AQC Dartbrook Management Pty Ltd v Minister for Planning and Public Spaces LEC No: 2019/346483

ANNEXURE A

ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

INTEGRATED STATE SIGNIFICANT DEVELOPMENT

DETERMINATION OF DEVELOPMENT APPLICATION PURSUANT TO SECTIONS 76(A)9 & 80

I, the Minister for Urban Affairs and Planning, pursuant to Sections 76(A)9 & 80 of the Environmental Planning and Assessment Act, 1979 ("the Act") determine the development application ("the application") referred to in Schedule 1 by granting consent to the application subject to the conditions set out in Schedule 2.

The reasons for the imposition of the conditions are to:

- (i) minimise the adverse impact the development may cause through water and air pollution, noise, visual disturbance and subsidence effects;
- (ii) provide for environmental monitoring and reporting; and
- (iii) set requirements for mine infrastructure provision.

Andrew Refshauge MP

Minister for Urban Affairs and Planning,

Sydney, 28 August 2001 File No. N99/00230

Schedule 1

Application made by: Dartbrook Coal Pty Limited (ACN 007 377 577)

("the Applicant").

To: The Minister for Urban Affairs and Planning

(DA 231-07-2000)

In respect of: Land described in Appendix "1".

For the following: Extension to an underground coal mine and rejects

emplacement area, increase in coal production rate and

construction and operation of associated surface

facilities ("the Development").

BCA Classification: Class 5 - Administration building

Class 8 – Coal preparation plant building

Class 10(a) - Seam Access Slot, Ventilation Shafts

Note: 1) To ascertain the date upon which the consent

becomes effective, refer to section 83 of the Act.

2) To ascertain the date upon which the consent is liable

to lapse, refer to section 95 of the Act.

Dartbrook Extended Underground Coal Mine

SCHEDULE 2

Development Consent Conditions for the Dartbrook Extended Underground Coal Mine

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DEFINITIONS:

Agricultural Productivity – as defined by the Agricultural Suitability Classification System used by NSW Agriculture.

Annual Review - The Annual Review required by Condition 9.2 (a)

Applicant - AQC Dartbrook Management Pty Ltd, or any person carrying out any development under this consent

Approved mine plan - The underground mine plan in Appendix 3

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

Calendar year - A period of 12 months from 1 January to 31 December

CCC – Community Consultative Committee

CHPP – *Coal Handling and Preparation Plant*

Construction - All physical works to enable mining operations to be carried out, including demolition and removal of buildings or works, and erection of buildings and other infrastructure permitted by this consent

DA - Development Application

DA area - Development Application area which encompasses all surface and underground works on the site, as described in the documents referred to in Condition 1.1 (a)

Decommissioning - The deconstruction or demolition and removal of works installed as part of the development

Delivery shaft - The coal delivery shaft to the Hunter Tunnel as described in the documents listed in Condition 1.1(a)(xi)

Development - The development described in the documents referred to in Condition 1.1 (a), as modified by the conditions of this consent

East Site – the CHPP complex (including coal stockpiles, rail loading facility, and rejects emplacement areas) to the east of the Hunter River and the New England Highway.

EIS - Environmental Impact Statement

Environmental consequences - The environmental consequences of subsidence impacts, including: damage to built features, loss of surface water flows to the subsurface, loss of standing pools, slope changes to streams, adverse water quality impacts, development of iron bacterial mats, cliff falls, rock falls, landslides, damage to Aboriginal heritage sites, impacts on aquatic ecology, and ponding

First workings - Development of main headings, bord and pillar workings, longwall gate roads, related cut throughs and other in-seam workings for mine access and ventilation

Hunter Tunnel Coal Clearance System – including the Hunter Tunnel underground passage that connects the mine workings to the CHPP, passing beneath the Hunter River, Dart Brook, New England Highway and Main Northern Rail Line, through delivery of coal from the working face to the western end of the Hunter Tunnel by conveyors, then delivers ROM coal by conveyor to the existing ROM hopper at the East Site, where it is crushed in the ROM hopper and placed on conveyors that distribute it to the CHPP for processing.

Incident - An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance

Kayuga Entry - The mine entry to the Kayuga Seam located at the West Site

Land - Has the same meaning as the definition of the term in section 1.4 of the Environmental Planning & Assessment Act 1979, except for where the term is used in the noise and air quality conditions of this consent where it is defined to mean the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this consent

Land capability - Refers to the ability of a parcel of land to accept a type and intensity of use permanently, or for specified periods under specific management, without permanent damage

Material harm - Is harm that involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment). This definition excludes "harm" that is authorised under either this consent or any other statutory approval

Mining operations – The carrying out of underground mining within the area covered by the approved mine plan, the extraction, processing, stockpiling and transportation

of coal on the site and the emplacement of coarse/fine coal reject material resulting from underground mining on the site

Mine water - Water that accumulates within, or drains from, active mining and infrastructure areas and any other areas where runoff may have come into contact with carbonaceous material

Minor - Not very large, important or serious

Mitigation - Activities associated with reducing the impacts of the development prior to or during the occurrence of those impacts

Modification 7 - The modification to the development as described in the documents referred to in Condition 1.1(a)(xi)

MOP – *Mining Operations Plan*

Mtpa - Million tonnes per annum

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

Non-compliance - An occurrence, set of circumstances or development that is a breach of this consent

Privately-owned land - Land that is not owned by a public agency or a mining, petroleum or extractive industry company (or its subsidiary)

Public infrastructure - Linear and related infrastructure that provides services to the general public, such as roads, railways, water supply, drainage, sewerage, gas supply, electricity, telephone, telecommunications, etc

Reasonable - Means applying judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided and the nature and extent of potential improvements

Recommencement - Restarting construction or mining operations on the site after a period of care and maintenance

Rehabilitation - The restoration of land disturbed by the development to a good condition, to ensure it is safe, stable and non-polluting

Remediation - Activities associated with partially or fully repairing or rehabilitating the impacts of the development or controlling the environmental consequences of these impacts

Residence - Existing or approved dwelling at the date of grant of this consent

ROM - Run-of-Mine coal production

Safe, serviceable and repairable criteria – Category 3 to 5 for strain and/or category C or D for tilt, in accordance with Australian Standard AS2870-1996

Second workings - Extraction of coal from longwall panels and mini-wall panels

Secretary - Planning Secretary under the Environmental Planning and Assessment Act 1979, or nominee

Site - The land defined in Appendix 1 Schedule of Lands

Subsidence - The totality of subsidence effects, subsidence impacts and environmental consequences of subsidence impacts

Subsidence effects - Deformation of the ground mass due to mining, including all mining-induced ground movements, such as vertical and horizontal displacement, tilt, strain and curvature

Subsidence impacts - Physical changes to the ground and its surface caused by subsidence effects, including tensile and shear cracking of the rock mass, localised

buckling of strata caused by valley closure and upsidence and surface depressions or troughs

Surface facilities - Associated surface facilities and infrastructure to facilitate mining operations

West Site - surface facilities to the west of the Hunter River and the New England Highway.

Government Authorities

ARTC – Australian Rail Track Corporation

Department – NSW Department of Planning, Industry and Environment

DPIE Water - Water Group within the Department

DPIE Environment - Environment, Energy and Science Group within the Department

DRG - Division of Resources and Geoscience within the Department

DSC - Dams Safety Committee

EPA - Environment Protection Authority

MSC - Muswellbrook Shire Council

NSW Agriculture - New South Wales Agriculture

NSW Fisheries - New South Wales Fisheries

Resources Regulator – *NSW Resources Regulator*

SA NSW – Subsidence Advisory NSW

TfNSW – *Transport for NSW*

UHSC – Upper Hunter Shire Council

Red type represents June 2002 modification
Green type represents June 2003 modification
Blue type represents November 2003 modification
Orange type represents March 2004 modification
Pink type represents May 2005 modification
Brown represents November 2005 modification
Purple represents March 2022 modification

1. General

There is an obligation on the Applicant to prevent and minimise harm to the environment throughout the life of the project. This requires that all practicable measures are to be taken to prevent and minimise harm that may result from the construction, operation and, where relevant, decommissioning of the development.

1.1 Adherence to terms of DA, EIS, etc.

- (a) The development is to be carried out generally in accordance with Development Application No. 231-07-2000, and the EIS dated June 2000, prepared by HLA EnviroSciences Pty Ltd, and the following documentation:
 - (i) The following documents supplied to the EPA in relation to the development:
 - Odour Analysis of Ventilation Air from the No.1 Ventilation Shaft at Dartbrook Mine, Office Memorandum, David Rollings, HLA Envirosciences Pty Ltd to Colin Phillips, HLA Envirosciences Pty Ltd, (dated 11th May 2000);
 - Laboratory Results from The Odour Unit Pty Ltd to HLA Envirosciences Pty Ltd, (dated 29th March 2000);
 - Stack Emissions Testing Dartbrook Coal Pty Ltd, Dartbrook, NSW, April 2000, dated 1st May 2000, prepared by HLA Envirosciences Pty Ltd on behalf of Dartbrook Coal Pty Ltd;
 - Analysis of Gaseous Discharges from Dartbrook Mine Operations and additionally, Ambient Air Samples from Selected Background Sites, Office Memorandum from Ken Ferguson/Dr Jim Orr, HLA Envirosciences Pty Ltd to Colin Phillips, HLA Envirosciences Pty Ltd, (dated 3 March 2000);
 - Dartbrook Ventilation Odour, Facsimile from Nigel Holmes, Holmes Air Sciences to Andrew Kerr, Shell Coal, (dated 28 September 2000);

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¹ EPA General Terms of Approval

- (ii) Additional information provided by the Applicant to the DPIE Environment in relation to archaeology and flora and fauna matters, during the assessment of DA 231-07-2000;
- (iii) Anglo Coal Dartbrook Extended Mine Project Commission of Inquiry, Primary Submission (Dartbrook Coal, dated March 2001);
- (iv) Anglo Coal Dartbrook Extended Mine Project Commission of Inquiry, Submission in Reply (Dartbrook Coal, dated May 2001); and
- (v) Dartbrook Underground Coal Mine Project Environmental Impact Statement, prepared by Envirosciences Pty Limited, November 1990;
- (vi) Development Application No. 53-10-98, dated 12 October 1998, accompanying Statement of Environmental Effects dated October 1998 prepared by Dartbrook Coal Pty Limited and in accordance with the development consent to construct a 450ML Discharge Dam and Pipeline issued by the Minister of Urban Affairs and Planning to Dartbrook Coal Pty Limited on 5 March 1999;
- (vii) The information titled 'Dartbrook Extended Coal Project Development Consent Modification Application Supporting Information' prepared in support of a Section 96(1A) application for the Dartbrook Coal Mine, dated 27 May 2002, prepared by Hansen Consulting;
- (viii) The information on the emergency tailings storage cell in the document titled "Dartbrook Extended Coal Project Development Consent Modification Application Supporting Information", dated 10 April 2003, prepared by Hansen Consulting;
- (ix) The information titled "Dartbrook Coal Mine: Statement of Environmental Effects for Modification to Rejects Disposal System", dated 9 March 2004, prepared by Hansen Consulting;
- (x) The information titled "Dartbrook Mine Statement of Environmental Effects for New ROM Coal Stockpiles, Underground Tailings Disposal & Nitrogen Injection Plant", dated 12 August 2005 and prepared by Hansen Consulting; and
- (xi) The environmental assessment titled "Dartbrook Mine Modification 7 Environmental Assessment Kayuga Seam Bord and Pillar Mining Operations", dated June 2018 and prepared by Hansen Bailey Environmental Consultants, and the associated Response to Submissions titled "Dartbrook Mine Modification 7 Response to Submissions", dated August 2018 and prepared by Hansen Bailey Environmental Consultants, and the additional information dated 12 October and 13 November 2018 and 23 April 2019 as revised by the Dartbrook Mine Modification 7 Updated Response to Contentions (Hansen Bailey 2021) dated November 2021.

- (a1) The development must be carried out in compliance with the conditions of this consent.
- (a2) The development must be carried out generally in accordance with the development layout in Appendix 2 and the approved mine plan in Appendix 3.
- (a3) Consistent with the requirements in this consent, the Secretary may make written directions to the Applicant in relation to:
 - (i) the content of any strategy, study, system, plan, program, review, audit, notification, report or correspondence submitted under or otherwise made in relation to this consent, including those that are required to be, and have been, approved by the Secretary; and
 - (ii) the implementation of any actions or measures contained in any such document referred to in Condition 1.1 (a).

If there is any inconsistency between the above, either the conditions of this consent or the most recent document shall prevail to the extent of the inconsistency.

- (b) In accordance with section 80A(5) of the Environmental Planning and Assessment Act 1979 and clause 97 of the Environmental Planning and Assessment Regulation 2000, the Applicant must, surrender to the Minister of Urban Affairs and Planning, the development consent for the Dartbrook Underground Mine (Authorisation 256) issued by the then Minister for Planning to Shell Company of Australia Ltd and Austen & Butta Limited and Bellambi Coal Company Pty Ltd and Dartbrook Coal Pty Limited on 2 December 1991, and the following development consents for Dartbrook Mine issued by the Minister for Urban Affairs and Planning or Muswellbrook Council by the 30 June 2005, or such other later date agreed by the Secretary:
 - (i) Amendment of a Development Consent (issued on 2 December 1991 by the Minister for Planning), dated 9 July 1997; and
 - (ii) Modification to a Development Consent (issued on 2 December 1991 by the Minister for Planning), dated 21 September 1999.

This consent will apply to all facilities and activities subject to these previous consents from the date they are relinquished.

- (c) If, at any time, the Secretary is aware of environmental impacts from the proposal that pose serious environmental concerns due to the failure of environmental management measures in place to ameliorate the impacts, the Secretary may order the Applicant to cease the activities causing those impacts until those concerns have been addressed to the satisfaction of the Secretary.
- (d) If any licence conditions are breached the applicant must comply with any modification to the work as specified by the relevant agency.

Note: Conditions of this consent relating to the matters of air quality, noise management and proponents obligations (Conditions 6.1, 6.4 and 11.2, 11.3 respectively) must prevail over the conditions related to these matters in the existing consents for Dartbrook Mine as listed under Condition 1.1(b).

1.2 Period of Approval/Project Commencement

(a) Mining operations may be carried out on the site until 5 December 2027.

Note: Under this consent, the Applicant is required to decommission and rehabilitate the site and carry out other requirements in relation to mining operations. Consequently, this consent will continue to apply in all respects other than to permit the carrying out of mining operations until the rehabilitation of the site and other requirements have been carried out to the required standard.

- (b) At least two weeks prior to the commencement of construction and Mining Operations respectively or within such period as agreed by the Secretary, the Applicant must submit for the approval of the Secretary a compliance report detailing compliance with all the relevant conditions that apply prior to the commencement of construction and Mining Operations.
- (c) Date of commencement of construction and Mining Operations is to be notified in writing to the Secretary, Resources Regulator, MSC and UHSC at least two weeks prior to commencement of construction and Mining Operations respectively.

1.3 [Deleted]

1.4 Security Deposits and Bonds

Security deposits and bonds will be paid as required by DRG under mining lease approval conditions.

2. Mine Management

2.1 Mine Management Plan, Operations and Methods

- (a) No mining undertaken in accordance with this consent must occur until the Applicant has submitted and had accepted by the DRG, a Mining Operations Plan (MOP) in accordance with current guidelines issued by DRG. The Plan covers mining operations for a period of up to seven years.
- (b) The MOP must:

- (i) demonstrate consistency with the conditions of this consent and any other statutory approvals;
- (ii) demonstrate consistency with the Environmental Management Plans for the project site;
- (iii) provide the basis for implementing mining operations, environmental management, and ongoing monitoring;
- (iv) include a mine rehabilitation and land use management plan that
 - (a) describes how the rehabilitation of the site would achieve the objectives identified in Table 3 (see Condition 3.7 (a));
 - (b) include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site (including progressive rehabilitation), and triggering remedial action (if necessary); and
 - (c) include a program to monitor and report on the effectiveness of the rehabilitation measures and progress against the detailed performance and completion criteria; and
- (v) identify a schedule of proposed mine development for the period covered by the plan and include:
 - the area proposed to be impacted by mining activity and resource recovery mining methods and remediation measures,
 - areas of environmental, heritage or archaeological sensitivity and mechanisms for appropriately minimising impact,
 - water management, and
 - proposals to appropriately minimise surface impacts.
- (c) In preparing the MOP, the Applicant must consult with affected service authorities and make arrangements satisfactory to those authorities for the protection or relocation of those services.
- (d) A copy of the MOP, excluding commercial in confidence information, must be forwarded to MSC, UHSC and the Secretary within 14 days of acceptance by DRG.
- (e) At least two years prior to the cessation of mining operations the Applicant must investigate, determine and report, taking account of the potential community benefits, on a final strategy for the future use of the mine site, weirs, dams and any other infrastructure in consultation with the Department, DPIE Water, MSC and UHSC for approval of DRG and the Secretary.

2.2 Spontaneous Combustion

The Applicant must prepare, prior to the recommencement of mining operations, a Spontaneous Combustion Management Plan to the satisfaction of Resources Regulator. The plan must describe the measures to be implemented to prevent, detect and control spontaneous combustion.

2.3 Limits on Production or Hours of Operation

(a) Run of Mine coal production must not exceed 6 Mtpa.

- (b) Heavy earth moving equipment must not operate on the rejects emplacement area, and coal rejects must not be hauled to the rejects replacement area, between the hours of 6.00pm and 7.00am, except in an emergency, and as agreed by the Secretary.
- (c) The Applicant may not use the existing Dartbrook coal washery for the purpose of washing ROM coal until the noise mitigation measures described in the report from Bridges Acoustics dated 20 July 2020 (RefJ0073-05-L1) have been completed to the satisfaction of the Secretary.

2.4 Limits on Constructions Authorised in Mod 7

The Applicant must not construct a new shaft site or deep delivery shaft connecting to the Hunter Tunnel and associated infra-structure during the currency of this approval (ie until 2027).

2.5 Limits on Stockpiling

The Applicant must not stockpile ROM coal at the West Site.

3. Land and Site Environmental Management

3.1 [Deleted]

3.2 Environmental Management Strategies and Plans

- (a) Prior to the recommencement of mining operations, the Applicant must prepare an Environmental Management Strategy for the development.
- (b) This strategy must:
 - (i) provide the strategic framework for environmental management of the development;
 - (ii) identify the statutory approvals that apply to the development;
 - (iii) set out the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;
 - (iv) set out the procedures to be implemented to:
 - (a) keep the local community and relevant agencies informed about the operation and environmental performance of the development;
 - (b) receive, record, handle and respond to complaints;
 - (c) resolve any disputes that may arise during the course of the development;
 - (d) respond to any non-compliance and any incident;
 - (e) respond to emergencies; and
 - (v) include:
 - (f) references to any strategies, plans and programs approved under the conditions of this consent; and

- (g) a clear plan depicting all the monitoring to be carried out under the conditions of this consent.
- (c) The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and performance measures in this consent. Any exceedance of these criteria or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.

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

- (i) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur;
- (ii)consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and
- (iii) implement reasonable remediation measures as directed by the Secretary.
- (d) The Applicant must prepare the following environmental management plans:
 - Extraction Plans (refer condition 3.3)
 - Archaeology and Cultural Heritage Management Plan (refer condition 3.4)
 - Flora and Fauna Management Plan (refer condition 3.5)
 - Erosion and Sediment Control Plan (refer condition 3.6(a))
 - Soil Stripping Management Plan (refer condition 3.6(c))
 - Landscape Management Plan (refer condition 3.8)
 - Bushfire Management Plan (refer condition 3.9)
 - Land Management Plan (refer condition 3.10(a))
 - Site Water Management Plan (refer condition 4.1)
 - Flood Response Plan (refer condition 4.3(a))
 - Waste Management Plan (refer condition 5.2(a))
 - Air Quality and Greenhouse Gas Management Plan (refer condition 6.1(f))
 - Blast Management Plan (refer condition 6.3(a))
 - Road Closure Management Plan (refer to condition 6.3(j))
 - Noise Management Plan (refer condition 6.4.2(a))
 - Lighting Management Plan (refer condition 6.5)
 - Vibration Management Plan (refer to condition 6.6(b))
- (e) The Applicant must implement the environmental management plans in Condition 3.2 (d) as approved by the Secretary.

Management Plan Requirements

- (f) Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:
 - (i) a summary of relevant background or baseline data;
 - (ii) details of:
 - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
 - any relevant limits or performance measures and criteria; and

- the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;
- (iii) description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;
- (iv) a program to monitor and report on the:
 - impacts and environmental performance of the development; and
 - effectiveness of the management measures set out pursuant to paragraph (iii);
- (v) 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;
- (vi) a program to investigate and implement ways to improve the environmental performance of the development over time;
- (vii) a protocol for managing and reporting any:
 - incident, non-compliance or exceedance of any impact assessment criterion or performance criterion);
 - complaint; or
 - failure to comply with other statutory requirements; and
- (viii) a protocol for periodic review of the plan.

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

Evidence of Consultation

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

Staging, Combining and Updating Strategies, Plans or Programs

- (h) With the approval of the Secretary, the Applicant may:
 - (i) prepare and submit any strategy, plan or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program);
 - (ii) combine any strategy, plan or program required by this consent (if a clear relationship is demonstrated between the strategies, plans or programs that are proposed to be combined);

- (iii) update any strategy, plan or program required by this consent (to ensure the strategies, plans and programs required under this consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development); and
- (iv) combine any strategy, plan or program required by this consent with any similar strategy, plan or program required by a consent or approval for an adjoining mine subject to common, shared or related ownership or management.
- (i) With the agreement of the Secretary, a strategy, plan or program may be staged or updated without consultation being undertaken with all parties required to be consulted in the relevant condition in this consent.
- (j) If the Secretary agrees, a strategy, plan or program may be staged without addressing particular requirements of the relevant condition of this consent if those requirements are not applicable to the particular stage.

Revision of Strategies, Plans and Programs

- (k) Within three months of:
 - (i) the notification of an incident under Condition 9.3 (a);
 - (ii) the submission of an Annual Review under Condition 9.2 (a);
 - (iii) the submission of an Independent Environmental Audit under Condition 8.1 (a); or
 - (iv) the approval of any modification of the conditions of this consent (unless the condition specifies otherwise),
 - the suitability of existing strategies, plans and programs required under this consent must be reviewed by the Applicant.
- (I) If necessary, to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Secretary. Where revisions are required, the revised document must be submitted to the Secretary for approval within six weeks of the completion of the review on Condition 3.2 (j).

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

Application of Existing Strategies, Plans or Programs

(m) The Applicant must continue to apply existing management strategies, plans or monitoring programs required under this consent prior to the approval of Modification 7, and approved by the Secretary prior to the approval of Modification 7, subject to the conditions of this consent until the approval of a similar plan, strategy or program following the approval of Modification 7.

3.3 Extraction Plan

(a) The Applicant must prepare an Extraction Plan for all second workings on the

site to the satisfaction of the Secretary. Each Extraction Plan must:

- (i) be prepared by a suitably qualified and experienced person/s;
- (ii) include detailed plans of existing and proposed first and second workings and overlying surface features, including any applicable adaptive management measures;
- (iii) include adequate consideration of mine roof and floor conditions, pillar width to height ratio, final pillar design dimensions and the long-term stability of pillars which has been undertaken in consultation with the Resources Regulator;
- (iv) provide updated predictions of the potential subsidence effects, subsidence impacts and environmental consequences of the proposed mining covered by the Extraction Plan, incorporating any recently obtained information;
- (v) describe in detail the performance indicators to be implemented to ensure compliance with the performance measures in Table 1 and Table 2, and manage or remediate any impacts and/or environmental consequences to meet the rehabilitation objectives in Condition 3.7 (a);
- (vi) demonstrate that the total maximum vertical mining subsidence will not exceed the total vertical mining subsidence assessed and approved in G.E. Holt and Associates Pty Ltd.2000. Subsidence impact study for proposed extension of longwall mining operations at Dartbrook Colliery' (Holt 2000) being Appendix N of the EIS dated June 2000 and approved in condition 1.1(a). Vertical mining subsidence can exceed the parameters for the Kayuga and Wynn seams previously assessed by Holt 2000 but only within the estimated vertical maximum subsidence set out in Table 1 of Byrnes Geotechnical Report dated 3 July 2020;
- (vii) demonstrate that there will be no overall cumulative environmental impacts to groundwater sources greater than previous assessed and approved in Mackie Environmental Research (2000). Dartbrook Extended Underground Coal Mine Water Management Studies being Appendix L of the EIS dated June 2000 and approved in condition 1.1(a);
- (viii) indicate the relevant sequencing and proposed extraction of the seams in accordance with Table 1 and 2 and section 2.2.1 of the Updated Response to Contentions.
- (ix) include a:
 - Subsidence Monitoring Program which has been prepared in consultation with the Resources Regulator to:
 - o describe the ongoing conventional and non-conventional subsidence monitoring program:
 - o provide data to assist with the management of risks associated with conventional and non-conventional subsidence;
 - o validate the conventional and non-conventional subsidence predictions; and
 - o analyse the relationship between the predicted and actual conventional and non-conventional subsidence effects and predicted and actual impacts under the plan and any ensuing environmental consequences;
 - Built Features Management Plan which has been prepared in

consultation with the Resources Regulator, to manage the potential subsidence impacts of the proposed underground workings on built features (excluding mine-owned infrastructure), and which:

- o has been prepared in consultation with the owners of potentially affected features and has taken their views into account;
- o ensures that, with the consent of the owner, a pre-mining structural inspection is conducted of each structure and a report prepared on the structural integrity of all buildings in their entirety (including roofs, ceilings, openings, foundations and household sewage treatment and disposal systems);
- o addresses in appropriate detail all items of key public infrastructure (with particular consideration of transmission lines and towers (including angle towers), other public infrastructure and all classes of other built features;
- o recommends appropriate pre-mining mitigation measures to reduce environmental consequences and comply with the performance measures in Table 2;
- o recommends appropriate remedial measures and includes commitments to mitigate, repair, replace or compensate predicted impacts on potentially affected built features in a timely manner; and
- o in the case of all key public infrastructure, and other public infrastructure except roads, trails and associated structures, reports external auditing for compliance with ISO 31000 (or alternative standard agreed with the infrastructure owner), and provides for annual auditing of compliance and effectiveness during extraction which may impact the infrastructure;
- Water Management Plan which has been prepared in consultation with EPA, DPIE Water and NRAR, which provides for the management of potential impacts and/or environmental consequences of the proposed second workings on surface water and groundwater resources and flooding, including:
 - o surface and groundwater impact assessment criteria that build on the performance measures in Tables 1 and 4;
 - o a program to monitor and report on compliance with the surface and groundwater impact assessment criteria, including:
 - stream flows, quality and channel stability;
 - groundwater inflows to underground workings;
 - the height of groundwater depressurisation; and
 - groundwater levels, yield and quality, including for privatelyowned bores, in the vicinity of the site; and
 - a program to compare predicted impacts with actual impacts, including mapping of subsidence profiles;
 - Biodiversity Management Plan which has been prepared in consultation with DPIE Environment, which provides for the management of potential impacts and/or environmental consequences of the proposed second workings on aquatic and terrestrial flora and fauna, with a specific focus on threatened species, populations and their habitats, endangered ecological communities and groundwater

- dependent ecosystems;
- Land Management Plan which has been prepared in consultation with any affected public authorities, which provides for the management of potential impacts and/or environmental consequences of the proposed second workings on land in general, with a specific focus on agricultural enterprises, cliffs, minor cliffs, rock face features and steep slopes;
- Heritage Management Plan which has been prepared in consultation with DPIE Environment and relevant stakeholders for heritage items, which provides for the management of potential impacts and/or environmental consequences of the proposed second workings on heritage items and includes all requirements under Condition 3.4;
- Public Safety Management Plan which has been prepared in consultation with the Resources Regulator to ensure public safety and manage access on the site;
- Trigger Action Response Plan to identify risks and specific follow up actions to avoid or remediate exceedances of the performance measures in Table 1 and Table 2; and
- Contingency Plan that expressly provides for adaptive management where monitoring indicates that there has been an exceedance of any performance measure in Table 1 and Table 2, or where any such exceedance appears likely.

Notes:

- This condition does not apply to first or second workings which are covered by an Extraction Plan or Subsidence Management Plan approved, or submitted for approval, prior to the approval of Modification 7. In accordance with Condition 3.2 (i), the preparation and implementation of Extraction Plans may be staged, with each plan covering a defined area of underground workings. In addition, these plans are only required to contain management plans that are relevant to the specific underground methods that are being carried out.
- (b) The Applicant must not undertake second workings until the relevant Extraction Plan is approved by the Secretary.
- (c) The Applicant must compensate landowners for compensable loss in accordance with the provisions of the Mining Act 1992 and/or the Coal Mine Subsidence Compensation

Performance Measures – Natural and Heritage Features

(d) The Applicant must ensure that second workings, undertaken following the approval of Modification 7 do not cause any exceedances of the performance measures in Table 1.

Table 1: Subsidence impact performance measures – natural and heritage features etc

Feature	Performance Measures
Watercourses	
6 th Order Streams and their alluvium	Negligible subsidence impacts and environmental consequences

4 th and 5 th Order Streams and their alluvium	 No subsidence impact or environmental consequence greater than minor No connective cracking between the surface, or the base of the alluvium, and the underground workings
1 st , 2 nd and 3 rd Order Streams	• No subsidence impact or environmental consequence greater than predicted in the documents referred to in Condition 1.1 (a)
Water Resources	
Hunter Unregulated and Alluvial Water Sources	• No greater environmental consequences greater than predicted in the documents referred to in Condition 1.1 (a) <i>or</i> as permitted under the performance measures for Watercourses (above)
Biodiversity	
Threatened species, threatened populations, or endangered ecological communities	Negligible environmental consequences
Agriculture	
Agricultural enterprises	Negligible loss in land capability or agricultural productivity
Heritage sites	
Aboriginal and Heritage sites	Negligible subsidence impacts or environmental consequences
	Negligible loss of heritage value

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Notes:

- Streams are classified in accordance with the Strahler stream order system.
- These performance measures apply to all mining taking place after the date of approval of Modification 7.
- The Applicant will be required to define more detailed performance criteria for each of these performance measures in the various management plans that are required under this consent (see Condition 3.3(a)).
- (e) Measurement and monitoring of compliance with performance measures and performance criteria in this consent is to be undertaken using accepted methods that are approved by the Secretary and appropriate to the environment and circumstances in which the feature or characteristic is located. These methods are to be fully described in the relevant management plans and monitoring programs. All plans and programs forming part of the Extraction Plan must be updated at regular intervals (with the frequency of updates and any revisions to

the plans or programs to be approved by the Secretary) to:

- (i) Include the results of all monitoring undertaken under this consent;
- (ii) Evaluate the effectiveness of the plans or programs against the monitoring results; and
- (iii) Incorporate any adjustments to improve the effectiveness of the plans or programs.

Additional Offsets

- (f) If the Applicant exceeds the performance measures in Table 1 and the Secretary determines that:
 - (i) it is not reasonable or feasible to remediate the subsidence impact or environmental consequence; or
 - (ii) remediation measures implemented by the Applicant have failed to satisfactorily remediate the subsidence impact or environmental consequence,

then the Applicant must provide an offset¹ offset to compensate for the subsidence impact or environmental consequence, following consultation with DPIE Environment to the satisfaction of the Secretary.

¹Offsets must be proportionate to the significance of the subsidence impact or environmental consequence.

Performance Measures – Built Features

(g) The Applicant must ensure that second workings undertaken following the approval of Modification 7 comply with the performance measures in Table 2.

Table 2: Subsidence impact performance measures – built features

Feature	Performance Measures
Key Public Infrastructure	
 Dartbrook and Dorset Roads Main Northern Railway; and Electricity transmission lines and towers 	 Always safe and serviceable Damage that does not affect safety or serviceability must be fully repairable and must be fully repaired
Other Infrastructure	
 Electricity distribution lines, poles and associated towers; Unsealed roads and road culverts, fire trails, fences and other built features; and Other public infrastructure Privately-owned residences Other privately-owned built features and improvements, including farm dams, swimming pools, tennis courts, roads, 	 Always safe Serviceability should be maintained wherever practicable Loss of serviceability must be fully compensated Damage must be fully repairable and must be fully repaired or else replaced or fully compensated

tracks and fences	
Public safety	
Public safety	Negligible additional risk

Notes:

- These performance measures apply to all mining taking place after the approval of Modification 7.
- These performance measures do not apply to built features owned by the Applicant.
- The Applicant is required to define more detailed performance measures in the Built Features Management Plans or Public Safety Management Plan (see Condition 3.3(a)).
- Requirements regarding safety or serviceability do not prevent preventative or mitigatory actions being taken prior to or during mining in order to achieve or maintain these outcomes.
- Requirements under this condition may be met by measures undertaken in accordance with the Coal Mine Subsidence Compensation Act 2017.
- (h) Any dispute between the Applicant and the owner of any built feature over the interpretation, application or implementation of the performance measures in Table 2 is to be settled by the Secretary, following consultation with the Resources Regulator. Any decision by the Secretary shall be final.

First Workings

(i) The Applicant may carry out first workings within the approved mine plan, other than in accordance with an approved Extraction Plan, provided that the Resources Regulator is satisfied that the first workings are designed to remain stable and non-subsiding in the long-term, except insofar as they may be impacted by approved second workings.

Note: The intent of this condition is not to require an additional approval for first workings, but to ensure that first workings are built to geotechnical and engineering standards sufficient to ensure long-term stability, with negligible resulting direct subsidence impacts.

Bord and Pillar Mining

- Prior to undertaking bord and pillar extraction of the Kayuga Seam above previously extracted Wynn Seam longwall panels (see the area identified in Figure 8 of Appendix 3 as the 'Geotechnical Investigation Area'), the Applicant must prepare and submit to the Secretary for approval, a geotechnical study. This study must:
 - (i) be undertaken in consultation with the Resources Regulator; and
 - (ii) describe the final pillar design including pillar width to height ratio, final pillar design dimensions and long-term pillar stability predictions.

Adaptive Management

- (k) The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and performance measures in this consent. Any exceedance of these criteria or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation. Where any exceedance of the criteria or performance measures in this consent has occurred, the Applicant must, at the earliest opportunity:
 - (i) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur;
 - (ii) consider all options for remediation (where relevant) and minimisation of the risk of recurrence and submit a report to the Secretary describing those options and any preferred measures or other courses of action; and
 - (iii) implement any remediation or risk minimisation measures as directed by the Secretary.

3.4 Heritage Assessment, Management and Monitoring

Assessment and Management

The Applicant must prior to the recommencement of construction or Mining Operations:

- (a) prepare an Archaeology and Cultural Heritage Management Plan to address Aboriginal and European cultural heritage issues. The Plan must be prepared in consultation with local Aboriginal stakeholders including the Upper Hunter Wonnarua Tribal Council, Wannaruah Local Aboriginal Land Council and DPIE Environment, in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for proponents* (2010) and to the satisfaction of the Secretary. The Plan must include but not be limited to:
 - (i) provision of management strategies for known Aboriginal heritage sites for all parts of the DA area not affected by mining including protecting extant sites MAC 15 and KAY 4;
 - (ii) identification of any future salvage, excavation and monitoring programs for any known heritage/archaeological sites within the DA area, prior to and during construction;
 - (iii) set out management procedures and protocols for issues relating to Aboriginal heritage for all stages of the development (induction of employees on archaeological and heritage issues; training of field crews, Aboriginal stakeholders participation; staging of works; salvage etc);
 - (iv) details of a program for salvaging known Aboriginal sites;
 - (iv1) an unanticipated finds protocol to manage the discovery of any unrecorded Aboriginal heritage sites;

- (v) details of consultation undertaken with the Aboriginal stakeholders in the preparation of this Plan;
- (vi) details of the measures to fully document, in accordance with the NSW Heritage Council guidelines, any non-indigenous heritage sites that will be required to be removed as a result of the development;
- (vi) details of proposed monitoring that will be undertaken in the areas adjacent to the non-indigenous heritage sites identified within the DA area during their excavation and removal, to identify any further cultural material that may exist;
- (vii) details of the methods to dispose of the excavated non-indigenous heritage sites in a manner approved by the NSW Heritage Council, and following consultation with MSC and the Muswellbrook and Upper Hunter Historical Society;
- (viii) details of how public access to the Kayuga Cemetery must be maintained at all times; and
- (vii) details of the measures to mitigate any potential impacts resulting from the mine on the heritage homesteads Old Kayuga, New Kayuga, Riverview, the McIntyre family cemetery, Kayuga Cemetery and the Kayuga Estate and details of any maintenance procedures proposed to preserve their heritage value in accordance with the NSW Heritage Council requirements.
- (b) Within six months of the commencement of construction or Mining Operations, the Applicant must make a \$50,000 contribution towards the establishment of a trust fund set up by the Department of Urban Affairs and Planning through the Public Trustee. The funds are to be used for a regional study of Aboriginal sites and other cultural heritage projects as defined by the Trust Deed.
- (c) If, during the course of construction of any surface facilities or mining activities, the Applicant becomes aware of any heritage or archaeological sites not previously identified, all work likely to affect the site must cease immediately and the relevant authorities consulted about an appropriate course of action prior to recommencement of work. The relevant authorities may include DPIE Environment, the NSW Heritage Office, the Upper Hunter Wonnarua Tribal Council and Wannaruah Local Aboriginal Land Council.

 Any necessary permits or consents must be obtained and complied with prior to recommencement of work.
- (d) The Applicant is to consult regularly with Aboriginal stakeholders. The results of these consultations must be documented in the Annual Review.
- (e) Any proposed works that will affect non-indigenous heritage items, (including the items listed in Section 3.9.2 of the EIS) including demolition of the items, will require an approval under section 139 of the *Heritage Act 1977* and an application for an excavation permit under section 140 of the *Heritage Act*

1977 to disturb the relics will be required. This may also require additional approvals from MSC if the items are listed on the Heritage Schedule of the Local Environmental Plan.

- (f) The Applicant must engage an appropriately qualified person to prepare an oral history of the mining lease prior to the dispersal of local residents. This will include an investigation of:
 - all buildings and sites within the lease area;
 - areas that will be affected by the mine;
 - the former Dartbrook authorisation area; and
 - the Kayuga cemetery.

The investigation will be carried out in consultation with a member of the Muswellbrook and Upper Hunter Historical Society, who is to be allowed reasonable access to the Applicant's properties for the purposes of assessing European archaeological features. The report must be made available to the Muswellbrook and Upper Hunter Historical Society, MSC and the Secretary.

Monitoring

- (g) The Applicant must monitor the effectiveness of the measures outlined in the Archaeology and Cultural Heritage Management Plan [Condition 3.4(a)]. A summary of monitoring results must be included in the Annual Review.
- (h) The Applicant must prepare a monitoring program of known indigenous heritage sites identified within the DA area, during the period of construction and mining operations. The monitoring program must be included in the Archaeology and Cultural Heritage Management Plan (Condition 3.4 (a)) and a summary of results will be included in the Annual Review. The program must:
 - (i) monitor all known archaeological sites 12 months after undermining for the effects of subsidence and report on the results of these inspections in the Archaeology and Cultural Heritage Management Plan;
 - (ii) monitor the construction of sediment and erosion control works to identify new archaeology sites;
 - (iii) ⁴monitor locations in the subsidence area in order to assess the impacts of subsidence on the land surface, in areas that the Applicant has identified as being potentially affected by the following processes:
 - erosion;
 - rilling:
 - knickpoint initiation; and
 - areas prone to pooling.

Note: No Aboriginal archaeological sites, that have been identified, shall be destroyed without the approval of the Secretary of DPIE Environment under section 90 of the *National Parks and Wildlife Act 1974*, prior to any disturbance of the identified sites by Construction or Mining Operations.

² DPIE Environment General Terms of Approval

³ DPIE Environment General Terms of Approval

⁴ DPIE Environment General Terms of Approval

3.5 Flora and Fauna Assessment, Management and Monitoring Assessment and Management

(a) The Applicant must prior to recommencement of construction or Mining Operations prepare and implement a Flora and Fauna Management Plan for the management of flora and fauna issues for the DA area. The Plan is specifically required to outline procedures for clearing or disturbing vegetation and other habitat types, along with measures for habitat reinstatement and management.

The Plan must be prepared in consultation with DPIE Environment and to the satisfaction of the Secretary. The Plan must be prepared by an appropriately qualified and experienced ecologist. The ecologist must be responsible for providing advice to minimise potential impacts upon threatened and protected fauna species that may utilise the site and to provide expert advice on the regeneration and reconstruction of flora and fauna habitat on mined areas. The Plan must include but not be limited to:

- (i) details of strategic vegetation management, outlining timeframes for clearing and re-vegetation activities and a map illustrating the Plan.

 The Plan should aim to maximise scope for new vegetation to establish and restore ecological integrity;
- (ii) details of the schedule for clearing activities incorporating seasonal habitat requirements for species such as bats and other mammals, with the objective of avoiding incidents during sensitive hibernation and breeding periods;
- (iii) details of methods of how medium to large tree hollows (defined as being greater than 20 centimetres in diameter) and nests removed during construction are salvaged and replaced in adjacent vegetation; and
- (iv) details of management measures to be applied if threatened species identified in the EIS are found on site.
- (b) If threatened species, not identified in the EIS, are identified on the site during construction or operation of the coal mine, the Applicant must cease any work immediately which could adversely impact on the species, pending investigation and negotiation of ameliorative measures. The Applicant must advise the DPIE Environment and engage a suitable qualified person to investigate, and identify appropriate amelioration measures.
- (c) The Applicant must ensure that the construction and operation of ventilation shafts must not require the clearing of trees, where practicable.
- (e) The Applicant must ensure that any vegetated areas cleared for construction purposes and not utilised in the Mining Operations are restored at least to its original condition.
- (f) The Applicant must use locally endemic species for revegetation purposes.

- (g) The Applicant must during the life of the mine and until the revegetated areas are established to the satisfaction of the Resources Regulator, maintain revegetated areas. Maintenance must include, where necessary, but not be limited to:
 - replanting failed or unsatisfactory areas
 - repairing erosion problems
 - fire management fire suppression or fire encouragement
 - pest and weed control
 - control of feral animal populations
 - maintain and repair fencing
 - fertiliser application
 - application of lime or gypsum to control pH and improve soil structure.
- (h) As well as the requirements under subclause (g), the efforts and progress of the Flora and Fauna Management Plan must be documented in the Annual Review.
- (i) Measures to control invasion of weeds as a result of construction activities must be addressed and managed.
- (j) The Applicant must not clear vegetation in advance of the immediate area required for use during construction or operation of the rejects emplacement area.

Monitoring

- (k) The restoration works must be monitored. The results of the monitoring and the effectiveness of the restoration must be reported as part of the Annual Review.
- (l) The Applicant must prepare a detailed monitoring program for habitat areas within the DA area, including any wetlands and aquatic habitats, during the development and for a period after the completion of the development to be determined by the Secretary in consultation with DPIE Environment. The monitoring program must be included in the Flora and Fauna Management Plan (Condition 3.5(a)) and a summary of the results must be provided in the Annual Review. The program must:
 - (i) monitor impacts attributable to the development and include monitoring of the success of any restoration or reconstruction works.

 The Applicant must carry out any further works required by the Secretary and Resources Regulator as a result of the monitoring;
 - (ii) establish an ongoing monitoring program of the existing and proposed revegetated areas to assess their floristics and structure and to propose contingency measures for improvements to revegetation if required; and
 - (iii) establish an ongoing monitoring program in the rejects emplacement area, of fauna species diversity and abundance and the effectiveness of reconstructed ecosystems in providing fauna habitat and contingency measures should impacts be identified as occurring.

Note: The information obtained from the monitoring must be used to guide

future revegetation efforts on the mine site.

3.6 Prevention of Soil Erosion

- (a) The Applicant must, prior to the recommencement of construction or mining operations, prepare an Erosion and Sediment Control Plan for construction and ongoing use of surface facilities to the satisfaction of the Secretary.
- (b) The Erosion and Sediment Control Plan must include but not be limited to:
 - (i) details of temporary and permanent erosion and sediment control systems to be used during both construction and/or the expansion of the rejects emplacement area, including earthworks associated with landscaping;
 - (ii) details of soil salinity management where relevant;
 - (iii) measures that will be employed to minimise soil erosion and the discharge of sediment and other pollutants to lands and/or waters during construction and/or the expansion of the rejects emplacement area. The Plan should be prepared in accordance with the requirements for such plans outlined in *Managing Urban Stormwater: Soils and Construction* (available from the Department of Housing) or its latest version;
 - (iv) the consideration of the location and purpose of structures in the erosion and sediment control plan to maximise similarities between predevelopment and post-development drainage networks with reference to catchment areas, drainage densities and discharge characteristics;
 - (v) consideration and management of erosion and sedimentation of affected surface watercourses/waterbodies, including creeklines within the DA areas;
 - (vi) measures to construct banks, channels and similar works to divert stormwater away from disturbed and contaminated land surfaces such as mine workings, coal handling areas and wastewater treatment facilities.
 All diversion banks, channels and points of discharge must be constructed or stabilised so as to minimise erosion and scouring; and
 - (vii) a program for reporting on the effectiveness of the erosion and sediment control systems and performance against objectives contained in the approved Erosion and Sediment Control Management Plan, and EIS.
- (c) The Applicant must also prepare a Soil Stripping Management Plan for the expansion of the rejects emplacement area, prior to the commencement of construction of the reject emplacement area, to the requirements of Resources Regulator and DPIE Water that must include, but not be limited to:
 - (i) details to ensure the maximum retrieval of suitable topdressing material and appropriate management of topsoil stockpiles including immediate revegetation to protect from soil erosion and to control potential weed

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⁵ EPA General Terms of Approval

problems;

- (ii) details of the management of soil stockpiles, soil stripping techniques and scheduling;
- (iii) control of weed infestation on topsoil stockpile material;
- (iv) details of estimated quantities of suitable topdressing material required for subsequent respreading on rehabilitated land; and
- (v) a program for reporting on the effectiveness of the soil stripping methods and performance against objectives contained in the soil stripping management plan, and the documents referred to in Condition 1.1(a).
- (d) The company is to re-establish a post-mining drainage system which is comparable to the drainage density and discharge characteristics of the premining land for each affected drainage line discharging from the area of the mining development. The design and implementation of the post-mining drainage system is to be prepared prior to the cessation of mining and to the satisfaction of DPIE Water.
- (e) The Applicant must install a flexible drop structure in Sandy Creek or its tributaries and undertake such other measures as required by DPIE Water when headward erosion of the creek bed becomes evident.
- (f) The Applicant must implement soil erosion mitigation measures at ventilation shafts to the satisfaction of DPIE Water, including a sedimentation structure to collect runoff from disturbed areas.

3.7 Site Rehabilitation Management

(a) The Applicant must rehabilitate the site to the satisfaction of the Resources Regulator. This rehabilitation must be generally consistent with the proposed rehabilitation activities described in the documents referred to in Condition 1.1 (a) and comply with the objectives in Table 3.

Table 3: Rehabilitation objectives

Feature	Objective
All areas of the site affected by the development	 Safe, stable and non-polluting Fit for the intended post-mining land use/s
Areas proposed for native ecosystem reestablishment	Establish self-sustaining ecosystems comprising flora species selected to re-establish and complement local and regional biodiversity
Areas proposed for agricultural or pastoral use	Nominated land capability classification is achieved and is self-sustaining

Final Landform	Consistent with surrounding topography to minimise visual impacts
	• Incorporate relief patterns and design principles consistent with natural drainage
Rehabilitation materials	Soil and vegetative materials from areas disturbed under this consent (including topsoils, substrates and seeds) are recovered, managed and used as rehabilitation resources
Surface infrastructure of the development	Decommissioned and removed, unless the Resources Regulator agrees otherwise
	All surface infrastructure sites are to be revegetated consistent with the post-mining land use
Portals and vent	To be decommissioned and made safe and stable
shafts of the development	Retain habitat for threatened species (e.g. bats), where practicable
Watercourses subject	Hydraulically and geomorphologically stable
to mine water discharges and/or subsidence impacts or environmental consequences that are greater than negligible	Aquatic ecology and riparian vegetation that is the same or better than prior to grant of this consent
Water quality	Water retained on the site is fit for the intended post- mining land use/s
	Water management is consistent with the regional catchment management strategy
Built features damaged by mining operations	Repair to pre-mining condition or equivalent unless the:
	o owner agrees otherwise; or
epotations.	o damage is fully restored, repaired or compensated for under the <i>Coal Mine Subsidence Compensation Act 2017</i>
Cliffs, minor cliffs, rock face features and steep slopes	No additional risk to public safety compared to prior to mining
Community	Ensure public safety
	Minimise adverse socio-economic effects associated with mine closure

- (b) The rehabilitation objectives apply to all subsidence impacts and environmental consequences caused by all underground mining as part of the development and to all surface infrastructure components of the development.
- (c) Where remediation of watercourses is likely to cause environmental consequences greater than those that require rehabilitation, alternative equivalent works may be undertaken within the affected watercourse.

(d) The Applicant 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: This condition does not prevent further disturbance at some later stage of the development of areas that have been rehabilitated.

3.8 Visual Amenity and Landscaping

- (a) A Landscape Management Plan must be prepared by the Applicant and approved by the Secretary prior to recommencement of construction. The Plan must be prepared in consultation with Resources Regulator, MSC and UHSC. In preparation of the plan, regard must be given to the Aberdeen Sheet of the Synoptic Plan: Integrated Landscapes for Coal Mine Rehabilitation in the Hunter Valley of NSW. The Landscape Management Plan must be appended to the Mining Operations Plan (Condition 2.1) and must include, but not be limited to, the following:
 - i) An on-site landscaping strategy detailing design and proposed planting of trees and shrubs and/or the construction of mounding or bunding:
 - 1) adjacent to the Dam and Ventilation Shaft No.1 where screening of new infrastructure is required from Dartbrook Road.
 - 2) screening of new infrastructure, where required, from other public roads including Kayuga, and Dartbrook and Coal Creek Roads;
 - 3) around the Kayuga Entry to reduce lighting effects;
 - 4) in areas of the eastern facilities site where replanting of existing screening is required. This must include, where necessary, the construction of a suitably screened bund wall on the northern and southern ends of the CHPP to reduce visual effects on nearby residences at Aberdeen and nearby rural properties;
 - 5) as part of the rehabilitation of the Rejects Emplacement Area;
 - 6) along sections of the new access road to the mine site;
 - 7) along sections of the New England Highway; and
 - 8) at any other areas identified as necessary by MSC or UHSC for the maintenance of satisfactory visual amenity, and as agreed by the Secretary.
 - ii) Appropriate erosion control and sediment control practices for earthworks associated with the landscaping.
 - iii) Details of visual appearance of new buildings, structures, facilities or works (including paint colours, screenings and specifications). New buildings and structures (including the Nitrogen Injection Plant) must be designed and constructed so as to present a neat and orderly appearance and to blend as far as practicable with the surrounding landscape.
 - iv) Details, specifications and staged work programs to be undertaken, maintenance and monitoring of all landscape works and maintenance of building materials and cladding.

- v) Details of a monitoring program to assess the effectiveness of visual impact mitigation measures. The program will be developed in consultation with MSC and UHSC and be prepared to the satisfaction of the Secretary;
- vi) Reporting of monitoring results in the Annual Review and to MSC, UHSC and the CCC. Monitoring results would specifically identify any remedial works required;
- vii) Details of contingency measures to be applied in the case that proposed visual mitigation measures are not successful;
- viii) the process of incorporating vegetation screening and fauna protection corridors into the proposed visual and landscaping works, where practicable;
- ix) use of indigenous species;
- x) details of predicted visual impacts from the proposed rejects emplacement area on residences not owned by the Applicant, UHSC land and Aberdeen. The predicted visual impacts must be in the form of a montage and transects showing clear sightlines from the viewer to the proposed rejects emplacement area;
- xi) details of an off-site landscape strategy which will detail proposed off-site mitigation measures and include the:
 - 1) identification of those properties to be offered off-site visual enhancement works, in accordance with predicted adverse visual impacts;
 - 2) details of consultation with the relevant landowners; and
 - 3) details of the procedure to be followed to design and implement appropriate off-site vegetation screening if requested by landowners identified under 1 above; and
- xii) consideration of the visual impact and adequacy of associated mitigating measures on the Aberdeen property of SCC, with recommendations for any additional measures including consideration of buffer land, as applicable. This consideration must be undertaken by an independent qualified person(s) appointed by the Secretary, in consultation with SCC and Applicant, and paid for by the Applicant.
- (b) In the event that a landowner other than those identified in subclause (a)(xi) above, considers that his/her residence is visually impacted by the proposal, greater than predicted in the Landscape Management Plan once the proposal is operational, the Applicant must, upon the receipt of a written request, consult the landowner, discuss their concerns and, if necessary, possible mitigation.
- (c) Should the Applicant and/or landowner dispute the level of adverse impact or any proposed mitigation measures from subclause (a)(xi) or (b) above, then either party may refer the matter to the Secretary in consultation with MSC and/or UHSC.
- (d) Notwithstanding subclauses (b) and (c) above, the Applicant must fund and undertake an independent review of the visual impact of the proposed rejects emplacement area on UHSC's land, every five years from the commencement of mining operations, unless otherwise agreed by the Secretary. The

independent review must be undertaken by an independent Landscape Expert appointed by the Secretary in consultation with UHSC and the Applicant. The independent Landscape Expert must determine whether the actual visual impact of the rejects emplacement area on UHSC's land is greater than that predicted in the Landscape Management Plan. If the independent Landscape Expert determines that the impact on UHSC's land is greater than that predicted in the Landscape Management Plan, the independent Landscape Expert must make recommendations to mitigate the impact.

(e) If either party disputes the determination and recommendations of the independent Landscape Expert in subclause (d) above, either party may refer the matter to the Secretary for final determination.

3.9 Bushfire and other Fire Controls

The Applicant must:

- (a) provide adequate fire protection works, fire fighting equipment and hazard reduction measures with particular attention to boundaries of adjoining landholdings;
- (b) submit an annual report on fire management activities to the Muswellbrook Fire Management Committee;
- (b1) ensure all flammable materials are stored and handled in accordance with its Material Data Safety Sheets and relevant Australian Standard;
- (b2) include fire safety as part of mine safety inductions for employees and contractors; and
- (c) prepare a Bushfire Management Plan for all its holdings contained in the DA area, prior to commencement of mining operations, to the satisfaction of MSC, UHSC and the Rural Fire Service.

3.10 Land Management

- (a) The Applicant must, prior to commencement of construction or Mining Operations update the current Dartbrook Mine Land Management Plan for the areas of the proposed surface facilities, and its holdings in the DA area, to provide for proper land management in consultation with DPIE Water, MSC, and to the satisfaction of the Secretary. The plan must include, but not be limited to:
 - (i) pastures and remnant vegetation management;
 - (ii) prevention and rehabilitation of land degradation;
 - (iv) assessment of the potential for commercial harvesting of standing timber removed from the site;
 - (v) eradication of vermin and noxious weeds as required by the Rural Lands Protection Board, the Upper Hunter Weeds Authority, the Prickly Pear Authority and other relevant authorities; and,

- (vi) feral animal control.
- (b) The Applicant must minimise the removal of trees and other vegetation from the proposed surface facilities area, and restrict any clearance to the areas occupied by mine activity, buildings and paved surfaces, and those areas necessary for fire control in accordance with MSC requirements.
- (c) The Applicant must ensure that the agricultural capability of lands under its control within the mining lease area are at a level not less than the level at the date of this consent.
- (d) The Applicant must maintain a minimum 50 metre wide buffer strip between the southern rejects emplacement area and the adjacent land owned by Mr and Mrs L Wilkinson. Surface drains and an access road may be constructed within the 50 metre wide strip.

4. Water Management and Monitoring

4.1 Surface & Ground Water Management Plans

The Applicant must:

- (a) prior to the recommencement of Mining Operations, prepare a Site Water Management Plan for the DA area, in consultation with DPIE Water and NRAR, MSC and to the satisfaction of the Secretary, which must include, but not be limited to, the following matters:
 - (i) management of the quality and quantity of surface and ground water to comply with the water performance measures in Table 4, including:
 - 1) surface and groundwater impact assessment criteria; and
 - 2) a description of the water management system and water balance;
 - (ii) management of stormwater and general surface runoff diversion to ensure separate effective management of clean and mine water; including details of temporary surface drainage works to minimise the flow of surface water onto the rejects emplacement area and details of drainage works to direct runoff from the active rejects emplacement areas to onsite storage dams;
 - (iii) measures to prevent the degradation of downstream surface water quality below the pre-mining ANZECC beneficial water use classification due to mining operations, particularly in the Hunter River;
 - (iv) measures to determine whether any groundwater from the Hunter River alluvium aquifers is captured by the mine including a response plan in the event that monitoring shows evidence of a dilution of salinity or change in water chemistry, or increase in inflow rate that may indicate leakage from the alluvium to the Hunter Tunnel;

- (v) measures to be implemented in the event that the continued operation of the Hunter Tunnel leads to a significant increase in groundwater salinity in the alluvial aquifer system;
- (vi) contingency plans for managing adverse impacts of the development on surface and groundwater quality which must include:
 - 1) contingency arrangements to manage excess saline water if the storage of the mine water management system is exceeded; and
 - 2) contingency measures to manage any impacts identified by monitoring that the management strategies have failed to predict or control, particularly relating to groundwaters associated with the alluvial aquifer of the Hunter River, in consultation with DPIE Water.
- (vii) [Deleted]
- (viii) measures to ensure that waters of poorer quality are effectively segregated and reused on the site.
- (ix) details of a strategy for the decommissioning of water management structures, including mine water dams and clean water diversion dams;
- (x) measures to isolate heavily contaminated waters, including waters containing oil and grease, or other pollutants, operation chemical residues or other criteria, to avoid mixing with reuse or discharge waters;
- (xi) measures for assessing chemical water quality impacts of the mining operation above and below the mine site;
- (xii) projection of potential groundwater changes during mining (short term) and post-mining (long term) with particular attention given to the affect of changes to groundwater quality and mobilisation of salts including downgradient of the rejects emplacement area;
- (xiii) details of consultation with landholders who use water from the proposed longwall mining area and adjacent area and those parts of Dart Brook and Sandy Creek alluvia immediately adjacent to the mining areas, in relation to their requirements for and the availability of, water and must consider those water uses in the formulation of the management plan;
- (xiv) details of a surface water and groundwater monitoring program (refer to clause 4.2(a)(ii);
- (xv) a program for reporting on the effectiveness of the water management systems and performance against objectives contained in the approved site water management plans, and EIS; and
- (xvi) measures to minimise the demand for external water supplies, including the reuse of mine waters for operational activities where possible.
- (b) The Applicant must undertake annual assessments of the accuracy of the groundwater model predictions outlined in the EIS compared with monitored groundwater impacts in consultation with DPIE Water and NRAR. Details of

the assessments must be reported in the Annual Review and the scope of the assessment must be determined in consultation with DPIE Water and NRAR. Should the assessment identify significant differences between the EIS model predictions and monitored impacts, the Applicant must revise the assessment of the potential impacts on groundwater systems in consultation with DPIE Water and NRAR and implement any further mitigation measures in consultation with DPIE Water and NRAR.

(b1) The Applicant must ensure that the development complies with the performance measures in Table 4.

 Table 4:
 Water management performance measures

Table 4:	water management performance measures
Feature	Performance Measure
Water management – General	Maintain separation between clean and mine water management systems
	Minimise the use of clean and potable water on the site
	Minimise the use of make-up water from external sources
	Design, install, operate and maintain water management infrastructure in a proper and efficient manner
Erosion and sediment control works	Design, install and maintain erosion and sediment controls in accordance with the guidance series Managing Urban Stormwater: Soils and Construction including Volume 1: Blue Book (Landcom, 2004), Volume 2A: Installation of Services (DECC, 2008), Volume 2C: Unsealed Roads (DECC, 2008) and Volume 2E: Mines and Quarries (DECC, 2008)
	Design, install and maintain any infrastructure within 40 metres of watercourses in accordance with the guidance series for Controlled Activities on Waterfront Land (DPI Water, 2012)
	Design, install and maintain any creek crossings generally in accordance with the Fisheries NSW Policy and Guidelines for Fish Habitat Conservation and Management (DPI, 2013) and Why Do Fish Need To Cross The Road? Fish Passage Requirements for Waterway Crossings (NSW Fisheries 2003)
Clean water diversions and	• Design, install and maintain the clean water system to capture and convey the 100 year Annual Recurrence Interval (ARI) flood
storage infrastructure	Maximise as far as reasonable the diversion of clean water around disturbed areas on the site, except where clean water is captured for use on the site
Sediment dams	• Design, install and maintain sediment dams in accordance with the guidance series <i>Managing Urban Stormwater: Soils and Construction</i> including <i>Volume 1: Blue Book (Landcom, 2004) and Volume 2E: Mines and Quarries (DECC, 2008)</i>

Mine water storages	Design, install and maintain mine water storage infrastructure to avoid unlicensed or uncontrolled discharges to surface waters as far as reasonable and practicable
Mine water discharges	• No discharges to surface waters except in accordance with an Environment Protection Licence, section 120 of the Protection of the Environment Operations Act 1997 or Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002
Chemical and hydrocarbon storage	Chemical and hydrocarbon products to be stored in bunded areas in accordance with the relevant Australian Standard
Tailings storages	Design and maintain tailings storage areas to encapsulate and prevent the release of tailings seepage/leachate

(b2) The performance measures in Table 4 do not apply to water management structures constructed prior to the approval of Modification 7.

Compensatory Water Supply

- (c) The Applicant must provide a 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 minor or negligible) as a result of the development, in consultation with DPIE Water, and to the satisfaction of the Secretary.
- (c1) 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 development. 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.
- (c2) If the Applicant and the landowner cannot agree on whether the loss of water is to be attributed to the development 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. The burden of proof that any loss of surface water or groundwater access is not due to mining impacts rests with the Applicant.
- (c3) If the Applicant is unable to provide an alternative long-term supply of water, Dartbrook Extended Underground Coal Mine

then the Applicant must provide compensation, to the satisfaction of the Secretary.

Notes:

• The Water Management Plan (see Condition 4.1(a)) is required to include trigger levels for investigating potentially adverse impacts on private water supplies.

Water Supply

- (d) The Applicant must:
 - (i) ensure that it has sufficient water for all stages of the development;
 - (ii) implement efficiency and best practice measures to minimise and conserve the use of water; and
 - (iii) if necessary, adjust the scale of the development to match its available water supply.
- (d1) The Applicant 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 Applicant is required to obtain all necessary water licences for the development, including during rehabilitation and following mine closure.

- (e) ⁶The construction or mining operations must not damage or interfere with:
 - vegetation outside the area of operation;
 - the stability of adjacent or nearby streams; or
 - the quality of water in the stream or watercourse except as authorised by the EPA.
- (f) The Applicant must ensure that soil and/or vegetation material to be removed from the area of operations must be disposed of to an appropriate site where it will not re-enter the watercourses or drainage systems.
- (g) The Applicant must be responsible for any excavation or soil removal undertaken by any other person at the mine site.
- (h) The Applicant must ensure that all drainage diversion works at the mine site must minimise adverse impacts, in consultation with DPIE Water. This must include:
 - (i) sufficient flow detention measures to provide flow rates at non-erosive velocities prior to re-entry into the natural drainage system;
 - (ii) provision of adequate scour protection to ensure that where flows reenter natural drainage lines from the diversion drains, adverse erosion impacts do not occur;
 - (iii) designing all diversion systems to provide stability for the long-term for

⁶ DPIE Water General Terms of Approval

⁷ DPIE Water General Terms of Approval

⁸ DPIE Water General Terms of Approval

⁹ DPIE Water General Terms of Approval

- permanent diversions or for the designed life for temporary diversions;
- (iv) undertaking a pre-construction survey, by a suitably qualified person, of the channel site and adjacent banks showing design channel profile on cross-sections;
- (v) undertaking engineering hydraulic calculations by a suitably qualified person and assessment of scour potential of the channel to meet design flood capacity. This should be related to flow velocities, stability of design bed material type and bed slopes and profiles;
- (vi) revegetating the banks of the new channel using suitable species immediately following excavation;
- (vii) rehabilitating using locally grown species transplanted and embedded into erosion matting where required in areas of high scour rates. The diversion system may require time for appropriate revegetation prior to its connection to divert water;
- (viii) ensuring the sizes of any culverts are determined by a suitably qualified person;
- (ix) ensuring the flows or hydraulic levels upstream and downstream of any culverts must not hinder the passage of fish and aquatic animals where appropriate. Any culverts must be constructed so that they comply with NSW Fisheries Policy and Guidelines for culvert construction.
- (x) preventing erosion of the bed and banks upstream and downstream of any culvert with suitable scour protection as recommended by a suitably qualified person.

4.2 Surface and Groundwater Monitoring

- (a) The Applicant must:
 - (i) construct and locate surface and groundwater monitoring positions, as identified in the Site Water Management Plan (Condition 4.1(a)) in consultation with DPIE Water and NRAR, and to the satisfaction of the Secretary, at least three months prior to the commencement of mining operations;
 - (ii) prepare a detailed monitoring program in respect of ground and surface water quality and quantity, including water in and around the DA area during mining works and post mine operations in consultation with DPIE Water and NRAR which must form part of the Site Water Management Plan. The monitoring program must have the capacity to collect sufficient data to adequately assess:
 - 1) the impact on groundwater levels on neighbouring properties and in the locality, and to identify any water quality impacts;
 - 2) the impact of the development on groundwaters associated with the alluvial aquifer of the Hunter River including the ongoing monitoring of the volume and quality of water inflows into the Hunter Tunnel;
 - 3) regional groundwater levels and water quality including the extension of the regional groundwater monitoring network to include bores RDH508-511; and
 - 4) any concerns or complaints from surrounding landholders on groundwater matters, and any ensuing actions, which must be recorded and be available to DPIE Water and NRAR.

- (iii) report on the monitoring results and raw data in the Annual Review on the following matters:
 - 1) a basic statistical analysis (mean, range, variance, standard deviation) of the results for the parameters measured in individual bores / wells and as a subset of the aquifer;
 - 2) an interpretation of the water quality results and changes in time for water quality and water levels (supported with graphs, contour plots showing changes in aquifer pressure levels);
 - 3) an interpretation of the water balance identifying the volume of water and comparing this to predictions made in the EIS or the previous Annual Review; and
 - 4) provide an electronic copy of the data for warded to DPIE Water and NRAR.
- (iv) The Applicant must consult with the DPIE Water and NRAR and submit the Groundwater and Surface Water Monitoring Program in subclause (a)(ii) to the EPA when an application for a licence variation is submitted.

4.3 Flood Response Plan

(a) The Applicant must, prepare and implement a Flood Response Plan, to the satisfaction of the Secretary. The Plan must identify flood risks and describe the mitigation measures and management procedures to mitigate these risks and ensure the safety of personnel on the site during flood events.

Notes:

- In this condition, "flood" is considered to be any event exceeding the 20% Annual Exceedance Probability (AEP) up to and including the Probably Maximum Flood (PMF) event.
- Under the Work Health and Safety Act 2011 and the Work Health and Safety (Mines and Petroleum Sites) Act 2013, the Applicant is responsible for ensuring the safety of its workers and contractors.

5. Rejects Emplacement Area and Waste Management

5.1 Rejects Emplacement Area

- (a) The Applicant must:
 - (i) Ensure the construction, operation and decommissioning of the rejects replacement area meets relevant geotechnical factors of safety and long-term stability criteria, suitable for a permanent feature of the landscape;
 - (ii) Unless otherwise agreed to by the Resources Regulator, ensure the design of the rejects emplacement area addresses:
 - the need for subsurface drainage;

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¹⁰ EPA General Terms of Approval

- compaction of rejects within the emplacement to achieve a target of 95 percent standard compaction, and at all times achieve a 90 percent standard compaction;
- temperate control and monitoring using thermo-couples within the emplacement; and
- (iii) Prepare and implement a surveillance program to monitor the geotechnical stability of the rejects emplacement area, including periodic geotechnical analysis of the reject material to ensure it continues to meet relevant design criteria,

to the satisfaction of the Resources Regulator.

- (b) Prior to the emplacement of rejects in the southern and northern rejects emplacement areas, and for any subsequent modifications to the design of these emplacement areas, the Applicant must:
 - (i) Commission a suitably qualified, experienced and independent geotechnical expert, whose appointment has been approved by the Secretary, to review the detailed design (and surveillance program) for the southern and northern rejects emplacement areas to verify each design meets relevant geotechnical factors of safety and long-term stability criteria;
 - (ii) Implement all reasonable and feasible recommendations made by the independent geotechnical expert to improve the detailed design or the surveillance program for the southern and northern rejects emplacement areas; and
 - (iii) Provide a copy of the independent geotechnical expert's report to the Resources Regulator and the Secretary,

to the satisfaction of the Resources Regulator.

(c) Prior to emplacement of rejects in the southern rejects emplacement area, the Applicant must prepare and implement a revised Rehabilitation Strategy for all rejects emplacement areas at the mine, to the satisfaction of the Resources Regulator.

5.2 Waste

- (a) Prior to the commencement of construction or Mining Operations, the Applicant must prepare and implement a Waste Management Plan for the DA area in consultation with MSC and to the satisfaction of the Secretary. The Plan must include, but not be limited to:
 - (i) details of measures to facilitate waste management on site;
 - (i) details of compliance with the Applicant's obligations under the *Protection of the Environment Operations Act* (1997);
 - (ii) identification of all types and quantities of waste materials produced at

- the mine site during construction, commissioning and operation;
- (iii) programs aimed at minimising the production of waste at the mine site through the implementation of operational and management measures;
- (iv) details of the potential reuse and recycling avenues for waste materials produced at the mine site, including collection and handling procedures;
- (v) details of appropriate disposal routes in the event that reuse and recycling avenues are not available or are not practicable; and
- (vi) programs for involving and encouraging employees and contractors to minimise waste production at the mine site and reuse / recycling where appropriate.
- (b) The Applicant must dispose of all solid waste and putrescible matter from the site to the satisfaction of MSC or EPA, as relevant.
- (c) The Applicant must dispose of all treated sewage and sullage to the satisfaction of MSC and in accordance with the EPA Licence.

5.3 Tailings Disposal

- (a) The Applicant must not use tailing dams for the disposal of fine coal rejects, other than in emergency situations when the ratio of fine to coarse rejects are not within the specifications for the waste plant.
- (b) The Applicant must prepare a report to the Secretary every five years, or as otherwise agreed by the Secretary, reporting on the feasibility of using goaf areas of the Dartbrook Extended Mine, other than that described in the "Dartbrook Mine Statement of Environmental Effects for New ROM Coal Stockpiles, Underground Tailings Disposal & Nitrogen Injection Plant", dated 12 August 2005 and prepared by Hansen Consulting, for rejects disposal.

6. Air Quality, Noise and Light Management and Monitoring

6.1 Air Quality Management and Monitoring

Air Quality Standards/Goals

(a) The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria listed in Table 5 at any residence on privately-owned land.

Table 5: Air quality criteria

Pollutant	Averaging period	Criterion
Particulate matter	Annual	^{a, c} 25 μg/m ³
$< 10 \ \mu m \ (PM_{10})$	24 hour	^b 50 μg/m ³
Particulate matter	Annual	a, c 8 μg/m ³
< 2.5 μm (PM _{2.5})	24 hour	^b 25 μg/m ³

Total suspended particulate (TSP)	Annual	^{a, c} 90 μg/m ³
matter		

Notes:

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

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

- (b) The air quality criteria in Table 5 do not apply if the Applicant has an agreement with the owner/s of the relevant residence or land to exceed the air quality criteria, and the Applicant has advised the Department in writing of the terms of this agreement.
- (c) Upon receiving a written request for acquisition from the owner of the land listed in Table 6, the Applicant must acquire the land in accordance with the procedures in Conditions 11.2 (C) and (D).

Table 6: Air quality affected land subject to acquisition upon request

Acquisition Basis	Land
	Receiver 181
	Property 76
Air Quality	Receiver 212*
	Receiver 228*
	Receiver 238*
	Receiver 242*
	Receiver 244*
	Receiver 374*
	Receiver 391*

Notes:

- *The Applicant is only required to acquire this property if acquisition rights are no longer available under the development consent for the Mt Pleasant mine.
- The location of the land referred to in Table 6 is shown on the figure in Appendix 4.

Mine-owned Land

- (d) Particulate matter emissions generated by the development must not exceed the criteria listed in Table 6 at any occupied residence on mine-owned land (including land owned by another mining company) unless:
 - (i) 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 this consent:
 - (ii) the tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice;
 - (iii) 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 matter emissions at the residence; and

(iv) 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.

Air Quality Operating Conditions

- (e) The Applicant must:
 - (i) take all reasonable and feasible steps to minimise odour, fume, greenhouse gas and dust (including PM_{10} and $PM_{2.5}$) emissions of the development;
 - (ii) minimise any visible off-site air pollution generated by the development;
 - (iii) minimise to the greatest extent practicable, the extent of potential dust generating surfaces exposed on the site at any given point in time;
 - (iv) ensure all ROM coal and dust-prone surfaces are watered and kept sufficiently moist to prevent or minimise emissions;
 - (v) operate an air quality management system commensurate with the risk of impact to ensure compliance with the relevant conditions of this consent;
 - (vi) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see Note c to Table 5 above);
 - (vii) 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;
 - (viii) carry out regular air quality monitoring to determine whether the development is complying with the relevant conditions of this consent; and
 - (ix) regularly assess the air quality monitoring data, and modify operations on the site to ensure compliance with the relevant conditions of this consent.

Air Quality and Greenhouse Gas Management Plan

- (f) The Applicant must, prior to the recommencement of construction or mining operations, prepare an Air Quality and Greenhouse Gas Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (i) be prepared by a suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary;
 - (ii) describe the measures to be implemented to ensure:
 - compliance with the air quality criteria and operating conditions in this consent;
 - best practice management is being employed (including in respect of minimisation of greenhouse gas emissions from the development and energy efficiency); and
 - the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events;
 - outline mitigation measures to be employed to minimise dust emissions including dust from rejects emplacement area in dry and windy conditions;
 - (iv) describe the air quality management system in detail; and
 - (v) include an air quality monitoring program that:
 - uses monitors to evaluate the performance of the development against

the air quality criteria in this consent and to guide day to day planning of operations;

- adequately supports the air quality management system; and
- includes a protocol for identifying an air quality-related exceedance, incident or non-compliance and notifying the Department and relevant stakeholders of any such event.

Odour Monitoring

- (g) The Applicant must not cause or permit the emission of offensive odours from the premises and must comply with section 129 of the Protection of the Environment Operations Act 1997.
- (h) ¹²Prior to construction of each ventilation air discharge vent (ventilation shaft), the Applicant must submit a report to the EPA, which demonstrates, to the satisfaction of the EPA, that the new ventilation air discharge vents are located and designed in a manner that will not cause offensive odour impacts.
- (i) Within 90 days of commissioning each new ventilation air discharge vent (ventilation shaft), the Applicant must submit a report to the EPA, which includes the following site specific source emission test results:
 - Concentration of odour (OU/m³);
 - Emission rate of odour (OU/s);
 - Concentrations and emission rates of all other relevant air pollutants;
 - Volumetric flow rate (m³/s);
 - Discharge velocity (m/s); and
 - Temperature (°C).

If the above parameters are outside the range used in the dispersion modelling study of each ventilation air discharge vent (ventilation shaft), then the odour impacts must be assessed once more and the results submitted to the EPA.

(j) ¹⁴The location of sampling points and source emissions sampling and analysis must be conducted strictly in accordance with the "Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales", NSW EPA, 2007.

6.2 Dust Suppression and Control

- (a) The Applicant must ensure the prompt and effective rehabilitation of all disturbed areas of the mine site to minimise the generation of wind erosion dust.
- (b) The Applicant must keep the surface of the coal stockpiles and any unsealed roads sufficiently damp to minimise the emission of wind blown or traffic generated dust.

¹¹ EPA General Terms of Approval

¹² EPA General Terms of Approval

¹³ EPA General Terms of Approval

¹⁴ EPA General Terms of Approval

6.3 Blast Management and Monitoring

Blasting Overpressure

- (a) The overpressure level from blasting operations on the premises must not:
 - exceed 115dB (Linear Peak) for more than 5% of the total number of blasts over a period of 12 months; and
 - exceed 120dB (Linear Peak) at any time,

at any residence or noise sensitive location (such as a school or hospital) that is not owned by the Applicant or subject to a private agreement between the owner of the residence or noise sensitive location and the Applicant as to an alternative overpressure level.

Ground Vibration

- (b) Ground vibration peak particle velocity from the blasting operations must not:
 - exceed 5mm/s for more than 5% of the total number of blasts over a period of 12 months; and
 - exceed 10mm/s at any time,

at any residence or noise sensitive location (such as a school or hospital) that is not owned by the Applicant, or subject to a private agreement between the owner of the residence, or noise sensitive location and the Applicant, as to an alternative vibration level.

Time and Frequency of Blasting

- (c) ¹⁷Blasting operations may only take place between 9 am and 5 pm Monday to Friday inclusive;
- (d) Blasting at the premises is limited to 1 blast on each day on which blasting is permitted; and
- (e) The hours of operation for blasting operations specified in this condition may be varied if the EPA, having regard to the effect that the proposed variation would have on the amenity of the residents in the locality, gives written consent to the variation.

Blast Management Plan

¹⁵ EPA General Terms of Approval

¹⁶ EPA General Terms of Approval

¹⁷ EPA General Terms of Approval

¹⁸ EPA General Terms of Approval

¹⁹ EPA General Terms of Approval

- (f) The Applicant must prepare and implement a Blast Management Plan to the satisfaction of the Secretary, prior to the commencement of any blasting. ²⁰The Plan must include, but need not be limited to, the following matters:
 - compliance standards;
 - mitigation measures;
 - remedial action;
 - monitoring methods and program;
 - monitoring program for flyrock distribution;
 - measures to be undertaken to demonstrate that Dartbrook Mine is achieving best practice in minimising both air blast overpressure and ground vibration levels;
 - measures to protect underground utilities (eg: rising mains, subsurface telecommunication and electric cables), native fauna and livestock nearby;
 - procedures for the notification of neighbours prior to detonation of each blast; and
 - measures to ensure no damage by flyrock to people, property, livestock and powerlines.
- (g) The Applicant must as a minimum for large-scale blasts (with a maximum instantaneous charge greater than 20kg), advise residents within three (3) kilometres of blasting locations on a monthly basis and of any changes to monthly programs. For small-scale construction blasts (with a maximum instantaneous charge not greater than 20kg), the Applicant must as a minimum advise residents within one (1) kilometre of blasting locations.
- (h) Upon written request of the owner of any dwelling located within three (3) kilometres of large-scale blasting locations (with a maximum instantaneous charge greater than 20kg), or within one (1) kilometre of small-scale construction blasting locations (with a maximum instantaneous charge not greater than 20 kg), the Applicant must arrange at its own costs, for the inspection by a technically qualified person agreed to by both parties, to record the material condition of any structure on such a property within 14 days of receipt of the request. The Applicant must supply a copy of any inspection report, certified by the person who undertook the inspection, to the relevant property owner within fourteen (14) days of receipt of the report.
- (i) The Applicant must ensure that blasting must not take place within 500 metres of a public road while such road is open to traffic. Roads must not be closed for blasting purposes during the times that school buses use the road.
- (j) The Applicant must prepare a Road Closure Management Plan to the satisfaction of the Secretary, and in consultation with MSC and UHSC prior to any blasting within 500 metres of a public road. The Plan must include, but not be limited to, the following matters:

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²⁰ EPA General Terms of Approval

- (i) details of the proposed safety management measures during the period of the road closure and blast;
- (ii) details of the procedures for closing Dartbrook Road and the period which the road will be closed during blasting activities;
- (iii) methods for ensuring the safety of road users and the general public during the blast period;
- (iv) strategies for informing road users and the local community of the proposed road closure;
- (v) details of the procedures for permitting the passage of emergency vehicles during the road closure. This must also include details of the proposed methods for sufficiently notifying emergency service providers of the proposed times and period of the road closures;
- (vi) methods for clearing the road of any debris resulting from a blast; and
- (vii) details of the disruptions that are likely to occur during the closure period.
- (k) Notwithstanding subclause (j) above, if blasting is proposed within 500 metres of the New England Highway, The Applicant must prepare a Road Closure Management Plan to the satisfaction of the Secretary, and in consultation with TfNSW, MSC and UHSC, prior to any blasting within 500 metres of the New England Highway. The Plan must include, but not be limited to, the matters in subclause(j) above.

Blast Monitoring

- (l) The applicant must monitor ground vibration and overpressure of all blasts.
- (m) Ground vibration or the overpressure must be measured at noise sensitive sites (eg. residences, hospitals, schools etc), selected in consultation with the EPA.

6.4 Noise Control

6.4.1 Noise Levels

Intrusive Noise Criteria

(a) Except for the carrying out of construction works, the Applicant must ensure that the noise generated by the development does not exceed the criteria in Table 7 at any residence on privately-owned land.

Table 7: Operational noise criteria dB(A)

Noise Assessment Group	Day	Eveni	Night	Night
	L _{Aeq (15} min)	ng L _{Aeq} (15 min)	L _{Aeq (15} min)	LA1 (1 min)
Aberdeen	49	42	41	52
East Site Receivers (other than receivers 303 and 422)	50	50	41	52
Receivers 303 and 422	50	50	42	52
West Site Receivers	40	40	35	52
Other privately-owned residences	40	35	35	52

Notes:

- The Noise Assessment locations referred to in Table 7 are listed in Schedule 1 and shown in Appendix 4.
- Daytime (between the hours of 7am and 6pm); evening (between 6pm and 10pm) and night time (between 10 pm and 7 am).

Noise generated by the development must be monitored and measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the *NSW Noise Policy for Industry* (EPA, 2017).

The noise criteria in Table 7 do not apply if the Applicant has an agreement with the owner/s of the relevant residence or land to exceed the noise criteria, and the Applicant has advised the Department in writing of the terms of this agreement.

Sale of Mine-Owned Land

If mine-owned land is sold within 6 months of the approval of Mod 7 that will exceed the VLAMP acquisition criteria for noise (specifically receivers 299B, 301 and 69A) or the VLAMP mitigation criteria for noise (specifically receivers 300, 302 and 304) the Applicant must fully inform any purchaser of the acoustic impact of the development at the time of sale and the Applicant must negotiate an agreement to be entered into in accordance with the VLAMP as a condition of the sale.

Noise Acquisition Criteria

(c) Upon receiving a written request for acquisition from the owner of the land listed in Table 8, the Applicant must acquire the land in accordance with the procedures in Conditions 11.2 (C)-(D).

Table 8:Land subject to acquisition upon request

Acquisition Basis	Land	
Noise	Receiver 86	

Notes:

- The location of the land referred to in Table 8 is shown on the figure in Appendix 4.
- Land previously identified in the equivalent table to Table 8 prior to Modification 7 as 'Knight' and 'Gordon' are now mine-owned.

Noise Operating Conditions

- (d) The Applicant must:
 - take all reasonable steps to minimise all noise from construction and operational activities including low frequency noise and other audible characteristics, as well as road and rail noise associated with the development;
 - (ii) operate a comprehensive noise management system commensurate with the risk of impact to ensure compliance with the relevant conditions of this consent:
 - (iii) take all reasonable steps to minimise noise impacts of the development during noise-enhancing meteorological conditions;
 - (iv) only use locomotives and rolling stock that are approved to operate on the

- NSW rail network in accordance with the noise limits in ARTC's EPL and use reasonable endeavours to ensure that rolling stock is selected to minimise noise;
- (v) carry out regular attended noise monitoring (at least once a month, unless otherwise agreed by the Secretary) to determine whether the development is complying with the relevant conditions of this consent; and
- (vi) regularly assess the noise monitoring data and modify or stop operations on the site to ensure compliance with the relevant conditions of this consent.

6.4.2 Noise Management Plan

- (a) The Applicant must, prior to the recommencement of construction or mining operations, prepare a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (i) be prepared by a suitably qualified and experienced person/s;
 - (ii) describe the measures to be implemented to ensure:
 - compliance with the noise criteria and operating conditions in this consent;
 - best practice management is being employed;
 - noise impacts of the development are minimised during noise-enhancing meteorological conditions;
 - (iii) seek to minimise road traffic noise generated employee commuter vehicles on local public roads;
 - (iv) describe the noise management system in detail; and
 - (v) include a monitoring program that:
 - uses a combination of real-time and supplementary attended monitoring to evaluate the performance of the development;
 - monitors noise at the nearest and/or most affected residences;
 - 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-related exceedance, incident and non-compliance and for notifying the Department and relevant stakeholders of any such event.
 - includes a protocol for proactive management of noise emissions during adverse meteorological conditions.

6.5 Lighting Emissions

- (a) The Applicant must, prior to commencement of construction, prepare a Lighting Management Plan in consultation with MSC, UHSC and to the satisfaction of the Secretary. The Plan must include details of the implementation of visual controls to screen, direct or manage all on-site lighting from mine related activities in respect of residences and roadways. The Plan must include, but not be limited to:
 - i) details of the planting of vegetation screens along Dartbrook Road, to screen potential lighting impacts;

- ii) details of the tree screen on the north side of the access road at the corner north of the Dam to screen potential lighting impacts;
- iii) details of the tree and shrub screening around the Drift Access to reduce potential lighting impacts;
- iv) details of technical measures and work practices necessary to minimise the spillage of light from areas to be illuminated, and to minimise the total night time glow from the mine;
- v) details of the construction or placement of visual screens to screen lighting impacts;
- vi) details of the proposed process and measures to address complaints that may be received from residents or road users impacted by lighting from the mine site; and
- vii) details of any other effective operating practices to manage potential lighting impacts.
- (b) The Applicant must report on the effectiveness of the lighting emission controls in the Annual Review.
- (c) The Applicant must ensure that on-site lighting does not directly emit light into the line of sight of nearby dwellings. The light emitted from any direct flood lighting and any vehicle headlights must be directed away from dwellings and public roads.
- (d) The Applicant must ensure that light emitted from locomotive headlights whilst a locomotive is on or moving off the rail loop must be screened from dwellings to the satisfaction of MSC or as otherwise agreed by the Secretary.

6.6 Vibration from Mine Operations

- (a) Ground vibration peak particle velocity from the rail loop and/or CHPP facility must not:
 - exceed 2.82 mm/s at any time,

at any residence or noise sensitive location (such as a school or hospital) that is not owned by the Applicant, or subject to a private agreement between the owner of the residence, or noise sensitive location and the Applicant, as to an alternative vibration level.

- (b) Prior to the commencement of mining operations, the Applicant must prepare and implement a Vibration Management Plan to the satisfaction of the Secretary which will include, but need not be limited to, the following matters:
 - compliance standards;
 - monitoring program;
 - mitigation measures;
 - remedial action in an event of exceedance of criteria in subclause 6.6(a) above:
 - monitoring methods and program; and
 - measures to be undertaken to demonstrate that Dartbrook Mine is achieving best practice in minimising vibration levels from the rail loop and/or CHPP,

7. Transport and Utilities

7.1 Rail Transport

(a) All coal must be transported from the CHPP by rail.

7.2 Road Transport

- (a) The Applicant must not transport any coal by road.
- (b) The Applicant must not load coal onto trucks before 7.00 am on any day, except under emergency circumstances when short haulage to the emergency stockpile at the access slot is necessary and with notification of MSC and the Secretary as soon as practicable.
- (f) The Applicant must ensure that:
 - (i) All mine personnel (including contractors) access the Dartbrook Mine facilities via the New England Highway and the Western Access Road, with the exception of employees approved by the Dartbrook General Manager and living in the local area most directly accessed by local roads. These employees can access the mine via local public roads and Stair Street;
 - (ii) A list of approved employees under Conditions 7.2(f)(i) & (ii) be maintained by the Applicant, and made available to the Department upon request;
 - (iii) Kayuga Road, from the Hunter River bridge to the Castlerock Road intersection, is not used to access the mine or mine satellite surface facilities. Limited use of local roads by mine related traffic for access to mine satellite surface facilities is permitted, with internal access roads to be utilised where practicable; and
 - (iv) The section of Kayuga Road between Stair Street and Dartbrook Road, and the section of Dartbrook Road between Kayuga Road and the entrance to the Kayuga Mine surface facilities, be maintained in consultation with MSC and to the satisfaction of the Secretary.
- (g) The Applicant must submit all designs and specifications associated with the proposed access road and Blairmore Lane Underpass to MSC or UHSC for approval, prior to the commencement of work. The proposed western access road must be sealed in accordance with the requirements of MSC or UHSC.

7.3 Hunter Tunnel Coal Clearance System

ROM coal is to be transported by conveyors from the West Site to the East Site via the Hunter Tunnel Coal Clearance System.

7.4 [Deleted]

7.5 [Deleted]

7.6 Provision of Utility Services

Refer Mining Operations Plan (Condition 2.1(c)).

7.7 Road and Rail Works

The Applicant must:

- (a) Install the pipeline crossings of Ely and Heir Streets (both undeveloped roads) to the satisfaction of Muswellbrook Council;
- (b) Install pipelines under the Main Northern Rail Line to the satisfaction of the Australian Rail Track Corporation; and
- (c) Prior to the commencement of any construction within the road reserve of the New England Highway the Applicant must prepare and subsequently implement a Traffic Management Plan in accordance with the TfNSW's *Traffic Control at Worksites* guidelines, to the satisfaction of Muswellbrook Council and the TfNSW. The Plan must:
 - (i) describes the schedule of the proposed road works;
 - (ii) describe the measures that would be implemented to minimise traffic impacts associated with the construction of the proposed development; and
 - (iii) include a Traffic Control Plan that describes the measures that would be implemented to control construction traffic access to the classified road network.
- (d) Bore pipelines under the New England Highway to the satisfaction of the TfNSW.
 - (i) Notes:
 - (ii) there will be no access from the New England Highway to the work site;
 - (iii) the boring/ crossing locations must be perpendicular to the New England Highway road reserve at a location which offers the shortest length possible, unless otherwise approved by the TfNSW;
 - (iv) the location of the pipeline crossing must be in accordance with the TfNSW guideline and take into account the location of utilities another infrastructure;
 - (v) the crossing must be constructed to Australian Standards and allow for future widening requirements of the New England Highway;
 - (vi) the crossing must be installed through trenchless technology unless otherwise approved by the TfNSW;
 - (vii) the crossings must maintain a minimum vertical buffer of 1.5 metres between the pipeline and the highway within the road reserve;
 - (viii) where steel casings are not used a trace wire must be provided to assist with the future location of the pipeline;
 - (ix) pipes installed under the road must be sleeved and grouted;
 - (x) permanent markers must be provided at the entry and exist point of the

- road reserve;
- (xi) any access points and values must be located outside of the road reserve; and
- (xii) all areas within the road reserve that are disturbed by the development must be restored to their original condition to the satisfaction of the TfNSW.

8. Monitoring/Auditing

- (a) Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, compliance report and independent audit.
 - Note: For the purposes of this condition, as set out in the EP&A Act, "monitoring" means monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an "environmental audit" means a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.
- (b) Monitoring under this consent is not required at all privately-owned residences and the use of representative monitoring locations can be used to demonstrate compliance with criteria.

8.1 Third Party Monitoring/Auditing

Independent Environmental Audit

- (a) Within one year of the recommencement of mining operations, and every three years after, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. The audit must:
 - (i) be led by a suitably qualified, experienced and independent auditor whose appointment has been be endorsed by the Secretary;
 - (ii) be conducted by a suitably qualified, experienced and independent team of experts (including any expert in field/s specified by the Secretary) whose appointment has been endorsed by the Secretary;
 - (iii) be carried out in consultation with the relevant agencies and the CCC;
 - (iv) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent, water licences and mining leases for the development (including any assessment, strategy, plan or program required under these approvals);
 - (v) review the adequacy of any approved strategy, plan or program required under the abovementioned approvals and this consent;
 - (vi) recommend appropriate measures or actions to improve the environmental

performance of the development and any assessment, strategy, plan or program required under the abovementioned approvals and this consent; and

- (vii) be conducted and reported to the satisfaction of the Secretary.
- (b) Within three months of commencing an Independent Environmental Audit, or other timeframe agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The recommendations must be implemented to the satisfaction of the Secretary.

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

8.2 Meteorological Station(s)

- (a) The Applicant must continue to maintain and operate a suitable meteorological station operating in the vicinity of the site that:
 - (i) complies with the requirements in the *Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales* (2007); and
 - (ii) is capable of measuring meteorological conditions in accordance with the NSW Noise Policy for Industry (2017),

unless a suitable alternative is approved by the Secretary following consultation with the EPA.

(i) endorsed by the Secretary;

9. Reporting

9.1 Reports on Operations

(a) The Applicant must report on mine operations in accordance with the MOP (refer to Condition 2.1).

9.2 Environmental Reporting

Annual Review

- (a) By the end of March in each year after the commencement of the development, or other timeframe agreed by the Secretary, a report must be submitted to the Department reviewing the environmental performance of the development, to the satisfaction of the Secretary. This review must:
 - (i) describe the development (including any rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;
 - (ii) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, including a comparison of these results against the:
 - relevant statutory requirements, limits or performance measures/criteria;

- requirements of any plan or program required under this consent;
- monitoring results of previous years; and
- relevant predictions in the documents referred to in Condition 1.1(a);
- (iii) identify any non-compliance or incident which occurred in the previous calendar year, and describe what actions were (or are being) taken to rectify the non-compliance or incident and avoid reoccurrence;
- (iv) evaluate and report on:
 - the effectiveness of the noise and air quality management systems;
 - socio-economic impact of the development including the workforce characteristics of the previous calendar year; and
 - the surveillance of any prescribed dam on the site to the satisfaction of the DSC;
 - the outcome of the water budget for the year, the quantity of water used from water storages and details of discharge of any water from the site; and
 - compliance with the performance measures, criteria and operating conditions in this consent;
- (v) identify any trends in the monitoring data over the life of the development;
- (vi) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
- (vii) describe what measures will be implemented over the next calendar year to improve the environmental performance of the development.
- (b) Copies of the Annual Review must be submitted to the Department, Council and made available to the CCC and any interested person upon request.

9.3 Incident and Non-Compliance Reporting

Incident Notification

(a) The Applicant must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing to compliance@planning.nsw.gov.au and identify the development (including the development application number and name) and set out the location and nature of the incident.

Non-Compliance Notification

(b) Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing to compliance@planning.nsw.gov.au and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

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

10. Community Consultation/Obligations

The Applicant must operate a Community Consultative Committee (CCC) for the life of the development, or other timeframe agreed by the Secretary, in accordance with the Department's *Community Consultative Committee Guidelines: State Significant Projects* (2016).

Notes:

- *The CCC is an advisory committee only.*
- In accordance with the Guidelines, the Committee should comprise an independent chair and appropriate representation from the Applicant, Council and the local community.
- This condition does not require the re-constitution of any CCC members established under previous conditions of consent.

11. Proponents Obligations

11.1 [Deleted]

11.2 Compensation and Land Acquisition and as a Result of Subsidence

Note: Compensation and other measures for subsidence impacts, are also available under the provisions of the Mining Act 1992 and the Coal Mine Subsidence Compensation Act2017.

(A) Compensation and Acquisition – Significant Structural Damage to Dwellings

- (a) Where a dwelling within the DA area is, or is likely to be (as identified in the Property Subsidence Management Plan referred to in Condition 3.3(g)(iii)), subject to damage beyond the safe, serviceable and repairable criteria as a result of the development, the landowner, may request the Applicant in writing to:
 - (i) carry out such works as agreed by the landowner to remedy or mitigate any damage; or
 - (ii) compensate the landowner for such effects; or as a last resort and failing all other measures,
 - (iii) acquire the whole of the property, or such part of the property requested by the landowner where subdivision is approved.
- (b) The Applicant must comply with any such request for compensation or acquisition in accordance with Conditions 11.2(C) and (D). If necessary to confirm the impact, the Applicant must, at the request of the landowner in writing, conduct a follow-up structural inspection. Any inspection or assessment under this Condition must be conducted as if it were conducted under the relevant part of Condition 3.3(f)(viii).
- (c) Any disputes relating to compensation may be referred by either party to:
 - the Land and Environment Court at any time in accordance with the provisions of the Mining Act; or
 - the SA NSW at any time in accordance with the provisions of the Coal Mine

Subsidence Compensation Act 2017.

(d) Any disputes relating to land acquisition (except those relating to valuation matters) may be referred by either party to the Secretary for consideration and advice if no agreement is reached within three months of receipt by the Applicant of the written request.

(B) Compensation and Acquisition – Land Capability Impacts

- (a) Where a landowner suffers, or is likely to suffer a loss of land capability or agricultural productivity (as identified in the Property Subsidence Management Plan referred to in Condition 3.3(g)), as a result of the development, the landowner, after receiving notification from the Applicant in accordance with Condition 3.3(m)(ii), may request the Applicant in writing to:
 - (i) carry out such works as agreed by the landowner to rectify the problem; or
 - (ii) compensate the landowner for such effects; or, as a last resort and failing all other measures,
 - (iii) acquire the whole of the property, or such part of the property requested by the landowner where subdivision is approved.
- (b) Any disputes relating to compensation may be referred by either party to the Land and Environment Court at any time in accordance with the provisions of the Mining Act.
- (c) Any disputes relating to acquisition (except those relating to valuation matters) may be referred by either party to the Secretary for consideration and advice if no agreement is reached within three months of receipt by the Applicant of the written request.
- (d) If the matter is referred to the Secretary in accordance with subclause (c) above, the Secretary shall appoint an Independent Expert, in consultation with the Applicant and the landowner and in accordance with the "Evaluation Process for Land Acquisition due to Land Capability Impacts caused by Subsidence" (refer to Schedule C). The Applicant must bear the costs of engaging the Independent Expert.
- (e) The Independent Expert shall determine the level and extent of loss or impacts, and recommend whether acquisition is required, and in doing so, shall consider the following matters:
 - the level of predicted or actual subsidence;
 - the level of land capability and/or agricultural productivity as unaffected by underground mining;
 - the assessment of agricultural utilisation, agricultural improvements and the underlying agricultural productivity of the relevant property prior to mining operations, as determined in the relevant Property Subsidence Management Plan (in accordance with Condition 3.3(f)(vi));
 - the impact of subsidence on the land capability and agricultural productivity of the land;
 - the nature and extent of feasible mitigation measures; and

previous compensation considerations under the Mining Act.

A recommendation for acquisition of a property may only be made by the Independent Expert where the Expert is satisfied that after consideration of feasible mitigation measures the impact of subsidence is such as to significantly adversely affect the existing and future land capability and/or agricultural productivity.

(f) Where it is determined by the Secretary that a property is eligible for acquisition, and acquisition is requested by the landowner, the Applicant must comply with any such request in accordance with Conditions 11.2(C)-(D).

(C) Acquisition – Procedure

- (a) Upon receipt of a written request to purchase property in accordance with any part of conditions 6.1(c), 6.4.1(c) and 11.2, the Applicant must offer in writing to acquire the whole of the property (unless the request specifically requests acquisition of only part of the property and subdivision has already been approved) within six months of receipt of the request. The Applicant must pay the landowner an acquisition price resulting from proper consideration of:
 - (i) a sum not less than the current market value of the owner's interest in the land at the date of this consent, as if the land was unaffected by Dartbrook Mine, having regard to:
 - the existing use and permissible use of the land in accordance with the applicable planning instruments at the date of the written request; and
 - the presence of improvements on the land and/or any Council approved building or structure which although substantially commenced at the date of the request is completed subsequent to that date.
 - (ii) the owner's reasonable compensation for disturbance allowance and relocation within the Singleton, Upper Hunter or Muswellbrook Local Government Areas, or within such other location as may be determined by the Secretary in exceptional circumstances;
 - (iii) the owner's reasonable costs for obtaining legal advice and expert witnesses for the purposes of determining the acquisition price for the land and the terms upon which it is to be acquired; and
 - (iv) the purchase price determined by reference to points (i), (ii) and (iii) shall be reduced by the amount of any compensation awarded to a landowner pursuant to the *Mining Act*, 1992 or other legislation providing for compensation in relation to coal mining but limited to compensation for dwellings, structures and other fixed improvements on the land, unless otherwise determined by the Secretary in consultation with the Resources Regulator or SA NSW.
- (b) An offer by the Applicant to purchase a property under the conditions of this consent must remain open to the landowner for the following periods from the date of the offer:

- (i) for damage to a dwelling beyond the safe, serviceable and repairable criteria (Condition 11.2(A)), three years after completion of mining of longwall panels that affect the property;
- (ii) for land capability and/or agricultural productivity impacts (Condition 11.2(B)), five years after completion of mining of longwall panels that affect the property; and
- (iii) for land listed in Tables 6 and 8, for the life of the development.
- (c) Notwithstanding any other Condition of this consent, the landowner and the Applicant may enter into any other agreed arrangement regarding compensation; or the Applicant may, upon request of the landowner, acquire any property affected by the project during the course of this consent on terms agreed to between the Applicant and the landowner.

(D) Independent Valuation

- (a) In the event that the Applicant and the landowner cannot agree within three months upon the acquisition price of the land and/or the terms upon which it is to be acquired under the terms of this consent, then either party may refer the matter to the Secretary who must request an independent valuation to determine the acquisition price. The independent valuer must consider any submissions from the landowner and the Applicant in determining the acquisition price.
- (b) If the independent valuer requires guidance on any contentious legal, planning or other issues, the independent valuer must refer the matter to the Secretary, who, if satisfied that there is a need for a qualified panel, shall arrange for the constitution of the panel. The panel shall consist of:
 - (i) the appointed independent valuer;
 - (ii) the Secretary; and/or
 - (iii) the President of the Law Society of NSW or nominee.

The qualified panel shall, on the advice of the valuer, determine the issue referred to it and advise the valuer.

- (c) The Applicant must bear the costs of any independent valuation or survey assessment requested by the Secretary.
- (d) The Applicant must, within fourteen days of receipt of a valuation by the independent valuer, offer in writing to acquire the relevant land at a price not less than the said valuation.

(E) Additional Mitigation Upon Request

(a) Upon receiving a written request for mitigation from the owner of any residence on the land listed in Tables 6 and 8, the Applicant must implement additional mitigation measures at or in the vicinity of the residence in consultation with the landowner. These measures must be consistent with the measures outlined in the *Voluntary Land Acquisition and Mitigation Policy for State Significant Mining, Petroleum and Extractive Industry Development* (2018). They must also be reasonable and feasible, proportionate to the level of predicted impact and directed towards reducing the noise and/or air quality impacts of the

- development. The Applicant must also be responsible for the reasonable costs of ongoing maintenance of these additional mitigation measures until the cessation of mining operations.
- (b) If within 3 months of receiving this request from the owner, the Applicant and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution.

(F) Notification of Landowners/Tenants

- (a) Within one month of the approval of Modification 7, the Applicant must:
 - (i) notify in writing the owner of:
 - the land listed in Tables 6 or 8 that they have the right to require the Applicant to acquire their land at any stage during the development; and
 - the residences on the land listed in Tables 6 or 8 that they are also entitled to ask the Applicant to install additional mitigation measures at the residence;
 - (ii) notify the tenants of any mine-owned land of their rights under this consent; and
 - (iii) send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (2017) to the owners and/or existing tenants of any land (including mine-owned land) where the predictions in the documents referred to in Condition 1.1 (a) identify that dust emissions generated by the development are likely to be greater than the relevant air quality criteria identified in Condition 6.1 (a) at any time during the life of the development.
- (b) Prior to entering into any tenancy agreement for any land owned by the Applicant that is predicted to experience exceedances of the recommended dust and/or noise criteria, the Applicant must:
 - (i) advise the prospective tenants of the potential health and amenity impacts associated with living on the land, and give them a copy of the NSW Health fact sheet entitled "Mine Dust and You" (2017); and
 - (ii) advise the prospective tenants of the rights they would have under this consent,

to the satisfaction of the Secretary.

Notification of Exceedances

- (a) As soon as practicable and no longer than 7 days after obtaining monitoring results showing an exceedance of any noise or air quality criterion in condition 6.1 (a) and condition 6.4.1 (a) of this consent, the Applicant must:
 - (i) provide to any affected landowners and tenants; and
 - (ii) publish on its website, the full details of the exceedance.
- (b) For any exceedance of any air quality criterion in condition 6.1 (a) of this consent, the Applicant must also provide to any affected land owners and tenants copy of the NSW Health fact sheet entitled "*Mine Dust and You*" (2017).

<u>Independent Review</u>

- (c) If a landowner considers the development to be exceeding any air quality or noise relevant criterion in condition 6.1 (a) or condition 6.4.1 (a) of this consent, they may ask the Secretary in writing for an independent review of the impacts of the development on their residence or land.
- (d) If the Secretary is not satisfied that an independent review is warranted, the Secretary will notify the landowner in writing of that decision, and the reasons for that decision, within 21 days of the request for a review.
- (e) If the Secretary is satisfied that an independent review is warranted, within 3 months, or other timeframe agreed by the Secretary and the landowner, of the Secretary's decision, the Applicant must:
 - (iii) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:
 - consult with the landowner to determine their concerns;
 - conduct monitoring to determine whether the development is complying with the relevant criteria in condition 6.1 (a) or condition 6.4.1 (a); and
 - if the development is not complying with the relevant criterion, identify measures that could be implemented to ensure compliance with the relevant criterion; and
 - (iv) give the Secretary and landowner a copy of the independent review; and
 - (v) comply with any written requests made by the Secretary to implement any findings of the review.

11.4 Contributions to Council

Planning Agreement – MSC

- (a) Within six months of the approval of Modification 7, or other timeframe agreed by the Secretary, the Applicant must enter into a Planning Agreement with MSC in accordance with:
 - (i) Division 7.1 of Part 7 of the EP&A Act; and
 - (ii) the terms of the offer in Appendix 5.

Planning Agreement – UHSC

- (b) Within six months of the approval of Modification 7, or other timeframe agreed by the Secretary, the Applicant must enter into a Planning Agreement with UHSC in accordance with:
 - (i) Division 7.1 of Part 7 of the EP&A Act; and
 - (ii) the terms of the offer in Appendix 5.

12. Further Approvals and Agreements

12.1 Statutory Requirements

(a) The Applicant must ensure that all statutory requirements including but not restricted to those set down by the Local Government Act 1993, Protection of the Environment Administration Act 1991, Protection of the Environment Operations Act 1997, Rivers and Foreshores Improvement Act 1948, Water Act 1912, National Parks and Wildlife Act 1974, and all other relevant legislation, Regulations, Australian Standards, Codes, Guidelines and Notices, Conditions, Directions, Notices and Requirements issued pursuant to statutory powers by the MSC, EPA, DRG, Resources Regulator, NRAR, DPIE Environment, DPIE Water, TfNSW, NSW Agriculture, and NSW Fisheries, are fully met.

(b) <u>Structural Adequacy</u>

Detailed plans and specifications relating to the design and construction of each structural element associated with the proposed development are to be submitted to the Principal Certifying Authority prior to the construction of each particular building or structure. Such plans and specifications must be accompanied by certification provided by a practicing professional structural engineer or an accredited certifier certifying the structural adequacy of the proposed building design and compliance with the Building Code of Australia.

(c) Verification of Construction

Upon completion of building works and prior to the issue of an occupation certificate, a certificate/s prepared by a suitably qualified person or a compliance certificate/s issued by an accredited certifier, is to be submitted to the Principal Certifying Authority certifying that the following building components, where relevant, have been completed in accordance with approved plans and specifications:

- (i) footings;
- (ii) concrete structures, including ground floor and any subsequent floors, retaining walls and columns;
- (iii) framing and roof structure;
- (iv) fire protection coverings to building elements required to comply with the Building Code of Australia; and
- (v) mechanical ventilation.

The certificate/s must demonstrate at what stage of construction inspections were undertaken.

12.2 Approvals within a Mine Subsidence District

(a) The Applicant must seek the approval of the SA NSW for the construction of any improvements, including those related to the mine buildings and associated works, any relocation or diversion of infrastructure or existing improvements, prior to undertaking the works.

²¹ Mine Subsidence Board General Terms of Approval

13. Access to Information

- (a) Prior to the recommencement of mining operations until the completion of all rehabilitation required under this consent, the Applicant must:
 - (i) make the following information and documents (as they are obtained, approved or as otherwise stipulated within the conditions of this consent) publicly available on its website:
 - the documents referred to in Condition 1.1 (a) of this consent;
 - all current statutory approvals for the development;
 - all approved strategies, plans and programs required under the conditions of this consent;
 - minutes of CCC meetings;
 - regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the conditions of this consent;
 - a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;
 - a summary of the current stage and progress of the development;
 - contact details to enquire about the development or to make a complaint;
 - a complaints register, updated monthly;
 - the Annual Reviews of the development;
 - audit reports prepared as part of any Independent Environmental Audit of the development and the Applicant's response to the recommendations in any audit report; and
 - any other matter required by the Secretary; and
 - (ii) keep such information up to date, to the satisfaction of the Secretary.

SCHEDULE A

The table below provides a link between the original receiver 'locations' and the new receiver identifications introduced under Modification 7.

Location	Receiver ID	Lot / Section and DP Number			
		Eas	t Site Receive	rs	
Knight*	302	1453		628493	
Day	86	51		776564	
O'D :: - ::	303	170		723261	
O'Brien	422	7		844651	
Gordon*	304	1452		583830	
	West Site Receivers				
Blairmore Point*	295	3		835733	
"Waitomo"	371	100		1177385	
"Maryvale"	153	156		750926	
Standing	181	5	23	758554	
Lonergan	212	7	21	758554	
MacIntyre 1*	69	110		873834	
MacIntyre 2*	69	110		873834	
MacIntyre 3*	69	110		873834	
"Woodburn"**	137	102		1124883	
"Athlone"**	344	28		750926	
"Glenmore"**	512	177		750926	
"Belgrave"	336	74		750926	
"Woodlands"*	36	180		750951	
"Mayvale"	35	178		750951	
"Malara"	34	181		750951	

^{*} Property acquired by the Applicant, now mine-owned

^{**}Property acquired by MACH Energy, now mine-owned

Appendix 1 - Schedule of Land

Schedule of Land

ID	Lot	Section	DP
5	164		750951
6	164	11 2 2 2 2	750951
8	165		750951
14	1771		1175346
15	1770		1175346
16	1772		1175346
17	176		750951
18	2		1103375
19	1	11777	1103375
20	195		750951
21	204		750951
22	196		750951
23	191		750951
24	190		750951
25	2		1001266
26	1		1001266
27	167		750951
32	178		750951
34	181		750951
35	178		750951
36	180		750951
37	179		750951
38	183		750951
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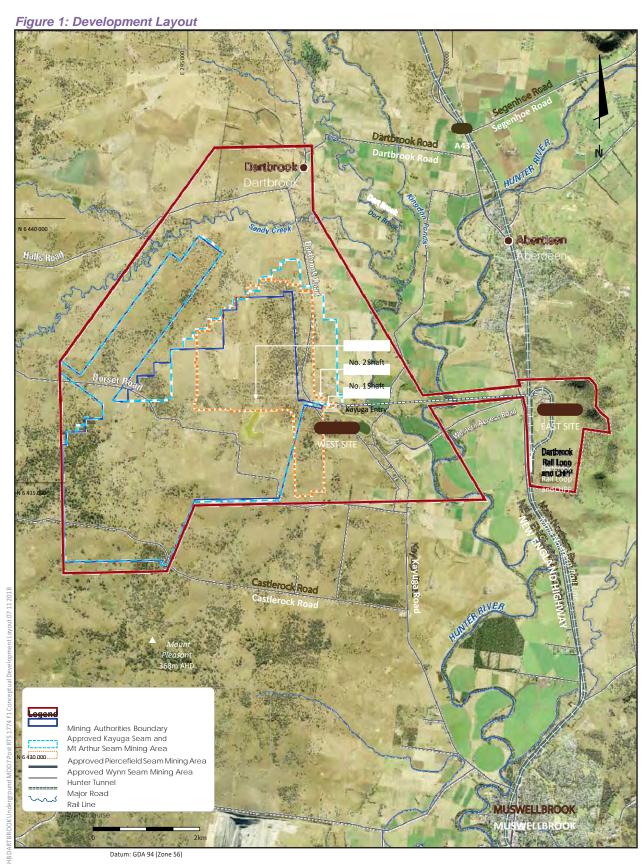
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ID	Lot	Section	DP
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457	176		750926
458	132	1 1 1	750926
459	186		750926
460	191		750926
461	175		750926

ID	Lot	Section	DP
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479	Α		174071
480	93		750926
481	В		174071
549	15		112742
550	13		112742
553	14		112742

Appendix 2 - Development Layout Plans

- Figure 1: Development Layout
- Figure 2: Existing East Site Infrastructure (Figure 1 of Hansen Bailey Updated Response to Contentions)
- Figure 3: Existing Environment West Site Infrastructure (Figure 2 of Hansen Bailey Updated Response to Contentions)



Hanson Bailey



DARTBROOK MINE

Conceptual Development Layout

Clean Water Dam 1 Western Access Road NEW ENGLAND HIGHWAY Eastern Holding Dam outhern Clean WaterDam Legend Coal Handling and Processing Plant Stockpi les Water Management Infrastructure Tailings Cell Indicative REA Rehabilitated ROM Stockpiles Rehabilitated Stockpiles Bunds Bunds Clean Water Diversion Drain Dirty Water Diversion Drain Main Northern Rail Line Dartbrook Rail Loop DARTBROOK MINE 4111M.

Hansen Bailey

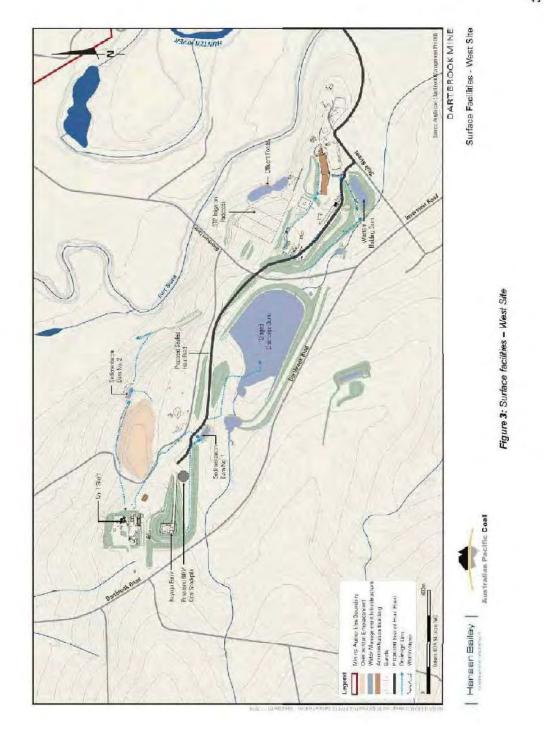
Australian Pacific Coal

Figure 2: Existing East Site Infrastructure (Figure I of Hansen Bailey Response to Contentions)

FIGURE 1

Existing East Site Infrastructure

Figure 3: -Existing Environment -West Site Infrastructure (Figure 2 of Hansen Bailey Response to Contentions)



Appendix 3 - Underground Workings

- Figure 5: Approved Longwall Mine Plan Kayuga and Mt Arthur Seams
- Figure 6: Approved Longwall Mine Plan Piercefield Seam
- Figure 7: Approved Longwall Mine Plan Wynn Seam
- Figure 8: Approved Bord and Pillar Mine Plan Kayuga Seam

Figure 5: Approved Longwall Mine Plan -Kayuga and Mt Arthur Seams

Appendix 3 - Underground Workings

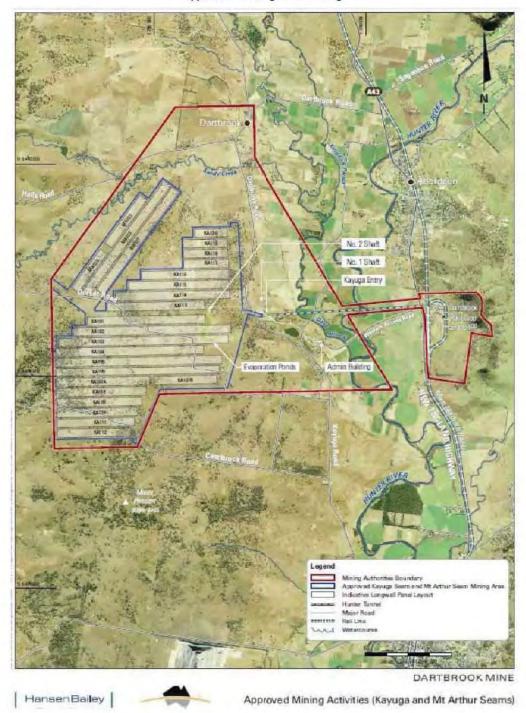
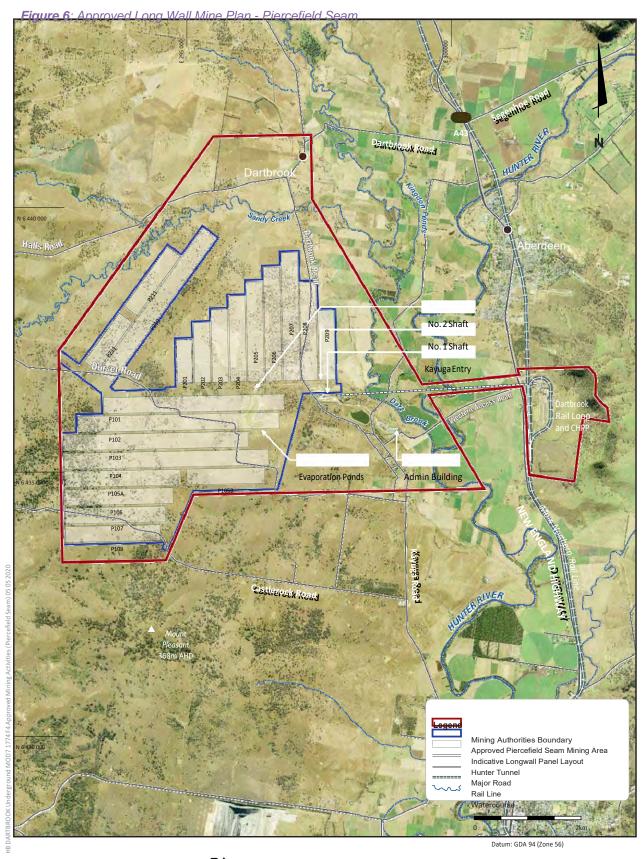


Figure 5: Approved Longwall Mine Plan - Kayuga and Mt Arthur Seams

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Hansen Bailey



DARTBROOK MINE

Approved Mining Activities (Piercefield Seam)

Figure 7: Approved Longwall Mine Plan -Wynn Seam

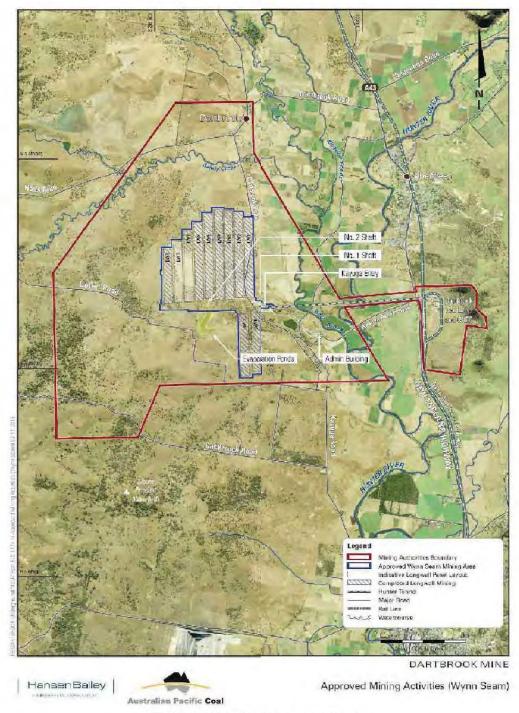


Figure 7: Approved Longwall Mine Plan - Wynn Seam

35

Figure 8: Approved Bord and Pillar Mine Plan -Kayuga Seam

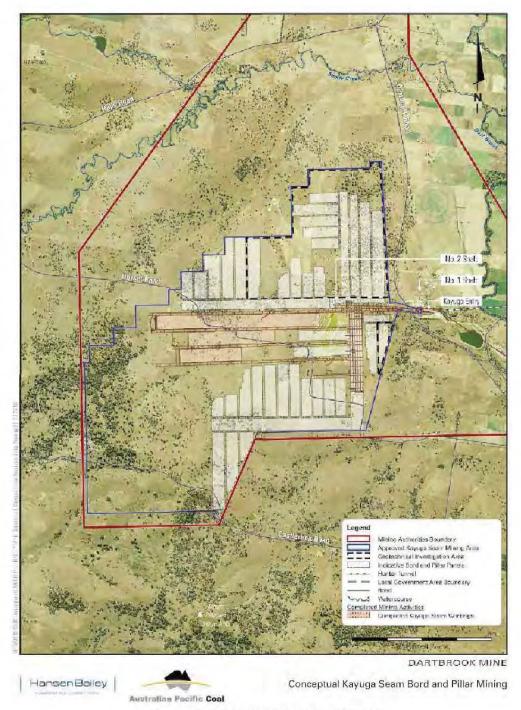


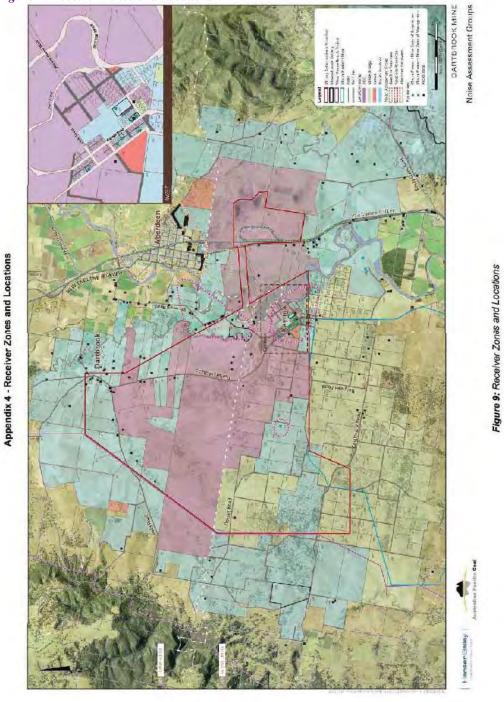
Figure 8: Approved Bord and Pillar Mine Plan - Kayuga Seam

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Appendix 4 - Receiver Zones and Locations

Figure 9: Receiver Zones and Locations

Figure 9: Receiver Zones and Locations



Appendix 5 - General Terms of Applicant's VPA Offer Components of Proposed Planning Agreement with MSC

Description of Contribution	Quantity	Purpose of Contribution
Dartbrook Community Contribution	\$408,000.00 per annum payable in 12 equal monthly instalments commencing from the date of the approval of Modification 7 to DA 231-7-2000. This amount will be indexed annually according to the Consumer Price Index (CPI).	Funding for the provision of public infrastructure and services within the Muswellbrook LGA. This figure is arrived at consistently with other Shire approvals, at 6.8c multiplied by the maximum approved ROM rate of 6mtpa.
Contribution of funding toward an Environmental Officer	\$10,000 per annum. This amount will be indexed annually according to the Consumer Price Index (CPI).	Funding toward an Environmental Officer, who will be responsible for environmental matters associated with development in the Muswellbrook LGA. Noting that the same condition is inserted in proposed UHSC VPA.
Training of Apprentices	Target of two apprentices at any given time with preference given to residents of Muswellbrook & Upper Hunter Shire LGA's	To assist in building a skilled labour force within the Muswellbrook & Upper Hunter Shire LGAs. Same condition proposed in UHSC VPA.
Revision of the Mine Affected Roads Study	Consultant or contractor costs of reviewing and revising the Mining Affected Road Network Plan (or equivalent) as it relates to or is impacted upon by the project together with the proportional	Modification). Contribute to road upgrades relevant to the modification's traffic contribution.

Components of Proposed Planning Agreement with UHSC

Description of Contribution	Quantity	Purpose of Contribution
Community Enhancement Fund	\$100,000 per annum payable in quarterly instalments commencing twelve (12) months after the date of approval of MOD 7 to DA 231-7-2000.	Funding for the provision of public infrastructure and services within the Upper Hunter LGA particularly focusing on the Aberdeen Area and its surrounds. This payment will be indexed annually according to the Consumer Price Index (CPI).
Contribution of funding toward an Environmental Officer	\$10,000 per annum	Funding toward an Environmental Officer, who will be responsible for environmental matters associated with development in the Upper Hunter LGA. Noting that the same condition is inserted in the proposed Muswellbrook Shire VPA. This annual financial contribution will be indexed annually according to the Consumer Price Index (CPI).
Training of Apprentices	Target of two apprentices at any given time with preference given to residents of Upper Hunter & Muswellbrook LGAs.	

^{1.} Update the Index in Schedule 2 to reflect the changes made by this instrument.