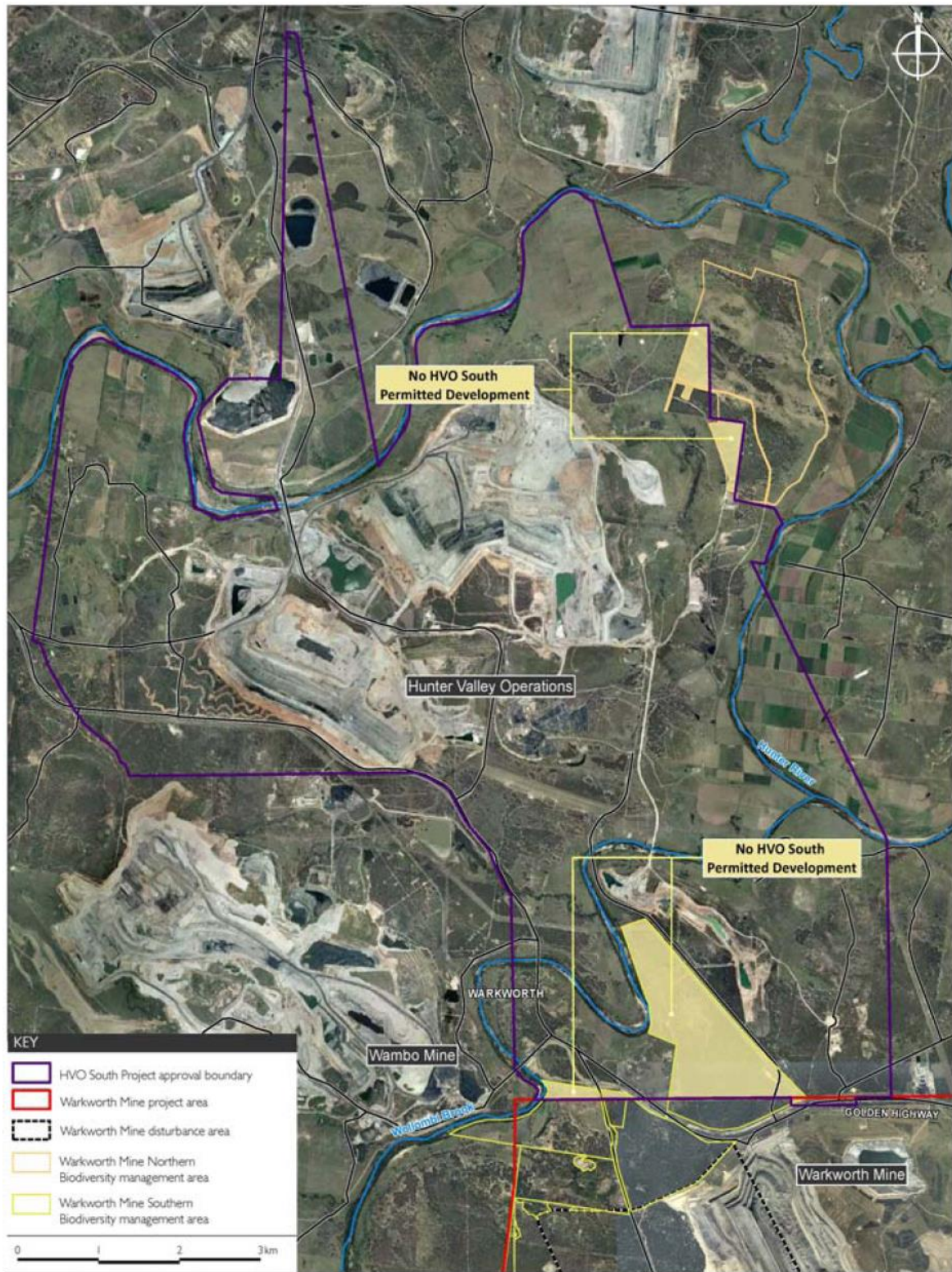


APPENDIX 8 THREATENED SPECIES AND EECs AT HVO SOUTH



APPENDIX 9
(Deleted)

APPENDIX 10
HVO SOUTH LANDS DEDICATED AS OFFSETS FOR WARKWORTH MINE



HVO South Lands Dedicated as Offsets to Other Mines